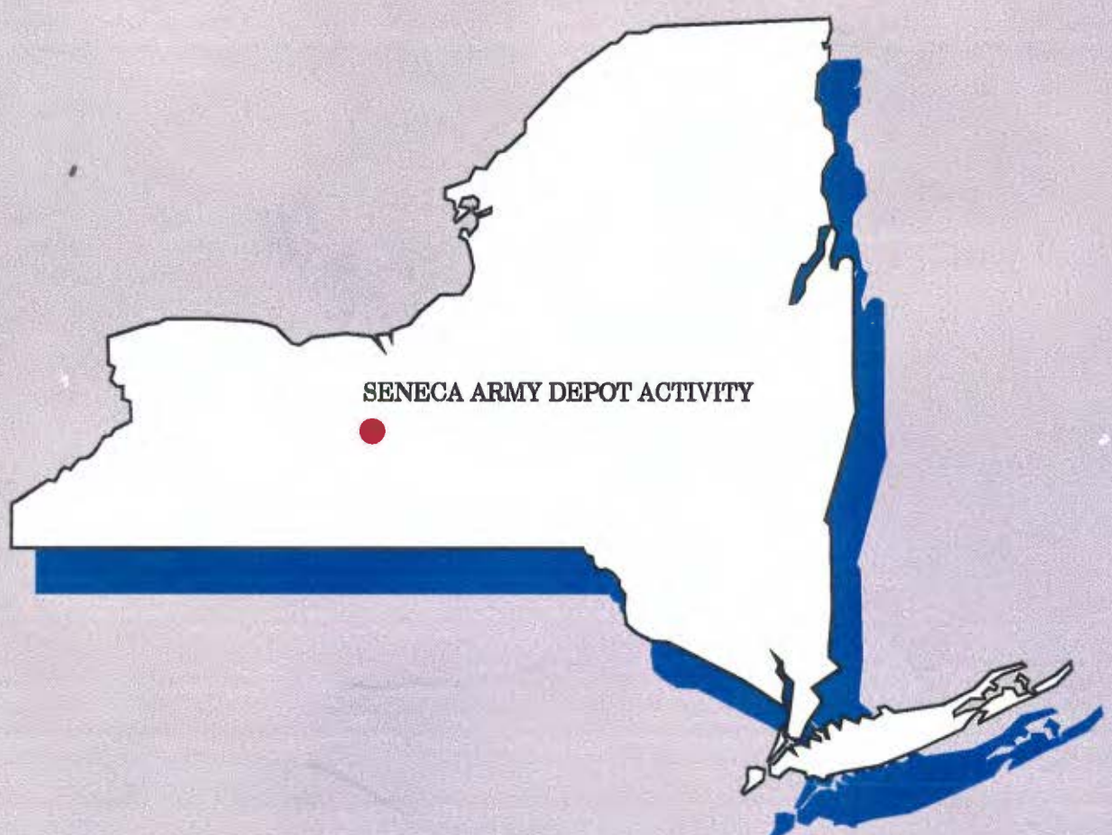
U.S. ARMY ENGINEER DIVISION
HUNTSVILLE, ALABAMA



FINAL

GROUNDWATER MODELING REPORT AT THE ASH LANDFILL SITE

JUNE 1996

SIMULATION OF GROUNDWATER FLOW AND VOC PLUME MIGRATION AT THE ASH LANDFILL, SENECA ARMY DEPOT ACTIVITY, ROMULUS, NEW YORK

Prepared for :

Seneca Army Depot Activity
Romulus, New York

Prepared by:

Parsons Engineering Science, Inc.
Prudential Center
Boston, MA

726209-01002 **June 1996**

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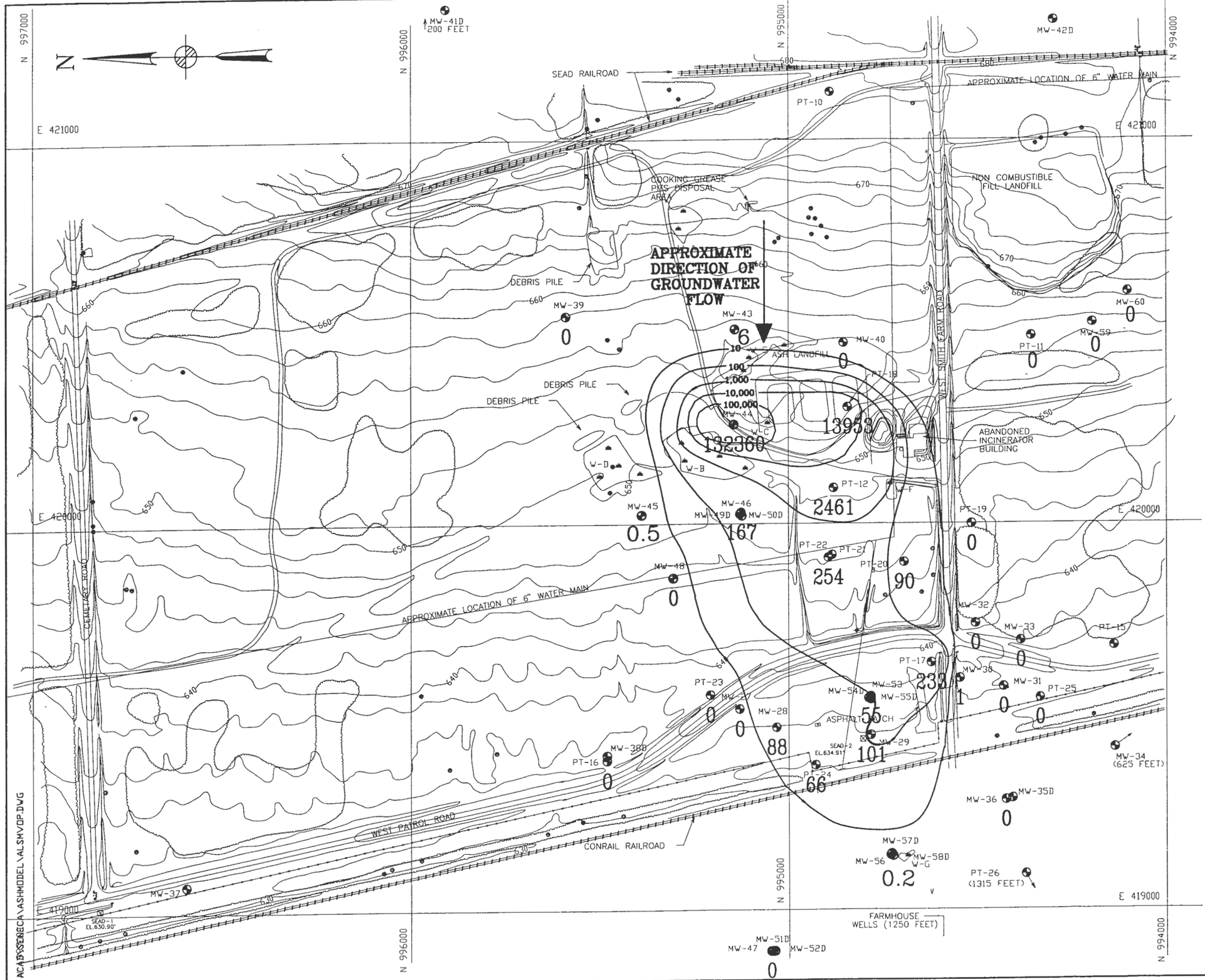
1.0 INTRODUCTION

Groundwater at the Ash Landfill has been impacted by volatile organic compounds (VOCs), predominantly trichloroethene (TCE) and the breakdown products, including 1,2-dichloroethene (1,2-DCE) and vinyl chloride (VC). The plume, as it existed in 1994, is shown in Figure 1-1.

The presence of VOCs was first detected in 1979 during an initial installation assessment performed by the Army Environmental Hygiene Agency (AEHA 1979). Since that time, the plume has been delineated and monitored by Seneca Army Depot Activity (SEDA). Monitoring has been conducted as part of a quarterly groundwater sampling program, initiated upon the detection of the plume, in an effort to track the migration of the plume and protect potential off-site receptors. While there is some variability in the data, the monitoring results suggest that the plume is stable with no significant increase in the concentration of VOCs at the wells sampled during the period from 1989 to 1995. This data led to the formulation of the hypothesis that natural degradation subsurface processes, may be responsible for stabilizing the plume. This modeling effort is intended to evaluate this hypothesis.

The full extent of the plume was delineated as part of a remedial investigation (RI) at the Ash Landfill [Parsons Engineering Science, Inc. (Parsons ES), 1994a]. As part of this program, numerous monitoring wells were strategically located around the plume. This effort was successful in delineating the plume in all directions. The path of travel of the plume is from the east to the west. The westernmost tip of the plume is of interest as an increase in concentration in the wells along this edge would indicate the plume is migrating. Due to the proximity of the plume front to the depot boundary, several wells, including bedrock wells, were installed along this plume edge at off-site locations. The data obtained from these off-site wells confirmed that the plume had not migrated beyond the SEDA boundary. However, when the plume dimensions are mapped the plume was depicted to exist slightly beyond the SEDA boundary due to extrapolation between the on-site wells that have detectable amounts and the off-site wells that do not have detectable amounts of volatile organics. Although the plume has not impacted any active source of drinking water, a private drinking water well is present at a farmhouse residence located to the west (Figure 1-1).



LEGEND:

- PAVED ROAD
- DIRT ROAD
- 650 — GROUND CONTOUR AND ELEVATION
- TREE
- W-B — WETLAND & DESIGNATION
- APPROXIMATE EXTENT OF FILL
- OUTLINE OF FORMER TRASH PITS (IDENTIFIED FROM AERIAL PHOTO)
- APPROXIMATE EXTENT OF DEBRIS PILE
- BRUSH
- CHAIN LINK FENCE
- UTILITY POLE
- APPROXIMATE LOCATION OF FIRE HYDRANT
- FUEL OR UNDERGROUND STORAGE TANK
- SEAD-1 EL.630.90' — SURVEY MONUMENT
- PT-22 / MW-37 — MONITORING WELL AND DESIGNATION
- —10,000— GROUNDWATER ISOCONTOUR (ug/L)

NOTE:
THE CONCENTRATIONS SHOWN ON THIS FIGURE ARE FOR WELLS SCREENED IN THE TILL/WEATHERED SHALE AQUIFER.

125 0 125 250
1" = 250'

PARSONS
PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE
SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	720209-01002

FIGURE 1-1
ASH LANDFILL SITE MAP WITH VOLATILE ORGANICS PLUME

SCALE	DATE	REV
1" = 250'	JANUARY 1996	A

Using the historical groundwater monitoring data as the factual basis to understand the plume, initial fate and transport modeling of the plume was performed using a one-dimensional analytical model. The results of this effort suggested that the plume dimensions would remain constant. The hydrogeological mechanisms and transport factors of the model, appeared to explain why the on-site monitoring wells did not increase and the plume dimensions remained constant. The measurement of breakdown products in the downgradient wells combined with the stability of the plume suggested that natural degradation processes are responsible for stabilization of the plume. In other words, the natural degradation mechanisms, such soil microbiological respiration, operating in the groundwater/soil matrix were able to remove the dissolved volatile ogranics over the plume area at a rate equal to the rate that volatile organics were being introduced to the groundwater system as a result of leaching.

In the fall of 1994, the Army initiated a proactive, non-time critical removal action to eliminate the source of the groundwater plume. This effort, completed in June of 1995, successfully decontaminated the soil source area using Low Temperature Thermal Desorption (LTTD) at the Ash Landfill and eliminated further leaching of volatile organics to the groundwater. As the chlorinated organic compounds are more dense than water, source soil, including saturated soil, was completely excavated from the land surface to the top of competent bedrock, treated and returned to the excavation. In the process, several thousand gallons of groundwater from this area also were extracted and treated from the till/weathered shale aquifer.

The soil removal action was implemented to eliminate the continued mass input to the groundwater system with the intention that by eliminating the source of groundwater impacts, the natural degradation system would continue to degrade the remaining plume, thereby eliminating the need to implement an engineered remedial action. To provide greater confidence in the ability of the natural mechanisms to degrade the plume at a sufficient rate, it was determined that more sophisticated modeling techniques, such as numerical modeling, would be used to evaluate the effectiveness of this alternative. If the results from this evaluation suggested that the natural degradation process was capable of preventing expansion of the plume, eventually degrading the on-site concentrations to acceptable conditions, then institutional controls in combination with continued groundwater monitoring would be considered as the preferred remedial alternative.

For this study, numerical groundwater flow and transport models were selected as the preferred approach to evaluate this alternative. Concurrently, geochemical data identifying the presence of available electron acceptors and electron donors, was obtained to evaluate whether the site

conditions are favorable to support biodegradation. The presence of anaerobic dechlorination daughter products at downgradient locations had provided an indication that such a process is active. The United States Geological Survey (USGS) groundwater flow model (MODFLOW) and a three dimensional transport model (MT3D) were selected as the tools to predict the future migration of the plume relative to its current configuration. The transport model was also used to simulate the anticipated beneficial effect on the future migration of the plume resulting from the elimination of the VOC source material at the Ash Landfill.

1.1 PURPOSE

The purpose of this study is to predict the migration potential of a plume of VOCs and to evaluate the added beneficial effect gained eliminating the source of VOCs. The results of the modeling combined with the supporting field data and the historical groundwater monitoring data will provide the basis for evaluating the potential for off-site groundwater impacts. Additionally, these results will be used in the decision making process regarding the need for implementation of an engineered groundwater recovery and treatment system.

1.2 PREVIOUS MODELING RESULTS

As part of the RI, a one-dimensional analytical model was used to evaluate the future migration of dissolved materials (i.e., chlorinated organic compounds) in the groundwater. This initial modeling effort was intended to evaluate the potential for, or if, the plume would reach downgradient off-site locations.

The model, One Dimensional Analytical Solute Transport (ODAST), considers advection, dispersion, decay, and adsorption in a porous media and utilizes an analytical solution, presented by Van Genuchten and Alves (1982), for the one-dimensional groundwater transport of constituents from the source and is described in *Groundwater Transport: Handbook of Mathematical Models* (American Geophysical Union, 1984). This model is an analytical solution to the partial differential equation describing solute transport in saturated porous media using simplifying assumptions and appropriate boundary conditions. The model assumes an infinitely long homogeneous, isotropic porous medium in a steady uniform flow. ODAST includes two function type subroutines, one calculates the product of the exponential, exp(A) and the other the complementary error function, erfc(B). The modeling focused on both TCE and 1,2-DCE, which is predominately the cis isomer. The ODAST model provided a reasonable, first-cut, analysis of contaminant transport at the site during the RI. The discussion below is a summary of this

modeling effort. The details of the ODAST modeling are provided in the Ash Landfill RI report (Parsons ES, 1994a).

The ODAST model calculates the contaminant mass ratio (C/C_o) for any given point (x) downstream from the source of contamination at any given time (t) as a function of average pore water velocity (v), the dispersion coefficient (D), the retardation factor (R), the decay factor of the solute (λ), and the decay factor of the source (α). For the analysis performed in support of the RI, the TCE source was assumed to be sufficiently large that annual dissolution rates remain constant; therefore, α , the rate of source decay, was assumed to be zero. The ODAST one-dimensional analytical solution used to model this system is:

$$\frac{C}{C_o}(x,t) = \frac{v}{v + U} \exp\left[\frac{x(v - U)}{2D}\right] erfc\left[\frac{Rx - Ut}{2(DRt)^{1/2}}\right]$$

$$+ \frac{v}{v - U} \exp\left[\frac{x(v + U)}{2D}\right] erfc\left[\frac{Rx + Ut}{2(DRt)^{1/2}}\right]$$

$$+ \frac{v^2}{2DR(\lambda - \alpha)} \exp\left[\frac{vx}{D} - (\lambda - \alpha)t\right] erfc\left[\frac{Rx + vt}{2(DRt)^{1/2}}\right]$$

where:

$$U = [v^2 + 4DR(\lambda - \alpha)]^{1/2}$$

and the model input parameters were defined as follows:

C = concentration at a distance, x, and a time, t (ug/L);
C_o = concentration at source (ug/L);
v = pore water velocity (m/day);
D = coefficient of dispersion (m^2/day);
R = Retardation factor (unitless);
λ = decay factor of the solute (day^{-1});
α = decay factor of the source (day^{-1});

x = distance from the source (m); and
t = time elapsed since the beginning of the operation (year).

The pore water velocity in the vicinity of the Ash Landfill was estimated to be 18.1 ft/yr or 0.05 ft/day (0.015 m/day). The velocity calculation incorporated an effective porosity of 0.15, an average hydraulic gradient of 0.021, and a hydraulic conductivity of 0.35 ft/day. A longitudinal dispersivity value of 30 feet was used (Meiri et al., 1990) because the geologic conditions of the site described in this article are similar to the conditions at the Ash Landfill. This value is consistent with values used in other transport simulations (Anderson, 1979). The product of the dispersivity (30 ft) and the groundwater velocity (18.1 ft/yr) is the coefficient of dispersion, 543 ft^2/year (0.138 m^2/day), which was used to this simulation. A retardation factor of 1.5 was used for TCE. This value is consistent with the value used by Meiri et al. (1990) and other literature values for the soil type at SEDA. For 1,2-DCE a lower retardation factor of 1.21 was used (Looney et al., 1987). Simulations of up to 200 years were performed to predict the contaminant concentration ratios.

Data from the RI suggested that two adjacent source areas existed. These source areas were centered around monitoring wells PT-18 and MW-44.

The TCE concentration at PT-18 was assumed to be the source concentration (C_o) for TCE. PT-18 was chosen as the source because PT-18 was the highest concentration for one of the source areas and was located within the area identified as the source area by soil gas and conformational soil sampling during the RI. PT-18 was along the centerline of the groundwater plume. Historical monitoring data has also shown that the concentration of TCE in PT-18 has remained relatively constant suggesting a constant leaching term. This data was collected prior to the implementation of he source removal effort that occurred between November, 1994 and June, 1995. The four wells downgradient of the source that were part of the modeling array and used for calibration were PT-12, PT-22, MW-29, and MW-56; these wells also occur along the same general groundwater flow path, i.e. PT-12 is 200 ft. (61 m) directly downgradient from PT-18; PT-22 is 390 ft. (119 m) from PT-18; MW-29 is 850 ft. (259 m) from PT-18; and MW-56 is 1,165 ft. (355 m) from PT-18. The same flow path was used to calibrate the model for 1,2-DCE, however, for 1,2-DCE the concentration at PT-12 , approximately 200 ft. from the TCE source area, was assumed to be the 1,2-DCE source concentration term, (C_o). PT-12 was chosen to represent the source term for 1,2-DCE because this well contained the highest concentration of 1,2-DCE of the wells chosen to calibrate the model.

The TCE model was calibrated by adjusting one variable, the decay factor of the solute (λ), until the output, the TCE concentration ratio (C/C_o) matched the actual field well data. The decay factor that produced the expected concentration was estimated at 0.00062 day^{-1}. The final decay factors used to calibrate the model for TCE were compared to literature data to determine if the decay factors used in this model were similar to those found at other sites. Nelson et al. (1990) provided a first-order decay rate for TCE of 0.0006 day^{-1}. This rate was based upon the concentrations measured prior to implementation of an in-situ groundwater treatment process. This data was obtained and used by Nelson to compare the treatment effectiveness. This rate compares favorably to the calibrated decay rate estimated using the ODAST model.

Following calibration, the ODAST model output was run for various times and distances and compared to actual results for other wells along the flow path.

A similar procedure was used to calibrate the model for 1,2-DCE. The decay factor for 1,2-DCE was determined to be 0.00069.

To evaluate a second plausible scenario, simulations were performed using the average concentrations of TCE and 1,2-DCE in MW-44 as C_o. With C_o as the source concentration and the known plume geometry, the centerline of the plume does not conform to a straight line, providing additional uncertainty when comparing site data to model output. However, because this source area (MW-44) contains the highest concentrations of TCE and 1,2-DCE on the site, modeling of this scenario was warranted.

This modeling was performed using the concentrations of TCE and 1,2-DCE at MW-44 as the source concentration terms (C_o), while maintaining the same parameters and assumptions used for the initial modeling scenario including degradation rates. However, new distances from the source area (MW-44) for the same downgradient wells in the modeling array were obtained.

Results of the model runs for TCE and 1,2-DCE in MW-44 indicate that concentrations in the downgradient wells are similar to the actual concentrations determined during the RI. For 1,2-DCE, the results are also similar to actual concentrations, however, 1,2-DCE concentrations predicted by the model are higher in wells closer to the source area (MW-44) and are lower in the further downgradient wells; the shift occurs between wells PT-22 and MW-29.

Thus, the results of modeling two contaminant transport scenarios suggested that natural degradation may be a significant factor that would limit the transport of the TCE/1,2-DCE plume.

In addition, the model output suggested that the plume may have reached a steady-state condition where the dimensions of the plume would remain constant.

The ODAST one-dimensional analytical model was able to provide insight into the suspected behavior of the plume, however, it is a relatively simplistic model with limitations. It was determined that the more sophisticated numerical flow and transport models, MODFLOW and MT3D, would be used for this study to more accurately represent the flow and transport systems at the Ash Landfill and the surrounding area.

1.3 HISTORICAL VOC CONCENTRATIONS IN GROUNDWATER

Historical VOC concentrations in groundwater were evaluated and summarized to identify any trends in the data. Historical trends for only TCE was plotted because the data for 1,2-DCE was not complete. Early in the monitoring program only the trans-isomer of DCE was monitored. Without the cis-isomer the total volatile organic concentration at selected points cannot be ascertained. Vinyl chloride was not plotted because it was detected in only a few instances and in a limited number of wells.

Historical groundwater data are available from a number of monitoring wells at the Ash Landfill (PT-12, PT-17, PT-18, PT-20, PT-22, PT-23, PT-24, MW-28, and MW-29) and are shown on Table 1-1. Most of this data was collected as part of a quarterly monitoring program at the Ash Landfill that was implemented in 1989. Table 1-1 presents the historical information for the compounds TCE, cis- and trans-1,2-DCE and vinyl chloride.

Historical trends for TCE are presented as bar diagrams for the available years (Figure 1-2). For most of the wells, TCE concentrations appear to remain stable over time. The monitoring wells near the "toe" of the plume, PT-24, and PT-28, appear to have had the least fluctuation in concentrations. For example, the concentration of TCE in monitoring well MW-28 ranged between 21 ug/L and 39 ug/L over a five year monitoring period between January, 1990 and June, 1995. The concentrations in PT-24 ranged between 2 ug/L and 9 ug/L over this same time period.

Some fluctuation in concentration is noticeable in monitoring wells near the source area, i.e. MW-12 and PT-18. For example, the concentration of TCE in monitoring well PT-18 ranged from 2,500 ug/L to 23,000 ug/L over a five year monitoring period between January, 1990 and June, 1995. The concentrations of TCE observed in PT-12 ranged from 3,100 ug/L to 58 ug/L over this same time period.

Table 1 1

Historical VOC Concentrations in Groundwater

Ash Landfill Groundwater Model
Seneca Army Depot Activity

				Mar '87	AMJ '87	Aug '87	Oct '87	JFM '88	AMJ '88	Sept '88	Nov '88	Mar '89	AMJ '89	Sept' 89	Jan '90	Mar '90	Jun 90	Sep '90	Dec '90	Mar '91	Jun '91	Sep '91	Dec '91
	Quarter:			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	PT-12	Trichloroethene	µg/L	540	*	1700	94	*	*	*	1530	68	*	950	129	100	790	3100	870	130	2100	1350	170
		cis-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		570	*	ND	95	*	*	*	2730	*	*	ND	1U	5U	5U	10U	10U	1	51	63	3
		Total 1,2-DCE		*	*	*	*	*	*	*	*	43	*	1000	*	*	*	*	*	*	*	*	*
		Vinyl Chloride		11	*	ND	ND	*	*	*	ND	*	*	17	7	2U	2U	140	10U	1U	35	160	2
2	PT-17	Trichloroethene	µg/L	160	*	*	192	*	*	*	226	*	*	*	170	90	400	340	92	220	460	529	75 1
		cis-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		100	*	*	172	*	*	*	56 8	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Total 1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Vinyl Chloride		ND	*	*	79	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	PT-18	Trichloroethene	µg/L	*	*	*	*	*	*	*	*	*	*	*	2500	7600	5900	17000	22000	15000	12000	10000	3710
		cis-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Total 1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Vinyl Chloride		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	PT-20	Trichloroethene	µg/L	*	*	*	*	*	*	*	*	*	*	*	23	26	46	52	35	35	36	30	34
		cis-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Total 1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Vinyl Chloride		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	PT-22	Trichloroethene	µg/L	*	*	*	*	*	*	*	*	*	*	*	87	100	200	87	93	110	100	74 9	69 3
		cis-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	4	ND	ND	ND	4	4	3	ND	1
		Total 1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Vinyl Chloride		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
6	PT-23	Trichloroethene	µg/L	*	*	*	*	*	*	*	*	*	*	*	<1 0	<5 0	<5 0	<1 0	<10	<1 0	<10	<1 0	<1 0
		cis-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Total 1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Vinyl Chloride		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	PT-24	Trichloroethene	µg/L	*	*	*	*	*	*	*	*	*	*	*	4 0	6 0	9 0	2 0	6 0	*	8 0	8 6	2 8
		cis-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	*	ND	ND	ND
		Total 1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Vinyl Chloride		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	*	ND	ND	ND
8	MW-28	Trichloroethene	µg/L	*	*	*	*	*	*	*	*	*	*	*	27 0	37 0	39 0	28 0	36 0	30 0	39 0	21 2	30 2
		cis-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Total 1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Vinyl Chloride		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	MW-29	Trichloroethene	µg/L	*	*	*	*	*	*	*	*	*	*	*	<1 0	<5 0	<5 0	*	<10	<1 0	1 0	*	1 2
		cis-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	*	ND	ND	ND	*	ND
		Total 1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Vinyl Chloride		*	*	*	*	*	*	*	*	*	*	*	ND	ND	ND	*	ND	ND	ND	*	ND

Note 1) * indicates that no data is available

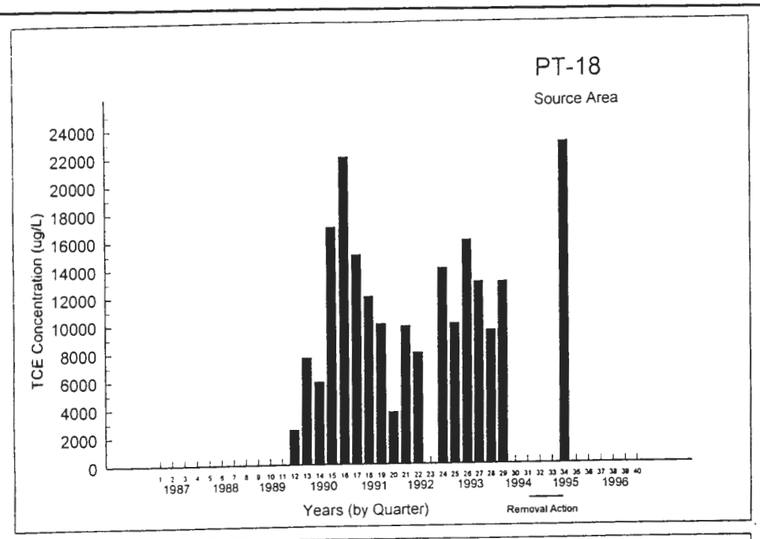
Table 1-1

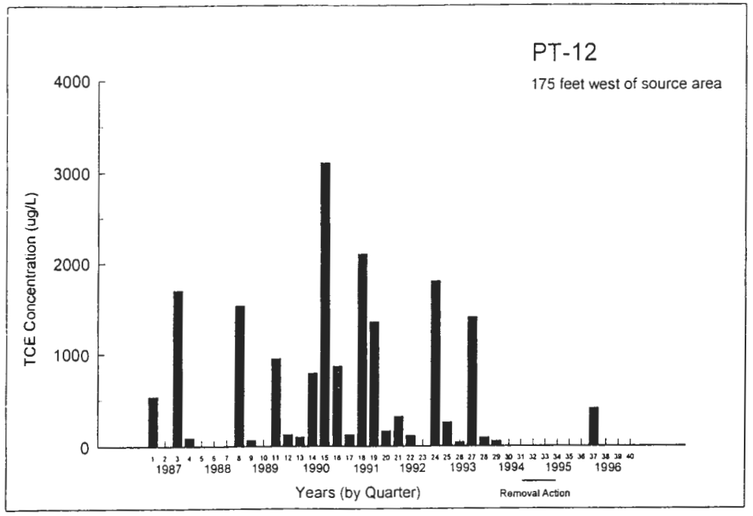
Historical VOC Concentrations in Groundwater

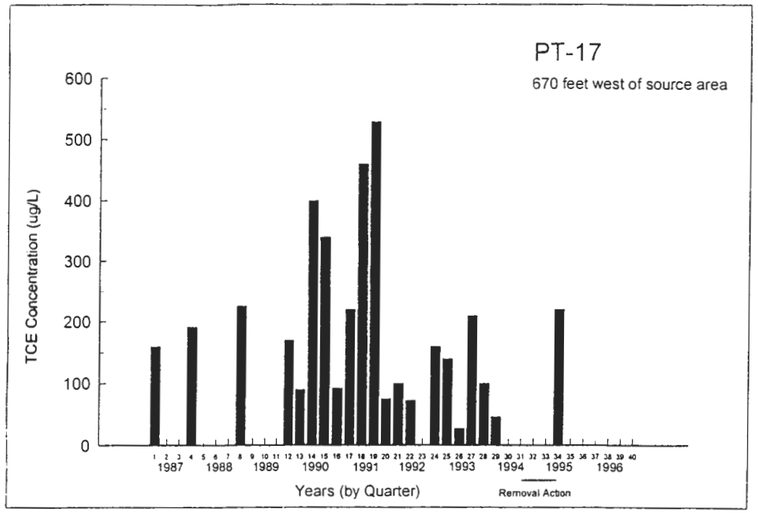
Ash Landfill Groundwater Model
Seneca Army Depot Activity

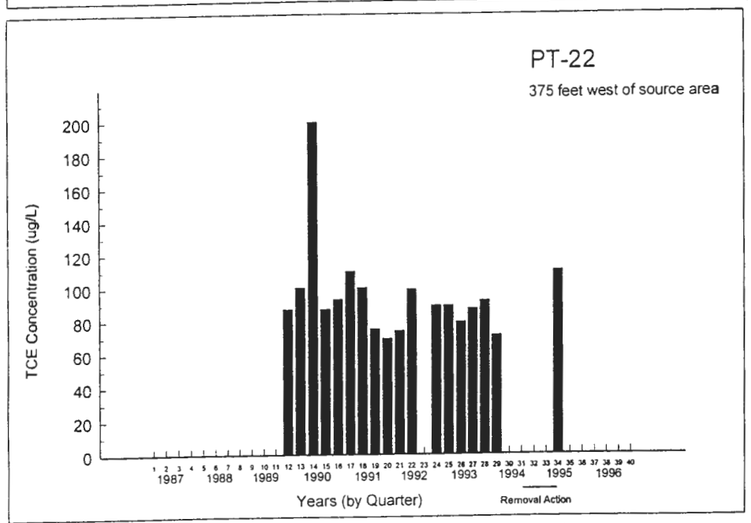
				Mar '92	Jun '92	JAS '92	Dec '92	Jan '93	April '93	Jul '95	Nov '93	Jan '94	AMJ '94	JAS '94	OND '94	JFM '95	Jun '95	JAS '95	OND '95	Jan '96			
		Quarter:		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	PT-12	Trichloroethene	µg/L	323	119	*	1800	260	45	1400	95	58	*	*	*	*	*	*	*	410	*	*	*
		cis-1,2-DCE		*	*	*	2800	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		6	2 5U	*	54	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Total 1,2-DCE		*	*	*	*	320	36	2000	81	44	*	*	*	*	*	*	*	530	*	*	*
		Vinyl Chloride		14	2 5U	*	5U	9	ND	100	ND	ND	*	*	*	*	*	*	*	22	*	*	*
2	PT-17	Trichloroethene	µg/L	100	72 4	*	160	140	27	210	100	46	*	*	*	*	220	*	*	*	*	*	*
		cis-1,2-DCE		*	*	*	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		ND	ND	*	ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Total 1,2-DCE		*	*	*	*	27	3	44			*	*	*	*	64	*	*	*	*	*	*
		Vinyl Chloride		ND	ND	*	ND	ND	ND	ND	ND	ND	*	*	*	*	ND	*	*	*	*	*	*
3	PT-18	Trichloroethene	µg/L	9840	7920	*	14000	10000	16000	13000	9500	13000	*	*	*	*	23000	*	*	*	*	*	*
		cis-1,2-DCE		*	*	*	700	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		ND	ND	*	ND	440	450	590			*	*	*	*	*	*	*	*	*	*	*
		Total 1,2-DCE		*	*	*	*	*	*	*	*	*	*	*	*	*	550	*	*	*	*	*	*
		Vinyl Chloride		ND	ND	*	10	ND	ND	ND			*	*	*	*	ND	*	*	*	*	*	*
4	PT-20	Trichloroethene	µg/L	21	18	*	24	23	6	32	31	14	*	*	*	*	34	*	*	*	*	*	*
		cis-1,2-DCE		*	*	*	26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		ND	ND	*	ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Total 1,2-DCE		*	*	*	*	26	7	49			*	*	*	*	41	*	*	*	*	*	*
		Vinyl Chloride		ND	ND	*	ND	ND	ND	ND			*	*	*	*	ND	*	*	*	*	*	*
5	PT-22	Trichloroethene	µg/L	73 9	98 9	*	89	89	79	87	92	71	*	*	*	*	110	*	*	*	*	*	*
		cis-1,2-DCE		*	*	*	150	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		2	2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Total 1,2-DCE		*	*	*	*	140	140	140	140	89	*	*	*	*	170	*	*	*	*	*	*
		Vinyl Chloride		ND	ND	*	ND	ND	ND	ND	ND	ND	*	*	*	*	ND	*	*	*	*	*	*
6	PT-23	Trichloroethene	µg/L	<1 0	<1 0	*	5U	1 0	10U	10U	10U	10U	*	*	*	*	0 5U	*	*	*	*	*	*
		cis-1,2-DCE		*	*	*	ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		ND	ND	*	ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Total 1,2-DCE		*	*	*	*	1 0	ND	ND	ND	ND	*	*	*	*	ND	*	*	*	*	*	*
		Vinyl Chloride		ND	ND	*	ND	ND	ND	ND	ND	ND	*	*	*	*	ND	*	*	*	*	*	*
7	PT-24	Trichloroethene	µg/L	4 4	6 2	*	6 7	7 0	5 0	6 0	4	50U	*	*	*	*	5	*	*	*	*	*	*
		cis-1,2-DCE		*	*	*	110 0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		ND	ND	*	ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Total 1,2-DCE		*	*	*	*	100 0	81 0	99 0	72	59	*	*	*	*	72	*	*	*	*	*	*
		Vinyl Chloride		ND	ND	*	ND	ND	ND	ND	ND	ND	*	*	*	*	ND	*	*	*	*	*	*
8	MW-28	Trichloroethene	µg/L	28 4	25 8	*	30	30	22	31	28	31	*	*	*	*	27	*	*	*	*	*	*
		cis-1,2-DCE		*	*	*	51	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		ND	ND	*	ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Total 1,2-DCE		*	*	*	*	47	41	*			*	*	*	*	31	*	*	*	*	*	*
		Vinyl Chloride		ND	ND	*	ND	ND	ND	ND			*	*	*	*	ND	*	*	*	*	*	*
9	MW-29	Trichloroethene	µg/L	<1 0	<1 0	*	5U	2	10U	10U	10U	10U	*	*	*	*	2	*	*	*	*	*	*
		cis-1,2-DCE		*	*	*	67 00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		trans-1,2-DCE		ND	ND	*	ND	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		Total 1,2-DCE		*	*	*	*	70 00	76 00	97 00	63 00	80	*	*	*	*	94 00	*	*	*	*	*	*
		Vinyl Chloride		ND	ND	*	ND	ND	ND	ND	ND	ND	*	*	*	*	ND	*	*	*	*	*	*

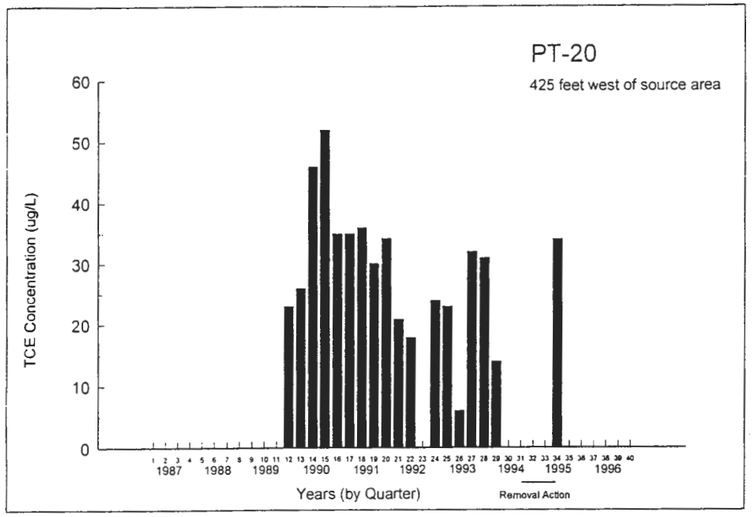
Note 1) * indicates that no data is available

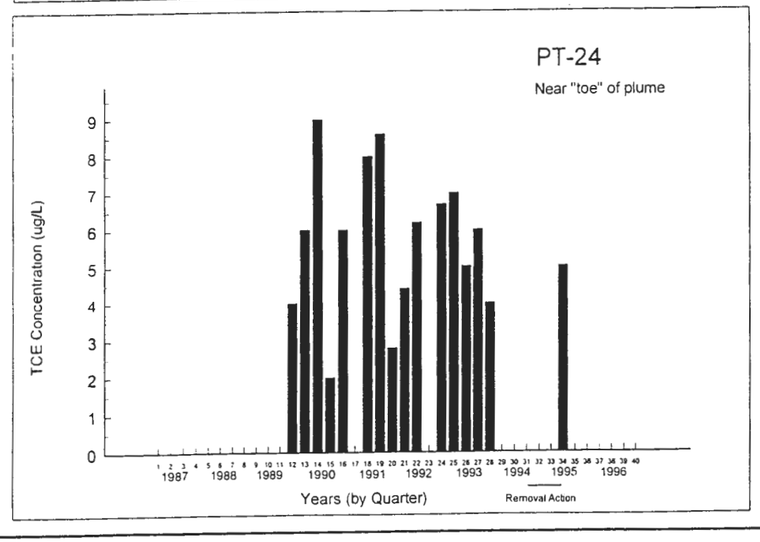


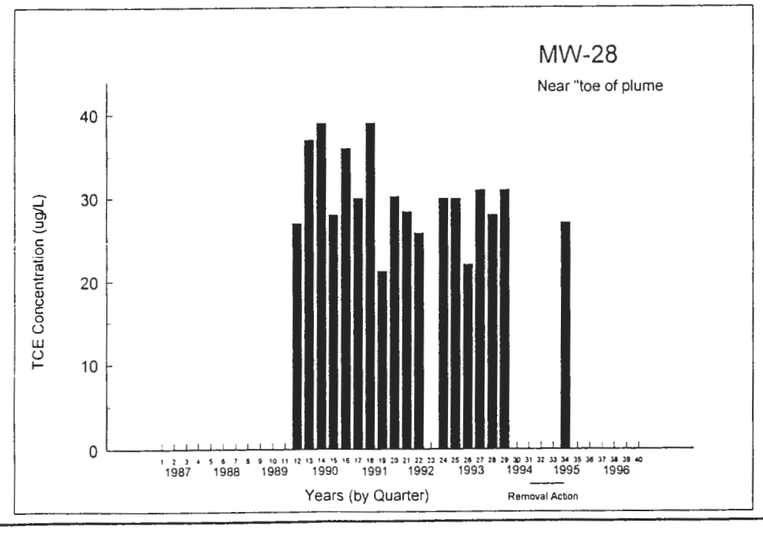












Note: Concentration scales vary for each individual monitoring well presented.

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ASH LANDFILL GROUNDWATER MODEL

DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	726209-01002

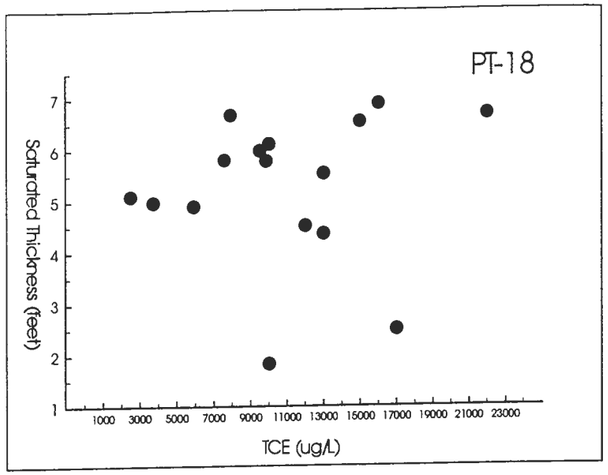
FIGURE 1-2
HISTORICAL TCE
CONCENTRATIONS IN GROUNDWATER

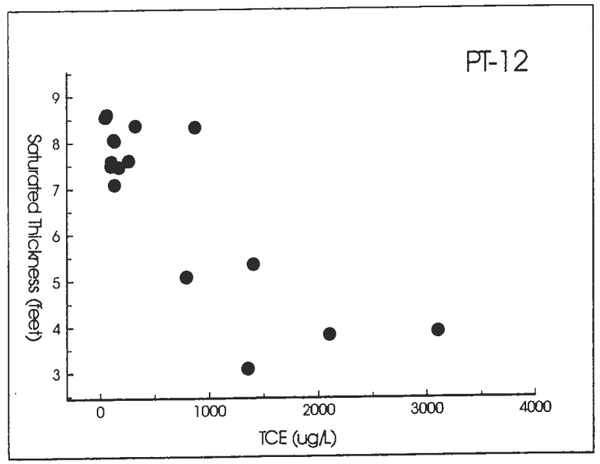
SCALE	DATE	REV
1" = 250'	APRIL 1996	A

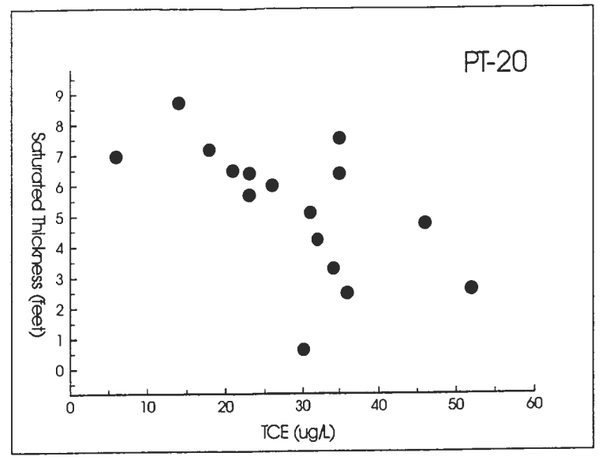
ACAD\SENECA\ASHMODEL\ASHTB.DWG

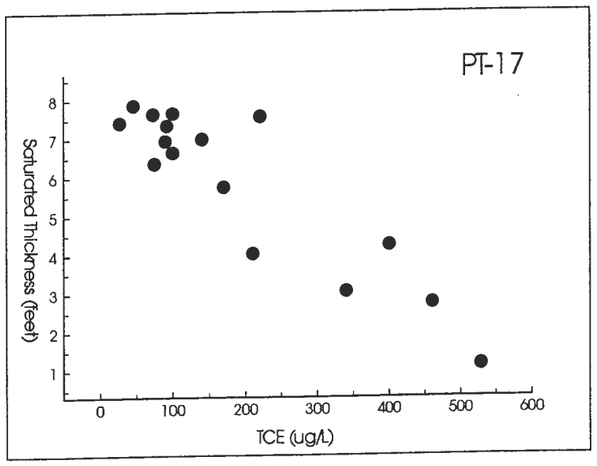
Variability in concentration near the former source area could be a function of mixing with percolating rainfall. Some degree of variability in concentration appears to be related to water table elevation. While the trend in not always consistent, in general, water levels in PT-18 and PT-12 decrease in the late summer and fall and are generally the highest in the spring. Figure 3-8, located in Section 3, provides a graphical depiction of the seasonal fluctuations of the water table in these wells. During the wet period of the year, interactions with clean infiltrating rainwater and TCE source soil would tend to be the greatest. Figure 1-3 provides a graphical relationship between the saturated thickness and the concentration at selected wells. Following this interaction a portion of the TCE sorbed to the source soil would be removed due to dissolution. This newly dissolved material would then migrate downgradient at the retarded groundwater velocity, estimated to be approximately 40 ft/yr. At this rate, the travel time to reach PT-12, approximately 175 feet west of the source area would be approximately 4.4 years. During this time period, new, clean, infiltrating rainfall would percolate through the soil causing a layer of clean water, i.e. newly infiltrated precipitation to form over the impacted groundwater. When sampled, this water is mixed, within the well, causing a reduction in concentration. This effect would not be as significant if the well is sampled during the period of the year when the water levels are low and this layer of clean infiltrated water is smaller.

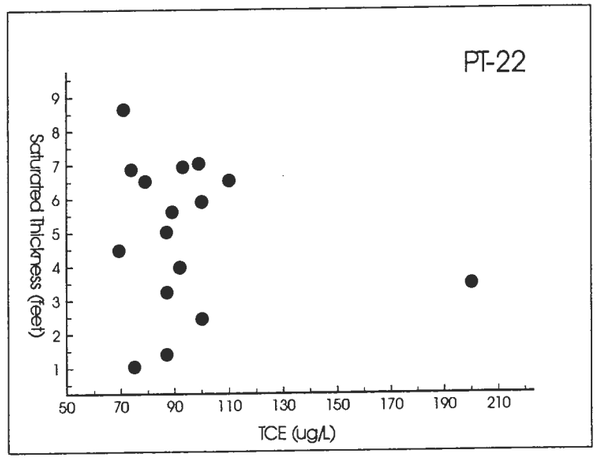
While this effect could account for some observed variations in several wells throughout the historical monitoring period, it cannot account for the notable changes in the concentration and the ratio of TCE to DCE between wells. This change in the ratio of TCE to DCE is highlighted by comparing the concentration ratio of TCE to DCE in PT-18, a well near the former source area, and PT-24, a well near the toe of the plume. At PT-18, the ratio of TCE to DCE ranged from approximately 42 to 1 to 20 to 1, depending on the measured concentration used to establish the ratio. This ratio changes at PT-24, where the ratio of TCE to DCE is 0.07 to 1 and 0.05 to 1. The actual concentration of TCE in PT-18 ranged from 2,500 ug/L to 23,000 ug/L, whereas the concentration of TCE in PT-24 ranged from 2.0 ug/L to 9.0 ug/L, a decrease of approximately 3 to 4 orders of magnitude. Further, the actual concentration of DCE at PT-18 ranged from approximately 44 ug/L to 550 ug/L, whereas the concentration of DCE at PT-24 ranged from 59 ug/L to 100 ug/L, a decrease of approximately one order of magnitude. The change in the rations of TCE to DCE from the source area to the toe of the plume is strong evidence that degradation of the initial material is occurring in the aquifer as the plume migrates along the travel path. The mechanisms of this degradation is considered to occur mainly from biological activity, although abiotic reactions such as hydrolysis, cannot be completely ruled out. However, it is generally recognized that hydrolysis is a slower process compared to biological degradation. By far, the predominant mechanism that has been shown to produce the degradation products measured at the

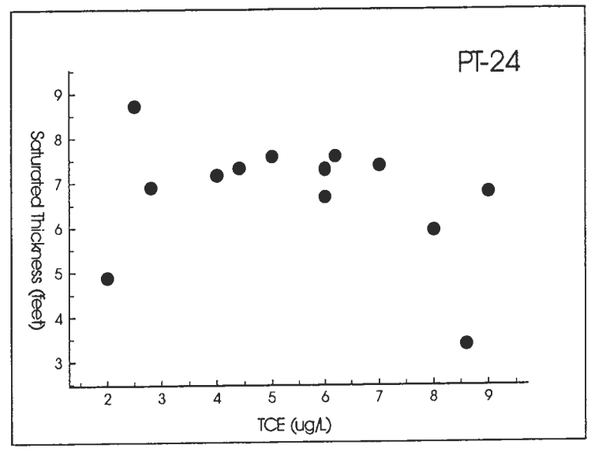


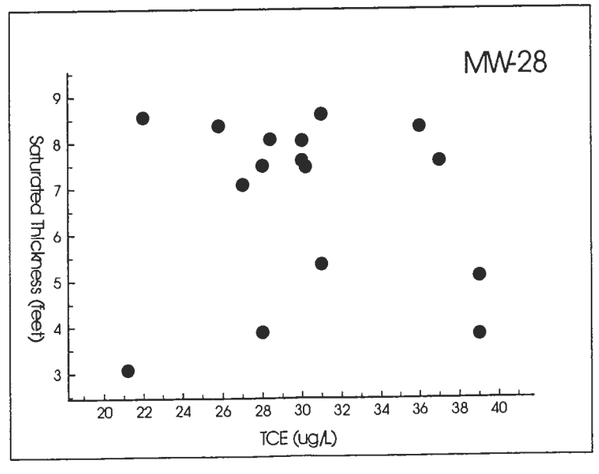












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ASH LANDFILL GROUNDWATER MODEL

OEPL	DWG NO.
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FIGURE 1-3
Relationship Between Saturated Thickness and TCE Concentration in the Till/ Weathered Shale Aquifer

SCALE	DATE
NA	JUNE 1996

GRAPHICS\SENECA\ASHMODEL\TCEVSAT.CDR

site is anaerobic reductive dechlorination. This biochemical process involves the sequential removal of a chloride atom from TCE and a subsequent transfer of electrons. The transfer of electrons is utilized by endogenous soil microbes use a source of energy to sustain continued growth. When conditions are favorable, the halogenated organic compounds act as electron acceptors, becoming reduced in the process. Natural ogranic carbon is utilized by the microbes to complete the electron transfer and this material is use to donate electrons, becoming oxidized in the process. This process is analogous to the normal biological functions we perform by breathing air, electron acceptors, and ingesting food, electron donors. The soil microbes perform similar functions but utilize alternative electron acceptors and electron donors.

Sampling performed as part of the FS, identified the presence of an abundant supply of dissolved organic carbon in the aquifer, ranging in concentration from 1,000 to 2,000 ug/L in every well sampled. This material is a sufficient source of electron donor material for the soil microbes to utilize, whereas the chlorinated organic material and other compounds such as the abundant supply of sulfate measured in many monitoring wells will act a viable source of electron acceptors to complete the electron transfer. When combined with the existing historical data, that documents the occurrence of breakdown products, the presence of these electron donors and acceptors provides ample evidence to suggest that natural biological degradation processes are occurring. The remaining effort is focused upon determining whether the rate of degradation is sufficient to limit the continued migration of the plume.

In summary, on the basis of the historical data, no wells show a consistent increase in VOC concentration over time, which would be indicative of continued movement and expansion of the VOC plume. Rather, most of the data from the wells indicate that the concentrations are remaining the same over the 6 to 9 years of monitoring that has been performed.

1.4 TECHNICAL APPROACH TO GROUNDWATER FLOW AND TRANSPORT MODELING

The technical approach used to accomplish the goals of the study included the use of MODFLOW, a three-dimensional groundwater flow model and MT3D a three-dimensional transport model.

The modeling objectives are as follows:

- To use existing geologic and hydrogeologic data gathered for the RI at the Ash Landfill to develop a conceptual model for the groundwater flow system.
- To design a groundwater flow model that simulates steady-state flow at the Ash Landfill
- To perform contaminant transport modeling under three scenarios:

  Scenario 1: Simulate the migration of the plume from time t = 0, the time of the initial release, to the present day.
  Scenario 2: Simulate the future migration of the existing VOC plume.
  Scenario 3: Simulate the beneficial effect that the source removal effort has had on the future migration of the VOC plume.

Geologic and hydrogeologic data for the site was assembled from previous studies performed at the site. These data were used to define hydrostratigraphic units and to define the flow system for the site. The conceptual model was developed from the geologic setting, hydrogeologic parameters, and the three-dimensional flow system. A water balance was prepared to determine the infiltration and evapotranspiration rates for the site. The competent shale was represented as equivalent porous medium (EPM) for the model because the degree of secondary porosity (i.e., cracks, microcracks and fracturing) in the shale is believed to form a continuous network of flow. A preliminary water budget was prepared to help define the vertical extent of the flow system to be modeled in the competent shale.

A profile groundwater flow model was initially prepared to provide a cursory check to ensure that the conceptual model and initial parameters values were reasonably accurate. Once the profile model was calibrated to the observed heads along the section, a three dimensional areal model was prepared and calibrated. Once calibrated to the current site conditions, sensitivity analyses of the flow model was performed.

Following calibration of the flow model, the next step was to combine the flow model with the transport model. The transport model is used to model the migration of the dissolved organic chemicals of concern. Transport parameter values were assembled from literature and derived from chemical data collected at the site. The transport model was performed using transport parameter values and flow data from the calibrated three-dimensional flow model. The transport model was calibrated and a sensitivity analyses was performed based on the estimated time of the release of

volatile organics to the groundwater (Scenario 1). Once calibrated, so that the model output depicted the measured plume, the transport model was used to evaluate the conditions that would have occurred if the removal of the TCE source area had not been performed (Scenario 2) The model was then used to evaluate the beneficial effect that the removal of the source area (Scenario 3) has on the future migration of the plume.

The groundwater flow and transport models and pre-and post-processing software used for this modeling study are as follows. MODFLOW/EM (Version 3.1), the United States Geological Survey (USGS) three-dimensional finite-difference groundwater flow model, was used to simulate steady-state groundwater flow conditions at the Ash Landfill site and surrounding area. The pre-processor MFI/EM was used in conjunction with a spreadsheet program to develop the data files necessary to run MODFLOW. Post-processing of MODFLOW results was performed using MODPATH/MODPATH-PLOT (Version 3) and HEDSRFEM. MODPATH/MODPATH-PLOT were used for the pathline analysis in the flow model. HEDSRFEM was used to convert unformatted head files to xyz data files for use in Geosoft, a mapping and processing program.

The transport model, Modular Three-Dimensional Transport Model (MT3D) (Version 1.85), a three dimensional transport model for simulation of the affects of advection, dispersion, and chemical reactions of contaminants in groundwater systems, was used to simulate the movement of the VOC plume. Post processing program, POSTMT3D, was used to generate plot data files from the unformatted concentration files and the model grid configuration files both of which are saved by MT3D. Geosoft was also used to process the plot data files generated by POSTMT3D.

2.0 DESCRIPTION OF THE ASH LANDFILL AND SURROUNDING AREAS

2.1 ASH LANDFILL

The Ash Landfill site is located in the southwestern section of SEDA. It encompasses approximately 130-acres and is composed mostly of undeveloped land with a few man-made features or structures related to past site activities. The site is bounded on the north by Cemetery Road, on the east by the Seneca Army Depot Railroad line, on the south by open grassland and brush, and on the west by the boundary of the depot (Figure 1-1). Undeveloped areas are present mostly in the northern and extreme southwestern portions of the site. The area to the north of the ash landfill and debris piles consists mostly of low grasses with areas of dense brush and a few trees. South of West Smith Farm Road dense brush with some small open grassy areas dominate (Figure 1-1).

From 1941 to 1974, uncontaminated trash was burned in a series of pits near the incinerator building. Between 1974 and 1979 rubbish and garbage were burned in the incinerator. Ashes from the incinerator were temporarily stored in an unlined cooling pond that is located immediately north of the incinerator building (Figure 1-1). When the pond filled, the ashes were buried in the adjacent Ash Landfill. Large items that could not be burned were disposed of in the Non-Combustible Fill Landfill.

Major features on the site are the abandoned incinerator building, a cooling pond, the Ash Landfill, and the Non-Combustible Fill Landfill (Figure 1-1). The abandoned and somewhat dilapidated incinerator building is situated on a small artificially constructed mound and is accessed via a paved driveway off of West Smith Farm Road. An approximately 70-foot diameter abandoned cooling pond is located 10 feet from the northeastern corner of the incinerator building. The Ash Landfill is located slightly north of this point. The approximately 500 x 300 foot kidney-shaped Ash Landfill is defined by a 3 to 4 foot rise in topography (Figure 1-1). It is mostly vegetated with low grass, however, there are areas void of any vegetative cover near the bend in the road. The Non-Combustible Fill Landfill is located across West Smith Farm Road from the incinerator. This roughly rectangular, wedge-shaped fill area thickens to the west where it reaches a maximum total relief of approximately 14 feet.

2.2 SURROUNDING AREAS

This modeling study incorporated significant areas of land beyond the borders of the Ash Landfill. Immediately west of the Ash Landfill is farmland as well as undeveloped land that extends to Route 96A (Figure 2-1). Beyond Route 96A lies Sampson State Park and Seneca Lake. The SEDA airstrip is approximately 3,000 feet southwest of the Ash Landfill. Kendaia Creek is located approximately 3,800 feet north of the Ash Landfill and flows west toward Seneca Lake. East of the Ash Landfill are rows of Quonset huts, used for storage, that are in otherwise undeveloped land. Beyond this area is developed land near Route 96 at the border of the depot. Beyond this, east of Route 96, lies farmland. In addition to the Ash Landfill, six other sites at SEDA provided important hydrogeological information that was utilized to supplement the information collected at the Ash Landfill for the modeling study (Figure 2-1). These are: SEAD-64D, which is immediately adjacent to the Ash Landfill, SEAD-16, -17, -25, -26, -50, and 64A, all located near Route 96 (Figure 2-1).

REEDER CREEK

ROUTE 96A

SAMPSON STATE PARK

FARMHOUSE

ASHLANDFILL

SENECA ARMY DEPOT

SEAD-16

SEAD-25

SEAD-17

ROUTE 96

SEAD64A

SEAD-64D

SEAD-50

SENECA LAKE

AIRFIELD

C:\ACAD\SENECA\ASHMODEL\ASHSITE.DWG

LEGEND

- MONITORING WELL
- STREAM / CREEK
- INTERMITTENT STREAM
- RAILROAD TRACKS
- 760 — GROUND SURFACE ELEVATION CONTOUR
- VOC PLUME

N

800 0 800 1600

1" = 1600'

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SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING

Dwg. No.

FIGURE 2-1
ASH LANDFILL AND
SURROUNDING AREA

SCALE 1" = 1600'

DATE JANUARY 1996

REV A

3.0 HYDROGEOLOGIC SETTING

The hydrogeologic setting described in this section is based on information contained in the Ash Landfill RI (Parsons ES, 1994a) and in the Expanded Site Inspection (ESI) reports including: the Seven Low Priority Areas of Concern (AOC)s, the Eight Moderately Low Priority AOCs and the Seven High Priority AOCs (Parsons ES, 1995a, 1995b, 1995c). The description below summarizes only the pertinent information, used to support this modeling study, that was obtained from these reports.

3.1 TOPOGRAPHY

The SEDA facility lies on the western side of a series of north- to south-trending rock terraces that separate Cayuga Lake on the east from Seneca Lake on the west. The rock terraces range in elevation from 490 feet above mean sea level (MSL) in northern Seneca County to as much as 1,600 feet above MSL at the southern end of the lakes. Elevations within the SEDA facility range from approximately 450 feet above MSL on the western boundary to approximately 760 feet above MSL in the southeast corner. The Depot's land surface generally slopes to the west and north.

The Ash Landfill site is located on gently sloping terrain along the western boundary of SEDA, immediately west of the munitions storage area. The majority of the site slopes to the west-southwest and is vegetated with grasses and occasional brush thickets. Elevations range from approximately 680 feet above MSL near the intersection of the, on-depot, railroad tracks and West Smith Farm Road to 630 to 635 feet along the fenced boundary line (Figure 1-1).

3.2 CLIMATE

The nearest source of climatological data is the Aurora Research Farm in Aurora, New York which is approximately ten miles east of SEDA on the eastern side of Cayuga Lake. This research farm is administered by the Northeast Regional Climate Center located at Cornell University in Ithaca, New York. Only precipitation and temperature measurements are available at this location.

A cool climate exists at SEDA with average temperatures ranging from 23°F in January to 69°F in July. Marked temperature differences are found between daytime highs and nighttime lows during the summer and portions of spring and autumn. Precipitation is unusually well-distributed, averaging approximately 3 inches per month. Daily precipitation data measured at the Aurora

Research Farm in Aurora, New York for the period (1958-1991) were obtained from the Northeast Regional Climate Center (Figure 3-1). The average monthly precipitation during this 35-year period of record is summarized in Figure 3-1. The maximum 24-hour precipitation measured at this station during this period was 3.9 inches on September 26, 1975.

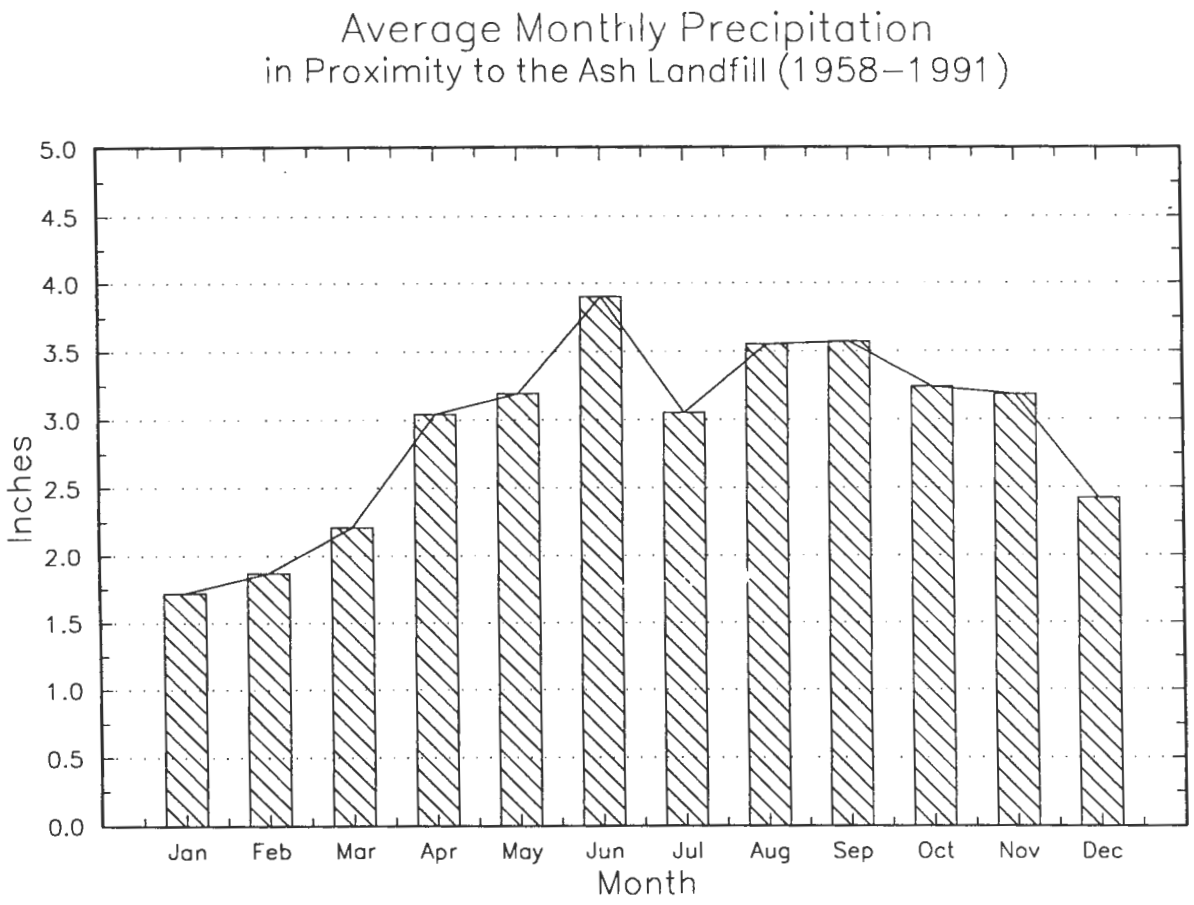
The precipitation in this area is derived principally from cyclonic storms that pass from the interior of the country through the St. Lawrence Valley. Lakes Seneca, Cayuga, and Ontario provide a significant amount of the winter precipitation and moderate the local climate. The annual average snowfall is approximately 100 inches. Wind velocities are moderate, but during the winter months, there are numerous days with sufficient winds to cause blowing and drifting snow. The most frequently occurring wind directions are westerly and west-southwesterly.

Values of 35 inches mean annual pan evaporation and 28 inches for annual lake evaporation are cited for this region in the Climate Atlas of United States (U.S. Dept. of Commerce, 1983). An independent value of 27 inches for mean annual evaporation from open water surfaces was estimated from an isoplethed figure in "Water Atlas of the United States" (Water Information Center, 1973).

3.3 SURFACE WATER

Regionally, surface water flow at SEDA is controlled by the network of small drainage ditches that parallel the access roads on the Depot. These ditches are believed to receive overland flow during heavy rain events and meltwater during the late winter and spring months. However, they are dry for most of the year, based on observations made during the investigations at SEDA. West of SEDA there are no such controls on surface water flow.

Intermittent stream drainage patterns and topography shown on United States Geological Survey (USGS) 7 1/2 minute topographic maps of the Ovid and Dresden quadrangles indicate that surface



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CLIENT/PROJECT TITLE
SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING | DWG NO. 726209-01002

FIGURE 3-1
AVERAGE MONTHLY PRECIPITATION IN PROXIMITY TO THE ASH LANDFILL (1958-1991)

SCALE NA | DATE OCTOBER 1995

GRAPHICS\SENECA\ASHMODEL\PRECIP.CDR

water flows generally to the west on the Depot. However, east of Route 96 flow is to the east, suggesting that there is a regional surface water divide located near Route 96. This divide is not near the Ash Landfill and does not affect he surface water flow patterns of the site.

All of the surface water at the Ash Landfill is suspected to drain into several small wetland areas on-site (Figure 1-1). Based on topographic expression, several of these wetland areas (W-B, W-D, W-E, and W-F) drain primarily into two small, but well developed, drainage swales south of the Ash Landfill and incinerator building (Figure 1-1). Farther north, less well developed swales drain areas in an near wetlands W-B and W-E. These ditches direct surface water flow westward into a drainage ditch along West Patrol Road. Surface water, when present, drains to the north on both sides of West Patrol Road. Wetland W-F also drains west along West Smith Farm Road to the ditch along West Patrol Road. Drainage along West Patrol Road (between West Smith Farm Road and Cemetery Road) is to the northwest, based on topography. Drainage on both sides of West Smith Farm Road and Cemetery Road is to the west. North and east of the Ash Landfill site is Kendaia Creek which drains upland areas east of the Ash Landfill site. Kendaia Creek passes approximately 3,800 feet north of the Ash Landfill and eventually drains into Seneca Lake.

Precipitation data indicates that, historically, June has the greatest amount of rainfall, 3.9 inches, and the winter months (January and February) generally have had the least amount of rainfall (Figure 3-1).

Suspected spring locations within a one mile radius of the Ash Landfill were examined in the field as part of the Ash Landfill RI. Field observations made at potential seeps within wetlands in proximity to and downgradient of the Ash Landfill site found no evidence of springs within these wetlands. It appeared that low spots with poorly drained soils enabled surface run-off to collect and form hydric conditions that are conducive to wetland formation. No evidence of springs was observed within a one-mile radius of the Ash Landfill during the RI field work.

3.4 SITE GEOLOGY

3.4.1 Introduction

The site geology is characterized by a mantle of Pleistocene till overlying gray Devonian shale. At the top of the shale unit is a thin weathered zone where it contacts the overlying mantle of Pleistocene till. This stratigraphy is consistent over the entire Ash Landfill site and the six other

nearby sites that have been investigated (SEAD-16, -17, -25, -26, -50, and -64D) at SEDA. The information obtained from these site investigations suggests that the geology at throughout the facility is consistent and is applicable to areas outside the immediate vicinity of the Ash Landfill (i.e., the modeled area).

3.4.2 Till/Weathered Shale

The predominant surficial geologic unit present at the site is dense glacial till. The till is distributed across the entire region and ranges from in thickness from less than 4 to approximately 18 feet although it is generally only 6 to 8 feet thick. The till generally consists of brown to gray-brown silt, clay and fine sand with few fine to coarse gravel-sized inclusions of weathered shale. Larger diameter weathered shale clasts (as large as 6 inches in diameter) are more prevalent in basal portions of the till and are probably ripped-up clasts removed from the shale by the once active glacier. The general Unified Soil Classification System description of the till on-site is as follows: Clay-silt, brown; slightly plastic, small percentage of fine to medium sand, small percentage of fine to coarse gravel-sized gray shale clasts, dense and mostly dry in place, till, (ML). Grain size analyses performed by Metcalf & Eddy (1989) on glacial till samples collected during the installation of monitoring wells on another portion of SEDA show a wide distribution of sediments sizes, charateristic of unsorted glacial till. These tills have a high percentage of silt and clay with trace amounts of fine gravel. The porosities of five gray-brown silty clay (i.e., till) samples ranged from 34.0 percent to 44.2 percent with an average of 37.3 percent (USAEHA, 1984). No fracturing or other evidence of physical disturbance were observed in the till.

At the Ash Landfill site and surrounding area, Darian silt-loam soils, 0 to 18 inches thick, are developed over the till on-site, however, in some locations, till is exposed at the surface. The surficial soils are somewhat poorly drained and have a silt clay loam and clay subsoil.

The zone of gray weathered shale has a variable thickness and was encountered below the till in almost all locations drilled at SEDA. The thickness of the weathered shale varies at the Depot, however, it is generally only 2 to 4 feet thick. Differential weathering through geologic time is likely responsible for the variable thicknesses.

3.4.3 Competent Shale

The bedrock underlying the Ash Landfill and the surrounding region is composed of the Ludlowville Formation of the Devonian age Hamilton Group. The Ludlowville Formation is a gray-black, calcareous shale that is fissile and exhibits parting (or separation) along bedding planes; it is approximately 140 feet thick in Seneca County (Mozola, 1951). Three predominant joint directions, N60°E, N30°W, and N20°E are present within this unit (Mozola, 1951). These joints are primarily vertical. Merin (1992) also cites three prominent vertical joint directions of northeast, north-northwest, and east-northeast in outcrops of the Genesse Formation 30 miles southeast of the Ash Landfill site near Ithaca, New York.

Data from boring logs indicates that the surface of the competent shale slopes consistently to the west. The bedrock topographic gradient (as well as the land surface topography) is steeper in the eastern portion of the Ash Landfill site than in the southwestern portion of the site. Available data suggests that the competent shale surface flattens out under a cultivated field west of the Conrail railroad tracks.

The characteristics of the competent shale were observed in a total of 236 feet of core collected during packer testing and monitoring well installation performed at the Ash Landfill. Major characteristics of the bedrock cores include bedding-plane fractures, breccia zones, tectonic joints, fossil beds, and minor deposits of iron sulfides. Bedding-plane fractures were present throughout the competent shale although they were more well developed and more closely spaced near the top of the competent shale, where their spacing was approximately 0.5 inches. Bedding-plane fractures also tended to be filled with silt and clay near the top of the shale. Well-defined bedding-plane fractures were also noted by Merin (1992) in cores from well cemented, gray, thin-bedded siltstones of the Genessee Formation near Ithaca, New York. Generally, the fracture frequency decreased with depth as evidenced by the increase in Rock Quality Designations (RQDs). RQDs are the total length of recovered core sections over 4 inches in length expressed as a percentage of the interval cored. RQDs are a geological term used to determine the integrity of the bedrock. High RQDs indicate competant, unfractured bedrock. Such rock would not be expected to yield significant amounts of water as the pathways for water to travel, i.e. the fractures, are limited. The core recoveries are influenced by the number of bedding-plane fractures and tectonic fractures in the shale. Merin (1992) also noted that bedding-plane fracture frequency decreased with depth in Devonian siltstones near Ithaca, New York.

Breccia zones are present in several of the cores at varying depths. Breccia is a geoloical term that refers to fragmental rock whose components are angular. Breccia rock are not considered to be

affected by erosion due to interactions with water. These zones range from 3 to 12 inches thick and are composed of angular shale fragments in a fine silt and clay matrix. The upper and low contacts of these zones are generally sharp. The breccia is believed to have been formed during small tectonic movements along preexisting bedding plane fractures. No breccia zones were observed along any other type of fracture (e.g., vertical fracture or low angle fracture) except for bedding plane fractures. Brecciated zones were identified in cores for monitoring wells MW-49D (4-inch-thick zone at 24 feet), MW-50D (12-inch-thick zone at 41 feet), MW-52D (3-inch-thick zone at 40 feet), MW-54D (8-inch-thick zone at 30 feet), MW-55D (3-inch-thick zone at 50 feet), and MW-55D (3-inch-thick zone at 20 feet).

Joints were very common in the competent shale. They were observed in most cores at a variety of angles (between 5° and 90°) although most tended to be between 30° and 60°. Below the top of the competent shale fractures were less than a millimeter thick. They were generally free of silt or clay except in the upper few feet of the shale where they were filled with silt and clay. In some instances, the fractures were filled with a secondary calcium carbonate mineral. The spacing between the joints was usually 4-5 inches in the upper 20 feet of the competent shale; joints spacings below 20 feet were variable but were generally greater than 4-5 inches. The orientation of the joints in space could not be determined because the drilling program did not require the collection of oriented cores.

Thin fossil beds were present at many locations in the shale. The beds ranged in thickness from less than 1 inch to 3 inches. Occasionally only a single fossil was seen in the shale and not associated with an accumulation bed. The fossil beds provide planes of weakness in the shale and were almost always associated with bedding plane fractures.

Iron sulfides were present throughout the cores; however, they were more abundant below 80 feet. Evidence for this is available only from the core for MW-52. This corehole penetrated to 100 feet below the land surface.

3.4.4 Site Stratigraphy

A geologic cross-section was constructed for the Ash Landfill site. The location of the section is shown in Figure 3-2. The east-west cross-section A-A′ shows the consistent till, weathered shale, competent shale stratigraphy beneath the site based on data from borings and monitoring wells (Figure 3-3). The Ash Landfill, which is up to 4 feet thick, is also shown on the section A-A′. The

N 997000
N 996000
N 995000
N 994000
E 421000
E 420000
E 419000
MW-41D
1200 FEET
MW-42D
SEAD RAILROAD
APPROXIMATE LOCATION OF 6" WATER MAIN
A
PT-10
COOKING GREASE FATS DISPOSAL AREA
NON COMBUSTIBLE FILL LANDFILL
W-A
DEBRIS PILE
MW-39
MW-43
B-40B
MW-40
MW-60
MW-59
PT-11
W-E
ASH LANDFILL
PT-18
WEST SOUTH FARM ROAD
DEBRIS PILE
DEBRIS PILE
MW-44
W-C
ABANDONED INCINERATOR BUILDING
W-D
W-B
B-47
PT-12
W-F
MW-45
MW-46
MW-49D
MW-50D
PT-19
PT-22
PT-21
PT-20
MW-48
APPROXIMATE LOCATION OF 6" WATER MAIN
CEMETERY ROAD
MW-32
MW-33
PT-15
PT-17
MW-30
MW-31
PT-25
PT-23
MW-27
MW-54D
MW-53
MW-55D
MW-28
ASPHALT PATCH
SEAD-2
EL.634.917
MW-29
MW-34
(625 FEET)
MW-38D
PT-16
PT-24
MW-36
MW-35D
WEST PATROL ROAD
CONRAIL RAILROAD
MW-57D
MW-56
MW-58D
W-G
A'
PT-26
(1315 FEET)
SEAD-1
EL.630.90'
MW-37
FARMHOUSE WELLS (1250 FEET)
MW-51D
MW-47
MW-52D
0

LEGEND:

- PAVED ROAD
- DIRT ROAD
- 650 — GROUND CONTOUR AND ELEVATION
- TREE
- W-B — WETLAND & DESIGNATION
- APPROXIMATE EXTENT OF FILL
- OUTLINE OF FORMER TRASH PITS (IDENTIFIED FROM AERIAL PHOTO)
- APPROXIMATE EXTENT OF DEBRIS PILE
- BRUSH
- CHAIN LINK FENCE
- UTILITY POLE
- APPROXIMATE LOCATION OF FIRE HYDRANT
- FUEL OR UNDERGROUND STORAGE TANK
- SURVEY MONUMENT
- SEAD-1 EL.630.90'
- PT-22 — MONITORING WELL AND DESIGNATION
- MW-37
- B-40B — SOIL BORING AND DESIGNATION
- LOCATION OF CROSS SECTION

ACAD\SENECA\ASHMODEL\CSAA.DWG

PARSONS

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CLIENT/PROJECT TITLE

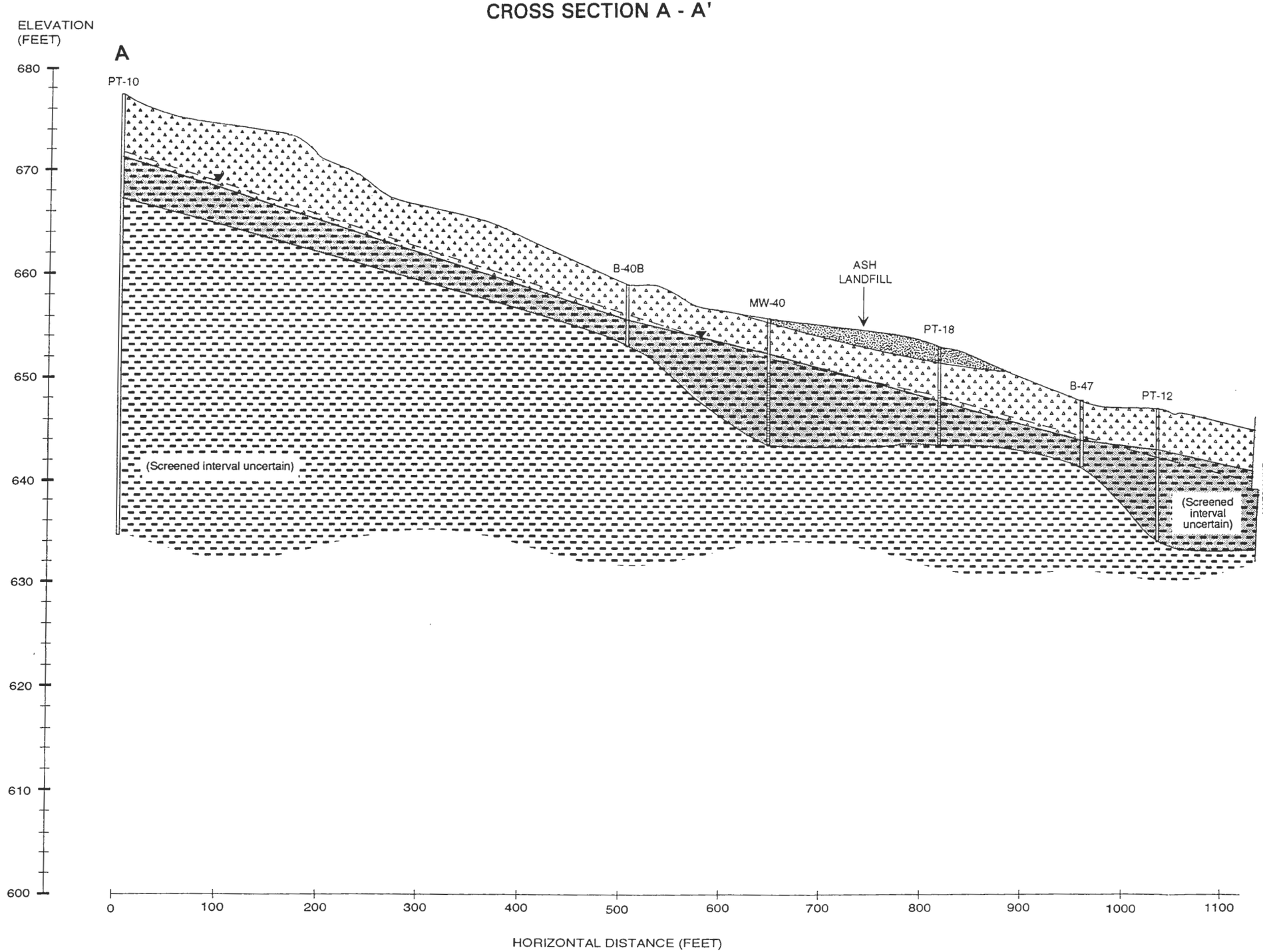
SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	720209-01002

FIGURE 3-2
LOCATION OF GEOLOGIC CROSS-SECTION A-A'

SCALE	DATE	REV
1" = 250'	OCTOBER 1995	A

CROSS SECTION A - A'



NOTES:

1. Lithologic units are based on descriptions supplied by Parsons Engineering-Science, Inc. (1994a). Interpretations are based on extrapolations between widely spaced boreholes, actual conditions may vary.
2. Water table based on depth to water measurements made in June 1993.

MW-44

Monitoring Well Designation with Screened Interval

LEGEND:

- FILL
- TILL
- WEATHERED SHALE
- COMPETENT SHALE
- WATER TABLE

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ASH LANDFILL GROUNDWATER MODEL

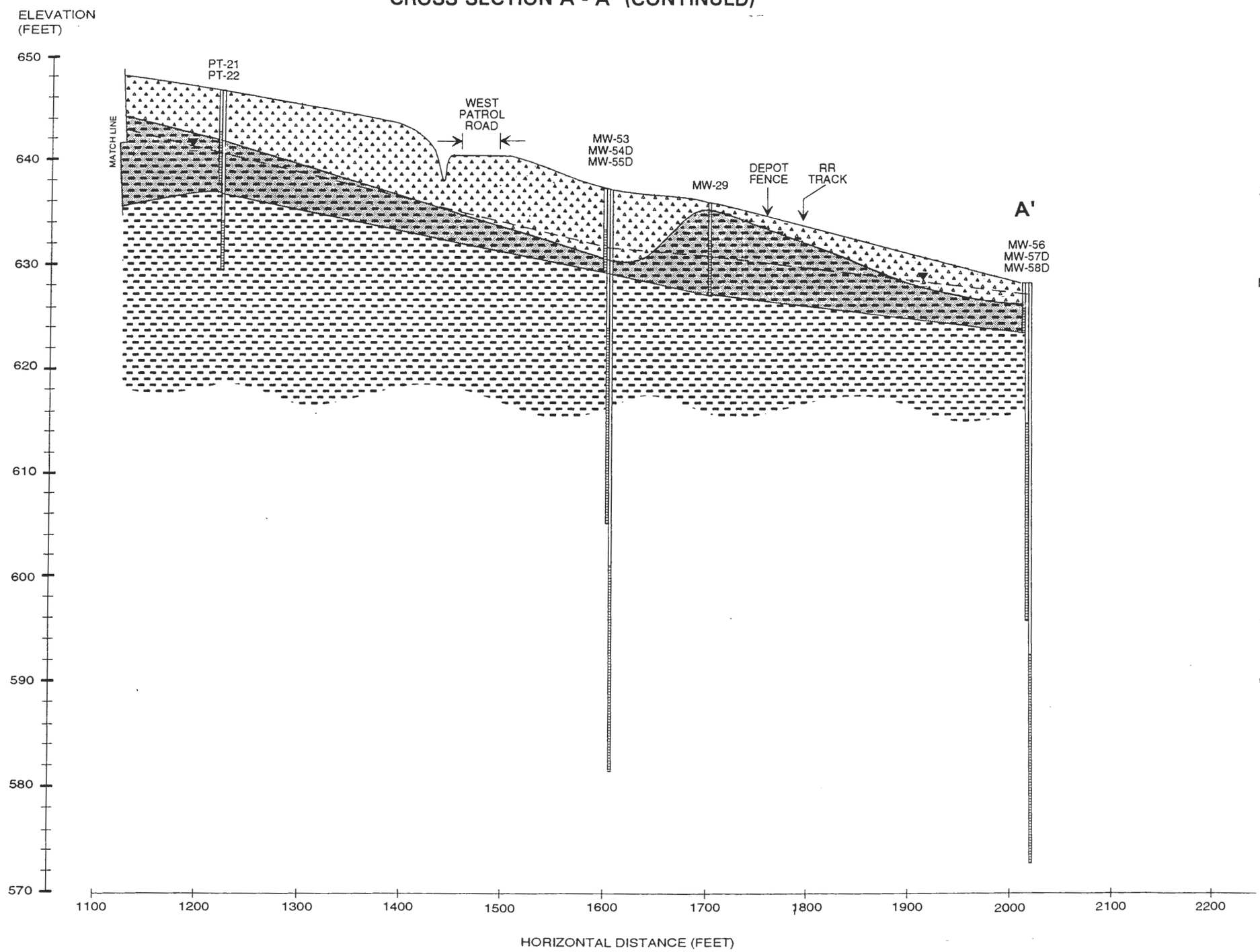
DEPT. ENVIRONMENTAL ENGINEERING | DWG NO. 726209-01002

FIGURE 3-3
CROSS SECTION A - A'

SCALE NA | DATE JANUARY 1996

GRAPHICS\SENECA\ASHMODEL\11X17H.CDR

CROSS SECTION A - A' (CONTINUED)



NOTES:

1. Lithologic units are based on descriptions supplied by Parsons Engineering-Science, Inc. (1994a). Interpretations are based on extrapolations between widely spaced boreholes, actual conditions may vary.
2. Water table based on depth to water measurements made in June 1993.

MW-44

Monitoring Well Designation with Screened Interval

LEGEND:

- FILL
- TILL
- WEATHERED SHALE
- COMPETENT SHALE
- WATER TABLE

PARSONS
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SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING | DWG NO. 726209-01002

FIGURE 3-3
CROSS SECTION A - A' (CONTINUED)

SCALE NA | DATE JANUARY 1996

GRAPHICS\SENECA\ASHMODEL\11X17H.CDR

section was drawn to provide a somewhat detailed view of the subsurface stratigraphy by intersecting as many data points (i.e., soil borings or monitoring wells) as possible while maintaining a uniform direction for the cross-section. The scale of the sections did not permit identification of a soil horizon.

3.5 HYDROGEOLOGIC SETTING

3.5.1 Introduction

The hydrogeologic properties of the till/weathered shale and competent shale aquifers were derived from investigations performed at the Ash Landfill. Specifically, this section addresses topics such as groundwater flow directions, hydraulic conductivities, groundwater velocity, vertical gradients, and vertical connection tests between the shallow and deep aquifers. This information was used as the basis for the conceptual model that describes the expected aquifer characteristics and behavior. The conceptual model is presented at the end of the section.

3.5.2 Groundwater Flow Directions

A groundwater contour map was constructed for the Ash Landfill and SEAD-64D, an adjacent site, using depth to groundwater measurements in the till/weathered shale aquifer. The groundwater contour map was constructed on the basis of depth to water measurements made on June 14, 1993 (Figure 3-4). The flow direction determined during this effort is consistent with the data obtained from the several quarterly groundwater monitoring events performed at the site. The map indicates that the general direction of groundwater flow in the shallow aquifer was to the west toward Seneca Lake, generally following the surface topography. The aquifer surface elevations were approximately 655 feet above MSL in the eastern portion of the site and 630 feet above MSL in the western portion of the site. Generally, groundwater flow contours indicate that there is a consistent gradient over the entire area. The groundwater gradient between wells PT-18 and PT-17 was calculated to be 0.021. The site-wide hydraulic gradient (between wells MW-40 and MW-56) was calculated to be 0.020 ft/ft.

Groundwater topography maps were prepared for high, medium and low water table conditions to determine if the direction of the groundwater flow and/or the hydrolic gradient were different (Figures 3-5, 3-6 and 3-7). Analysis of these maps indicates that the groundwater flow directions and horizontal gradients are approximately the same. The flow direction is to the west-southwest

N

LEGEND

MONITORING WELL

SURVEY MONUMENT

GROUNDWATER CONTOUR WITH FLOW DIRECTION

INTERMITTENT STREAM

RAILROAD TRACKS

RAILROAD TRACKS

760 GROUND SURFACE ELEVATION CONTOUR

300 0 300 600

1" = 600'

C:\ACAD\SENECA\ASHMODEL\GFD.DWG

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ASH LANDFILL GROUNDWATER MODEL

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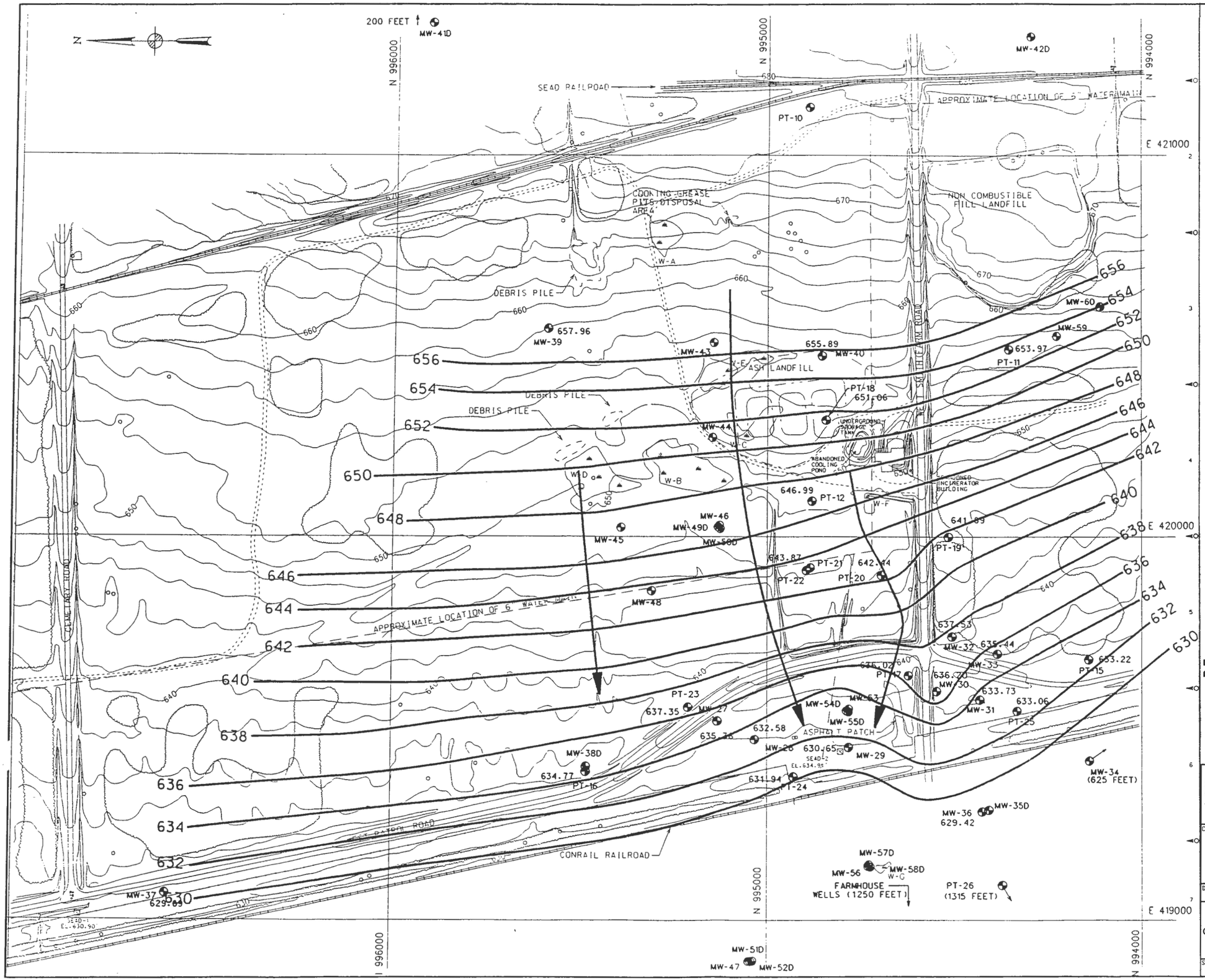
FIGURE 3-4
GROUNDWATER FLOW DIRECTIONS AT THE ASH LANDFILL AND SEAD-64D

SCALE 1" = 600' | DATE JANUARY 1998 | REV A



LEGEND

- GROUND CONTOUR AND ELEVATION
- W-1 — WETLAND & DESIGNATION
- UTILITY POLE
- TREE
- BRUSH
- MW-29 / 626.87 — MONITORING WELL WITH WATER TABLE ELEVATION
- 632 — GROUNDWATER ELEVATION CONTOUR (ARROW INDICATES DIRECTION OF FLOW)

N

125 0 125 250

1" = 250'

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CLIENT/PROJECT TITLE

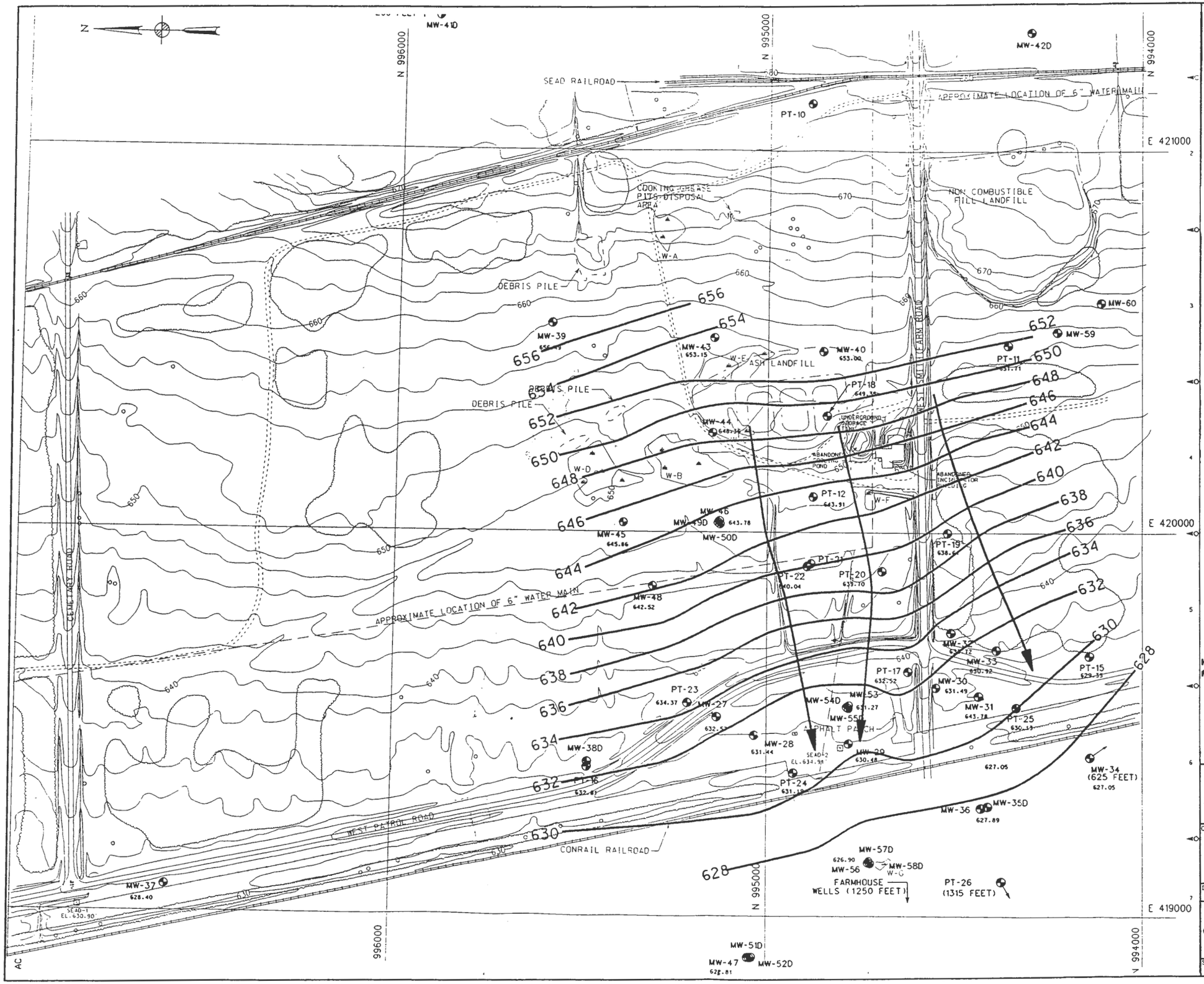
SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 3-5

GROUNDWATER ELEVATIONS AND TOPOGRAPHY FOR THE TILL WEATHERED SHALE AQUIFER – DECEMBER 1992

SCALE	DATE	REV
1" = 250'	APRIL 1996	A



LEGEND

- GROUND CONTOUR AND ELEVATION (650)
- W-1 — WETLAND & DESIGNATION
- UTILITY POLE
- TREE
- BRUSH
- MW-29 / 626.87 — MONITORING WELL WITH WATER TABLE ELEVATION
- 632 — GROUNDWATER ELEVATION CONTOUR (ARROW INDICATES DIRECTION OF FLOW)

N

125 0 125 250

1" = 250'

PARSONS

PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 3-6

GROUNDWATER ELEVATIONS AND TOPOGRAPHY FOR THE TILL WEATHERED SHALE AQUIFER - JUNE 1993

SCALE	DATE	REV
1" = 250'	APRIL 1996	A

N

SEAD RAILROAD

APPROXIMATE LOCATION OF 6" WATER MAIN

COOKING GREASE PITS DISPOSAL AREA

NON COMBUSTIBLE FILL LANDFILL

DEBRIS PILE

DEBRIS PILE

DEBRIS PILE

ASH LANDFILL

ABANDONED INCINERATOR BUILDING

WEST SMITH CARM ROAD

CEMETARY ROAD

APPROXIMATE LOCATION OF 6" WATER MAIN

WEST PATROL ROAD

CONRAIL RAILROAD

ASPHALT PATCH

FARMHOUSE WELLS (1250 FEET)

PT-26 (1315 FEET)

MW-34 (625 FEET)

MW-42D
MW-10
MW-39
MW-43
MW-40
MW-59
MW-60
PT-11
PT-18
MW-44
PT-12
MW-45
MW-46
MW-49D
MW-50D
PT-21
PT-22
PT-20
MW-48
MW-32
MW-33
PT-15
PT-17
MW-36
MW-31
PT-23
MW-27
MW-54D
MW-53
MW-55D
PT-25
MW-28
MW-29
SEAD-2 EL.634.917
PT-24
MW-38D
PT-16
MW-36
MW-35D
MW-57D
MW-56
MW-58D
MW-37
SEAD-1 EL.630.90'
MW-51D
MW-47
MW-52D

647.66
642.65
638.34
632.64
631.60
630.76
630.73
633.69
628.07
626.84
631.15
629.43
630.02
626.70
627.45

650
644
642
640
638
636
634
632
630

W-A
W-B
W-C
W-D
W-E
W-G

LEGEND

- GROUND CONTOUR AND ELEVATION
- W-1 — WETLAND & DESIGNATION
- UTILITY POLE
- TREE
- BRUSH
- MW-29 / 626.87 — MONITORING WELL WITH WATER TABLE ELEVATION
- 632 — GROUNDWATER ELEVATION CONTOUR (ARROW INDICATES DIRECTION OF FLOW)

125 0 125 250
1" = 250'

ACAD\SENECA\ASHMODEL\SEPT90GW.DWG

PARSONS
PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	725980-01007

FIGURE 3-7

GROUNDWATER ELEVATIONS AND TOPOGRAPHY FOR THE TILL WEATHERED SHALE AQUIFER - SEPTEMBER 1990

SCALE	DATE	REV
1" = 250'	APRIL 1996	A

and the horizontal gradient between wells PT-18 and PT-17 is 0.02 ft/ft for all three aquifer conditions.

The groundwater flow direction in the competent shale aquifer at the Ash Landfill is to the west-southwest, based on data collected from the 5 deep bedrock wells. The gradient between the bedrock wells PT-10 and MW-35D was calculated to be 0.025.

The physical characteristics of the competent shale aquifer that affect the flow of groundwater were investigated by reviewing a report prepared by Mozola (1951) and reviewing the core data collected during the monitoring well installation. Mozola (1951) described two distinct sets of joints in the area. The main set, termed dip joints, appear to be in the form of two conjugate shear planes that intersect to form acute angles ranging from 10° to 30°. The mean direction of the dip joints ranges from North 15° to 30° East to North 30° to 45° West. Strike joints at right angles to the dip joints trend from North 50° East to North 70° East and are spaced from 1 inch to 4 feet apart. The dip of the joint planes ranges from 46° to nearly vertical; dip directions range as noted above. In addition, Mozola (1951) found that, most of the joints in the beds of the shale are filled with clay or fine silt which may inhibit groundwater flow.

The flow of groundwater in the competent shale is believed to be influenced primarily by the joints and bedding plane fractures that were observed in the bedrock core samples collected during the RI. No other flow pathways were observed in the core samples. This view was suggested by Mozola (1951) for rocks of the Hamilton Group and more recently by Merin (1992) for Devonian siltstones near Ithaca, New York. Brecciated zones in the shale may have once transported significantly greater amounts of water than the unbrecciated shale, however, today they are not believed to be major transport pathways because they are filled with a fine silt and clay matrix. In Merin's (1992) conceptual model of groundwater flow in a siltstone aquifer near Ithaca, New York, flow is through a network of horizontal and vertical bedding plane fractures and joints that exists in the subsurface. Limited amounts of groundwater is expected to migrate through vertical and horizontal planes of secondary porosity (i.e., fractures), each of which is a fraction of a millimeter thick and extends several inches to tens of feet in length. Based on the physical characteristics of the competent shale observed in this investigation, this model is believed to apply to the shale at the Ash Landfill site.

3.5.3 Hydraulic Conductivities

Horizontal hydraulic conductivities were determined for 22 wells at the Ash Landfill site, 8 of which are screened in the till/weathered shale and 14 are screened in the competent shale. Hydraulic conductivities of these wells ranged from 1.8×10^{-4} to 1.9×10^{-7} cm/sec with one anomalous value of 5.8×10^{-11} cm/sec. Hydraulic conductivity values for the shallow till/weathered shale aquifer ranged from 3.9×10^{-5} cm/sec to 1.8×10^{-4} cm/sec. Hydraulic conductivity values for the competent shale aquifer (as determined by slug testing) ranged from 1.9×10^{-7} to 1.2×10^{-4} cm/sec. In most instances the conductivity values for the till/weathered shale aquifer are greater than for the competent shale aquifer. Within the competent shale aquifer, conductivity values generally decrease with depth, a phenomenon which can be attributed to an increase in mechanical stresses causing fractures to close (deMarsily, 1986). Merin (1992) noted a similar trend in fractured Devonian siltstones near Ithaca, New York and attributed it to the fact that shallower wells intercepted more highly fractured rock than the deeper wells did.

3.5.4 Groundwater Velocity

The average linear darcy velocity of groundwater in the till/weathered shale was calculated using the following parameters: 1) an average hydraulic conductivity of 4.5×10^{-4} cm/sec (1.28 ft/day), 2) an estimated effective porosity of 15% (0.15) to 20% (0.20), and 3) a groundwater gradient of 1.95×10^{-2} ft/ft (Parsons ES, 1994a). The average linear velocity was calculated to 0.166 ft/day or 60.7 feet/year at 15% effective porosity and 0.125 ft/day or 45.5 ft/yr at 20% effective porosity. The actual velocity on-site may be locally influenced by more permeable zones possibly associated with differences in the actual porosity of the till/weathered shale.

The average linear darcy velocity of groundwater in the competent shale was calculated using the following parameters : 1) an average hydraulic conductivity of 3.73×10^{-5} cm/sec (0.106 ft/day), 2) an estimated effective porosity of 6.75% (0.0675), and 3) a groundwater gradient of 2.5×10^{-2} ft/ft. An average linear velocity of 3.9×10^{-2} ft/day or 14.3 ft/yr was calculated for the shale.

3.5.5 Vertical Hydraulic Heads and Gradients

The potential for vertical flow from the till to the shale bedrock was investigated by measuring the piezometeric head in the overburden wells and adjacent bedrock wells and calculating the vertical gradients in two paired wells. The potenital for vertical flow would be indicated by the magnitude

of the head differences over the vertical distance that the measurements were made. Negative values is an indication that the direction of vertical flow would be downward, into the shale bedrock. Vertical hydraulic head profiles for the two well pairs (PT-16/MW-38D and MW-36/MW-35D) and four well clusters (MW-46/MW-49D/MW-50D, MW-47/MW-51D/MW-52D, MW-53/MW-54D/MW-55D, and MW-56/MW-57D/MW-58D) were determined (Parsons ES, 1994a). These data do not suggest any significant vertical groundwater moverment. Some of the vertical hydraulic head profiles at the Ash Landfill site indicate slight downward flow, whereas other areas of the site show slight upward flow. There is no consistent distribution of head over the site suggesting there are no clear trends in upward or downward flow. Each well pair/cluster location tends to have individual flow characteristics.

3.5.6 Vertical Connection Between Till/Weathered Shale and Competent Shale Aquifers

Vertical connection tests were performed to observe the influence that would occur by removing water from one well and measuring the change in piezometeric head in a paired well. These tests were performed to determine the degree of connection between the till/weathered shale and competent shale aquifers. Specifically, the tests were performed to determine whether the connection between the till/weathered shale and competent shale were small enough that the competent bedrock could be considered as a lower impermeable boundary for the shallow groundwater flow systems at the Ash Landfill. Such an impermeable boundary would prove to be an important limitation on the possible spread of volatiles and other constituents.

Vertical connection test data are available for two paired wells (PT-16 and MW-38D, MW-36 and MW-35D), and four well clusters [(MW-46, MW-49D, and MW-50D), (MW-47, MW-51D, and MW-52D), (MW-53, MW-54D, and MW-55D), and (MW-56, MW-57D, and MW-58D)] (Parsons ES, 1994a). In all of the vertical connection tests at the well clusters, the degree of displacement in the till/weathered shale wells (up to 0.3 feet) was greater during purging of the shallow shale wells than the deep shale wells. These greater displacements can be attributed to the close proximity of the shallow shale wells to the till/weathered shale wells. The degree of vertical connection within the competent shale aquifer is comparatively greater than the connection observed between the till/weathered shale and competent shale aquifers. The results indicate that although there is a connection between the till/weathered shale aquifer the connection is not significant with the competent shale aquifer below it. This could be due to filling of bedding plane fractures and joints (noted earlier) by silt and clay in the upper portions of the shale aquifer. Flow into the

competent shale is likely controlled by vertical gradients. Vertical connections between wells screened within the competent shale aquifer are greater, most likely due to the presence of clean vertical sub-millimeter scale bedding plane joints that exist in the shale aquifer. One exception is the relatively poor vertical connection between competent shale wells MW-51D and MW-52D.

3.5.7 Summary of Aquifer Characteristics and Behavior

3.5.7.1 Introduction

An analysis of the tests performed for this investigation, and the 3 years of available historical quarterly monitoring data provided the informational basis for the development of the conceptual model of the overall behavior of the till/weathered shale and competent shale aquifers. The historical depth to ground water data was collected for the years 1990 through 1993 during quarterly sampling events at the Ash Landfill site. No long term historical data was available from the wells installed during the Ash Landfill RI (Parsons ES, 1994a) and the ESI investigations (Parsons ES, 1995a, 1995b, 1995c) so the data discussed below represents wells the were installed prior to the RI fieldwork, conducted in 1992.

3.5.7.2 Till/Weathered Shale Aquifer

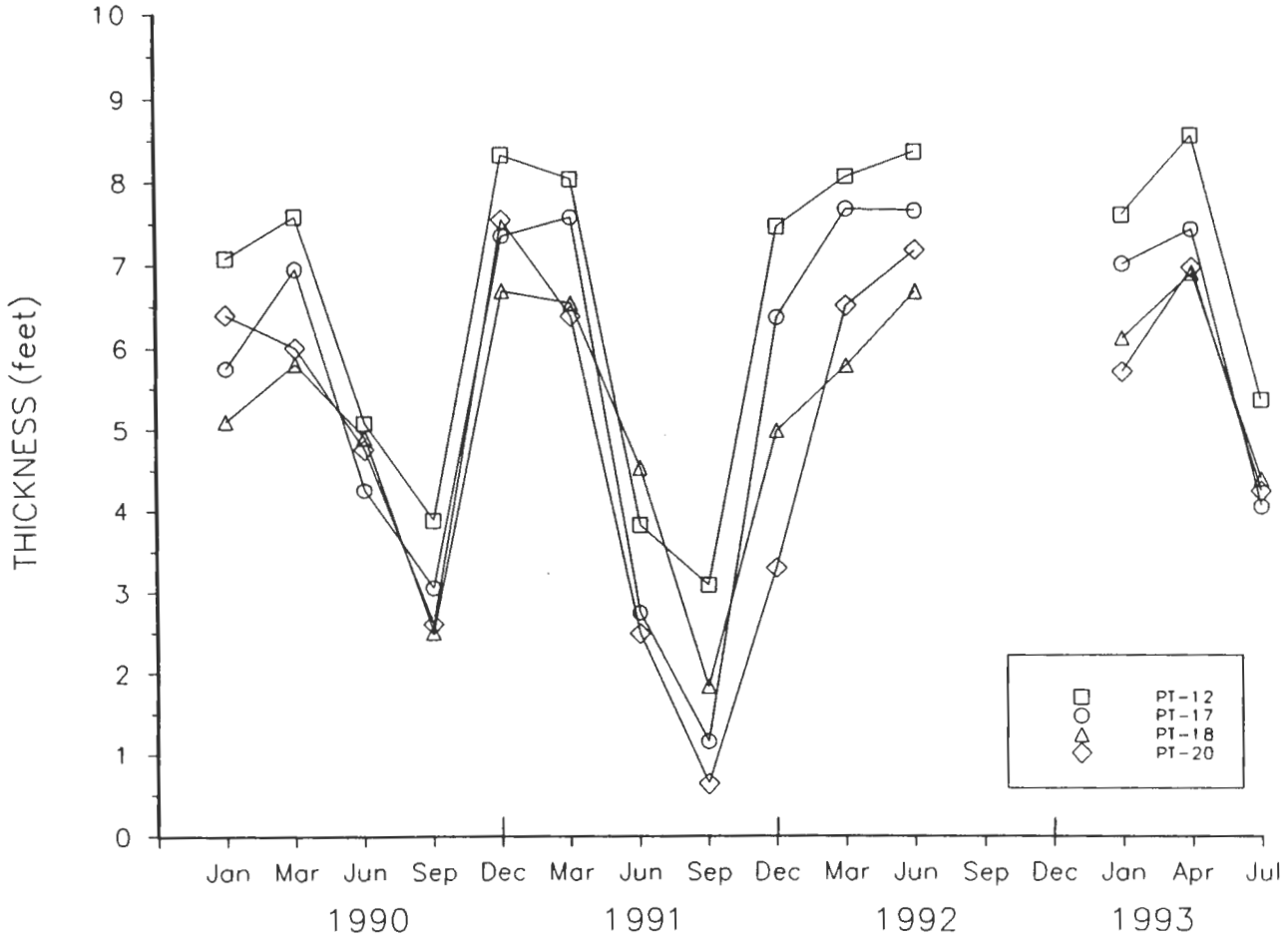
One of the ost striking aspects of hte historical data is the consistent and dramatic chang observed in water levels over the year. These data indicates a clear relationship between seasonal changes and the water table elevation. The highest groundwater levels are consistently measured in the spring, whereas the lowest levels are observed in the later portions of the year. For the relatively thin till/weathered shale aquifer, historical measurements of annual water table elevations indicate fluctuations as great as 8.72 feet occur in well PT-26, which is located approximately 2,300 feet off-site, near the SEDA airfield. The maximum water table fluctuation at the Ash Landfill site was measured in well PT-25, where the water levels have fluctuated up to 8.21 feet (Figure 3-8). The maximum thickness of the till/weathered shale aquifer was determined to be at the off-site borehole, PT-26, and was approximately 11.6 feet. On-site, the maximum thickness was determined to be approximately 8.6 feet and was observed in the borehole for PT-25. This would mean that during the spring, the water table will reach within several inches of the ground surface. Alternatively, at certain times of the year, the saturated interval becomes quite thin ,approximately 1 to 3 feet thick, and even dries up in some locations, i.e. PT-29 and PT-30.

Based on the historical data, the wells at the Ash Landfill site exhibit rhythmic, seasonal water table and saturated thickness fluctuations (Figure 3-8). The saturated interval is at its thinnest (generally between 1 and 3 feet thick) in the month of September and is the thickest (generally between 6 and 8.5 feet thick) between the months of December and March. Although portions of the graphs that depict this change are not available, i.e. September and December 1992, it is likely that the water table would behave in a similar way as in the past, exhibiting a seasonal low. The saturated thickness of the till/weathered shale aquifer for high and low water table conditions during the years 1990 through 1992 are also shown on Table 3-1. This table depicts the change in the water table (in feet) from low water table conditions to high water table conditions for two seasonal cycles. The average change in the water table for these two seasonal cycles was approximately 5.4 feet.

Mozola (1951) states that groundwater in Seneca County (including the Ash Landfill site) is derived almost entirely from precipitation within the County. To investigate historical precipitation events and the likely relationship between fluctuations in the water table of the till/weathered shale aquifer and these precipitation events, monthly precipitation data for the years 1990 through most of 1993 were obtained from the Aurora Research Farm located 10 miles east of the site. Precipitation is relatively constant from month to month, although slightly higher amounts of precipitation occurs in the spring (March and April) and fall (September) and relatively lower amounts in the summer (with the exception of the month of July 1992) and winter (January and February). These data alone do not explain the fluctuations observed on the saturated thickness plots (Figure 3-8).

The rhythmic behavior of the aquifer does not appear to be controlled by precipitation events, rather it is more likely affected by a combination of precipitation amounts and increased evapotranspiration rates.

Evapotranspiration is affected by temperature, exposure to the intensity of the sun, velocity of the wind, and the amount of vegetation and appears to be the most significant factor in explaining the occurrance of groundwater fluctuations. The fluctuations cannot be fully explained as a result of horizontal groundwater flow. Discharging groundwater from the till/weathered shale unit, that has a relatively low hydraulic conductivity, i.e. an average of 3.65×10^{-4} cm/sec, cannot account for the amount of groundwater that must be removed from the site over the time required. While vertical connection tests indicate that low degrees of downward movement are possible from the till/weathered shale aquifer to the competent shale aquifer, no strong downward vertical gradients were not observed on-site and, therefore, downward flow is also believed to be minimal compared to evaporative losses.



PARSONS

PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

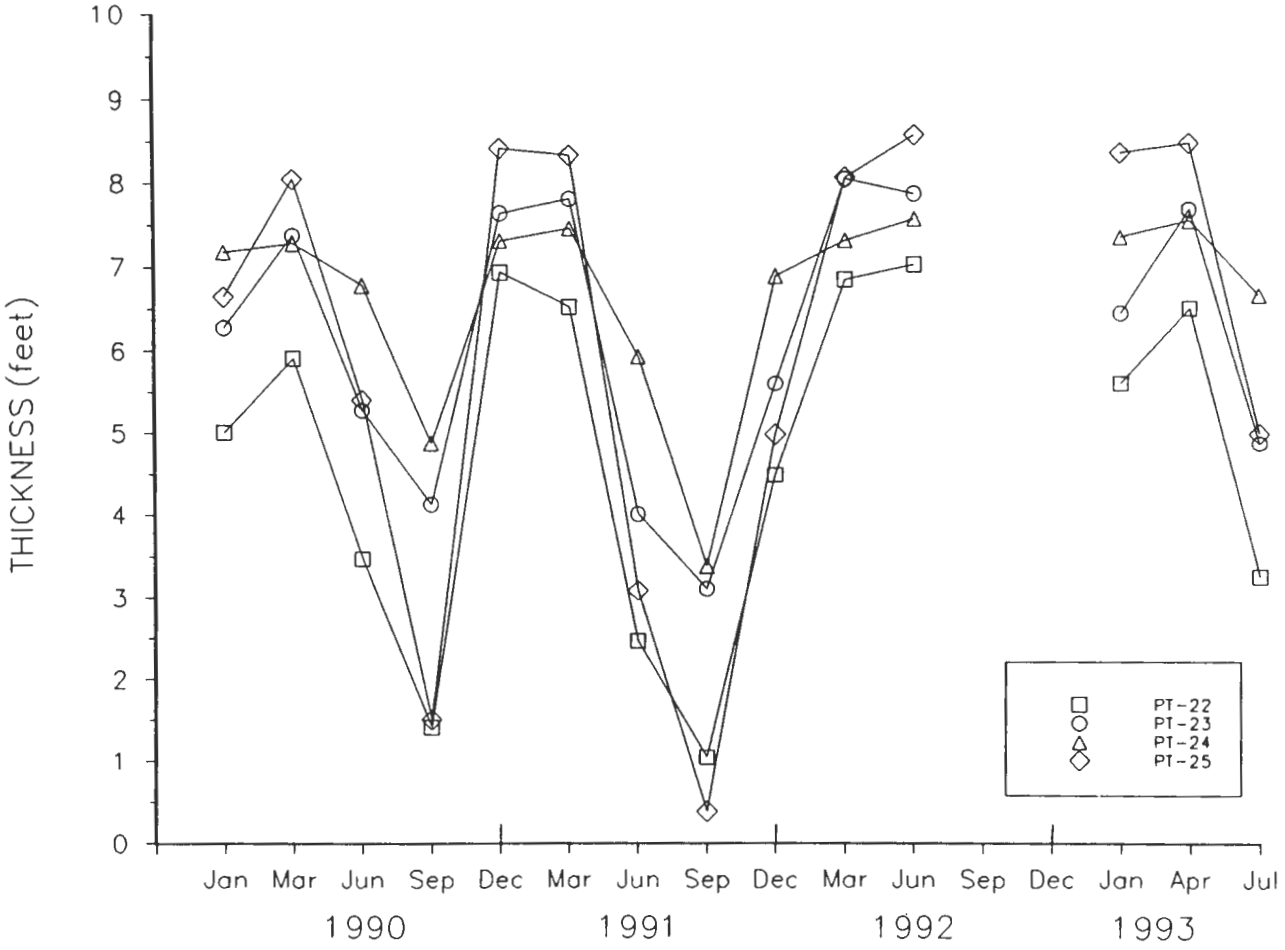
DEPT.	DWG NO.
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 3-8

HISTORICAL SATURATED THICKNESS IN THE TILL/WEATHERED SHALE AQUIFER

SCALE	DATE
NA	APRIL 1996

GRAPHICS\SENECA\ASHMODEL\PRECIP.CDR



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SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

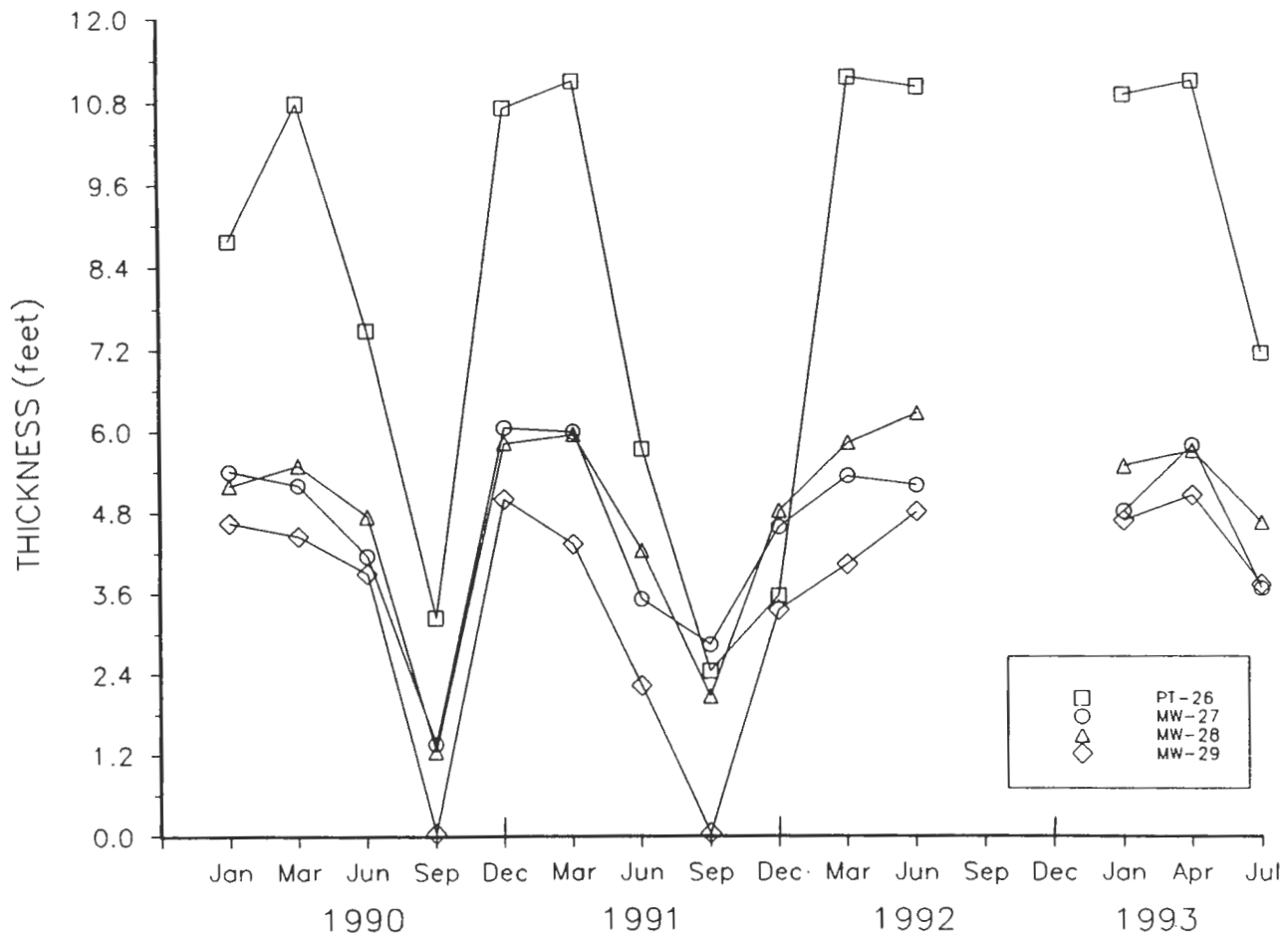
DEPT.	DWG NO.
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 3-8(CONTINUED)

HISTORICAL SATURATED THICKNESS IN THE TILL/WEATHERED SHALE AQUIFER

SCALE	DATE
NA	APRIL 1996

GRAPHICS\SENECA\ASHMODEL\PRECIP.CDR



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SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING | DWG NO. 726209-01002

FIGURE 3-8(CONTINUED)

HISTORICAL SATURATED THICKNESS IN THE TILL/WEATHERED SHALE AQUIFER

SCALE NA | DATE APRIL 1996

GRAPHICS\SENECA\ASHMODEL\PRECIP.CDR

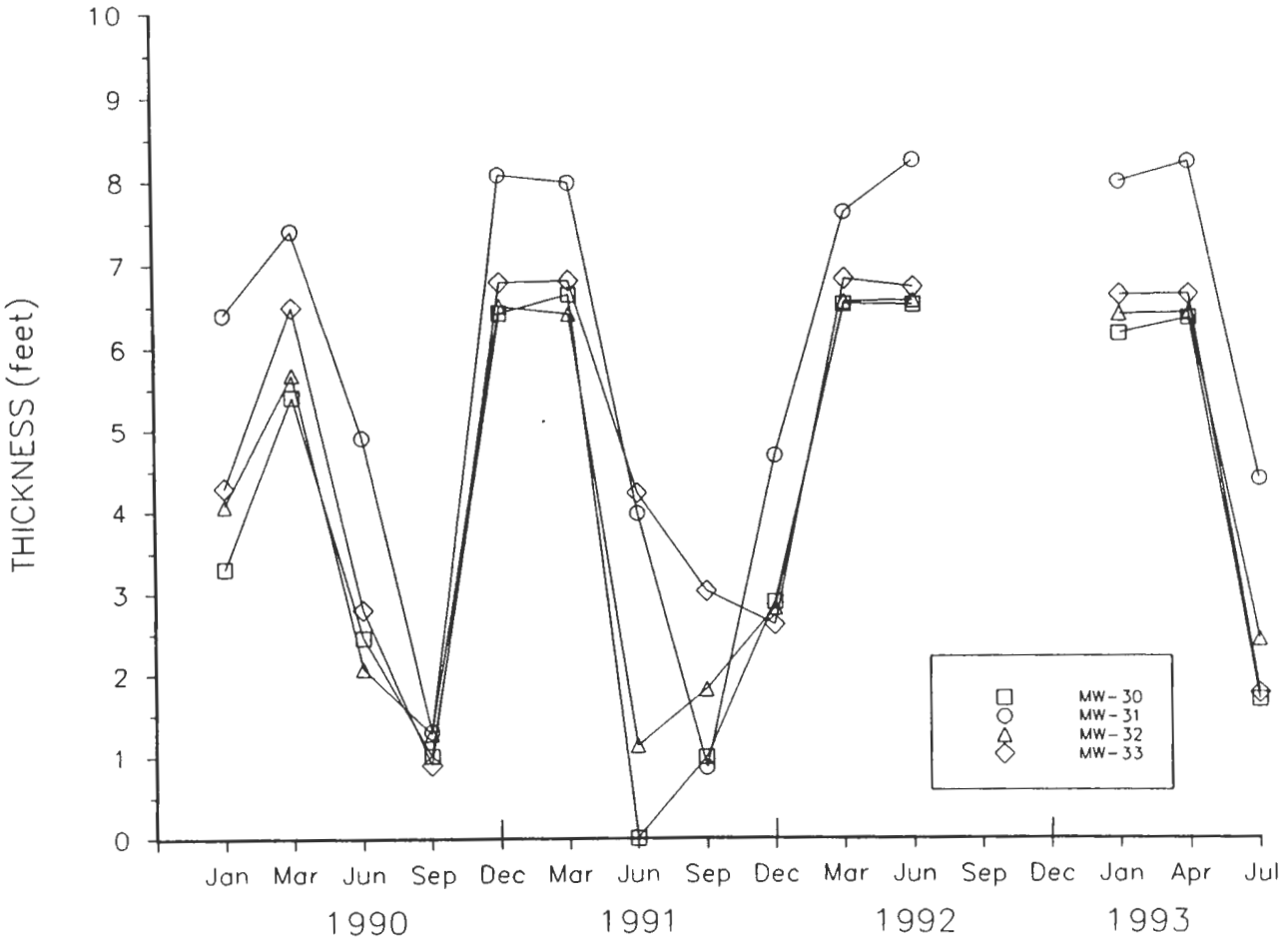

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FIGURE 3-8(CONTINUED)

HISTORICAL SATURATED THICKNESS IN THE TILL/WEATHERED SHALE AQUIFER

SCALE	DATE
NA	APRIL 1996

Table 3-1

Saturated Thicknesses of the Till/Weathered Shale Aquifer
at Selected Well Locations

Ash Landfill Groundwater Model
Seneca Army Depot Activity

Monitoring Well	Saturated Thickness Fall 1990 (feet)	Saturated Thickness Winter/Spring 1991 (feet)	Change 1990-1991 (feet)	Saturated Thickness Fall 1991 (feet)	Saturated Thickness Spring/Summer 1992 (feet)	Change 1991-1992 (feet)	Average Change (feet)
PT-12	3.88	8.32	4.4	3.08	8.36	5.3	4.9
PT-17	3.05	7.57	4.5	1.15	7.65	6.5	5.5
PT-18	2.50	6.69	4.2	1.83	6.68	4.9	4.5
PT-20	2.60	7.54	4.9	0.63	7.18	6.6	5.7
PT-22	1.41	6.94	5.5	1.04	7.04	6.0	5.8
PT-23	4.13	7.81	3.7	3.10	8.06	5.0	4.3
PT-24	4.88	7.46	2.6	3.38	7.59	4.2	3.4
PT-25	1.50	8.41	6.9	0.38	8.59	8.2	7.6
PT-26	3.23	11.10	7.9	2.44	11.16	8.7	8.3
PT-27	1.35	6.05	4.7	2.83	5.33	2.5	3.6
MW-28	1.24	5.82	4.6	2.06	6.26	4.2	4.4
MW-29	0.00	4.86	4.9	0.00	4.67	4.7	4.8
MW-30	1.00	6.64	5.6	0.00	6.52	6.5	6.1
MW-31	1.30	8.07	6.8	0.85	8.24	7.4	7.1
MW-32	1.27	6.50	5.2	1.12	6.56	5.4	5.3
MW-33	0.89	6.81	5.9	2.60	6.82	4.2	5.1
					Average Change at Site:		5.4

Therefore, based on the hydrographs for the wells, the conceptual model for this groundwater system is that the high water table in the late fall and winter is sustained through the spring by precipitation, snow melting events (predominantly in March and April) and low evapotranspiration rates. Precipitation accompanied by an increase in evapotranspiration (due to an increase in temperature and more vegetation growth) in the summer results in little recharge to the aquifer and thus a decline in the water table. In the summer, evapotranspiration at the surface causes water to move up from the water table to the surface by capillary action, a phenomenon noted by deMarsily (1986). In the fall (September and October) there is a slight increase in precipitation and a decrease in evapotranspiration, which accounts for the increasing water table elevations that are sustained through the winter months and into the spring.

There is support for the conceptual model that describes the behavior of the till/weathered shale aquifer can be found in the literature. Jones et al. (1992) discusses similar obervations for a shallow ground water flow system in a Wisconsin-age weathered till in Iowa and cites vertical upward movement and evapotranspiration as a primary source of discharge from the till. Cravens and Ruedisili (1987) and Hendry (1988) performed earlier studies at the Iowa site and showed that the recharge from surface percolation was predominantly discharged through capillary rise and evapotranspiration. They also inicated that lateral flow within the weathered till and vertical downward flow were minor. Cravens and Ruedisili (1987) also documented that the water table depth ranged from an average minimum of 2.4 feet in the summer to an average maximum of 8.5 feet in the fall; a similar seasonal trend was evident at the Ash Landfill site. Specifically, these researchers attributed the rise and fall of the water table to "seasonal changes in precipitation, plant water use, and evaporation through micropores and fractures." According to Fetter (1980) water can rise by capillary action about 4.9 feet in silts and 9.8 feet in some clays. This can explain large losses of water from the weathered till zone without the required movement of water downward through the unweathered till (Cravens and Ruedisili, 1987). Davis and DeWiest (1966) assert that use of water by plants is generally much more important as a means of ground water discharge than is direct soil evaporation. However, evaporation aided by soil cracks and capillary transfer is effective in the upper 3 feet of sandy soil and the upper 10 feet of clayey soil.

In another instance, hydrographs for peizometers screened in the upper portions of a till in Saskatchewan, Canada showed seasonal fluctuations of up to 8 feet over a period of approximately 4 months (Keller, at al., 1988). However, at this particular site, the seasonal ground water high occurs in September-October and the low in May-June. On the basis of hydrographs from nested peizometers, the loss of groundwater at this site was shown not to be from downward flow, but was

attributed to a combination of lateral flow and upward losses due to evapotranspiration, freezing in the unsaturated zone and other causes that were not noted by the authors.

DeMarsily (1986) notes that both the moisture content of the soil and the water table is generally higher in the winter compared to the summer for similar soil. A comparison of general moisture profiles in soil for these seasons indicates that precipitation events in the winter months are more likely to have a direct impact on the water table. This is due to the higher moisture content of the soil in the winter which allows for greater infiltration (recharge) of water during and after precipitation events. The moisture profiles indicate that in the summer, when evaporation is high, the atmosphere generally takes back all the moisture received during a storm, resulting in little recharge to the aquifer.

The various losses and gains in the till/weathered shale aquifer at the Ash Landfill site, as depicted on the water table elevation and saturated thickness plots and in the conceptual water balance described above, are supported by the monthly water balance model that was run for the same three years of historical data (1990 through 1992). The results of this monthly water balance is presented in Table 3-2. The water balance used for development of the conceptual model was developed using the rational method described by the U.S. EPA (1975). The model takes into account evapotranspiration, precipitation, precipitation runoff, and infiltration. A more complete discussion of the water balance model can be found in Section 4.2. As shown in Table 3-2, much of the runoff and almost all of the percolation (groundwater recharge) occurs during March, April, and May, during the snow melt period. There is continued runoff throughout the time period when the temperature stays above freezing. This is consistent with observations made at the site regarding runoff and groundwater levels. There is always runoff at the site during a major rainfall since the clay soils on-site prevent rapid infiltration.

In summary, groundwater levels measured in the spring have historically been highest, dropping over the summer due to a decrease in precipitation and increased evapotranspiration. Water levels in the late fall and winter rise due to a slight increase in late fall precipitation and vegatative dieback. Groundwater levels in the late fall and winter are not as high as those measured in the spring, when a combination of increased precipitation, no evapotranspiration and snow melting events contribute to the highest water levels of the year.

TABLE 3 - 2

MONTHLY WATER BALANCE
1990

SENECA ARMY DEPOT
ASH LANDFILL GROUNDWATER MODEL

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Mean Temp. (°F)	22.5	23.4	32.0	44.8	54.5	64.6	69.1	66.9	60.6	50.4	39.4	27.9	46.3
Heat Index	0	0	0	1.7	4.0	7.0	8.5	7.8	5.8	2.9	0.7	0.0	38.4
Unadj. PET (in)	0.000	0.000	0.000	0.039	0.079	0.118	0.134	0.126	0.102	0.063	0.024	0.000	
Corr. Factor	24.6	24.6	30.9	33.6	37.8	38.1	38.4	35.7	31.2	28.5	24.6	23.7	
Adj. PET (in)	0.0	0.0	0.0	1.3	3.0	4.5	5.1	4.5	3.2	1.8	0.6	0.0	24.0
P (in)	2.16	3.71	2.23	4.58	6.24	2.82	3.14	1.89	4.36	5.86	3.02	4.92	44.9
Corr. P (in)	0	0	6.3	6.3	6.2	2.8	3.1	1.9	4.4	5.9	3.0	4.9	44.9
C R/O	0.22	0.22	0.22	0.22	0.20	0.18	0.18	0.18	0.18	0.18	0.20	0.22	
R/O (in)	0.0	0.0	1.4	1.4	1.2	0.5	0.6	0.3	0.8	1.1	0.6	1.1	9.0
I (in)	0.0	0.0	4.9	4.9	5.0	2.3	2.6	1.5	3.6	4.8	2.4	3.8	36.0
I-PET(in)	0.0	0.0	4.9	3.6	2.0	-2.2	-2.6	-2.9	0.4	3.0	1.8	3.8	11.9
neg (I-PET)						-2.2	-4.8	-7.7					
ST (in)	3.9	3.9	3.9	3.9	3.9	2.2	1.1	0.5	0.9	3.9	3.9	3.9	
delta ST (in)	0.0	0.0	0.0	0.0	-0.0	-1.7	-1.1	-0.6	0.4	3.0	0.0	0.0	
AET (in)	0.0	0.0	0.0	1.3	3.0	4.0	3.7	2.1	3.2	1.8	0.6	0.0	19.7
PERC (in)	0.0	0.0	4.9	3.6	2.1	0.0	0.0	0.0	0.0	0.0	1.8	3.8	16.2
delta W.T. (feet)	0.0	0.0	1.4	0.6	-0.3	-1.6	-1.3	-0.8	-0.8	0.3	0.3	1.1	

NOTES:

PET = Potential Evapotranspiration

P = Precipitation

Corr. P = Corrected precipitation (rain + melting snow)

C R/O = Surface Runoff Coefficient

R/O = Surface Runoff

I = Infiltration

I-PET = Infiltration minus Potentail Evapotranspiration

neg (I-PET) = Accumulated Potential Water Loss

ST = Soil Moisture Storage (for negative accumulated water loss values, soil storage values were obtained from table 9 of "A Current Report on Solid Waste Management.")

delta ST = Change in Storage

AET = Actual evapotranspiration

PERC = Percolation

delta W.T. = PERC + delta ST - AET

TABLE 3 - 2

MONTHLY WATER BALANCE
1991

SENECA ARMY DEPOT
ASH LANDFILL GROUNDWATER MODEL

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Mean Temp. (°F)	22.5	23.4	32.0	44.8	54.5	64.6	69.1	66.9	60.6	50.4	39.4	27.9	46.3
Heat Index	0	0	0	1.7	4.0	7.0	8.5	7.8	5.8	2.9	0.7	0.0	38.4
Unadj. PET (in)	0.000	0.000	0.000	0.039	0.079	0.118	0.134	0.126	0.102	0.063	0.024	0.000	
Corr. Factor	24.6	24.6	30.9	33.6	37.8	38.1	38.4	35.7	31.2	28.5	24.6	23.7	
Adj. PET (in)	0.0	0.0	0.0	1.3	3.0	4.5	5.1	4.5	3.2	1.8	0.6	0.0	24.0
P (in)	1.54	1.13	2.59	4.60	1.87	0.89	3.38	3.29	2.62	2.68	3.63	2.10	30.3
Corr. P (in)	0	0	4.5	5.4	1.9	0.9	3.4	3.3	2.6	2.7	3.6	2.1	30.3
C R/O	0.22	0.22	0.22	0.22	0.20	0.18	0.18	0.18	0.18	0.18	0.20	0.22	
R/O (in)	0.0	0.0	1.0	1.2	0.4	0.2	0.6	0.6	0.5	0.5	0.7	0.5	6.0
I (in)	0.0	0.0	3.5	4.2	1.5	0.7	2.8	2.7	2.1	2.2	2.9	1.6	24.3
I-PET(in)	0.0	0.0	3.5	2.9	-1.5	-3.8	-2.4	-1.8	-1.0	0.4	2.3	1.6	0.3
neg (I-PET)					-1.5	-5.3	-7.6	-9.4	-10.5				
ST (in)	3.9	3.9	3.9	3.9	2.7	1.0	0.6	0.4	0.2	0.6	3.0	3.9	
delta ST (in)	0.0	0.0	0.0	0.0	-1.2	-1.7	-0.5	-0.2	-0.1	0.4	2.3	0.9	
AET (in)	0.0	0.0	0.0	1.3	2.7	2.4	3.2	2.9	2.3	1.8	0.6	0.0	17.2
PERC (in)	0.0	0.0	3.4	2.9	-0.0	0.0	-0.0	-0.0	-0.0	0.0	0.0	0.7	7.0
delta W.T. (feet)	0.0	0.0	1.0	0.4	-1.1	-1.1	-1.0	-0.9	-0.7	-0.4	0.5	0.5	

TABLE 3 - 2

MONTHLY WATER BALANCE
1992

SENECA ARMY DEPOT
ASH LANDFILL GROUNDWATER MODEL

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Mean Temp. (°F)	22.5	23.4	32.0	44.8	54.5	64.6	69.1	66.9	60.6	50.4	39.4	27.9	46.3
Heat Index	0	0	0	1.7	4.0	7.0	8.5	7.8	5.8	2.9	0.7	0.0	38.4
Unadj. PET (in)	0.000	0.000	0.000	0.039	0.079	0.118	0.134	0.126	0.102	0.063	0.024	0.000	
Corr. Factor	24.6	24.6	30.9	33.6	37.8	38.1	38.4	35.7	31.2	28.5	24.6	23.7	
Adj. PET (in)	0.0	0.0	0.0	1.3	3.0	4.5	5.1	4.5	3.2	1.8	0.6	0.0	24.0
P (in)	1.54	1.56	3.22	2.90	3.27	2.93	8.81	3.20	5.25	3.04	3.22	2.90	41.8
Corr. P (in)	0	0	5.4	3.8	3.3	2.9	8.8	3.2	5.3	3.0	3.2	2.9	41.8
C R/O	0.22	0.22	0.22	0.22	0.20	0.18	0.18	0.18	0.18	0.18	0.20	0.22	
R/O (in)	0.0	0.0	1.2	0.8	0.7	0.5	1.6	0.6	0.9	0.5	0.6	0.6	8.1
I (in)	0.0	0.0	4.2	3.0	2.6	2.4	7.2	2.6	4.3	2.5	2.6	2.3	33.7
I-PET(in)	0.0	0.0	4.2	1.7	-0.4	-2.1	2.1	-1.9	1.1	0.7	2.0	2.3	9.7
neg (I-PET)					-0.4	-2.5		-1.9					
ST (in)	3.9	3.9	3.9	3.9	3.5	2.0	3.9	2.4	3.5	3.9	3.9	3.9	
delta ST (in)	0.0	0.0	0.0	0.0	-0.4	-1.5	1.9	-1.5	1.1	0.4	0.0	0.0	
AET (in)	0.0	0.0	0.0	1.3	3.1	3.9	5.1	4.1	3.2	1.8	0.6	0.0	23.1
PERC (in)	0.0	0.0	4.2	1.7	0.0	0.0	0.2	0.0	0.0	0.3	2.0	2.3	10.6
delta W.T. (feet)	0.0	0.0	1.2	0.1	-1.0	-1.5	-0.8	-1.6	-0.6	-0.3	0.4	0.6	

3.5.7.3 Competent Shale Aquifer

The historical data base for the competent shale aquifer is very limited. Historical water table elevations are available for only one well (PT-10) which is believed to be screened in the competent shale. Seasonally this well shows the same magnitude of fluctuations in water table elevation as the till/weathered shale wells. As the competent shale aquifer does not appear to be a significant contributor to the transport of pollutants, the influence of this aquifer on the conceptual model is considered to be minimal.

4.0 CONCEPTUAL MODEL

This section will describe the conceptual model that was developed prior to the initiation of modeling activities. The conceptual model for the Ash Landfill has two main components associated with it. The first component includes aspects of the model associated with flow conditions and the hydrogeological setting. The second component includes aspects associated with the fate and transport of the chlorinated organic compounds present in the groundwater. The complete conceptual model will present a thorough understanding of these two aspects so that the modeling will be consistent with and will represent, as much as possible, the actual flow and transport systems at the Ash Landfill.

The intent of the conceptual model is to integrate the physical hydrogeological setting at the site into a simplified, yet representative, depiction of the various hydrological units to be modeled. The conceptual model will also define the vertical and horizontal boundaries of the modeling effort. The conceptual model is significant because the numerical model grid is a mathematical representation of the site conditions and is based upon the conditions of the conceptual model.

The conceptual model was developed following an evaluation of soil and groundwater stratigraphy data collected from the Ash Landfill RI. The Ash Landfill site is located approximately halfway between the SEDA topographic high of 760 feet MSL and Seneca Lake, which has an elevation of approximately 455 MSL. There are no other high points between these two points. Groundwater flow in the overlying glacial till is known to follow the slope of the land surface and, therefore, groundwater is expected to flow from the topographic high area, past the Ash Landfill site, eventually discharging into Seneca Lake. The direction of flow would be from east to west.

Based upon this information, the area to be modeled included an area beyond the Ash Landfill site, encompassing the western flank of the highlands separating Seneca and Cayuga Lakes. The eastern highland area is considered to be a groundwater divide between the two finger lakes; this area is also believed to be a likely recharge zone for both the shallow till/weathered shale and deeper competent shale aquifers. Seneca Lake is the likely discharge area for horizontal groundwater flow for the two aquifer systems. The eastern and western boundaries of the conceptual model are approximately 24,000 feet apart, extending from the groundwater divide to the surface of Seneca Lake. The groundwater divide represents a no-flow boundary condition, whereas Seneca Lake represents a constant-head boundary condition. The boundary conditions along the northern and southern edges of the modeling grid are defined as no-flow conditions represented by groundwater

streamlines. Flow is assumed to be parallel to the streamlines, with no flow across these streamlines. This is consistent with the conceptual model since groundwater at the site is known to flow in an east-to-west direction. Streamlines have been established that are sufficiently wide to encompass the area to be modeled. These streamlines provide the northern and southern boundaries of the conceptual model grid covering an area 6,800 feet wide. The total area to be modeled is approximately 3,750 acres.

4.1 DEFINITION OF HYDROSTRATIGRAPHIC UNITS

Geologic information including geologic maps, soil boring and rock coring logs were combined with information describing hydrogeologic properties of the stratigraphic units identified at this site. Anderson and Woessner (1992) define hydrostratigraphic units as geologic units with similar hydrogeologic properties.

Two hydrostratigraphic units were identified for this model. The first unit is the till/weathered shale unit and the second unit competent shale unit. These two geologic units have different depositional environments that account for the movement of water through these units. The shale was deposited in an inland sea during the Devonian Period, approximately 400 million years before present (ybp), whereas the till was deposited directly by a continental glacier that advanced over the Finger Lakes region approximately 10,000 ybp. As a result, these two units have separate and distinct compositional and hydrologic properties.

The first and uppermost hydrostratigraphic unit is glacial till and weathered shale. Till is a geologic term that refers to an unsorted mixture of variable geologic material that was deposited at the base of the advancing glacier. The till at the facility is a dense, poorly sorted mixture of predominantly silt and clay with lesser amount of sand and gravel. Upper portions of the till are generally less dense than the lower portions, probably due to greater exposure to weathering processes. The base of the till contains clasts of shale that are likely ripped-up clasts incorporated into the till by the glacier. No vertical or horizontal fracturing was observed in the till. The till gives way to a weathered shale that contains variable amounts of silt and clay in centimeter-scale bedding plane fractures. The weathered shale is generally only a few feet thick at the site. From previous drilling efforts conducted at the Ash Landfill site and other sites at SEDA, it is known that the till/weathered shale unit has an average thickness of approximately 12 feet. The till/weathered shale unit has an average horizontal hydraulic conductivity (K_h) of 3.7×10^{-4} cm/sec (Table 4-1).

The second hydrostratigraphic unit is the competent shale. This shale is a gray calcareous shale of the Ludlowville Formation, characterized by thin limestone units, fossil beds, and minor deposits of iron sulfides. Bedding plane fractures, joints and breccia zones all contribute to secondary porosity in the shale. Generally, fracture frequency decreases with depth. The competent shale unit has an average K_h of 4.2×10^{-5} cm/sec (Table 4-1).

The data indicates that hydraulic conductivity values in the till\weathered shale are greater than those measured in the competent shale, and hydraulic conductivity values continue to decrease within the competent shale unit with depth (Figure 4-1). Since the hydraulic conductivities of these two units differ by more than an order of magnitude, it was decided that these two lithologic units would be modeled separately. Further evidence for differentiating these two hydrostratigraphic units is supported by the vertical connection testing performed on paired wells and well clusters at the Ash Landfill site. A comparison of drawdowns in the wells indicated that the degree of vertical connection within the competent shale aquifer is better than the connection observed between the till/weathered shale and competent shale aquifers. Thus, the results indicate that the till/weathered shale aquifer is not significantly connected to the competent shale aquifer below it.

Note in Figure 4-1 that a hydraulic conductivity was extrapolated for a zone below the deepest bedrock monitoring wells installed on-site (between 52 and 72 feet) using the three average hydraulic conductivities measured for the shallower zones (Figure 4-1). On the basis of these results four proposed model layers were identified (Figure 4-1). These layers correspond to the till/weathered shale layer, the upper portion of the competent bedrock, the middle portion of the bedrock and the lower portions of the competent bedrock. In Section 4.3, the three average hydraulic conductivities and the one extrapolated conductivity were used to define the bottom of the flow model.

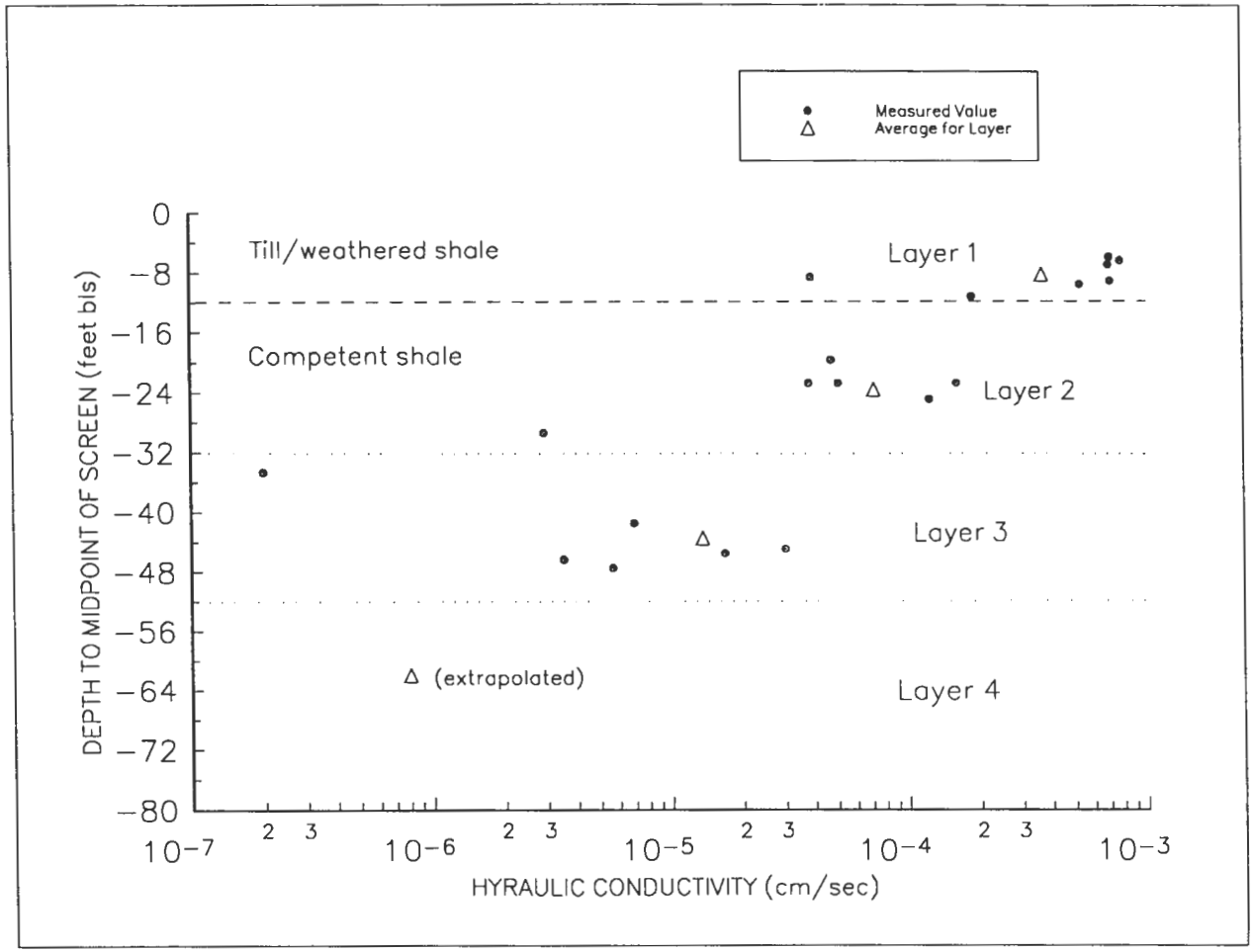
Vertical hydraulic conductivities (K_v) were derived from literature values and from the physical make up of the aquifer material (Table 4-1). For layer 1, the K_v was based on a anisotropy of K in a fine-grained till aquifer in western New York State where K_h/K_v is 9 (Prudic, 1992). For

TABLE 4 - 1

STATISTICAL PARAMETERS OF HYDRAULIC CONDUCTIVITY

SENECA ARMY DEPOT
ASH LANDFILL GROUNDWATER MODEL

		Kh (cm/sec)	Kh (ft/day)	Kv (cm/sec)	Kv (ft/day)
Layer 1 (proposed)					
Till/Weathered Shale		3.090E-05	0.09	3.433E-06	0.01
		7.800E-04	2.21	8.667E-05	0.25
		1.847E-04	0.52	2.052E-05	0.06
		5.258E-04	1.49	5.842E-05	0.17
		7.066E-04	2.00	7.851E-05	0.22
		3.871E-05	0.11	4.301E-06	0.01
		7.031E-04	1.99	7.812E-05	0.22
	Minumum	3.090E-05	0.09	3.433E-06	0.01
	Maxiumum	7.800E-04	2.21	8.667E-05	0.25
	Arith. Mean	3.650E-04	1.03	4.055E-05	0.11
	Stand. Dev.	3.430E-04	0.97	3.811E-05	0.11
		Kh (cm/sec)	Kh (ft/day)	Kv (cm/sec)	Kv (ft/day)
Layer 2 (proposed)					
Competent Shale		4.719E-05	0.13	4.719E-06	0.01
		1.222E-04	0.35	1.222E-05	0.03
		1.595E-04	0.45	1.595E-05	0.05
		5.044E-05	0.14	5.044E-06	0.01
		3.786E-05	0.11	3.786E-06	0.01
	Minumum	3.786E-05	0.11	3.786E-06	0.01
	Maxiumum	1.595E-04	0.45	1.595E-05	0.05
	Arith. Mean	7.142E-05	0.20	7.142E-06	0.02
	Stand. Dev.	5.902E-05	0.17	5.902E-06	0.02
		Kh (cm/sec)	Kh (ft/day)	Kv (cm/sec)	Kv (ft/day)
Layer 3 (proposed)					
Competent Shale		6.934E-06	0.02	6.934E-07	0.002
		5.639E-06	0.02	5.639E-07	0.002
		3.505E-06	0.01	3.505E-07	0.001
		1.671E-05	0.05	1.671E-06	0.005
		3.004E-05	0.09	3.004E-06	0.009
	Minumum	3.505E-06	0.01	3.505E-07	0.001
	Maxiumum	3.004E-05	0.09	3.004E-06	0.009
	Arith. Mean	1.344E-05	0.04	1.344E-06	0.004
	Stand. Dev.	1.271E-05	0.04	1.271E-06	0.004
Layer 4 (proposed)					
Competent Shale		(NO MEASUREMENTS FROM THIS LAYER)			



PARSONS
PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE
SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

OFFICE	DWG NO.
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 4-1
HYDRAULIC CONDUCTIVITY VERSUS DEPTH AT THE ASH LANDFILL

SCALE	DATE
NA	OCTOBER 1995

GRAPHICS\SENECA\ASHMODEL\HCVSDPTH.CDR

layers 2 and 3, the Kv values were derived based on an anisotropy of K in the aquifer where Kh/Kv is estimated to be approximately 10.

4.2 WATER BALANCE FROM PRECIPITATION

The fate and transport of the constituents of concern is influenced by the interaction with precipitation, the recharge to groundwater and the migration with groundwater. Moisture content in the vadose zone of soil can also influence the rate of biological degradation and the rate of volatilization. Accordingly, understanding the water balance of the site is helpful in evaluating the contaminant fate and transport at the Ash Landfill. The initial water balance performed prior to conducting the modeling effort was developed for this site using the rational method described by the U.S. EPA (1975). This procedure calculates infiltration as the difference between precipitation and runoff. Recharge to groundwater is the difference between the amount of water that infiltrates into the ground minus the actual evapotranspiration and any changes in soil moisture. The results of these calculations, which are based on average temperature and precipitation data for the years 1958-1991, are summarized in Table 4-2. A comprehensive discussion of the weather data is presented in Table 3-1, and discussed in Section 3 of this report.

The potential evapotranspiration (PET), was estimated using the procedure described by Thornthwaite and Mather (1957). Evapotranspiration is an estimate of the amount of water which is released from the site through both evaporation and plant uptake (transpiration). The methodology begins by determining the Heat Index, which is obtained from either Table 1 or 2 presented by Thornthwaite and Mather (1957). Mean monthly temperature data was obtained from the nearby meteorological station, the Aurora Research Farm, which is operated by Cornell University. The data is shown on Line 1 on Table 4-2. The monthly Heat Indexes are shown on Line 2 of Table 4-2. Heat Indexes are zero when the mean monthly temperature is less than 32°F. From the sum of the monthly Heat Indexes, the unadjusted potential evapotranspiration is obtained from either Table 3 or 4 presented by Thornthwaite and Mather (1957). The unadjusted potential evapotranspiration values are presented on Line 3 of Table 4-2. To change the unadjusted values of potential evapotranspiration into the adjusted monthly potential evapotranspiration, the unadjusted values were multiplied by a correction factor. The correction factor is expressed in terms of a 12-hour day, which provides an indication of the duration of sunlight for a particular month. Correction factors for the unadjusted potential evapotranspiration are obtained from Table 6 of Thornthwaite and Mather (1957) and depend upon the latitude of the site. This value is presented

TABLE 4-2

MONTHLY WATER BALANCE

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

Line #	*Parameter*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Sep*	*Oct*	*Nov*	*Dec*	*Annual*
1	Mean Temp. (°F)	22.5	23.4	32.0	44.8	54.5	64.6	69.1	66.9	60.6	50.4	39.4	27.9	46.3
2	Heat Index	0	0	0	1.7	4.0	7.0	8.5	7.8	5.8	2.9	0.7	0.0	38.4
3	Unadj. PET (in)	0.000	0.000	0.000	0.039	0.079	0.118	0.134	0.126	0.102	0.063	0.024	0.000	
4	Corr. Factor	24.6	24.6	30.9	33.6	37.8	38.1	38.4	35.7	31.2	28.5	24.6	23.7	
5	Adj. PET (in)	0.0	0.0	0.0	1.3	3.0	4.5	5.1	4.5	3.2	1.8	0.6	0.0	24.0
6	P (in)	1.88	2.16	2.45	2.86	3.17	3.70	3.46	3.18	2.95	2.80	3.15	2.57	34.3
7	Corr. P (in)	0	0	7.1	4.8	3.2	3.7	3.5	3.2	3.0	2.8	3.2	0	34.3
8	C R/O	0.22	0.22	0.22	0.22	0.20	0.18	0.18	0.18	0.18	0.18	0.20	0.22	
9	R/O (in)	0.0	0.0	1.6	1.1	0.6	0.7	0.6	0.6	0.5	0.5	0.6	0.0	6.8
10	I (in)	0.0	0.0	5.5	3.8	2.5	3.0	2.8	2.6	2.4	2.3	2.5	0.0	27.5
11	I-PET(in)	0.0	0.0	5.5	2.5	-0.4	-1.5	-2.3	-1.9	-0.8	0.5	1.9	0.0	3.5
12	neg (I-PET)					-0.4	-1.9	-4.2	-6.1	-6.9				
13	ST (in)	3.1	3.1	3.9	3.9	3.5	2.4	1.3	0.8	0.7	1.2	3.1	3.1	
14	delta ST (in)	0.0	0.0	0.8	0.0	-0.4	-1.1	-1.1	-0.5	-0.1	0.5	1.9	0.0	
15	AET (in)	0.0	0.0	0.0	1.3	3.0	4.1	3.9	3.1	2.5	1.8	0.6	0.0	20.4
16	PERC (in)	0.0	0.0	4.7	2.5	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	7.1

References:
1. Thornthwaite and Mather, 1957. Instructions and Tables for Computing Potential Evapotranspiration and the Water Balance.
2. EPA, 1975. Use of the Water Balance Method for Predicting Leachate Generation from Solid Waste Disposal Sites.

Notes:
1. Mean temperatures (from Table 3.1, Section 3, of this report)
2. Heat index values (from Tables 1 and 2 of Thornthwaite and Mather, 1957)
3. PET = Potential Evapotranspiration (from Tables 3 and 4 of Thornthwaite and Mather, 1957)
4. Correction factors (from Table 6 of Thornthwaite and Mather, 1957)
5. Adj. PET = Unadj. PET times Correction Factor
6. P = Precipitation (from Table 3.1, Section 3, of this report)
7. Corr. P = Corrected precipitation (rain + melting snow)
8. C R/O = Surface Runoff Coefficient (from EPA, 1975)
9. R/O = Surface Runoff
10. I = Infiltration
11. I-PET = Infiltration minus Potential Evapotranspiration
12. neg (I-PET) = Accumulated Potential Water Loss
13. ST = Soil Moisture Storage (Maximum value of 3.9" obtained from Table 10 of Thornthwaite and Mather, 1957., Other values obtained from Table 9 of EPA, 1975.)
14. delta ST = Change in Storage
15. AET = Actual evapotranspiration
16. PERC = Percolation

on Line 4 of Table 4-2. The adjusted Potential Evapotranspiration (PET) is then calculated as the product of Lines 3 and 4 of Table 4-2.

When the mean monthly temperatures were below 32° F, the monthly precipitation values were then corrected to account for precipitation as snowfall in the months of December through March. It was assumed that all of the snowfall remained on the ground as snow, with no evaporation, infiltration, or runoff until March when the snow began to melt. It was also assumed that 60% of the snow (the total precipitation for December, January, and February) melted in March, and therefore entered the water balance as precipitation in addition to the normal monthly precipitation for March. The remaining 40% of the accumulated snowfall was assumed to melt in April.

The total monthly precipitation was then adjusted to account for the percent of water which runs off as overland flow. Line 8, in Table 4-2, contains the Runoff Coefficient, C_{RO}. This coefficient is a measure of the amount of precipitation that will runoff from any given area, and will depend on the soils, vegetation, and slopes found at a site. Generally, C_{RO} values range from 0.05 to 0.35 (U.S. EPA, 1975). At the Ash Landfill, the surface soils are primarily silty clay loams, as described in Section 3.0. Much of the area is covered with native grasses, though some of the road areas have no vegetative cover. The site slopes generally range from 1 to 3%. For these conditions, the C_{RO} values range from 0.13 (less than 2% slope) to 0.22 (2-7% slopes). Following EPA guidance (1975), a higher C_{RO} (0.22) was used for the cooler months, and a lower value (0.18) was used for the warmer months. For the transitional months, (May and November), a value of 0.20 was used.

Infiltration (I), Line 10, is calculated as the difference between the monthly corrected precipitation values, Line 7, and the calculated runoff values, Line 9. Infiltration (Line 10) minus the adjusted potential evapotranspiration values, Line 5, yields I-PET, Line 11. This value was used to assess periods of time when the soil moisture is decreasing. A positive value of I-PET indicates the amount which is available to increase soil moisture or percolate to groundwater. Negative values indicates that potential evapotranspiration exceeds infiltration and there is a net decrease in the soil moisture.

Soil moisture (ST) is a measurement of the available field moisture and is related to soil type. The available moisture is obtained as the difference between the field capacity, i.e. the point at which water will drain by gravity, and the wilting point, i.e. the point at which water is unavailable for plant uptake. The soil types on the site are silt clay loam, as discussed in Section 3.0 of this report. From Table 10 of the Thornthwaite and Mather (1957), the field capacity for a silty clay loam is

approximately 3.6 inches per foot of root zone. The wilting point for a silty clay loam is approximately 1.2 inches per foot of root zone. The available soil moisture (ST) is the difference of 3.6 and 1.2 inches per foot, or 2.4 inches per foot of root zone. Hutton (1972) indicates that the root zone for this area is generally between 18 to 24 inches deep. This analysis used 1.62 feet (19.4 inches) as the root zone; therefore, the ST value used in these calculations was 3.9 inches (Line 13), or the product of 2.4 inches per foot of root zone and 1.62 feet of root zone. This initial value is assigned to the last month having a positive value of I-PET, which is the month of April. In other words, the last month that the field capacity of the soil was achieved and drainage occurred was April, and the value of 3.9 inches was set for this month. The water balance program then proceeded to calculate the ST for the remaining months.

The Actual Evapotranspiration (AET) (Line 15) is calculated only when the change in soil moisture is negative. The change is soil moisture is presented on Line 14. If the Heat Index (Line 2) is zero, then the AET is also zero. In other words, when the temperature is below freezing there is no AET. If the ST, Line 13, is equal to the field capacity, which is the maximum value ST can be, then the AET equals the Adjusted PET, Line 5. Therefore, the AET is greatest when the soil moisture is greater. When the change in soil moisture is negative (i.e., the soil moisture is decreasing), the AET is calculated as:

$$AET = PET + (I - PET - \Delta ST)$$

where: AET = Actual Evapotranspiration (Line 15);
PET = Adjusted Potential Evapotranspiration (Line 5);
I-PET = Infiltration minus Adjusted Potential Evapotranspiration (Line 11); and
ΔST = Change in Soil Moisture (Line 14).

Percolation (PERC) (Line 16), which is recharge to the groundwater, is calculated as the remainder when the change in soil moisture (Line 14) and the AET (Line 15) is subtracted from I (Line 10).

The results of the water balance analysis indicates that much of the runoff and almost all of the percolation (groundwater recharge) occur in March and April, during the snow melt period. There is continued runoff throughout the time period when the temperature stays above freezing, however, recharge is eliminated by the large amount of water that is released to the atmosphere through evapotranspiration; the average annual evapotranspiration at the site is 20.4 inches. These

estimates are consistent with observations made at the site regarding runoff and groundwater elevation changes. During field operations, runoff was observed following any major rainfall event. This observation is consistent with expectations since the dense, clay-rich till prevents rapid infiltration. With respect to the groundwater, water levels measured in the spring have historically been the highest, with the levels dropping substantially throughout the summer months. Changes in water levels of three to four feet per month have been observed. During the late summer and early fall, the water table is the lowest, and in some instances the water level appears to be close to the top of the competent bedrock. Water levels in the late fall and winter are generally on the rise due to late fall precipitation and snow melting events, but they are not as high as those measured in the spring, when a combination of increased precipitation and snow melting occurs.

Using the annual runoff value developed from the water balance (6.8 inches) and the surface area of the Ash Landfill site, which is approximately 130 acres, the total annual amount of potential runoff is 74 acre-feet (24 million gallons) per year. Much of this flow is captured and diverted away from the site by the surface drainage swales which line the edges of the roads surrounding the site, while some is retained on-site in the freshwater wetlands and low spots.

To provide a check of the average annual evapotranspiration (ET) rate calculated by the Thornthwaite and Mather (1957) method in the water balance, an evapotranspiration computer model, developed and executed by the Northeast Regional Climate Center at Cornell University, was run. This general ET model was developed based on the British Meteorological Office Rainfall and Evaporation Calculation System (MORECS).

According to DeGaetano et al. (1994), MORECS is used "operationally in Great Britain to obtain weekly and monthly estimates of average evaporation and soil moisture deficits over 40 km x 40 km grid squares. The system relies on routinely observed daily meteorological data as its input." Moreover, MORECS determines potential and actual ET over a variety of different surface types. The Northeast Regional Climate Center model has been modified and validated for use in the northeastern United States by DeGaetano et al. (1994). Using MORECS, "historical and real-time estimates of potential ET from grass, evapotranspiration from bare soil and standard evaporation pans, as well as actual ET from grass- and deciduous tree-covered surfaces are available" (DeGaetano et al., 1994).

For application to the Ash Landfill, actual ET rates from a grass-covered surface were chosen as the most appropriate for the site. Meteorological data from Ithaca, New York was used for the

model because this was the closest location that could provide the necessary input data for the model; Ithaca is approximately 20 miles south of the Ash Landfill. The model evaluated meteorological data for the years 1984 through 1994 and derived the monthly total evapotranspiration from a grass-covered field (Table 4-3). The average yearly total evapotranspiration for the grass-covered field is 21.19 inches. This compares favorably with the total evapotranspiration value calculated using the Thornthwaite and Mather (1957) method of 20.40 inches. Details of the MORECS model are included in Appendix A.

While there is close agreement between both of these models, neither accounts for ET from groundwater after percolation has occurred. The importance of this effect is discussed in the Section 4.3, Preliminary Water Budget (Q_{in} vs Q_{out}). This effect has required modification of the initial conceptual model to account for the difference between the amount of water that will recharge to groundwater and the amount of water that is removed by evapotranspiration.

4.3 PRELIMINARY WATER BUDGET (Q_{in} vs Q_{out})

A preliminary field-estimated water budget was prepared for the area to be modeled based on the expected sources of water to the system as well as the expected flow directions and discharge areas. This preliminary water budget was prepared to obtain information on the magnitudes of these flows prior to running the model. It was also used as a calibration criteria for the water budget computed by the model.

The field-estimated water budget encompassed an area equal in size to the area to be modeled. The eastern boundary was the groundwater divide (no flow boundary) between Seneca and Cayuga Lakes (near Route 96) and the western boundary was Seneca Lake (constant head boundary) (Figure 2-1). Because groundwater topographic maps for the site and surrounding area indicate a fairly consistent east to west flow direction, the northern and southern boundaries were streamline no-flow boundaries.

Based on the boundary conditions, recharge to the aquifer system is wholly from precipitation and groundwater flow is from east to west, eventually discharging into Seneca Lake. The total area of the region modeled was 150,413,697 ft^2. The annual recharge from precipitation as determined

TABLE 4-3

MONTHLY EVAPOTRANSPIRATION FROM GRASS
IN ITHACA, NY

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

Year / Month	1984 (inches)	1985 (inches)	1986 (inches)	1987 (inches)	1988 (inches)	1989 (inches)	1990 (inches)	1991 (inches)	1992 (inches)	1993 (inches)	1994 (inches)
January	0.24	0.22	0.28	0.24	0.27	0.37	0.33	0.30	0.27	0.24	0.17
February	0.53	0.39	0.31	0.55	0.48	0.35	0.53	0.47	0.22	0.43	0.54
March	0.80	1.28	1.20	1.65	1.26	1.19	1.27	1.00	0.67	0.93	0.87
April	1.80	2.00	2.17	1.96	1.73	1.91	1.99	2.08	1.64	1.57	1.93
May	2.12	3.48	3.71	3.46	3.20	2.51	2.52	4.03	2.84	3.43	2.64
June	4.30	3.15	3.38	3.51	4.39	3.02	3.60	3.65	3.51	3.42	4.20
July	4.26	4.10	3.49	4.19	3.43	4.51	3.81	3.38	2.35	4.09	4.05
August	3.39	2.77	3.34	3.08	3.33	3.27	3.10	2.03	2.91	3.00	2.97
September	2.37	2.38	2.00	1.52	2.57	2.04	2.03	1.04	2.21	1.53	2.05
October	1.30	1.27	0.93	1.09	0.94	1.41	1.10	1.44	1.14	1.11	1.45
November	0.52	0.32	0.40	0.51	0.53	0.33	0.69	0.53	0.43	0.42	0.61
December	0.32	0.21	0.27	0.28	0.34	0.25	0.31	0.30	0.28	0.40	0.41
TOTAL (inches):	21.95	21.57	21.48	22.04	22.47	21.16	21.28	20.25	18.47	20.57	21.89

ARITHMATIC MEAN: 21.19 inches

from the water balance is 7.1 inches (0.592 ft). To calculate the total recharge to the aquifer systems (Q_{in}) the total area was multiplied by the annual amount of recharge from precipitation;

$$Q_{in} = AREA_{\text{mod}} \times RECHARGE_{ppt}$$

where:

Q_{in} = total recharge to the aquifer system, (ft^3/day);
$AREA_{mod}$ = total area of the model, (ft^2) and
$RECHARAGE_{ppt}$ = amount of recharge from precipitation, (ft/yr).

This yield an estimate of Q_{in} at approximately 89,045,000 ft^3/yr or 244,000 ft^3/day or 1,825,000 gallons/day.

The volume of water flowing into Seneca Lake (Q_{out}) was calculated based on the expected flow through the 4 layers identified shown in Figure 4-1. The darcy flow through each of these four layers was determined using the average hydraulic conductivity of each layer, their depths relative to the ground surface, their cross-sectional areas, and the observed ground water gradients as shown on Table 4-4.

Layer 1, the till weathered shale unit, is approximately 12 feet thick and has an average saturated thickness of 6 feet. A layer thickness of 20 feet was used for the layer thicknesses of the three competent shale units because this is the interval for which the data was available from the monitoring wells at the Ash Landfill site; these units are fully saturated.

The flow for each proposed layer was calculated using the flow equation:

$$Q_{out} = KAI$$

where: Q_{out} = flow out of the layer;
K = horizontal hydraulic conductivity (K_h), (ft/day);
A = cross-sectional area though which the flow occurs, (ft^2); and
I = groundwater gradient.

The individual components of total Q_{out} are 1,139.99 ft^3/day, 922.33 ft^3/day, 184.47 ft^3/day, and 10.61 ft^3/day for layers 1, 2, 3 and 4, respectively (Table 4-4). The total volume of water flowing into Seneca Lake from these layers was calculated to be 2,257 ft^3/day. The flow calculations are included in Appendix B.

To reasonably define the bottom of the flow system to be modeled, the percentage of flow within the individual layers was compared to the overall aquifer flow into Seneca Lake. Based on these calculations, the contribution of flow from layer 4 (approximately 0.5%) was determined to not be significant when compared to the total flow through the system and ,therefore, a fourth layer was not considered in the numerical MODFLOW model. From a modeling perspective, this method of determining a practical bottom of the flow system should not compromise the representation of the flow system.

Clearly, when Q_{in} (244,000 ft^3/day) from precipitation is compared to Q_{out} (2,257 ft^3/day) at the discharge point, Seneca Lake, there is an obvious discrepancy. This required a modification of the initial conceptual model in order to account for this difference. To do this an additional component of the conceptual model, evapotranspiration from groundwater, must be considered in order to account for the apparent discrepancy. Conceptual model assumptions, such as boundary conditions, groundwater flow parameters, etc., are believed to represent the flow system accurately as these parameters are derived from measured values. As discussed earlier in this section, the groundwater flow system can only transport a finite amount of groundwater, which is not the amount of water that would result from 7 inches of recharge per year. Instead, the discrepancy is believed to be caused by the inability of the Thornthwaite and Mather (1957) water balance method to account for evapotranspiration from groundwater after recharge has occurred, a phenomena that appears to be significant at the Ash Landfill site. This phenomena occurs from the upward movement of groundwater in the shallow, fine-grained till aquifer due to capillary action, which eventually transpires and/or evaporates into the atmosphere. This is considered to be a key factor that must be accounted for in the Ash Landfill conceptual model.

To evaluate whether the evaporative loss of groundwater is a valid concept at the Ash Landfill, historical groundwater data and possible mechanisms by which water could be lost from the aquifer system were evaluated. First, historical groundwater observations from monitoring wells appear to be in agreement with the recharge value derived from the Thornthwaite and Mather (1957) method. Secondly, it would appear that evapotranspiration from groundwater is the only possible mechanism by which water could be lost from the aquifer.

TABLE 4-4

DATA USED IN PRELIMINARY WATER BUDGET CALCULATION

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

Proposed Layer	Composition	Stratigraphic Depth (ft bls)	Hydraulic Conducitivity (ft/day)	Cross-Sectional Area (square ft)	Groundwater Gradient (ft/ft)	Qout (cubic ft/day)	Percentage of Total Qout
1	Till/W. Shale	0 to 12	1.03	55,339.68	0.02	1,139.99	50.5%
2	Competent Shale	12 to 32	0.2	184,465.60	0.025	922.33	40.9%
3	Competent Shale	32 to 52	0.04	184,465.60	0.025	184.47	8.2%
4	Competent Shale	52 to 72	0.0023	184,465.60	0.025	10.61	0.5%
					Total Qout =	2,257.40	

To determine if the recharge value calculated using the Thornthwaite and Mather (1957) method was reasonable, seasonal increases in the saturated thickness of the till/weathered shale aquifer (Figure 3-8 and Table 3-1) was compared to the total annual percolation value of 7 inches. First, the amount of water that was added to the system from a period when the water table was low (late summer early fall) to a period when the water table was high (late winter and spring) was determined. On the basis of the data shown in Table 3-1, the average change in the water table was 5.4 feet. The amount of percolation that would be required to cause the water table to rise 5.4 feet would be obtained by multiplying the total rise in feet of water in the wells for a season by the effective porosity of the till, which is estimated to be approximately 0.15. The effective porosity was used because it represents the available space through which water can move, assuming some water would be bound up in the interstices of the till. Therefore, an 5-foot rise in the water table would require an infiltration of approximately 9 inches of water. Following the same line of reasoning, 7 inches of infiltration (which was calculated in the water balance) would result in a water level rise of 3.9 feet (7 inches ÷ 0.15 = 46.7 inches or 3.9 feet) or approximately 4 feet, which is close the average change observed from the well observations which was approximately 5 feet. Therefore, the infiltration value of 7 inches is considered to reasonably close to the observed changes in the saturated thickness of the till/weathered shale aquifer. This amount of infiltration, or more, would be required in order to be able to account for the seasonal rise in the water table observed in the wells on-site. This means that the Q_{in} (i.e., recharge) from precipitation is reasonable, based on the annual recharge of 0.59 feet (approximately 7 inches) taken from the water balance determined using the method of Thornthwaite and Mather (1957). Thus, based on a comparison of Q_{in} vs Q_{out}, significantly more water would have to be removed from the groundwater flow system in order for the two flows to balance.

Several mechanisms for the loss of water from the aquifer were considered for the conceptual model; horizontal, downward and upward movement were considered. First, the K_h values in the till are not believed to be high enough to transport the water horizontally and cause the observed decrease in the water table. Secondly, the poor vertical connection between the till and the competent shale aquifers suggests that downward movement of groundwater into the bedrock, as a means of removing water, is not reasonable. Therefore, the third concept, upward movement groundwater via evapotranspiration, was considered to be the most reasonable alternative, given the site conditions (i.e., the fine-grained nature of the till, shallowness of the till/weathered shale aquifer, the shallow depth of the water table, the open, vegetated land surface at the site, etc.).

The concept of evapotranspirative loss of groundwater from unconfined, fine-grained till aquifers to explain large fluctuations in the water table (especially where the water table is close to a vegetated land surface) is not uncommon and has been documented by many researchers (i.e., Jones et al., 1992; Cravens and Ruedisili, 1987; Hendry, 1988; and Keller et al., 1988) - Section 3.5.7.2 presents a detailed discussion of their findings. Furthermore, the characteristics and behavior of the aquifer flow system at the Ash Landfill suggest that this phenomenon is occurring at the Ash Landfill and in the surrounding area.

Thus, it is reasonable to conclude that a significant amount of the water that percolates into the groundwater flow system at the Ash Landfill is lost to evapotranspiration and is never discharged to Seneca Lake. The actual net recharge value (Q_{in}), recharge - evapotranspiration, based on the conceptual model information, would be approximately 1.6×10^{-5} ft/day (or 0.07 in/yr).

4.4 DEFINITION OF FLOW SYSTEM AND BOUNDARY CONDITIONS

A flow system is defined by hydrostratigraphy, hydrologic information, and geochemical data. The following is a description of the groundwater flow system in the vicinity of the Ash Landfill.

The groundwater flow system is primarily recharged by precipitation within Seneca County (Mozola, 1955). The traditional water balance would suggest that approximately 34.3 inches of rain falls in the region, with approximately 6.8 inches being lost to runoff, 20.4 inches being lost to evapotranspiration, and 7.1 inches allowed to percolate into the groundwater (Table 4-2). However, this does not account for the loss from groundwater, via evapotranspiration, once the percolation has recharged groundwater. It is clear from calculation of groundwater flow through the system that only a small percentage of the water that percolates to the groundwater actually moves throughout the entire length of the system. A large percentage is lost from the system though evapotranspiration from the water table. The shallow water table, the fine-grained nature of the till, and the relatively large fluctuations in the water table indicate that evapotranspiration likely plays a major role in removing water from the till/weathered shale aquifer system.

The flow of groundwater at the Ash Landfill occurs primarily through two hydrostratigraphic units; a till/weathered shale unit and a competent shale unit. Hydrologic data from these units provides a more complete definition of the flow system. Water level measurements from the till/weathered shale unit at five sites within the modeled area indicate that the general direction of groundwater flow is to the west toward Seneca Lake. At the Ash Landfill and at the Garbage Disposal Area

(SEAD-64D) sites, the groundwater flow direction is consistently to the west over an area that encompasses approximately 3/4 of the width of the area to be modeled. The flow direction in the competent shale at the Ash Landfill site is also to the west. In the eastern portion of the modeled area at SEAD-16, -17, -25, and -64A, groundwater flow directions are to the west and southwest (Figure 2-1) (Parsons ES, 1995a, 1995b, 1995c).

In the far eastern portion of the modeled area the combination of an easterly groundwater flow direction at SEAD-50 and a topographic high along Route 96 suggests the presence of a groundwater divide (Figure 2-1). In the south, the groundwater divide is defined by both the easterly groundwater flow and the topography. To the north along Route 96, the topography and drainage pattern of small intermittent streams define the location of the divide. Groundwater flow in the western portion of the modeled area is controlled by Seneca Lake, which is a large, stable water body whose surface elevation is approximately 455 feet above mean sea level.

The hydraulic conductivity of the layers helped to define the vertical extent of the flow system. Hydraulic conductivity data for the modeled area was obtained from slug tests that were performed in the till/weathered shale and in the competent shale at the Ash Landfill. Horizontal hydraulic conductivity values ranged from 7.8×10^{-4} cm/sec to 1.9×10^{-11} cm/sec. The data indicate that the conductivity values for the till/weathered shale are greater than those for the competent shale. The average hydraulic conductivity of the till/weathered shale unit is 3.7×10^{-4} cm/sec and for the competent shale it is 4.2×10^{-5} cm/sec. Also, within the competent shale aquifer conductivity values generally decrease with depth. Initially, three separate flow units were defined in the competent shale (Figure 4-1); a hydraulic conductivity value for the third flow unit in the shale was extrapolated from shallower data because no wells were screened at this depth. However, as part of the preliminary water budget calculations, the lowermost unit in the competent shale was eliminated from the model due to lack of a significant volume of flow in this unit compared to the total flow through the system. Therefore, for the purposes of this model, flow was modeled to a depth of 52 feet below the land surface.

No significant vertical gradients exist in the well clusters at the Ash Landfill. Although small upward and downward gradients were observed in some of the well, there is no dominant trend in the flow directions (Parsons ES, 1994a).

An important distinction in the flow system is that the competent shale, and its network of bedding plane fractures and joints, was considered an equivalent porous medium (EPM) in the groundwater

flow model. Fractured rock systems simulate EPM when the fracture apertures are constant, the fracture orientations are randomly distributed and the fracture spacing is small relative to the scale of the flow system (U.S. EPA, 1989). Generally, in the EPM approach the fractured rock is treated as if it were an unconsolidated porous media. The shale at the Ash Landfill is believed to approximate EPM because it is characterized by vertical and horizontal joints, and horizontal bedding plane fractures. The frequency and size of the bedding plane fractures decreases with depth based on an analysis of bedrock cores collected at the Ash Landfill; this is supported by a measured decrease is hydraulic conductivity with depth (Figure 4-1).

Merin (1992) characterized groundwater flow in fractured siltstone approximately 15 miles south of the site near Ithaca, New York based on a detailed analysis of rock cores, borehole geophysics and thin sections. The results of this analysis indicate that "groundwater flow is conceptualized as moving through vertical and horizontal planes of porosity, each of which is a fraction of a millimeter thick and extends for several inches to tens of meters in length." In addition, three zones of bedding plane fractures were delineated based on the vertical distribution of horizontal fractures, and the spacing between these horizontal fractures increases with depth. This supports the finding that hydraulic conductivities are higher in the upper portions of the bedrock. Furthermore, Merin (1992) argues that the vertical joints and horizontal bedding plane fractures are conduits in shallow bedrock and that groundwater flow might approximate EPM conditions. The data from the Ash Landfill site and nearby areas (e.g., Ithaca, NY) do not support a descrete fracture approach to modeling groundwater flow in the shale.

The validity of using the EPM approach to model contaminant transport is not well established. However, Pankow et al. (1986) evaluated the EPM approach at two fractured rock sites and they concluded that " the EPM approach would work well in describing contaminant transport for the system with small interfracture spacing and high enough matrix porosity and diffusion coefficient to rapidly establish matrix/fracture equilibrium."

In summary, three flow units were defined in the analysis of the flow system at the Ash Landfill site (Section 4.4) and therefore, the model consisted of 3 layers: layer 1 - till/weathered shale from 0 to 12 feet bls; layer 2 - competent shale from 12 to 32 feet bls; and layer 3 - competent shale from 32 to 52 feet bls.

Several types of boundary conditions were used for the model. The eastern model boundary was represented by a groundwater divide no-flow boundary as indicated by the topography, stream

drainage patterns, and groundwater flow directions established at nearby sites. Seneca Lake forms a constant head boundary at the western extent of the model. Between these two boundaries groundwater flow is essentially to the west as indicated by flow directions established at the Ash Landfill and five other sites within the modeled area. Thus, streamline no-flow boundaries were used to represent the northern and southern boundaries of the model.

4.5 CONTAMINANT FATE AND TRANSPORT

The constituents of concern (COCs) at this site include volatile chlorinated organic compounds that were within the boundaries of a well defined groundwater plume. These compounds include trichloroethene (TCE), cis- and trans-dichloroethene (DCE) and vinyl chloride (VC). These compounds have been detected in various monitoring wells at the site and have been monitored over time. From this database, various patterns are apparent which include:

- The total concentration of the COCs in the plume decreases with increasing distance from the source area.
- The direction of plume travel is consistent with the movement of groundwater.
- The ratio of TCE to the breakdown products changes as the distance from the source area increases.
- The concentration of individual COCs in various wells appears to remain constant over the period of groundwater monitoring.
- The boundaries of the plume do not appear to be expanding.

From this information and the analytical modeling that was performed during the RI, the hypothesis was suggested that degradation of the COC within the plume was occurring such that the plume had reached steady state conditions. In other words, the extent of the plume has not substantially changed because the rate of input of COCs equaled the removal of COCs by natural removal mechanisms. If the site conditions are supportive of biotic degradation it is likely that the indigenous microbial community is controlling the mass of COCs present in the plume. Given this hypothesis, the remedial strategy that this modeling effort would be used to support is one that would incorporate institutional controls in association with continued long-term monitoring of groundwater. This approach was deemed appropriate because source control was accomplished in the spring of 1995 and was successful in eliminating continued leaching of COCs to the groundwater system.

The COCs at the Ash Landfill are known to be resistant to aerobic microbial degradation. However, these compounds have been shown to be susceptible to degradation through a process called reductive dechlorination. Reductive dechlorination occurs under anaerobic conditions and is capable of removing halogens from compounds, in this case chlorine, to produce less toxic compounds. Reductive dechlorination is possible because unlike non-halogenated compounds, halogenated compounds are in an oxidized state due to the presence of the large electronegative chlorine group. This makes the organochloride molecule susceptible to reduction rather than oxidation. Thus, compounds with more chlorine atoms are more susceptible to reduction than compounds with fewer chlorine atoms. This process sequentially dechlorinates chlorinated organic molecules with compounds containing relatively large amounts of chlorine, such as TCE, being easier to dechlorinate than the (less chlorinated) breakdown products.

The process of dechlorination involves a transfer of electrons. Compounds that gain electrons are reduced whereas the compounds that donate electrons are oxidized. Oxygen is typically the electron acceptor for environmental oxidation processes; however, under anaerobic conditions the electron acceptors can be either other organic compounds or inorganic anions such as oxidized forms of sulfur, nitrogen, iron, or carbonate. For anaerobic (anoxic) bacteria to degrade chlorinated hydrocarbons, certain requirements for the environmental system must be met. These requirements include the following:

- availability of carbon sources (electron donors);
- presence of electron acceptors;
- essential nutrients;
- proper ranges of pH, temperature, and salinity;
- absence of dissolved oxygen; and
- proper redox potential.

With this essential information, it will be possible to evaluate the likelihood that biotic anaerobic dechlorination is active in controlling the migration of the dissolved COCs at the Ash Landfill

As part of the conceptual model development Parsons ES conducted an extensive field sampling program with the intention of obtaining data that will provide an understanding of the status of the biotic processes that are on-going at the site. Table 4-5 presents the parameters that were measured in the monitoring wells that were within the boundary of the groundwater plume. These parameters

TABLE 4-5

CHEMICAL PARAMETERS RELATED TO BIOTIC DEGRADATION

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

PARAMETER	METHOD OF ANALYSES	SIGNIFICANCE
Ferrous (Fe^{+2})	Colormetric HACH Kit	Presence of iron in the reduced, divalent state, may inidcate anaerobic reduction as ferric Fe^{+3}, an electron acceptor is reduced to ferrous, Fe^{+2}
Chloride (Cl^-)	EPA Method 300.0	General water quality parameter used as a marker of biogical dechlorination. Presence of chloride in areas of anaerobic dechlorination supports dechlorination process since chloride is being sequentially removed from the organic molecule and being released to the groundwater.
Specific Conductivity	EPA Method 120.1	General water quality parameter; useful to identify areas where leaching from the landfill could be occurring.
Alkalinity	EPA Method 310.1	General water quality parameter; provides an indication of the presence of carbonates. Carbonates could be an electron acceptor under anaerobic conditions.
Nitrate (NO_3^-)	EPA Method 300.0	Potential electron acceptor for anaerobic processes. Nitrate can be used as an electron acceptor by facilitative anaerobic microorganisms via either denitrification or direct nitrate reduction.
Nitrite (NO^-_2)	EPA Method 300.0	Presence of nitrite is an indication that dentrification process is ongoing.
Sulfate (SO_4=)	EPA Method 300.0	Possible electron acceptor in the anaerobic microbial degradation process.
Dissolved Sulfide (S=)	Standard Method 4500E	Product of sulfate-based anaerobic microbial respiration.
Redox Potential (E_h)	Standard Method 2580A	Redox potential influences the nature of the biologically produces degradation process. Indicator of the tendency of a solution to accept or transfer electrons. Anaerobic conditions exist at E_h values less than +750mV.
Methane	Robert S. Kerr Standard Operating Procedure (RSKSOP) - 175	Indicator of reducing conditions; product of anaerobic reduction of carbon dioxide.
Carbon Dioxide	RSKSOP-175	Possible source of electron acceptors during methanogenisis.
Ethane, Ethene	RSKSOP - 175	Products of biotransformation of chlorinated hydrocarbons; the presence of these compounds indicates that anaerobic degradation is occurring.
pH	EPA Method 150.1	General water quality parameter, for microbial dechlorination to occur; pH must be within acceptable range.
Dissolved Organic Carbon	EPA Method 415.1	May be source of electrons; acts as an electron donor during anaerobic dechlorination processes.

include alternative electron acceptors, general water quality parameters, and final end products of biotic degradation.

Field activities for collection of these data took place during June 1995. The results of these field efforts are summarized in Table 4-6. The results presented in Table 4-6 suggest that several alternative electron acceptors are available to complete the transfer of electrons through an anaerobic dechlorinative process. The concentration of carbonates, sulfate, and nitrate are high enough to suggest that these compounds could act as electron acceptors. Further, the COCs throughout the site may act as electron donors in the transfer of electrons, although, cometabolic mechanisms may also play a lesser role. General water quality parameters, such as pH, specific conductance, and chloride, all are within the range of what would be acceptable for biological growth. The redox potential values are within the range of what would be considered anaerobic, suggesting that anaerobic dichlorination could be occurring. Although the redox potential measured at SEDA does not indicate strongly anaerobic conditions at the time of measurement, it is nonetheless within the anaerobic range.

TABLE 4-6

BIODEGRADATION INDICATOR PARAMETER RESULTS

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

Monitoring Well	Ethene (mg/L)	Ethane (mg/L)	Methane (mg/L)	Chloride (mg/L)	CO2 (mg/L)	Spec. Cond. (umho/cm)	Ferrous (mg/L)	Sulfide (mg/L)
PT-10	<0.11	<0.08	<0.004	59.7	327	794	<0.01	<0.10
PT-17	<0.11	<0.08	<0.004	59.3	349	906	0.01	0.32
PT-18	<0.11	<0.08	0.424	57.7	629	1450	0.01	<0.10
PT-20	<0.11	<0.08	<0.004	67.1	331	954	0.01	<0.10
PT-22	<0.11	<0.08	<0.004	148	352	1230	<0.01	<0.1
PT-22 (Dup)	NA	NA	NA	NA	349	NA	NA	NA
MW-24	<0.11	<0.08	<0.004	40.3	275	763	0.12	<0.10
MW-24 (Dup)	NA	NA	NA	NA	276	NA	NA	NA
MW-27	<0.11	<0.08	0.184	37.8	268	633	0.21	<0.10
MW-28	<0.11	<0.08	<0.004	25.3	293	656	0.04	<0.10
MW-29	<0.11	<0.08	<0.004	58.2	316	944	0.24	0.16
MW-32	<0.11	<0.08	<0.004	67.7	284	800	0.27	<0.10
MW-36	<0.11	<0.08	<0.004	48.8	270	706	<0.01	<0.10
MW-39	<0.11	<0.08	<0.004	22	145	617	<0.01	<0.10
MW-40	<0.11	<0.08	<0.004	12.5	221	486	<0.01	<0.10
MW-41D	<0.11	<0.08	<0.004	12.7	279	652	0.03	<0.10
MW-42D	<0.11	<0.08	<0.004	4.6	266	533	<0.01	<0.10
MW-43	<0.11	<0.08	<0.004	26.5	369	766	0.12	<0.10
MW-43 (Dup)	NA	NA	NA	NA	366	NA	NA	NA
MW-45	<0.11	<0.08	<0.004	24.4	285	567	0.07	<0.10
MW-46	<0.11	<0.08	<0.004	25.7	298	675	0.01	<0.10
MW-48	<0.11	<0.08	<0.004	27.5	271	578	0.11	<0.10
MW-49D	<0.11	<0.08	0.009	25.1	259	646	0.06	<0.10
MW-149(Dup of 49D)	<0.11	<0.08	0.011	24.8	264	640	NA	<0.10
MW-49 (Rinsate)	<0.11	<0.08	<0.004	1.9	<5	1.83	NA	<0.10
MW-50D	<0.11	<0.08	<0.004	15.2	220	486	0.13	<0.10
MW-53	<0.11	<0.08	<0.004	74.7	308	904	0.15	0.32
MW-54D	<0.11	<0.08	<0.004	53.4	222	629	<0.01	<0.10
MW-55D	<0.11	<0.08	<0.004	4.6	218	534	0.46	<0.10
MW-56	<0.11	<0.08	<0.004	42.4	302	700	0.02	<0.10
MW-56 (Dup)	NA	NA	NA	NA	294	NA	NA	NA

Notes: NA - Not Available
* - Nitrate-N and Nitrite-N combined due to late holding times

TABLE 4-6 (cont.)

BIODEGRADATION INDICATOR PARAMETER RESULTS

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

Monitoring Well	DOC (mg C/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Nitrite-N (mg/L)	Redox Pot. (mV)	pH	Tot. Alk. (mg CaCO3/L)
PT-10	<1.0	22.6	<0.056	<0.076	367.9	7.35	333
PT-17	148	78	0.61	<0.076	361.8	7.03	331
PT-18	6.1	231	<0.056	<0.076	NA	6.87	548
PT-20	1.9	22.6	0.15	<0.076	NA	7.05	310
PT-22	3.1	218	0.18	<0.76	352.4	7.02	316
PT-22 (Dup)	NA	NA	NA	NA	NA	NA	NA
MW-24	4.6	79	0.15	<0.076	372.4	7.09	288
MW-24 (Dup)	NA	NA	NA	NA	NA	NA	NA
MW-27	2.3	50.7	0.098	<0.076	394.7	7.73	292
MW-28	2.8	49.5	0.089	<0.076	362.5	7.09	282
MW-29	3.2	126	0.21	<0.076	365.6	7.06	313
MW-32	1.6	56.4	0.79	<0.076	415.3	7.16	294
MW-36	1.8	62.6	1.7	<0.076	379.3	7.25	273
MW-39	3.5	26.7	0.091	<0.076	398.2	7.2	264
MW-40	1.4	56.7	0.13*	NA	362.3	7.41	217
MW-41D	1.2	41.1	0.077	<0.076	371.4	7.62	300
MW-42D	3.2	24.6	0.088	<0.076	390.8	7.48	279
MW-43	4.4	43.4	<0.056	<0.076	365.5	7.09	362
MW-43 (Dup)	NA	NA	NA	NA	NA	NA	NA
MW-45	1.7	39.1	0.064	<0.076	351.2	7.22	281
MW-46	42	46.7	<0.056	<0.076	347.9	7.13	297
MW-48	2.5	41.4	0.081	<0.076	382.3	7.25	276
MW-49D	5.3	57.6	0.11	<0.076	379.5	7.32	264
MW-149(Dup of 49D)	3.7	58.5	0.084	<0.076	NA	7.36	264
MW-49 (Rinsate)	2.3	1.1	<0.056	<0.076	NA	6.64	<5
MW-50D	3.3	32.8	0.11	<0.076	NA	7.59	231
MW-53	3.5	103	0.15	<0.076	359.6	7.08	289
MW-54D	4.1	40.6	0.27	<0.076	373.9	7.48	223
MW-55D	<1.0	31.3	0.23	<0.076	340.6	8.88	253
MW-56	2.5	81.7	0.23	<0.076	360.6	7.11	289
MW-56 (Dup)	NA	NA	NA	NA	NA	NA	NA

Notes: NA - Not Available
* - Nitrate-N and Nitrite-N combined due to late holding times

5.0 GROUNDWATER FLOW MODEL DESIGN AND RESULTS

5.1 SELECTION OF MODEL CODE

This modeling study involved the simulation of both three dimensional groundwater flow and transport. The computer code MODFLOW was selected for this project because of the following:

- MODFLOW simulates three dimensional groundwater flow;
- The head and flow data saved by MODFLOW can be used with particle tracking models (e.g., MODPATH and MODPATH-PLOT) and the three-dimensional transport model, Modular Transport in 3 Dimensions (MT3D);
- The accuracy of the code has been checked against one or more analytical solutions;
- The code includes a water balance computation; and
- The code has been used to simulate groundwater flow in numerous studies.

Further, MODFLOW has been peer-reviewed for both theory and coding, has been extensively verified, field tested and has many users (EPA, 1993). The transport code, MT3D, was selected as the transport model, as this model is structured to be used in conjunction with MODFLOW, has been peer reviewed for theory and has been both field tested and verified (EPA, 1993).

5.2 RELATIONSHIP BETWEEN CONCEPTUAL MODEL AND MODFLOW NUMERICAL MODEL

This section describes how the grid of the numerical model was developed from the conceptual model. First, the boundary conditions and grid layout will be discussed, followed by the method of assignment of input parameter values.

5.2.1 Boundary Conditions and Grid Layout

The area modeled extends considerably beyond the Ash Landfill and its immediate surrounding area to take advantage of meaningful physical and hydraulic boundaries (Figure 5-1). Seneca Lake, a physical boundary, formed a constant head boundary at the western edge of the model. The eastern model boundary was represented by a groundwater divide no-flow (i.e., hydraulic) boundary as indicated by the land surface topography, stream drainage patterns, and groundwater flow directions established at nearby sites (SEAD-50, SEAD-64A, SEAD-25, SEAD-16 and

REEDER CREEK

STREAMLINE NO-FLOW BOUNDARY

ROUTE 96A

SAMPSON STATE PARK

CONSTANT-HEAD BOUNDARY

FARMHOUSE

ASHLANDFILL

SENECA ARMY DEPOT

SEAD-16

SEAD-25

SEAD-17

ROUTE 96

GROUNDWATER DIVIDE NO-FLOW BOUNDARY

SEAD64A

SEAD-64D

STREAMLINE NO-FLOW BOUNDARY

SEAD-50

SENECA LAKE

AIRFIELD

LEGEND

AREA OF INACTIVE CELLS

GROUNDWATER FLOW DIRECTION IN TILL/WEATHERED SHALE AQUIFER

ACTIVE MODEL BOUNDARY

CONSTANT-HEAD BOUNDARY

GROUNDWATER DIVIDE NO-FLOW BOUNDARY

MONITORING WELL

STREAM / CREEK

INTERMITTENT STREAM

RAILROAD TRACKS

760 GROUND SURFACE ELEVATION CONTOUR

VOC PLUME

N

800 0 800 1600

1" = 1600'

C:\ACAD\SENECA\ASHMODEL\GWFMB.DWG

PARSONS

PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING

Dwg. No.

FIGURE 5-1

GROUNDWATER FLOW MODEL BOUNDARY CONDITIONS AND GROUNDWATER FLOW DIRECTIONS

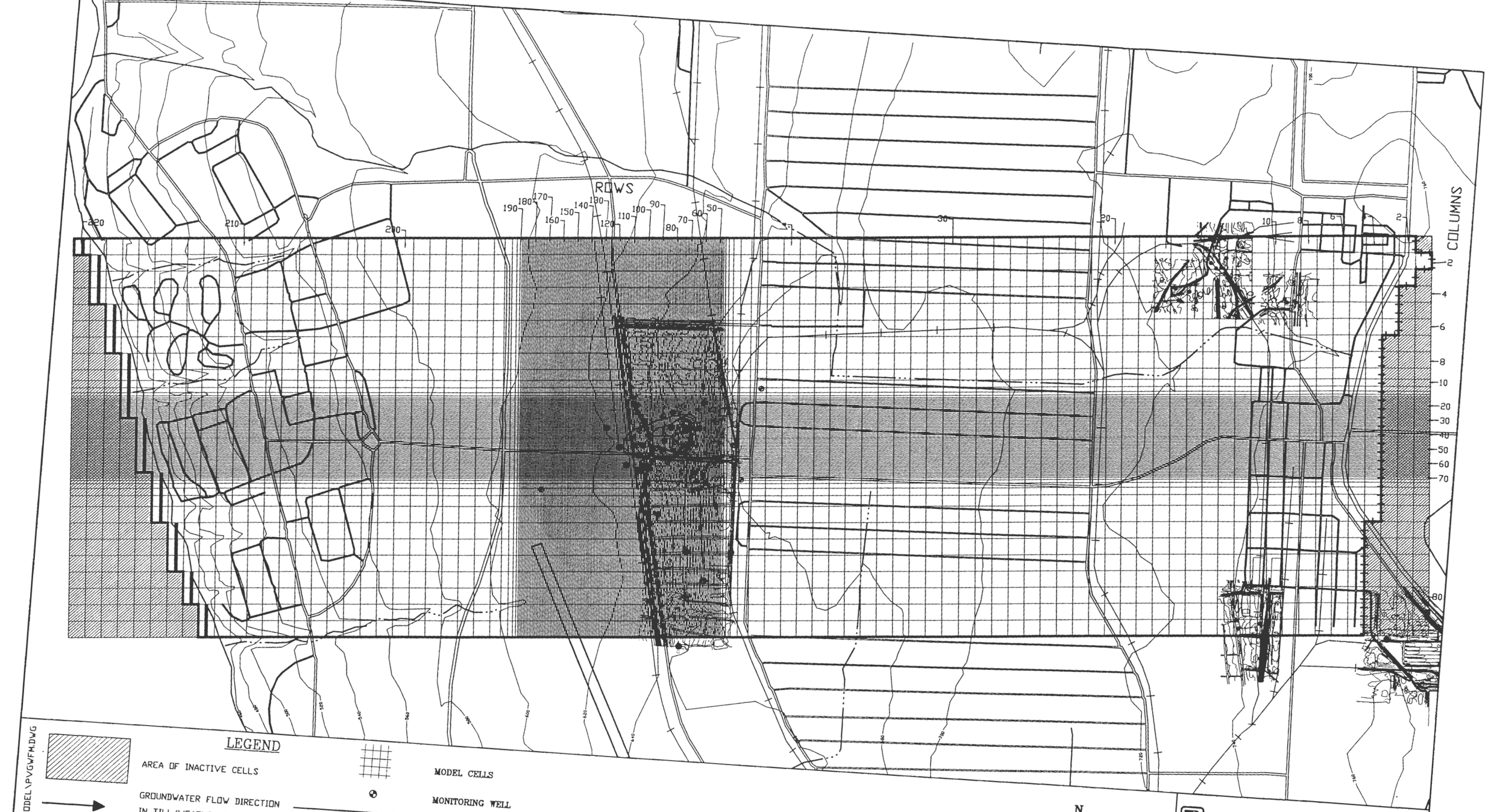
SCALE

DATE

SEAD-17). Between these two boundaries, groundwater flow is essentially to the west as indicated by flow directions established at the Ash Landfill and other sites within the modeled area. Thus, streamline no-flow (i.e., hydraulic) boundaries were used to represent the northern and southern boundaries of the model. Finally, the bottom of the model was represented by a no-flow boundary due to the low hydraulic conductivities measured in the deeper portions of the competent shale.
The model grid consisted of nodes and associated finite-difference blocks or cells representing a block-centered grid. Model boundaries were defined based on physical and hydraulic considerations in order to most accurately represent the flow system beneath the Ash Landfill.

The block-centered finite-difference grid was overlaid on the map of the area to be modeled such that the horizontal plane of the aquifer was collinear with the principal directions of hydraulic conductivity tensors K_x and K_y. (Figure 5-2). In addition, three flow units were modeled: layer 1 represents till/weathered shale from 0 to 12 ft bls; layer 2 represents competent shale from 12 to 32 feet bls; and layer 3 represents competent shale from 32 to 52 feet bls (as described in Section 4.3). The thickness of the layers remained constant throughout the horizontal extent of the model grid. However, the array of cells that make up each layer dips gently to the west, generally following the land surface topography. This results in a stratigraphic three-dimensional (or non-horizontal model-layer) grid (Figure 5-3). By applying a non-horizontal vertical layer discretization scheme to simulate flow at the Ash Landfill site, discrete units could be assigned to discrete model layers. The angle between the dip of the shale beds and the horizontal axis was so small that K_z was assumed to be collinear with the vertical axis (Anderson and Woessner, 1992). Harte (1994) showed that for sites with model layer slopes of 0.17 ft/ft or less, the benefits of applying a non-horizontal model layer vertical discretization scheme to simulate flow, especially considering the improved ability to represent discrete hydrogeologic units, exceeded the numerical errors due to the misalignment of the model axes with the hydraulic conductivity tensor (K_z).

The flow model used a variable grid with three layers that totaled 54,120 cells; each layer had a grid size of 28 x 220 cells, or 18,040 cells (Figure 5-2). A variable grid was used for this model to achieve increased resolution (for hydraulic heads and plume concentrations) at the Ash Landfill. The grid consists of a central area of regularly-spaced, 25-foot cells that encompasses the Ash Landfill and its immediate surrounding area (Figure 5-4). Beyond this area of regularly-spaced cells, the grid expands in increments of 1.5 times (38 ft, 56 ft, 84 ft, 127 ft, and 190 ft) until a cell size of 285 ft is reached. Then, this cell size extends to the model boundaries in all



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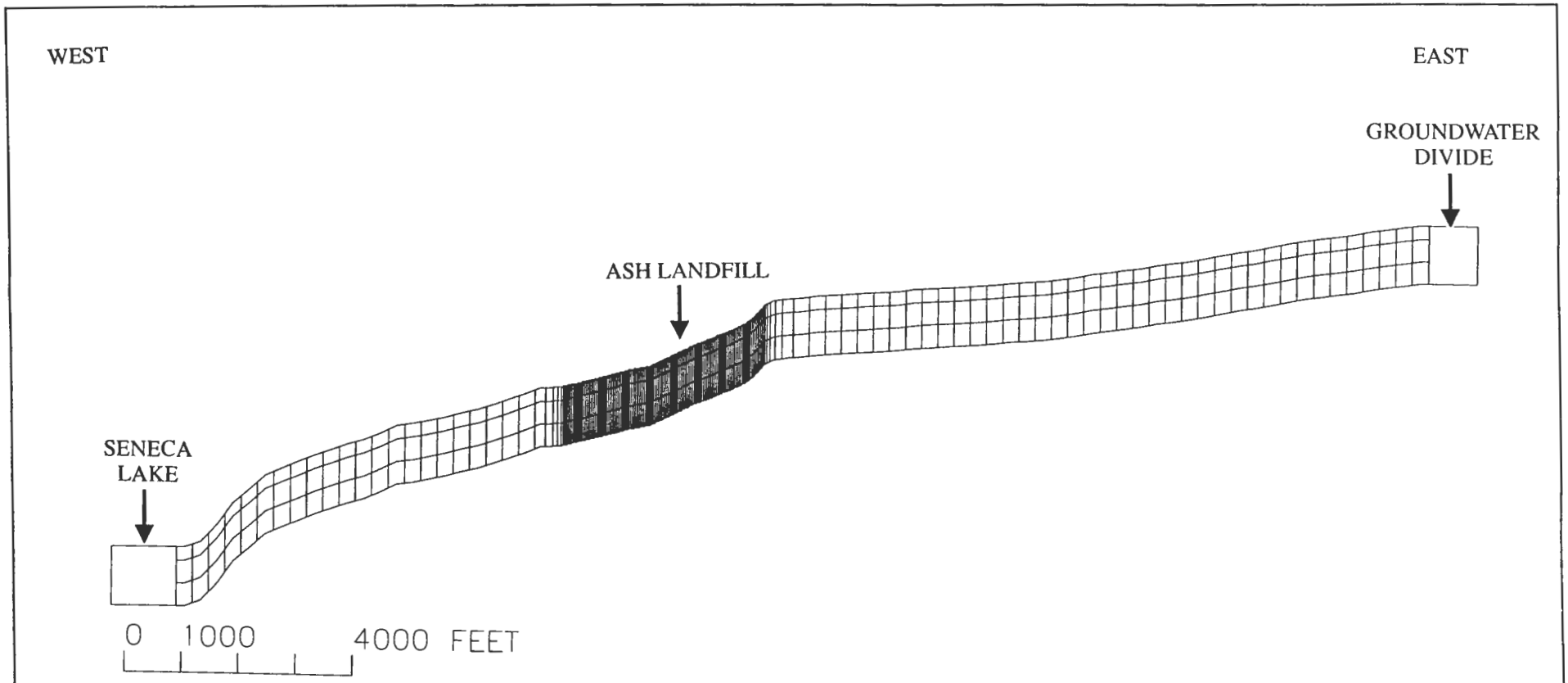
SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING | Dwg. No

FIGURE 5-2
PLAN VIEW OF GROUNDWATER FLOW MODEL GRID

SCALE 1" = 1600' | DATE DECEMBER 1996 | REV.



VERTICAL EXAGGERATION IS 20.0X
Cross-section of Model Grid

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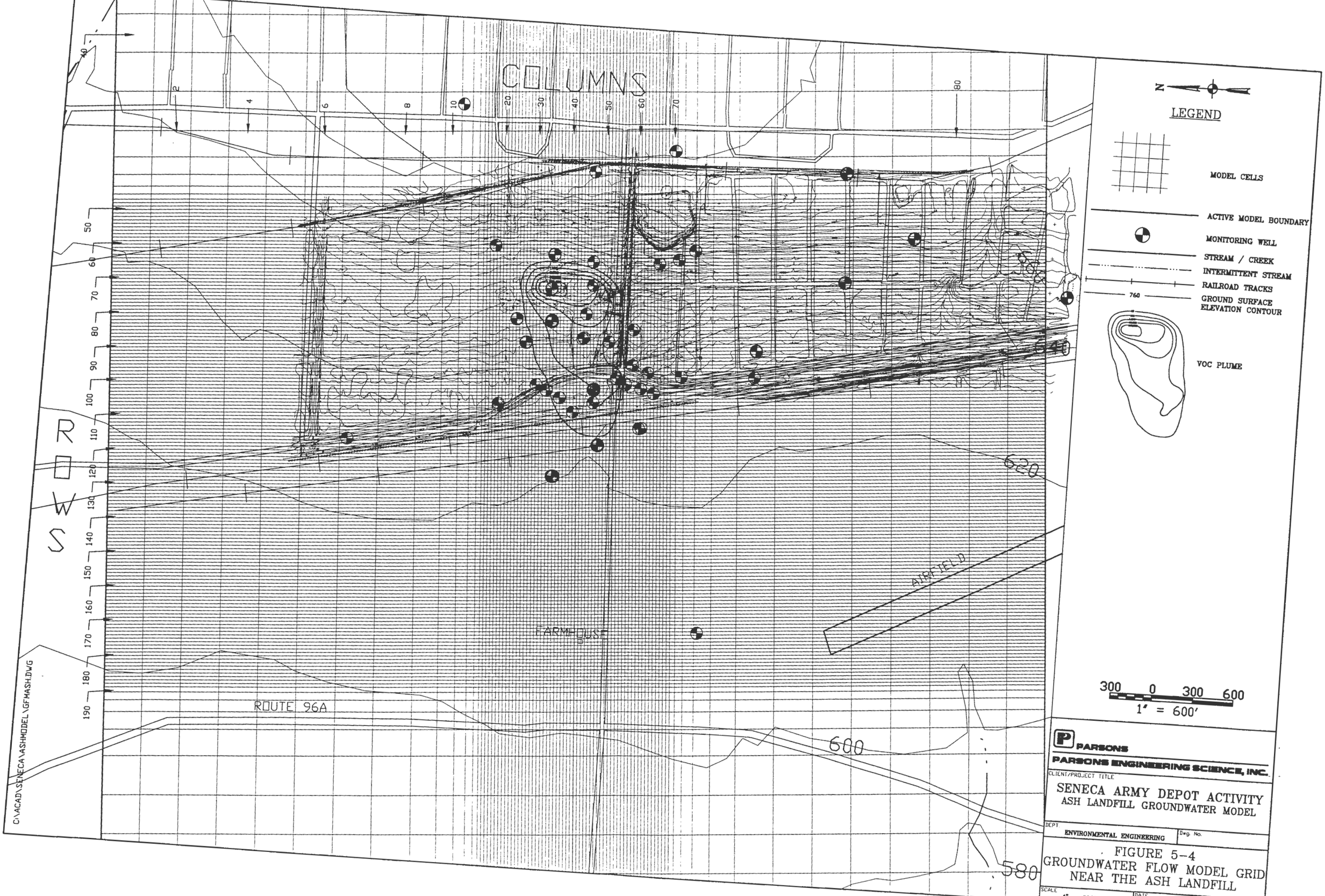
ASH LANDFILL GROUNDWATER MODEL

DEPT.	DWG NO.
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 5-3
CROSS SECTION OF GROUNDWATER FLOW MODEL GRID AT COLUMN 42

SCALE	DATE
NA	JANUARY 1996

GRAPHICS\SENECA\ASHMODEL\PRECIP.CDR



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SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING | Dwg. No.

FIGURE 5-4
GROUNDWATER FLOW MODEL GRID
NEAR THE ASH LANDFILL

SCALE | DATE

directions. A grid size of approximately 284-feet provided enough detail so that simulated heads outside the area of interest could be calibrated to observed heads with some degree of spatial accuracy, yet it reduced data preparation and computing time for the model. There were 562 inactive cells in the model; inactive cells are those cells west of the constant head cells at Seneca Lake and east of the groundwater divide cells along Route 96 (Figure 5-2).

The goal of grid spacing is to design a grid so that the dimensionless number, the Peclet number (P_e), is less than or equal to 4, Anderson and Woessner (1992). The grid size in the area of the Ash Landfill was decreased to 25-feet in order to meet the Peclet criteria for the solute transport model. This minimized the effect of numerical dispersion in the finite difference solution and provided the necessary detail to understand the migration of chlorinated organics. The equation used to calculate the Peclet number is:

$$P_e = \frac{\Delta L}{\alpha}$$

where: P_e = Peclet number
ΔL = characteristic nodal spacing, (ft.), and
α = characteristic dispersivity, (ft.).

A dispersivity of 10 feet for the till/weathered shale, and a 25-foot grid spacing yields a P_e of 2.5. A dispersivity of 20 feet for the competent shale yields a P_e of 1.25 (the choice of dispersivity values is discussed is Section 6.3.3). The 25-foot grid spacing yields P_e numbers for both the till/weathered shale and the competent shale that meet the Peclet number criteria recommended for solute transport modeling.

5.2.2 Assignment of Input Parameter Values For MODFLOW

The MODFLOW model separates different modeling functions into distinct categories depending upon the hydrogeologic conditions being modeled. Input parameter values were assigned to each variable associated with the various package use in the model. Groundwater flow was simulated using four MODFLOW packages. They are as follows:

1. Basic Package,
2. Block Centered Flow Package,
3. Recharge Package and

4. Preconditioned Conjugate Gradient (PCG-2) Solution Package .

Input parameter values for the MODFLOW groundwater flow model were derived from both site investigation data, to the greatest extent possible, and the literature when site-specific data were not available. Table 5-1 presents the selected input parameters for the flow model along with the acceptable range for each value; the best estimate for each parameter used in the model is also presented. The parameter values that describe the physical geometry of the flow system, as well as those values that describe the aspects of groundwater flow, are discussed below.

5.2.2.1 Basic Package

Model Layers and Aquifer Types

Three model layers were simulated in the model. Model layer 1 simulated groundwater flow in the till/weathered shale unit, the ground surface to 12 feet below the land surface. Model layer 2 simulated flow in the upper 20 feet of the shale unit and, model layer 3 simulated flow in the next 20 foot interval in the competent shale. The depths to the tops and bottoms of the layers relative the land surface are, receptively, 0 to 12 feet for layer 1 (the till/weathered shale), 12 to 32 feet for layer 2 (the competent shale), and 32 to 52 feet for layer 3 (also in the competent shale).

The land surface elevations were established from 2-foot contour maps of the selected sites within the modeled area at SEDA and from 1:24,000-scale (7.5 min.) USGS maps (the Dresden and Ovid, NY quadrangles). Two foot contour maps were available for six sites within the model grid boundaries. Outside of the areas associated with these sites, the 1:24,000 scale maps were used.

All three model layers were assigned an aquifer type. Model layer 1, which is considered to be an unconfined water table aquifer, was designated as a confined aquifer for the purposes of the flow model. The reason for this is that the solution scheme of the MODFLOW model was not stable enough to meet the closure criteria for the piezometric heads. Simulating model layer 1 as confined in a steady state model does not significantly affect the heads calculated by MODFLOW, although this does necessitate the need to assume constant transmissivity (hydraulic conductivity times saturated thickness) throughout the simulation. Model layers 2 and 3 were simulated under confined conditions because the piezometric heads in each layer were measured in the field to be above the tops of the model layers.

TABLE 5-1

REASONABLE RANGE, BEST ESTIMATE AND UNCERTAINTY FOR
MODFLOW INPUT PARAMETERS

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

Input Parameter	Units	Reasonable Range			Best Estimate	Scource	Uncertainty
		Low	nominal	High			
Aquifer Types:							
Layer 1 aquifer type	NA	NA	unconfined*	NA	unconfined*	field data	low
Layer 2 aquifer type	NA	NA	confined	NA	confined	field data	low
Layer 3 aquifer type	NA	NA	confined	NA	confined	field data	low
Layer Thicknesses:							
Layer 1 Thickness	(feet)	4.5	12	18	12	field data	low
Layer 2 Thickness	(feet)	20	20	20	20	field data	low
Layer 3 Thickness	(feet)	20	20	20	20	field data	low
Conductivity:							
Layer 1 Kh	(feet/day)	0.09	1.03	2.21	1.03	field data	low
Layer 1 Kv	(feet/day)	0.01	0.11	0.25	0.11	Literature	medium
Layer 1 Vcont		0.0007	0.0018	0.0041	0.0018	Calculation	med - high
Layer 2 Kh	(feet/day)	0.11	0.20	0.45	0.20	field data	low
Layer 2 Kv	(feet/day)	0.01	0.02	0.05	0.02	Literature	high
Layer 2 Vcont		0.0001	0.0003	0.0008	0.0003	Calculation	high
Layer 3 Kh	(feet/day)	0.01	0.04	0.09	0.04	field data	low
Transmissivity:							
Layer 1 Transmissivity	(sq feet/day)	0.54	6.18	13.26	6.18	field data	low
Layer 2 Transmissivity	(sq feet/day)	2.20	4.05	9.00	4.05	field data	low
Layer 3 Transmissivity	(sq feet/day)	0.20	0.76	1.80	0.76	field data	low
Heads:							
Constant Head Seneca Lake	(feet, msl)	455	455	455	455	Literature	low
Recharge:							
Net Recharge	(feet/day)	0.000012	0.000013	0.000014	0.000013	field data	low
Boundaries:							
Northern Boundary	NA	NA	streamline	NA	streamline	field data	low
Southern Boundary	NA	NA	streamline	NA	streamline	field data	low
Eastern Boundary	NA	NA	gw divide	NA	gw divide	field data	low
Western Boundary	NA	NA	constant head	NA	constant head	Literature	low
Bottom Boundary	NA	NA	low conductivity	NA	low conductivity	field data	low

Note:
1) * = Layer 1 was simulated as a confined aquifer (i.e., constant transmissivity) for this steady-state model for reasons discussed in the text.

H:\eng\seneca\ashmodel\tables\rrbeumf.wk4

Boundaries for the Flow Field

The boundary array for the flow model consisted of constant piezometric head cells along the shoreline of Seneca Lake. The northern and southern extents of the model were designated as streamline no-flow boundaries. A groundwater divide is present on the eastern boundary of the model. All of the cells west of the constant piezometric head cells and east of the groundwater divide were inactive for the model runs; all other cells in the model were active. The bottom of the model grid was simulated as a no-flow boundary.

Starting Piezometric Heads

The starting piezometric head arrays for the three model layers were derived from measured groundwater elevations at monitoring wells. In areas where no monitoring wells existed, groundwater elevations were extrapolated from the slope of the land surface. The elevation of Seneca Lake, 455 feet MSL (Mozola, 1955), was assigned as the piezometric head for the constant head cells.

For layer 1, seasonally averaged groundwater elevations were initially assigned to their corresponding model cells. The process of deriving these elevations is described in Section 5.4.1. Starting heads for layers 2 and 3 were 1.0 and 2.0 feet, respectively, below the starting heads for layer 1. This represented conditions that were measured in the field where bedrock wells were installed.

In areas where no monitoring wells were present, starting groundwater elevations were extrapolated between cells by subtracting 5 feet from the land surface elevation. This extrapolation between measured and non-measured water table elevations provided a reasonable approximation when cross-referenced against selected actual water table measurements. The final array was derived by using the observed and approximated data, and a four-point moving average calculation.

5.2.2.2 Block-Centered Flow Package

Horizontal hydraulic conductivity (K_h) values for the three layers of the model were obtained from the Ash Landfill RI report (Parsons ES, 1994a). A horizontal hydraulic conductivity of 1.03 ft/day was used for layer 1 (the till/weathered shale). Horizontal conductivities of 0.2 ft/day and 0.04 ft/day were used for layers 2 and 3 (in the competent shale), respectively. The conductivity values represent an average for each geologic unit represented as a model layer (Table 4-1).

Vertical hydraulic conductivities (K_v) were derived from literature values and from the physical make up of the aquifer material. For layer 1, the K_v was based on data from a fine-grained till aquifer in western New York State where K_h/K_v was determined to be 9 (Prudic, 1992). For layers 2 and 3, the K_v values were derived based on an anisotropy (Kh/Kv) of 10.

Vertical Conductance (Vcont)

Vertical conductances (Vcont)s were calculated for layers 1 and 2 using the following equation, (McDonald and Harbaugh, 1988):

$$Vcont_{i,j,k+1/2} = \frac{1}{\frac{(\Delta V_k)/2}{k_{z i,j,k}} + \frac{(\Delta V_{k+1})/2}{k_{z i,j,k+1}}}$$

where:

$Vcont_{i,j,k+1/2}$ is the vertical conductance between two nodes located at the midpoints of vertically adjacent layers;

Δv_k is the thickness of model layer $_k$;

Δv_{k+1} is the thickness of model layer $_{k+1}$;

$K_{z\,i,j,k}$ is the vertical hydraulic conductivity of the upper layer in cell $_{i,j,k}$; and

$K_{z\,i,j,k+1}$ is the vertical hydraulic conductivity of the lower layer in cell $_{i,j,k+1}$.

The equation is used to represent a transition situation where two adjacent model layers are used to represent two vertically adjacent, yet distinct, hydrogeologic units. It incorporates both K_v and the thickness of each adjacent unit.

Using the above equation, a V_{cont} of 0.0018 was calculated for layer 1. For layer 2, V_{cont} of 0.0003 was calculated. A V_{cont} value was not needed for layer 3 because the bottom of this layer is a no-flow boundary.

Transmissivity

Transmissivity was calculated by multiplying the saturated thickness by the horizontal hydraulic conductivity (K_h). A transmissivity value of 6.18 ft^2/day was used for layer 1; this value is based on a saturated thickness of 6 feet and K_h of 1.03 ft/day. The average thickness of the till/weathered

shale aquifer was determined to be approximately 6 ft, based on observations of fluctuations of the water table in wells at the Ash Landfill. Transmissivities of 4.05 ft^2/day and 0.76 ft^2/day were used for layers 2 and 3; these values were based on a saturated thickness of 20 ft and K_h values of 0.20 ft/day and 0.04 ft/day, respectively.

5.2.2.3 Recharge Package

Net areal recharge from precipitation was used in the model as the only source of water for the flow system. Both a water balance and a water budget was considered in determining the net recharge to groundwater. The water balance indicated that the shallow till/weathered shale aquifer received 0.0016 ft/day, (0.59 ft/year) of recharge from precipitation; however, the water budget suggested that a significant amount of this water is subsequently lost to evapotranspiration. Instead of simulating both recharge from precipitation and evapotranspiration, a net recharge value was used in the model. A net recharge of 0.000013 ft/day was used to begin the calibration process for the model based on the water budget. Recharge was specified to enter the simulated flow system through the uppermost active layer in the model.

5.2.2.4 Other Model Input Parameters

Error Criterion for Heads: At the end of each iteration, MODFLOW selects the largest absolute difference in heads as a measure of the residual error and compares it to the user-defined error criterion. Anderson and Woessner (1992) recommend as a "rule of thumb" that the error criterion should be one or two orders of magnitude smaller than the level of accuracy desired in the head results. Because the desired accuracy for head results in this model was 0.1 feet, an error criterion of 0.001 was used for the model

Error Criterion for Water Balance: MODFLOW also calculates an error in the water balance by comparing the total simulated inflows and outflows, which serves as another way of checking the amount of residual error in the solution. Water entering storage is treated as outflow and water released from storage is treated as inflow. The difference between total inflow and total outflow is the percent error and it is calculated by MODFLOW using the equation that follows:

$$D = \frac{100(IN - OUT)}{(IN + OUT)/2}$$

where: D = percent error term;
IN = total flow into the system; and
OUT = total flow out of the system.

According to Konikow (1978), the ideal error in the water balance should be less than 0.1 percent, however, an error of approximately 1 percent is usually considered acceptable (Anderson and Woessner, 1992).

5.3 MODEL CALIBRATION

Once the model grid, starting piezometric heads, and the recharge value were established the model was calibrated by comparing the modeled and measured site conditions. The groundwater flow model was calibrated using industry-standard calibration criteria. A model is considered calibrated when it reproduces historical data within some acceptable level of accuracy determined prior to the calibration process (EPA, 1992).

Prior to calibration, an acceptable range for each of the parameter values was identified (Table 5-1), and target piezometric heads were established.

The conceptual model indicated that a significant amount of water that percolates to the groundwater is subsequently lost through evapotranspiration. Thus, the value of the net recharge parameter had a significant effect on the piezometric heads in the model. Since many of the hydrogeologic input parameters were based on site measurements and literature sources, the model was calibrated by selecting the best estimates for all the parameters and then, through trial-and-error, only the net recharge value was adjusted until simulated heads matched measured heads within the targeted error of the model.

The model calibration process began with the net recharge value of 0.000013 ft/day determined in during the water budget process. This is significantly less than the 0.0016 ft/day (or 0.59 ft/year) of percolation calculated in the water balance because it is believed that evapotranspiration removes water from the groundwater system throughout the year. Ultimately, the model was calibrated using a net recharge of 0.00001332 feet/day. Output from the calibrated MODFLOW run is provided in Appendix C.

The results of the calibration of the groundwater flow model were evaluated both qualitatively and quantitatively. These calibration criteria are as follows:

1. Hydraulic Heads (ME, MAE, and RMS) and Gradients;
2. Water Balance and Volumetric Flow; and
3. Groundwater Velocity and Advective Travel Time.

5.3.1 Hydraulic Heads (ME, MAE, and RMS) and Gradients

The comparison of simulated heads with observed (or target) heads is an essential calibration criteria for the model. For this model, target heads were available from 60 monitoring wells within the modeled area.

The target heads for the model cells were set as the seasonal arithmetic mean of the observed water table elevations in monitoring wells from 1990 to 1995. Table 5-2 presents the observed water table elevations as well as their seasonal arithmetic means. For wells that had large water elevation data sets, the seasonal arithmetic mean was taken to be a reasonably acceptable target elevation for the model, since it represented a point approximately midway from the highest to the lowest water level elevation. Sample standard deviations for each well for the years 1990, 1991, 1993, and 1994 were also calculated as well as an average standard deviation for each year. Data presented in Section 3.5.2 indicates that the groundwater flow direction and horizontal gradients at the Ash Landfill do not significantly change from periods when the water table is high to periods then it is low. Assigning the use of seasonally averaged piezometric heads as targets for a steady-state groundwater flow model is considered reasonable since flow direction and gradients during periods of the year remain constant when piezometric heads were higher or lower than the average value.

However, this process could not be applied to all of the wells, because for some wells the amount of data was limited (i.e., only one or two seasons were represented in the data). For these latter wells, the seasonal arithmetic mean was derived by making appropriate adjustments to the observed data based on the average standard deviation of elevations determined at wells where adequate data were available. These adjustments were based on knowledge of the established seasonal behavior of heads in the aquifer.

After model calibration was completed, simulated heads were compared to measured (target) heads using both maps and X-Y scatter plots. A comparison between contour maps of simulated and measured heads is depicted in Figure 5-5.

TABLE 5-2

WATER TABLE ELEVATIONS AND DEVELOPMENT OF A SEASONALLY AVERAGED WATER TABLE AT THE ASH LANDFILL

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

	WELL	ELEVATION TOP OF PVC	DEPTH TO WATER IN ALL WELLS (TOC) JAN 1990	MAR 1990	JUN 1990	SEPT 1990	DEC 1990	MAR 1991	JUN 1991	SEPT 1991	DEC 1991	FEB 1992	MAR 1992	JUN 1992	JAN 1993	APR 1993	JUN 1993	NOV-DEC 1993	FEB 1994	JUL 1994	SEPT 1994	DEC 1994	MAR 1995
1	PT-10	681.58	7.80	5.70	9.60	10.10	4.71	4.89	10.74	11.01	7.08	6.66	3.79	5.55	9.10	5.45	9.60	5.8	7.75	**********		5.08	**********
2	PT-11	658.26	5.60	5.10	7.20	9.00	4.56	4.38	8.18	9.77	6.06	5.34	4.57	4.71	5.95	4.24	6.51	7.02	5.00	6.67	8.64	4.56	4.28
3	PT-12	652.03	6.30	5.80	8.30	9.50	5.06	5.35	9.56	10.30	5.92	5.74	5.32	5.02	5.78	4.83	8.03	5.89	4.78	**********			
4	PT-15	637.84	6.40	4.90	7.75	10.05	3.75	4.29	9.32	10.44	8.48	5.34	4.06	4.25	6.04	3.96	8.41	9.85	5.64	**********		6.37	**********
5	PT-16	637.76	3.80	3.10	4.60	6.50	2.98	2.88	5.66	7.59	4.21	3.30	2.94	2.87	2.70	2.78	4.70	3.47	3.20	**********		2.70	**********
6	PT-17	640.82	5.90	4.70	7.40	8.80	4.30	4.08	8.91	10.50	5.28	4.74	3.98	4.00	4.65	4.23	7.62	5.00	3.77	**********		4.12	**********
7	PT-18	656.59	6.60	5.90	6.80	9.20	5.01	5.16	7.18	9.87	6.72	6.49	5.92	5.02	5.59	4.81	7.33	5.72	6.17	**********		6.73	**********
8	PT-19	645.45	**********									3.78	**********				6.65	6.83	**********	6.38	7.64	4.01	3.10
9	PT-20	647.28	5.40	5.80	7.05	9.20	4.26	5.42	9.32	11.17	8.51	6.22	5.29	4.62	6.10	4.64	7.58	6.70	3.07	**********		5.13	**********
10	PT-21	647.51	6.50	4.60	7.00	9.25	3.85	4.73	8.01	9.58	7.40	12.14	5.12	4.95	-	4.09	8.15	8.46	5.19	**********			
11	PT-22	648.62	6.80	5.90	8.35	10.40	4.87	5.28	9.35	10.77	7.32	5.79	4.95	4.77	8.20	5.29	8.57	7.84	3.17	**********			
12	PT-23	641.54	5.80	4.70	6.80	7.95	4.44	4.27	8.07	8.98	6.47	4.70	4.02	4.19	5.82	4.37	7.21	7.63	2.83	**********		4.77	**********
13	PT-24	636.35	4.70	4.60	5.10	7.00	4.57	4.42	5.95	8.50	4.98	4.70	4.55	4.29	4.50	4.30	5.21	4.73	3.18	**********		4.31	**********
14	PT-25	637.02	5.30	3.90	6.55	10.45	3.54	3.82	8.87	11.57	6.96	4.66	3.87	3.36	3.56	3.44	6.96	6.36	5.06	**********		4.07	**********
15	PT-26	614.64	5.20	3.20	6.50	10.75	3.26	2.98	8.25	11.54	10.42	4.42	2.82	2.96	3.06	2.86	6.85	4.84	2.95	**********			
16	MW-27	639.42	5.00	5.20	6.25	9.05	4.35	4.41	8.69	7.57	5.82	5.08	5.07	5.21	5.60	4.63	6.75	4.45	5.35	6.42	7.09	3.80	5.13
17	MW-28	637.41	5.20	4.90	5.65	9.15	4.57	4.44	6.16	8.33	5.57	4.90	4.57	4.13	4.92	4.70	5.77	5.14	4.14	**********		4.94	**********
18	MW-29	637.33	5.90	6.10	6.65	10.5	5.55	6.21	8.32	10.5	7.19	6.88	6.52	5.74	5.88	5.51	6.83	6.12	5.98	**********		5.80	**********
19	MW-30	640.23	7.20	5.10	8.05	9.5	4.08	3.86	10.5	9.52	7.62	6.01	3.98	3.99	4.35	4.16	8.83	6.53	6.84	8.40	9.09	4.08	4.10
20	MW-31	636.86	4.10	3.10	5.60	9.20	2.43	2.52	8.53	9.65	5.82	3.72	2.88	2.28	2.52	2.28	6.13	5.14	4.02	**********		2.75	**********
21	MW-32	641.65	6.30	4.70	8.30	9.10	3.87	3.96	9.25	8.56	7.56	4.99	3.82	3.81	3.98	3.97	7.98	4.80	5.93	**********		4.83	**********
22	MW-33	639.52	6.10	3.90	7.60	9.50	3.60	3.58	8.17	7.37	7.79	4.36	3.57	3.67	3.77	3.76	8.84	5.10	5.27	**********		5.53	**********
23	MW-34	632.89	**********									4.18	**********		2.92	2.77	5.84	6.50	4.51	**********		2.61	**********
24	MW-35D	631.82	**********									2.94	**********		2.40	2.19	3.81	2.56	2.16	**********		2.23	**********
25	MW-36	632.09	**********									2.99	**********		2.15	2.33	3.90	2.48	2.24	3.43	5.66	2.28	2.34
26	MW-37	632.89	**********									3.16	**********		1.98	2.31	4.49	6.24	3.28	**********		2.14	**********
27	MW-38D	637.99	**********									4.08	**********		3.32	3.38	5.23	4.16	3.89	**********		3.40	**********
28	MW-39	659.72	**********												1.80	2.19	3.05	3.35	2.03	**********		1.73	**********
29	MW-40	659.46	**********									4.15	**********		3.50	3.13	6.30	5.90	3.06	6.06	7.28	3.48	3.61
30	MW-41D	694.02	**********									7.11	**********		6.22	6.06	8.28	8.26	7.46	**********		6.83	**********
31	MW-42D	663.04	**********									3.61	**********		2.64	2.38	5.70	8.10	2.43	**********		2.86	**********
32	MW-43	657.9	**********														4.58	5.44	**********			2.48	**********
33	MW-44	654.12	**********														5.49	7.14	**********				
34	MW-45	651.13	**********														5.04	5.70	**********	4.93	6.38	2.66	3.05
35	MW-46	650.85	**********														6.64	8.04	**********			3.37	**********
36	MW-47	628.53	**********														5.25	7.08	**********	5.70	6.89	2.85	2.84
37	MW-48	648.57	**********														5.80	6.39	**********	5.92	7.00	3.25	3.10
38	MW-49D	650.89	**********														5.83	7.95	**********			3.58	**********
39	MW-50D	650.27	**********														5.71	7.37	**********			3.88	**********
40	MW-51D	628.64	**********														5.43	7.08	**********			2.98	**********
41	MW-52D	626.7	**********														3.64	6.66	**********			2.50	**********
42	MW-53	639.83	**********														8.14	9.50	**********			6.80	**********
43	MW-54D	639.34	**********														7.95	9.46	**********			6.05	**********
44	MW-55D	639.43	**********														9.20	8.92	**********			6.06	**********
45	MW-56	630.89	**********														3.61	3.54	**********	3.82	4.02	2.91	2.95
46	MW-57D	630.27	**********														3.13	3.18	**********			1.87	**********
47	MW-58D	629.86	**********														3.40	4.20	**********			1.33	**********
48	MW-59	656.83	**********														**********			3.20	5.22	1.88	1.90
49	MW-60	660.15	**********														**********			3.25	5.32	2.04	2.02
50	MW84D-1	667.79	**********														**********			3.43	**********	2.76	**********
51	MW84D-2	635.2	**********														**********			4.45	**********	1.71	**********
52	MW84D-3	648.88	**********														**********			2.99	**********	1.97	**********
53	MW84D-4	661.33	**********														**********			6.23	**********	3.94	**********
54	MW84D-5	652.49	**********														**********			5.53	**********		
55	MW84A-1	745.77	**********														**********			9.14	**********		
56	MW84A-2	740.98	**********														**********			6.45	**********		
57	MW84A-3	739.85	**********														**********			5.77	**********		
58	MW18-1	735.54	**********														**********	3.40	**********				
59	MW18-2	734.55	**********														**********	3.54	**********				
60	MW18-3	735.48	**********														**********	4.22	**********				
61	MW17-1	736.27	**********														**********		2.80	**********			
62	MW17-2	733.74	**********														**********		3.19	**********			
63	MW17-3	732.15	**********														**********		2.38	**********			
64	MW17-4	734.58	**********														**********		3.00	**********			
65	MW25-3	745.58	**********														**********		3.15	**********			

Note: Water levels for Dec 1994 were taken during the Ash Landfill Romoval Action and dewatering operation

TABLE 5-2 (cont.)

WATER TABLE ELEVATIONS AND DEVELOPMENT OF A SEASONALLY AVERAGED WATER TABLE AT THE ASH LANDFILL

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

	WELL	ELEVATION TOP OF PVC	WATER TABLE ELEVATION IN ALL WELLS (TOC)																									
			JAN 1990	MAR 1990	JUN 1990	SEPT 1990	DEC 1990	MAR 1991	JUN 1991	SEPT 1991	DEC 1991	FEB 1992	MAR 1992	JUN 1992	JAN 1993	APR 1993	JUN 1993	NOV-DEC 1993	FEB 1994	JUL 1994	SEPT 1994	DEC 1994	MAR 1995
1	PT-10	681.58	673.78	675.88	671.98	671.48	678.87	676.89	670.84	670.57	674.52	674.92	677.79	676.03	672.48	676.13	671.98	675.78	673.83	**********	**********	676.52	**********
2	PT-11	658.28	652.66	653.18	651.06	649.26	653.70	653.88	650.08	648.49	652.20	652.92	653.69	653.55	652.31	654.02	651.75	651.24	653.26	651.59	649.62	653.70	653.98
3	PT-12	652.03	645.73	646.23	643.73	642.53	646.97	646.68	642.47	641.73	646.11	646.29	648.71	647.01	646.25	647.20	644.00	646.14	647.25	**********	**********	**********	**********
4	PT-15	637.84	631.44	632.94	630.09	627.79	634.09	633.55	628.52	627.40	629.36	632.50	633.78	633.59	631.80	633.88	629.43	627.99	632.20	**********	**********	631.47	**********
5	PT-16	637.78	633.96	634.66	633.16	631.26	634.78	634.88	632.10	630.17	633.55	634.46	634.82	634.89	635.08	634.98	633.06	634.29	634.56	**********	**********	635.08	**********
6	PT-17	640.62	634.72	635.92	633.22	632.02	638.32	636.54	631.71	630.12	635.34	635.88	636.64	636.62	635.97	636.39	633.00	635.62	636.85	**********	**********	636.50	**********
7	PT-18	656.59	649.99	650.89	649.79	647.39	651.58	651.43	649.41	646.72	649.87	650.10	650.67	651.57	651.00	651.78	649.26	650.87	650.42	**********	**********	649.86	**********
8	PT-19	645.45	**********	**********	**********	**********	**********	**********	**********	**********	**********	641.67	**********	**********	**********	**********	638.80	638.62	**********	639.07	637.81	641.44	642.35
9	PT-20	647.28	641.68	641.48	640.23	638.08	643.02	641.86	637.96	636.11	638.77	641.06	641.99	642.66	641.18	642.44	639.70	640.58	644.21	**********	**********	642.15	**********
10	PT-21	647.51	641.01	642.91	640.51	638.26	643.66	642.78	639.50	637.95	640.11	635.37	642.39	642.58	647.51	643.42	639.36	639.05	642.32	**********	**********	**********	**********
11	PT-22	648.62	641.82	642.72	640.27	638.22	643.75	643.34	639.27	637.85	641.30	642.83	643.67	643.85	642.42	643.33	640.05	640.78	645.45	**********	**********	**********	**********
12	PT-23	641.54	635.74	636.84	634.74	633.59	637.10	637.27	633.47	632.56	635.07	636.84	637.52	637.35	635.92	637.17	634.33	633.91	638.71	**********	**********	636.77	**********
13	PT-24	636.35	631.85	631.75	631.25	629.35	631.78	631.93	630.40	627.85	631.37	631.65	631.60	632.06	631.85	632.05	631.14	631.82	633.19	**********	**********	632.04	**********
14	PT-25	637.02	631.72	633.12	630.47	626.57	633.48	633.40	628.15	625.45	630.06	632.36	633.15	633.66	633.46	633.58	630.06	630.66	631.96	**********	**********	632.95	**********
15	PT-26	614.64	609.44	611.44	608.14	603.89	611.38	611.76	606.39	603.10	604.22	610.22	611.82	611.68	611.58	611.78	607.79	609.80	611.89	**********	**********	**********	**********
16	MW-27	638.42	634.42	634.22	633.17	630.37	635.07	635.01	632.53	631.85	633.80	634.34	634.35	634.21	633.82	634.79	632.67	634.97	634.07	633.00	632.33	635.62	634.29
17	MW-28	637.41	632.21	632.51	631.76	628.26	632.84	632.97	631.25	629.08	631.84	632.51	632.84	633.28	632.49	632.71	631.64	632.27	633.27	**********	**********	632.47	**********
18	MW-29	637.33	631.43	631.23	630.88	626.83	631.78	631.12	629.01	626.83	630.14	630.45	630.81	631.59	631.45	631.82	630.50	631.21	631.37	**********	**********	631.53	**********
19	MW-30	640.23	633.03	635.13	632.18	630.73	636.15	636.37	629.73	630.71	632.81	634.22	636.25	636.24	635.88	636.07	631.40	633.70	633.59	631.83	631.14	636.15	636.13
20	MW-31	636.86	632.76	633.76	631.26	627.66	634.43	634.34	630.33	627.21	631.04	633.14	633.98	634.60	634.34	634.58	630.73	631.72	632.84	**********	**********	634.11	**********
21	MW-32	641.65	635.35	636.95	633.35	632.55	637.78	637.69	632.40	633.09	634.09	636.66	637.83	637.84	637.67	637.88	633.69	636.85	635.72	**********	**********	638.82	**********
22	MW-33	639.52	633.42	635.62	631.82	630.02	635.92	635.94	633.35	632.15	631.73	635.16	635.95	635.85	635.75	635.76	630.88	634.42	634.25	**********	**********	633.99	**********
23	MW-34	632.89	**********	**********	**********	**********	**********	**********	**********	**********	**********	628.71	**********	**********	**********	**********	629.97	630.12	627.05	626.39	628.38	**********	**********	630.28	**********
24	MW-35D	631.82	**********	**********	**********	**********	**********	**********	**********	**********	**********	628.88	**********	**********	**********	**********	628.42	629.63	628.01	629.26	629.66	**********	**********	629.59	**********
25	MW-36	632.09	**********	**********	**********	**********	**********	**********	**********	**********	**********	629.10	**********	**********	**********	**********	628.94	629.76	628.19	629.61	629.85	628.66	626.43	629.81	629.75
26	MW-37	632.89	**********	**********	**********	**********	**********	**********	**********	**********	**********	629.73	**********	**********	**********	**********	630.91	630.58	628.40	626.65	629.61	**********	**********	630.75	**********
27	MW-38D	637.99	**********	**********	**********	**********	**********	**********	**********	**********	**********	633.91	**********	**********	**********	**********	634.67	634.61	632.76	633.83	634.10	**********	**********	634.59	**********
28	MW-39	659.72	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	657.92	657.53	656.67	656.37	657.69	**********	**********	657.99	**********
29	MW-40	659.46	**********	**********	**********	**********	**********	**********	**********	**********	**********	655.31	**********	**********	**********	**********	655.96	656.33	653.16	653.56	656.40	653.40	652.18	655.98	655.85
30	MW-41D	694.02	**********	**********	**********	**********	**********	**********	**********	**********	**********	686.91	**********	**********	**********	**********	687.80	687.96	685.74	685.76	686.56	**********	**********	687.19	**********
31	MW-42D	683.04	**********	**********	**********	**********	**********	**********	**********	**********	**********	679.43	**********	**********	**********	**********	680.40	680.66	677.34	674.94	680.61	**********	**********	680.18	**********
32	MW-43	657.9	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	653.32	652.48	**********	**********	**********	655.42	**********
33	MW-44	654.12	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	648.63	646.98	**********	**********	**********	**********	**********
34	MW-45	651.13	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	646.09	645.43	**********	646.20	644.75	648.47	648.08	**********	**********
35	MW-48	650.65	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	644.01	642.61	**********	**********	**********	**********	**********	647.28	**********
36	MW-47	628.53	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	623.28	621.47	**********	622.83	621.64	625.68	625.69	**********	**********
37	MW-48	648.57	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	642.77	642.18	**********	642.65	641.57	645.32	645.47	**********	**********
38	MW-49D	650.69	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	644.86	642.74	**********	**********	**********	**********	**********	647.11	**********
39	MW-50D	650.27	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	644.56	642.90	**********	**********	**********	**********	**********	646.39	**********
40	MW-51D	628.64	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	623.21	621.56	**********	**********	**********	**********	**********	625.68	**********
41	MW-52D	626.7	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	623.06	620.04	**********	**********	**********	**********	**********	624.20	**********
42	MW-53	639.63	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	631.49	630.13	**********	**********	**********	**********	**********	632.83	**********
43	MW-54D	639.34	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	631.39	629.88	**********	**********	**********	**********	**********	633.29	**********
44	MW-55D	639.43	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	630.23	630.51	**********	**********	**********	**********	**********	633.37	**********
45	MW-56	630.69	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	627.08	627.15	**********	626.87	626.67	627.78	627.74	**********	**********
46	MW-57D	630.27	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	627.14	627.11	**********	**********	**********	**********	**********	628.60	**********
47	MW-58D	629.86	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	626.46	625.68	**********	**********	**********	**********	**********	628.53	**********
48	MW-59	656.83	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	653.63	651.61	654.95	654.93	**********	**********
49	MW-60	660.15	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	656.90	654.83	658.11	658.13	**********	**********
50	MW64D-1	667.79	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	664.38	**********	665.03	**********	**********	**********
51	MW64D-2	635.2	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	630.75	**********	633.49	**********	**********	**********
52	MW64D-3	648.88	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	645.89	**********	646.91	**********	**********	**********
53	MW64D-4	661.33	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	655.10	**********	657.39	**********	**********	**********
54	MW64D-5	652.49	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	646.98	**********	**********	**********	**********	**********
55	MW84A-1	745.77	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	736.63	**********	**********	**********	**********	**********
56	MW84A-2	740.98	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	734.53	**********	**********	**********	**********	**********
57	MW84A-3	739.85	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	734.08	**********	**********	**********	**********	**********
58	MW18-1	735.54	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	732.14	**********	**********	**********	**********	**********	**********	**********	**********
59	MW18-2	734.55	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	731.01	**********	**********	**********	**********	**********	**********	**********	**********
60	MW18-3	735.48	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	731.26	**********	**********	**********	**********	**********	**********	**********	**********
61	MW17-1	736.27	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	733.47	**********	**********	**********	**********	**********	**********	**********
62	MW17-2	733.74	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	730.55	**********	**********	**********	**********	**********	**********	**********
63	MW17-3	732.15	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	729.77	**********	**********	**********	**********	**********	**********	**********
64	MW17-4	734.58	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	731.56	**********	**********	**********	**********	**********	**********	**********
65	MW25-3	745.56	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	742.41	**********	**********	**********	**********	**********	**********	**********

TABLE 5-2 (cont.)

WATER TABLE ELEVATIONS AND DEVELOPMENT OF A SEASONALLY AVERAGED WATER TABLE AT THE ASH LANDFILL

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

	WELL	ELEVATION TOP OF PVC	SEASONAL ARITHMETIC MEAN OF ELEVATIONS (MSL) - per Anderson and Woessner, 1992. 1990	1991	1993	1994	ARITHMETIC MEAN	SAMPLE STANDARD DEVIATION OF ELEVATIONS 1990	1991	1993	1994
1	PT-10	681.58	673.28	673.16	674.09		673.51	1.99	2.97	2.17	
2	PT-11	658.26	651.54	651.16	652.33		651.68	1.76	2.36	1.21	
3	PT-12	652.03	644.56	644.25	645.90		644.90	1.73	2.51	1.35	
4	PT-15	637.64	630.57	629.71	630.78		630.35	2.19	2.88	2.60	
5	PT-16	637.76	633.28	632.68	634.35		633.43	1.47	2.02	0.93	
6	PT-17	640.62	633.97	633.43	635.25		634.21	1.71	3.01	1.53	
7	PT-18	656.59	649.47	649.38	650.73		649.85	1.44	1.96	1.06	
8	PT-19	645.45				640.17	640.17				2.09
9	PT-20	647.28	640.42	638.68	640.98		640.02	1.71	2.40	1.15	
10	PT-21	647.51	640.67	640.09	642.34		641.03	1.91	2.01	3.98	
11	PT-22	648.62	640.76	640.44	641.65		640.95	1.97	2.40	1.50	
12	PT-23	641.54	635.23	634.59	635.33		635.05	1.39	2.06	1.50	
13	PT-24	636.35	631.00	630.39	631.67		631.02	1.12	1.81	0.39	
14	PT-25	637.02	630.47	629.27	631.84		630.56	2.82	3.34	1.84	
15	PT-26	614.64	608.23	606.37	610.24		608.28	3.19	3.85	1.86	
16	MW-27	639.42	633.05	633.25	634.06		633.45	1.87	1.38	1.06	
17	MW-28	637.41	631.19	631.29	632.28		631.58	1.97	1.63	0.46	
18	MW-29	637.33	630.04	629.28	631.25		630.19	2.17	1.84	0.56	
19	MW-30	640.23	632.77	632.36	634.26		633.13	1.84	2.93	2.19	
20	MW-31	636.86	631.36	630.73	632.84		631.64	2.67	2.93	1.91	
21	MW-32	641.65	634.55	634.32	636.47		635.11	1.99	2.35	1.90	
22	MW-33	639.52	632.75	633.29	634.20		633.41	2.37	1.89	2.30	
23	MW-34	632.89			628.38		628.38				
24	MW-35D	631.82			629.08		629.08				
25	MW-36	632.09			629.38	628.66	629.02				1.58
26	MW-37	632.89			629.14		629.14				
27	MW-38D	637.99			633.97		633.97				
28	MW-39	659.72			657.12		657.12				
29	MW-40	659.46			654.75	654.35	654.55				1.87
30	MW-41D	694.02			686.82		686.82				
31	MW-42D	683.04			678.34		678.34				
32	MW-43	657.9			652.89	NSA-2	652.89	NA			
33	MW-44	654.12			647.81	NSA-2	647.81	NA			
34	MW-45	651.13			645.76	NSA-2	646.88				1.73
35	MW-46	650.85			643.31	NSA-2	643.31	NA			
36	MW-47	628.53			622.38	NSA-2	623.96				2.05
37	MW-48	648.57			642.48	NSA-2	643.75				1.95
38	MW-49D	650.69			643.80	NSA-2	643.80	NA			
39	MW-50D	650.27			643.73	NSA-2	643.73	NA			
40	MW-51D	628.64			622.39	NSA-2	622.39	NA			
41	MW-52D	626.7			621.55	NSA-2	621.55	NA			
42	MW-53	639.63			630.81	NSA-2	630.81	NA			
43	MW-54D	639.34			630.64	NSA-2	630.64	NA			
44	MW-55D	639.43			630.37	NSA-2	630.37	NA			
45	MW-56	630.69			627.12	NSA-2	627.27				0.58
46	MW-57D	630.27			627.13	NSA-2	627.13	NA			
47	MW-58D	629.88			626.06	NSA-2	626.06	NA			
48	MW-59	656.83				653.78	653.78				1.57
49	MW-60	660.15				656.99	656.99				1.55
50	MW64D-1	667.79				664.70	NSA-2	664.70	NA		
51	MW64D-2	635.2				632.12	NSA-2	632.12	NA		
52	MW64D-3	648.88				646.40	NSA-2	646.40	NA		
53	MW64D-4	661.33				656.25	NSA-2	656.25	NA		
54	MW64D-5	652.49				646.96	NSA-1	646.96	NA		
55	MW64A-1	745.77				736.63	NSA-1	736.63	NA		
56	MW64A-2	740.98				734.53	NSA-1	734.53	NA		
57	MW64A-3	739.85				734.08	NSA-1	734.08	NA		
58	MW18-1	735.54			732.14	NSA-1	732.14	NA			
59	MW18-2	734.55			731.01	NSA-1	731.01	NA			
60	MW18-3	735.48			731.26	NSA-1	731.26	NA			
61	MW17-1	736.27				733.47	NSA-1	733.47	NA		
62	MW17-2	733.74				730.55	NSA-1	730.55	NA		
63	MW17-3	732.15				729.77	NSA-1	729.77	NA		
64	MW17-4	734.58				731.58	NSA-1	731.58	NA		
65	MW25-3	745.56				742.41	NSA-1	742.41	NA		
								1.96	2.37	1.56	1.66

Note:
NSA-1 = Not a seasonal average, represents only 1 water elevation for the given year
NSA-2 = Not a seasonal average, represents only 2 water elevations for the given year
NA = Needs Adjusting

TABLE 5-2 (cont.)

WATER TABLE ELEVATIONS AND DEVELOPMENT OF A SEASONALLY AVERAGED WATER TABLE AT THE ASH LANDFILL

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

	WELL	ELEVATION TOP OF PVC	ADJUSTED ARITHMETIC MEAN	COMMENTS	SEASONALLY AVERAGED GROUNDWATER ELEVATION FOR MODEL CALIBRATION (MSL)
1	PT-10	681.58	673.51	no adjustment	673.51
2	PT-11	658.26	651.68	no adjustment	651.68
3	PT-12	652.03	644.90	no adjustment	644.90
4	PT-15	637.84	630.35	no adjustment	630.35
5	PT-16	637.76	633.43	no adjustment	633.43
6	PT-17	640.62	634.21	no adjustment	634.21
7	PT-18	656.59	649.85	no adjustment	649.85
8	PT-19	645.45	640.17	no adjustment	640.17
9	PT-20	647.28	640.02	no adjustment	640.02
10	PT-21	647.51	641.03	no adjustment	641.03
11	PT-22	648.62	640.95	no adjustment	640.95
12	PT-23	641.54	635.05	no adjustment	635.05
13	PT-24	636.35	631.02	no adjustment	631.02
14	PT-25	637.02	630.56	no adjustment	630.56
15	PT-26	614.64	608.28	no adjustment	608.28
16	MW-27	639.42	633.45	no adjustment	633.45
17	MW-28	637.41	631.58	no adjustment	631.58
18	MW-29	637.33	630.19	no adjustment	630.19
19	MW-30	640.23	633.13	no adjustment	633.13
20	MW-31	636.86	631.64	no adjustment	631.64
21	MW-32	641.65	635.11	no adjustment	635.11
22	MW-33	639.52	633.41	no adjustment	633.41
23	MW-34	632.89	628.38	no adjustment	628.38
24	MW-35D	631.82	629.08	no adjustment	629.08
25	MW-36	632.09	629.02	no adjustment	629.02
26	MW-37	632.89	629.14	no adjustment	629.14
27	MW-38D	637.99	633.97	no adjustment	633.97
28	MW-39	659.72	657.12	no adjustment	657.12
29	MW-40	659.46	654.55	no adjustment	654.55
30	MW-41D	694.02	686.82	no adjustment	686.82
31	MW-42D	683.04	678.34	no adjustment	678.34
32	MW-43	657.9	653.78	1 std dev subtracted from Dec '94 elev	653.78
33	MW-44	654.12	648.59	1/2 std dev added to arithmetic mean	648.59
34	MW-45	651.13	646.88	no adjustment	646.88
35	MW-46	650.65	645.62	1 std dev subtracted from Dec '94 elev	645.62
36	MW-47	628.53	623.98	no adjustment	623.98
37	MW-48	648.57	643.75	no adjustment	643.75
38	MW-49D	650.69	645.45	1 std dev subtracted from Dec '94 elev	645.45
39	MW-50D	650.27	644.73	1 std dev subtracted from Dec '94 elev	644.73
40	MW-51D	626.64	624.02	1 std dev subtracted from Dec '94 elev	624.02
41	MW-52D	626.7	622.54	1 std dev subtracted from Dec '94 elev	622.54
42	MW-53	639.63	631.17	1 std dev subtracted from Dec '94 elev	631.17
43	MW-54D	639.34	631.63	1 std dev subtracted from Dec '94 elev	631.63
44	MW-55D	639.43	631.71	1 std dev subtracted from Dec '94 elev	631.71
45	MW-56	630.69	627.27	no adjustment	627.27
46	MW-57D	630.27	626.94	1 std dev subtracted from Dec '94 elev	626.94
47	MW-58D	629.86	626.87	1 std dev subtracted from Dec '94 elev	626.87
48	MW-59	656.83	653.78	no adjustment	653.78
49	MW-60	660.15	656.99	no adjustment	656.99
50	MW64D-1	667.79	663.37	1 std dev subtracted from Dec '94 elev	663.37
51	MW64D-2	635.2	631.83	1 std dev subtracted from Dec '94 elev	631.83
52	MW64D-3	648.88	645.25	1 std dev subtracted from Dec '94 elev	645.25
53	MW64D-4	661.33	655.73	1 std dev subtracted from Dec '94 elev	655.73
54	MW64D-5	652.49	648.20	3/4 std dev added to Jul '94 elev	648.20
55	MW64A-1	745.77	737.87	3/4 std dev added to Jul '94 elev	737.87
56	MW64A-2	740.98	735.77	3/4 std dev added to Jul '94 elev	735.77
57	MW64A-3	739.85	735.32	3/4 std dev added to Jul '94 elev	735.32
58	MW18-1	735.54	730.97	3/4 std dev subtracted from Nov/Dec'93 elev	730.97
59	MW18-2	734.55	729.84	3/4 std dev subtracted from Nov/Dec'93 elev	729.84
60	MW18-3	735.48	730.09	3/4 std dev subtracted from Nov/Dec'93 elev	730.09
61	MW17-1	736.27	731.81	1 std dev subtracted from Dec '94 elev	731.81
62	MW17-2	733.74	728.89	1 std dev subtracted from Dec '94 elev	728.89
63	MW17-3	732.15	728.11	1 std dev subtracted from Dec '94 elev	728.11
64	MW17-4	734.58	729.92	1 std dev subtracted from Dec '94 elev	729.92
65	MW25-3	745.56	740.75	1 std dev subtracted from Dec '94 elev	740.75

Justification for adjustments to obtain seasonal average elevation:
1) Adjustements were based on seasonal data for selected wells for which standard deviations were calculated
2) December through March elevations represent maximum water table and were adjusted down by 1 standard deviation
3) July elevations represent near minimum water table and were adusted up by 3/4 standard deviation.
4) Nov/Dec elevations represent near maximum water table and were adusted down by 3/4 standard deviation

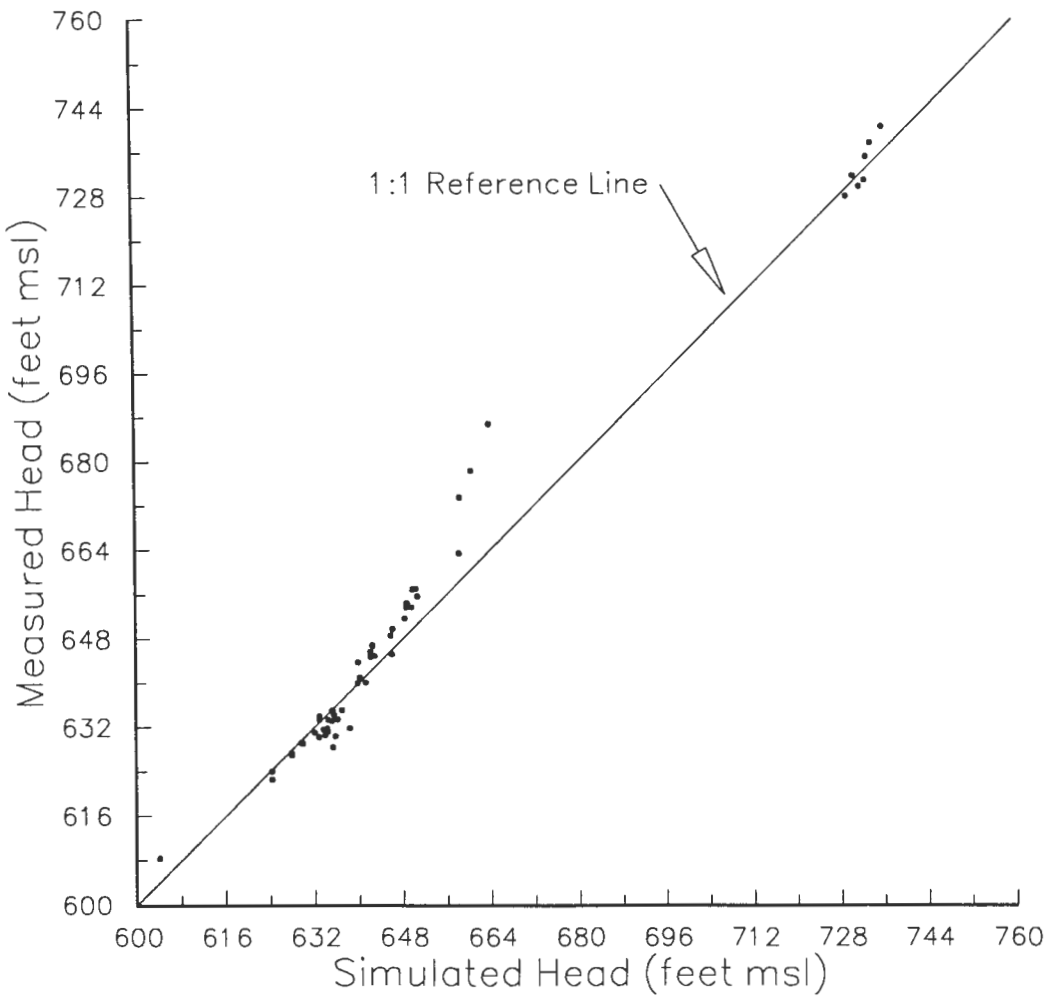
A scatter plot of measured heads versus simulated heads shows the calibration fit for the model (Figure 5-6). The plot shows that the simulated heads depart from the measured (or target) heads between the elevations of approximately 604 and 680 feet above MSL, which corresponds to a drop in land surface slope east of the Ash Landfill (Figures 5-6 and 5-3). A similar departure of simulated heads from the target heads occurs in the western portion of the site at the drop in the land surface near Seneca Lake, however, since no monitoring well data were available from this area to establish the water table in this area, some error would be expected in this area.

A listing of measured and simulated heads, together with their differences and three types of average of the differences are presented in Table 5-3. The average of the differences can be used to quantify the average error in the calibration, with the final objective being to minimize this error. The three types of average are as follows:

1. Mean Error (ME), which is the mean difference between the measured heads and the simulated heads;
2. Mean Absolute Error (MAE), which is the mean of the absolute value of the differences in measured and simulated heads; and
3. Root Mean Squared Error (RMS), which is the average of the squared differences in measured an simulated heads.

To help in evaluating the calibration of the flow model, ME, MAE and RMS were plotted against net recharge, the most significant calibration criterion. The plots indicate that all three averages provide a well-defined minimum (Figure 5-7). Specifically, the ME provided the lowest minimum when a net recharge rate of 0.00486 feet/year (or 0.00001332 feet/day) was used. Hydraulic gradients for the simulated heads at the Ash Landfill are very similar to those for the observed heads. The simulated gradient between till/weathered shale wells PT-18 and PT-17 was 0.014 ft/ft compared to a measured gradient of 0.021 ft/ft. Between wells MW-40 and MW-56, that are also till/weathered shale wells, the simulated gradient was 0.016 ft/ft compared to a gradient of 0.019 ft/ft measured in the field. For the competent shale wells PT-10 and MW-36, a simulated gradient of 0.015 ft/ft was computed while a gradient of 0.025 was measured. Also, there were no significant vertical gradients simulated by the model; this is consistent with vertical gradients measured at the site.

Plot of Simulated versus Measured Heads
Monitoring Wells



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PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE
SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT.	DWG NO.
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 5-6
PLOT OF SIMULATED VERSUS MEASURED HEADS

SCALE	DATE
NA	JANUARY 1996

TABLE 5-3

COMPARISON OF MEASURED AND SIMULATED HEADS

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	MODEL HEAD	Difference (feet)	Absolute Difference	Squared Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7	21.66
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9	14.99
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1	4.50
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0	1.03
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9	3.74
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1	4.25
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4	1.92
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9	525.10
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7	314.53
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0	225.28
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1	25.75
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7	45.19
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2	51.73
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0	25.34
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8	33.09
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1	25.81
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2	17.34
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3	10.73
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7	13.32
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7	7.22
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3	18.28
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4	11.73
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3	10.59
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644 75	646.0	0.7	0.7	0.56
PT-12	44	81	1	647.25	641.73	644.90	645 40	644 40	642.9	-2.0	2.0	4 00
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5	6 42
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9	14 84
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0 8	0.8	0.69
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7	0.56
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1	1.28
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2	0.05
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9	3.56
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1	0.02
PT-17	53	100	1	636.85	630.12	634.21	634 71	633.71	635.5	1.3	1.3	1.65
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1	1.14
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9	0.90
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5	0.28
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8	7.77
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0	3.89
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6	43.11
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6	6.69
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7	7.05
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7	7.11
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0	4.07
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2	10.41
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0	0.97
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3	11.17
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5	29.71
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6	6.83
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5	0.22
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8	0.67
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9	0.78
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9	47.85
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6	0 40
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1 0	0 91
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0	1.05
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3	0.08
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624 3	0.3	0.3	0.12
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8	3.08
PT-26	73	174	1	611.82	603.10	608.28	608 78	607.78	604 0	-4.3	4.3	18.30

Stastical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03
RMS=	5.71
	32.57

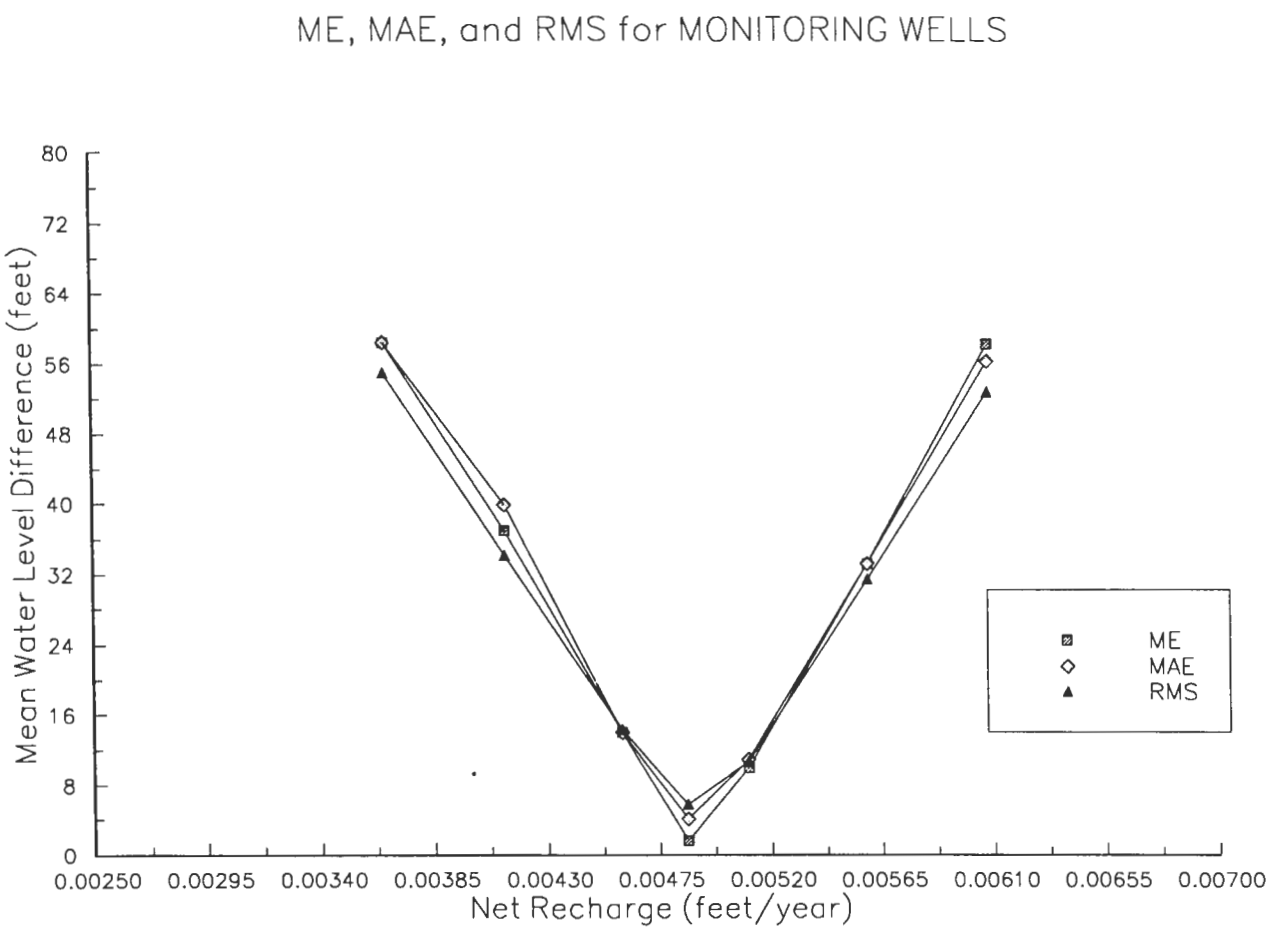

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FIGURE 5-7
PLOT SHOWING THE EFFECT OF NET RECHARGE ON ME, MAE, AND RMS

SCALE NA | DATE OCTOBER 1995

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5.3.2 Water Balance

The water balance also served as a calibration criterion for the groundwater flow model. Two aspects of the water balance (or volumetric budget) were evaluated.

First, the net recharge value (Q_{in}) used to calibrate the flow model (1.332×10^{-5} ft/day or 0.058 in/yr) was approximately the same as the estimated value calculated for the water budget (1.622×10^{-5} ft/day or 0.07 in/yr). Also, there was relatively good agreement between the flows out of the modeled area (Q_{out}) as calculated in the preliminary water budget and in the MODFLOW model. In the preliminary water budget, a total outflow (Q_{out}) of 2,257 ft^3/day was calculated, compared to a total outflow of 2,004 ft^3/day calculated by the model.

Second, the percent error in the volumetric budget as calculated by the MODFLOW model was 0 percent, with a total flow in (Q_{in}) of 2004 ft^3/day (solely from recharge) and a total flow out (Q_{out}) at constant head cells at Seneca Lake of 2,004 ft^3/day. The model calculated a difference between Q_{in} and Q_{out} of -0.077 ft^3/day.

5.3.3 Groundwater Velocity and Advective Travel Time

Model calibration was also supported by comparing groundwater velocities calculated using two different methods. The methods are as follows:

- Darcy groundwater velocity equation; and
- Travel time using MODPATH.

Using hydraulic data from the Ash Landfill site, a range of groundwater flow velocities in the till/weathered shale was calculated to be 45.5 ft/year, for an effective porosity of 20%, and 60.7 ft/year, for an effective porosity of 15% (Parsons ES, 1994a). The groundwater velocity in the competent shale was calculated to be 14.3 ft/year.

The model MODPATH was used to calculate the groundwater velocity in layer 1 by determining the time for groundwater to travel a fixed distance in layer 1 (See Appendix E). This is accomplished releasing one particle at the center of a cell, within the Ash Landfill grid matrix, and determining the average travel time for the particle to discharge into layer 2 (Figures 5-8 and 5-9). The process was stopped when the particle entered a cell in layer 2. The particle traveled a total of approximately 8,000 feet in layer 1 before discharging into layer 2 in 1.88E+05 days. The

groundwater velocity in this layer was 0.067 feet/day or approximately 25 feet/year. This velocity represents an average velocity for the entire 8,000 foot distance covered by the particle, and is lower when compared to the value calculated from the on-site data. One explanation for this difference may be due to the steeper hydraulic gradient on-site compared to the gradients located west of the site, between the western boundary of SEDA and Route 96A

Also, a plume of sodium was identified at the Ash Landfill and was found to have the same general longitudinal profile as the VOC plume (Figure 5-10). The series of wells included in the profile includes PT-18, PT-12, PT-22, MW-53, and MW-56; MW-40 is a well located directly upgradient of the sodium source. Like the VOC plume, the sodium plume originates in the Ash Landfill area (near PT-18) and extends west to approximately the SEDA boundary. Both plumes are believed to have traveled along the same flow path. In Section 6.0, information from the sodium plume is used to develop a biodegradation constant for the VOCs at the site.

5.4 SENSITIVITY ANALYSIS

A sensitivity analysis was performed after the flow model was calibrated. The purpose of the sensitivity analysis was to determine how sensitive the calibrated model was to variations in the aquifer parameters, stresses, and boundary conditions. Thus, during the sensitivity analysis the calibrated values for hydraulic conductivity, storage parameters, recharge and boundary conditions were systematically changed within the previously established plausible range (Anderson and Woessner, 1992). For this model, boundary conditions were characterized using well-defined physical and hydrologic boundaries and thus they were not included as part of the sensitivity analysis.

The sensitivity analysis was performed by changing one input parameter at a time and evaluating the effects on the distribution of the heads (the dependent variable) in the model. The input parameters evaluated for the sensitivity analysis of the model were as follows:

1. Net recharge;
2. Horizontal hydraulic conductivity (k_h); and
3. Vertical hydraulic conductivity (k_v).

Each parameter was varied by 10, 20, and 50 percent from its original calibrated value and the resulting effects on the head were noted (Appendix D). The results of the analysis are graphically shown in Figure 5-11. Net recharge appears to be the most sensitive parameter compared to K_h and

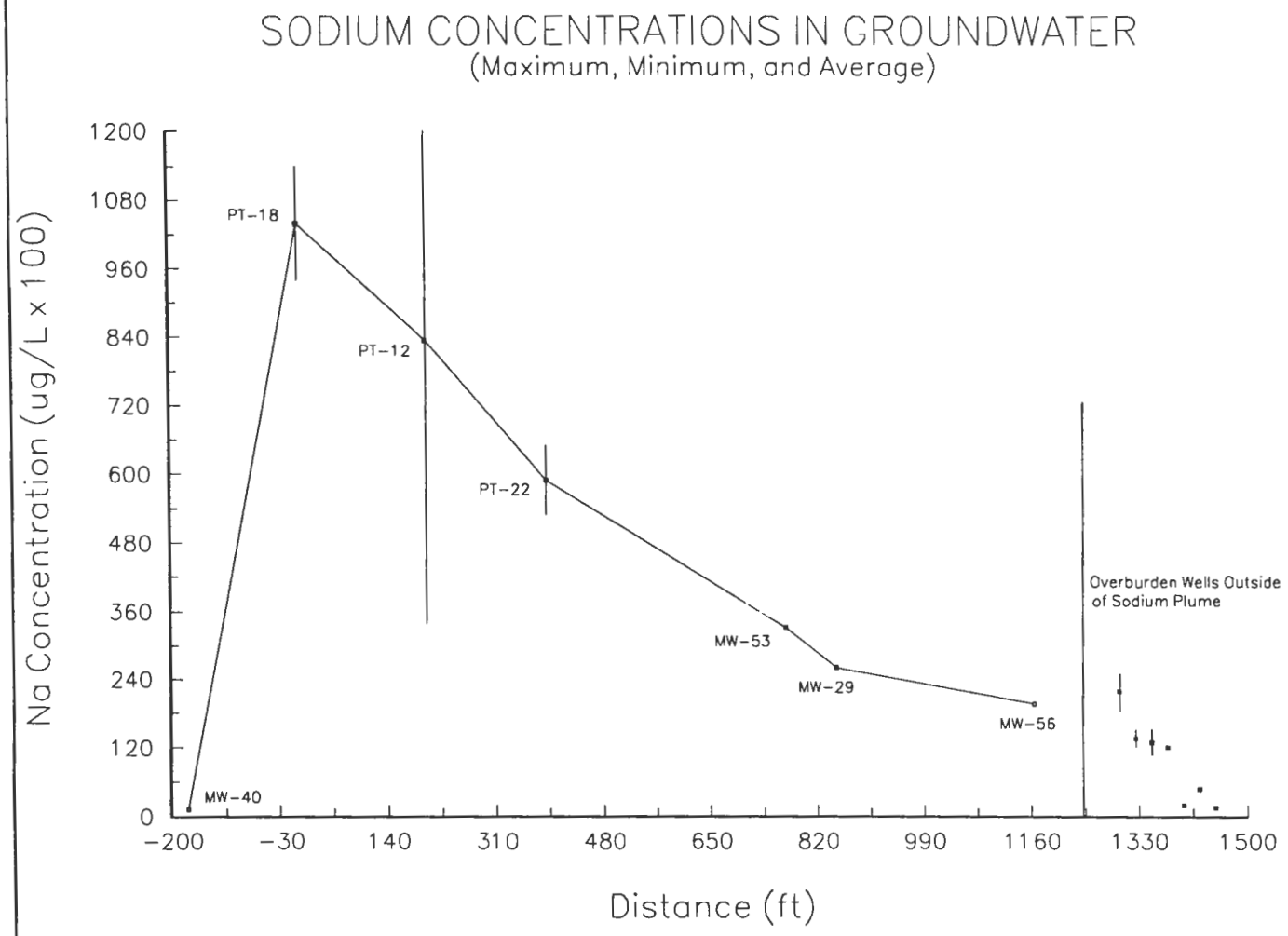

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FIGURE 5-10
SODIUM CONCENTRATIONS IN GROUNDWATER (MAXIMUM, MINIMUM, AND AVERAGE)

SCALE NA | DATE OCTOBER 1995

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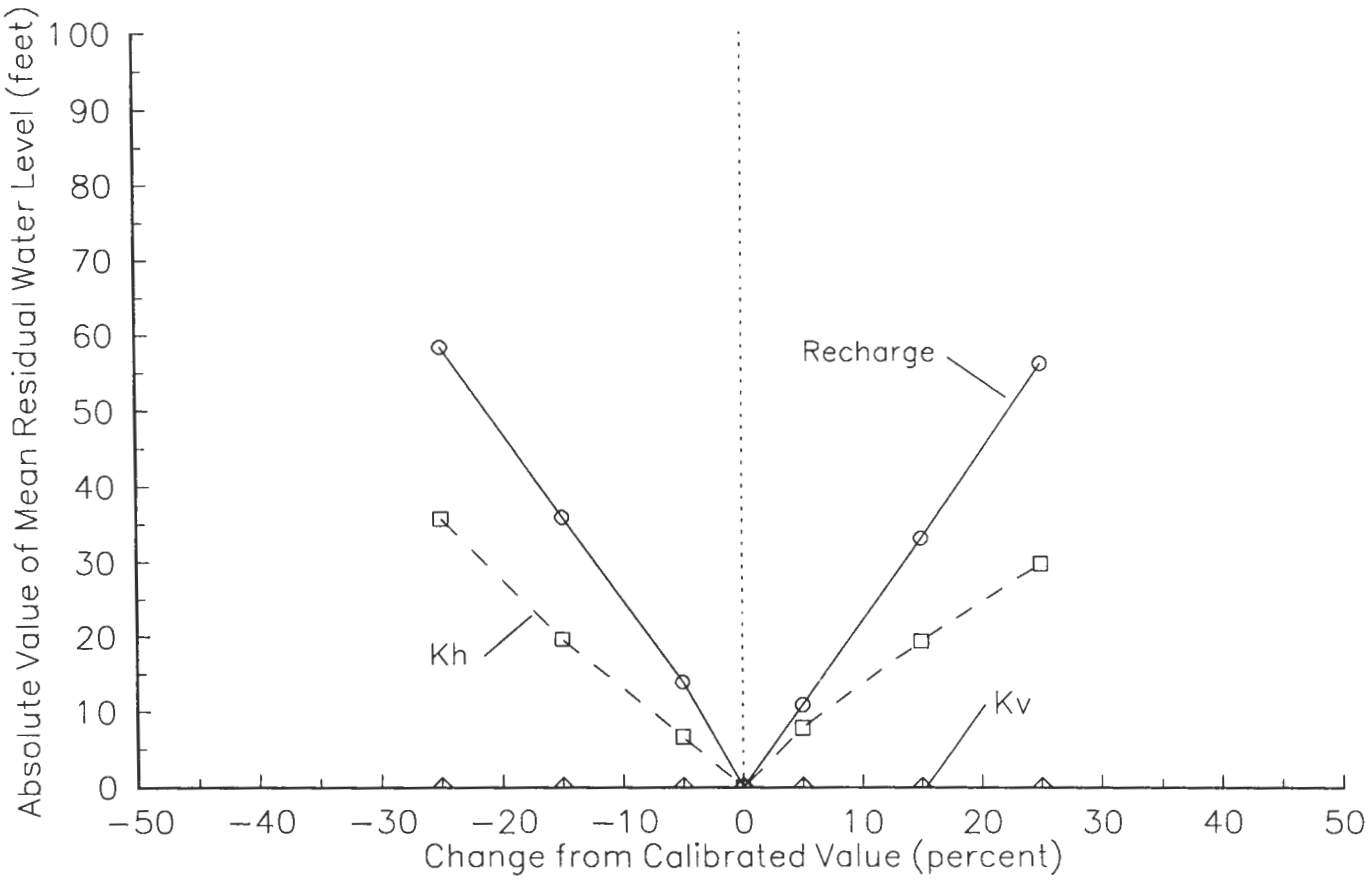

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FIGURE 5-11
PLOT SHOWING THE SENSIVITY OF THE FLOW MODEL TO RECHARGE, Kh, AND Kv

SCALE	DATE
NA	OCTOBER 1995

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K_v. Changes of up to +/- 25% of the calibrated net recharge value produced a mean residual of approximately 60 feet of piezometric head for the model. For K_h , changes of +/- 25% from the calibrated value produced approximately 30 to 35 foot mean residual. Changes of up to +/- 25 % in K_v produced no measurable changes in head from their calibrated values. Storage parameters were not varied because the model is a steady-state simulation.

5.5 GROUNDWATER FLOW MODEL RESULTS

The steady-state groundwater flow system at the Ash Landfill was simulated by MODFLOW using a stratigraphic three-dimensional grid that extended to 52 feet below the land surface. The model successfully simulated heads over the Ash Landfill site and the surrounding area using well-defined physical and hydraulic boundaries for the flow system. The heads calculated by the model indicate that groundwater flow is primarily to the west in the upper portions of the plateau separating Seneca and Cayuga Lakes. The groundwater flow appears to bend to the southwest as it approaches Seneca Lake (Figure 5-5).

6.0 TRANSPORT MODEL DESIGN AND RESULTS

6.1 SELECTION OF MODEL CODE

The transport modeling portion of this study required a computer code that could simulate important physical and chemical effects in three-dimensional groundwater flow systems. The MT3D computer code was selected to simulate contaminant transport for this project for the following reasons:

- MT3D simulates advection, dispersion, and chemical reactions for contaminants in groundwater flow systems in three dimensions;
- MT3D uses unformatted head and flow files saved in MODFLOW for the transport calculations;
- The accuracy of the MT3D code has been checked against several analytical solutions;
- MT3D includes a mass balance computation;
- MT3D has been used to simulate contaminant transport in numerous studies; and
- MT3D allows the flow model to be constructed and calibrated independently.

The reliability rating for MT3D indicates that it has peer-reviewed theory, it has been verified and field tested, and it has many users (EPA, 1993).

6.2 RELATIONSHIP BETWEEN CONCEPTUAL MODEL AND MT3D NUMERICAL MODEL

The MT3D transport model can be used in conjunction with the block-centered finite-difference MODFLOW model. Thus, the aspects of the conceptual model are preserved in the transport model because MT3D retrieves the hydraulic heads and the various flow and sink/source terms saved by the flow model, automatically incorporating the specified hydrologic boundary conditions.

6.3 ASSIGNMENT OF INPUT PARAMETER VALUES FOR MT3D

The MT3D model uses a modular structure similar to that implemented in MODFLOW. Like the MODFLOW model, the MT3D model uses a main program and complementary series of packages, and each of these packages deals with a single aspect of the transport simulation. Input parameter

C:\ACAD\SENECA\ASHMODEL\CMSPS.DWG

LEGEND

- AREA OF INACTIVE CELLS
- GROUNDWATER FLOW DIRECTION IN TILL/WEATHERED SHALE AQUIFER
- ACTIVE MODEL BOUNDARY
- CONSTANT-HEAD BOUNDARY
- GROUNDWATER DIVIDE NO-FLOW BOUNDARY
- MODEL CELLS
- MONITORING WELL
- STREAM / CREEK
- INTERMITTENT STREAM
- RAILROAD TRACKS
- 550.0 — GROUND WATER CONTOUR BASED ON SIMULATED HEADS
- 650 — MEASURED GROUNDWATER CONTOUR BASED ON MEASURED HEADS
- VOC PLUME

N

800 0 800 1600

1" = 1600'

GROUNDWATER CONTOUR INTERVAL IS 10 FEET.

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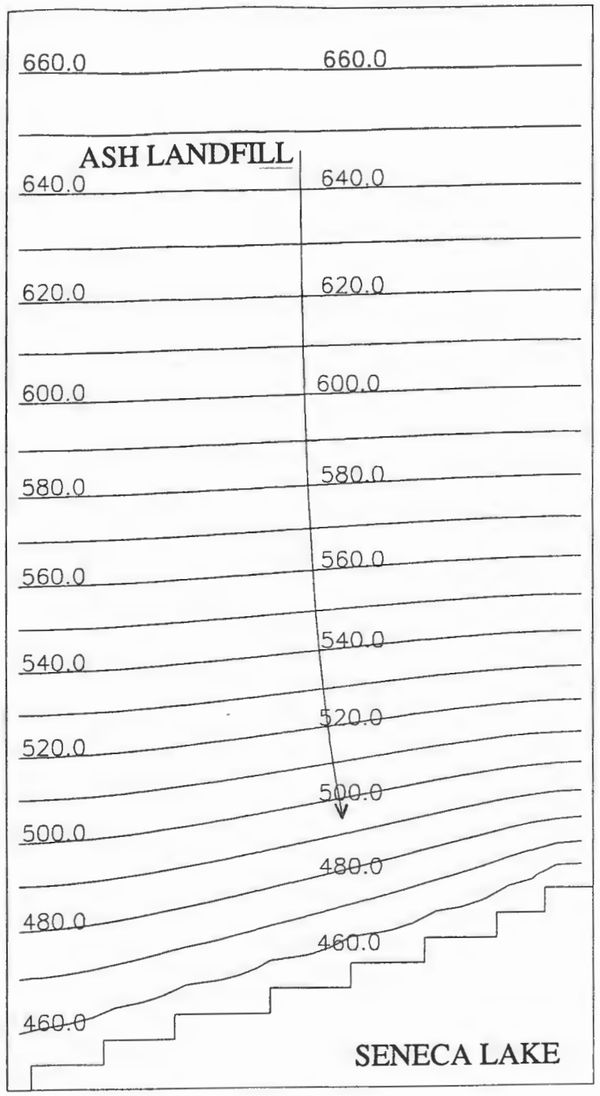
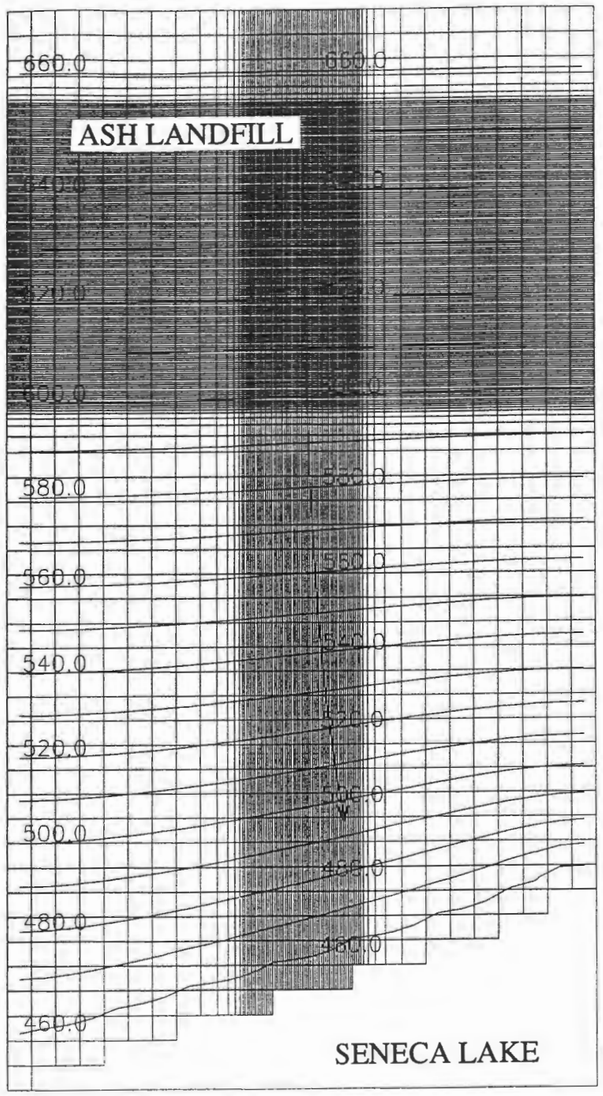
FIGURE 5-5
COMPARISON OF MEASURED AND SIMULATED HEADS

SCALE 1" = 1600' | DATE JANUARY 1996 | REV A





A. PATHLINE TRACE WITHOUT MODEL GRID

LEGEND:

560.0 LINE OF EQUAL SIMULATED HEAD

PARTICLE PATHLINE TRACE

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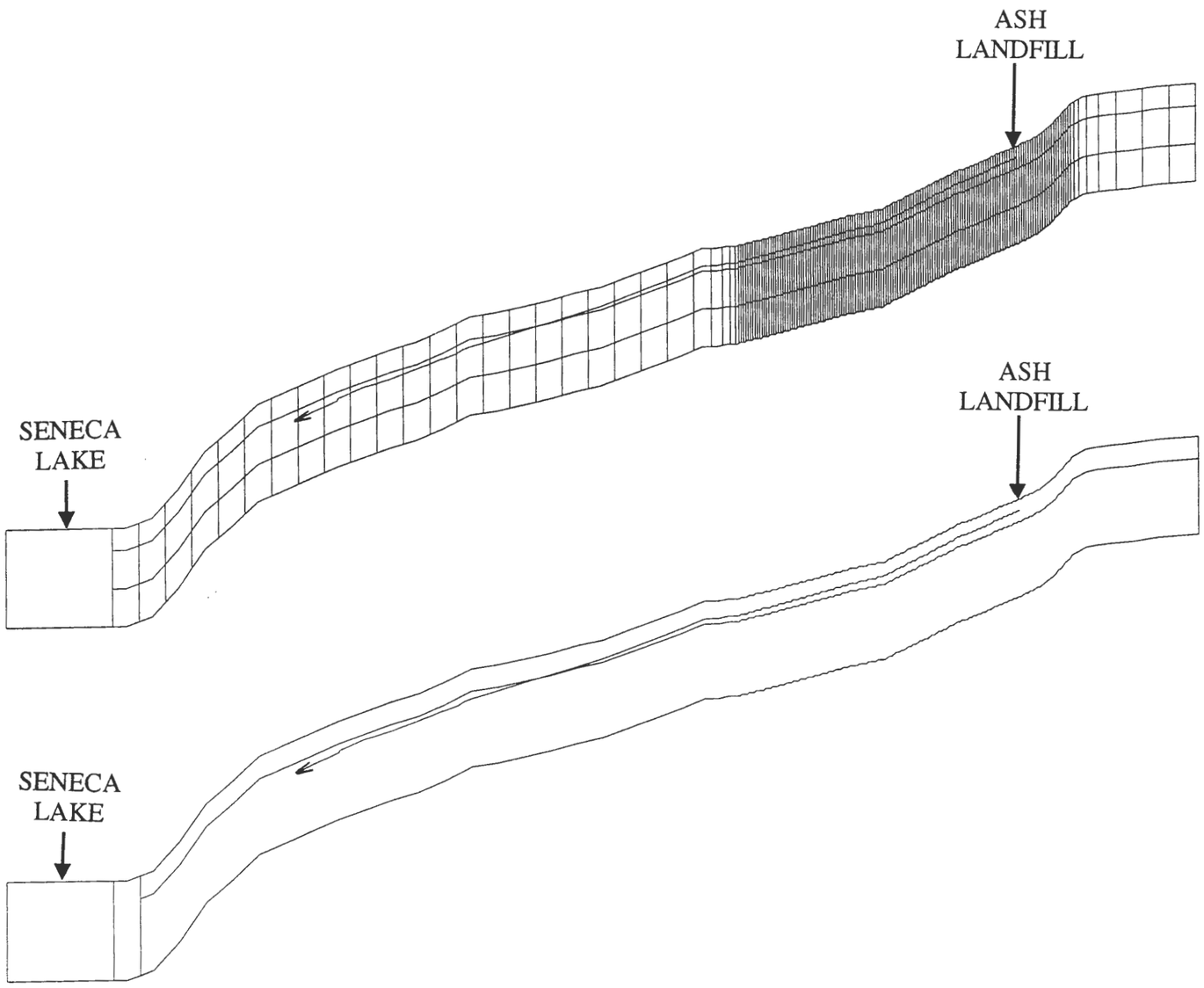
FIGURE 5-
PATHLINE TRACE
SINGLE PARTICLE RE
LAYER 1 AT THE ASH

SCALE NA DATE



A. PATHLINE TRACE WITH MODEL GRID

B. PATHLINE TRACE WITHOUT MODEL GRID

VERTICAL EXAGGERATION IS 20.0

Pathline Trace of One Particle Released in Layer 1 at the Ash Landfill

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FIGURE 5-9
CROSS-SECTION PATHLINE TRACE FOR A SINGLE PARTICLE RELEASED IN LAYER 1 AT THE ASH LANDFILL

SCALE: NA | DATE: JANUARY 1996

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values are entered into the main program and the various packages for use in the model. The three model scenarios were simulated using five packages. The packages are as follows:

1. Basic Transport Package;
2. Advection Package;
3. Dispersion Package;
4. Sink & Source Mixing Package; and
5. Chemical Reaction Package.

Input parameter values for the MT3D model were derived from both site investigation data and from the literature (when site-specific data were not available). The parameter values that define and affect contaminant transport are discussed below relative to the package in which they are specified. Three scenarios were simulated for this project, and some of the input parameters varied depending on what scenario was simulated. Table 6-1 presents the selected input parameters for the transport model along with an acceptable range for each value; the best estimates for the parameters used in the model are also presented.

Because MT3D is a complementary program to MODFLOW, it uses the same model boundary and grid conditions that were used for MODFLOW (Figure 6-1). Therefore, none of the physical aspects of the model grid or groundwater flow parameters will be discussed here.

6.3.1 Basic Transport Package Parameters

In the Basic Transport Package, which is the main program, general model characteristics are specified, including: the number of model layers, aquifer layer types, grid dimensions and elevations, the major transport packages to be used, effective porosity values, concentration boundary conditions, the starting concentration field, and various aspects of the model output. For this model, the number of model layers, the aquifer layer types and the grid were the same as that used in the MODFLOW model.

The effective porosities of the till/weathered shale aquifer and the competent shale aquifer were specified as 15% (0.15) and 6% (0.06), respectively. These are the same effective porosities used to calculate the likely range of groundwater velocities in the Ash Landfill RI report (Parsons ES, 1994a).

For Scenarios 1 and 2, two model cells in the vicinity of wells MW-44 and PT-18 were defined as constant source concentration cells, and the remaining were specified as active cells, subject to the boundary conditions established in the model. For Scenario 3, all of the model cells were active.

For the transport modeling, three initial concentration scenarios were generated for use with the three transport scenarios. Scenario 1 simulated the initial release of COCs to the present day. For Scenario 1, the initial concentration matrix consisted of two point sources that were held constant. Under this scenario, the groundwater, other than in the source area, is initially free of impacts. This scenario was used as a calibration scenario, since the outcome matched the plume size and concentrations prior to the implementation of the source removal effort, completed in June of 1995. Calibration of the model involved establishing input parameters such as dispersion coefficients and degradation rates, in addition to simulating the effects of constant leaching of chlorinated organics to the groundwater.

The intent of Scenario 2, was to evaluate the existing plume of VOCs (TCE, cis- and trans-1,2-DCE, and VC) as depicted in the Ash Landfill RI report over an extended timeframe, had no source removal been performed. The initial modeling concentrations were set at the concentration levels measured and presented in the RI report, prior to the remediation of the source area. A four-point moving average method was used to generate the concentration of cells that did not correspond with monitoring well locations where measured concentrations were available. The source concentrations used for Scenario 1 were also used for Scenario 2. This also included simulation of constant leaching of chlorinated organics to groundwater, similar to the conditions of Scenario 1.

For Scenario 3, the initial concentration field was established as the concentration of VOCs (TCE, cis- and trans-1,2-DCE, and VC) observed after the remediation of the source areas at the Ash Landfill had been completed. A complete round of groundwater quality data, performed in July, 1995, one month after completion of the source remediation program, was used as the basis for Scenario 3. This data was supplemented with additional field data, obtained in February 1996, during the sampling of source area wells that had been reinstalled in October, 1995. These wells were destroyed during the source removal due to their proximity to the source area excavation. These supplemental source area concentrations were combined with concentrations measured in the downgradient wells in July 1995 as the starting concentration field. This concentration field was used to simulate the movement of the plume under the most current site conditions and was used as the initial concentration field for Scenarios 3-A, -B and -C. Again, the four-point moving average method was used to generate the concentrations at model cells that did not correspond with monitoring well locations where measured concentrations were available.

6.3.2 Advection Package Parameters

For this model the hybrid Method of Characteristics/Modified Method of Characteristics (MOC/MMOC), or HMOC, advection solution scheme was used. This solution scheme was chosen because it combines the strengths of MOC and MMOC by using an automatic adaptive scheme that depends on the nature of the concentration field. Thus, the advection term is solved by the MOC technique when sharp concentration fronts are present. Away from sharp concentration fronts the advection term is solved by the MMOC technique. The critical relative concentration gradient for controlling the selective use of either MOC or MMOC in the HMOC solution scheme was 0.01.

The number of cells any particle was allowed to move in any one direction in one transport step (the Courant number) was 1.0. The Runge-Kutta particle tracking algorithm was for all of the model scenarios.

6.3.3 Dispersion Package Parameters

In this package, the dispersion terms for both the till and the competent shale were specified. Because no site-specific dispersivity data were available for the geologic units at the Ash Landfill, the longitudinal dispersivity for the till and the shale were obtained from the literature. A groundwater modeling study cited by Anderson (1979) used longitudinal dispersivities of 3 meters (9.8 ft) for till and 6.1 meters (20.0 ft) for a shale unit directly below the till. Thus, for this model, a longitudinal dispersivity of 10 ft was specified for the till/weathered shale and a longitudinal dispersivity of 20 feet was specified for the competent shale. The ratio of horizontal transverse dispersivity to the longitudinal dispersivity was specified as 0.1. The ratio of vertical transverse dispersivity to the longitudinal dispersivity was specified as 0.01. The effective molecular diffusion coefficient was neglected as this process was not expected to play a major role in contaminant transport.

6.3.4 Sink & Source Mixing Package Parameters

Only the recharge option was activated for the Sink & Source Mixing Package but it was not used to simulate the constant source terms under Scenarios 1 and 2 for the transport model. Thus, no concentration of recharge flux was specified in this package because the constant source concentration terms for the cells that contain MW-44 and PT-18 were defined in the concentration boundary array contained in the Basic Transport Package.

6.3.5 Chemical Reaction Package Parameters

The Chemical Reaction Package was used to simulate the effects of sorption and biodegradation on the movement of VOCs (TCE, cis- and trans-1,2-DCE, and VC) in the aquifer flow system.

Sorption refers to the mass transfer process between the contaminants dissolved in groundwater (solution phase) and the contaminants sorbed on the porous medium (sorbed phase). Additionally, it is generally assumed that equilibrium conditions exist between the solution-phase and the solid-phase concentrations and that the sorption reaction is fast enough relative to the groundwater velocity that it can be treated as instantaneous. MT3D incorporates the sorption isotherms into the transport model through the use of the retardation factor (S.S. Papadopulos & Associates, 1992).

The linear sorption isotherm was used in the transport model. The linear sorption isotherm assumes that the sorbed concentration (C_{sorb}) is directly proportional to the dissolved concentration (C_{diss}) in the following manner :

$$C_{sorb} = K_d \times C_{diss}$$

where:

C_{sorb} = sorbed concentration;
K_d = the distribution coefficient; and
C_{diss} = dissolved concentration.

For linear sorption, the constant of proportionality is known as the distribution coefficient (K_d). For this model, a K_d of 0.013 ml/g was used to represent the sorption term (Looney et al., 1987

The retardation factor was calculated by the model using the equation that follows:

$$R = 1 + \left[\frac{P_b}{P_{or}}\right] K_d$$

where: R = retardation factor
P_b = bulk density of the soil or rock
P_{or} = porosity of soil or rock

K_d = distribution coefficient

For this model, the measured bulk density of 1.69 g/cm^3 was used represent the till (USAEHA, 1984). A effective porosity of 15% (or 0.15) was also used. On the basis of the above data, a retardation factor of 1.2 was calculated using the equation above.

A first-order rate constant was used to represent biodegradation as part of the contaminant transport model. This term was expected to be the most sensitive term in the simulation and represents the only term where COCs are actually removed from the groundwater system. Since the actual site specific biodegradation term is not readily determined, a range of biodegradation constants (k), that could be considered reasonable, were explored using two methods. One method was based on the approach developed by Wiedemeier et al. (1995) that relies on a recalcitrant tracer and historical concentration data to derive the value of k. The other method, developed by Buscheck and Alcantar (1995), derives k from historical data of concentration and distance from the source.

The derivation of the biodegradation rate constant was calculated using a method developed by Wiedemeier et al. (1995), modified for the Ash Landfill site. Wiedemeier et al. (1995) utilized a recalcitrant tracer for determining the degradation rate of a BTEX plume. Trimethylbenzene (TMB), also a constituent of fuels, was shown to posses several qualities that made it an ideal tracer compound. The tracer compound, TMB, was released at the same time as the compounds that were of interest, i.e. BTEX, TMB possessed similar sorption and volatilization potentials as BTEX and was found to be nonbiodegradable. By measuring the concentration of this compound relative to the concentration of other compounds that were biodegradable, at several wells over time, Wiedemeier et al. was able to obtain a first order decay constant. Although Wiedemeier et al. applied this approach to a plume of hydrocarbons, the approach appeared reasonable in developing a degradation rate constant for this site. Initially, the historical groundwater chemistry database was reviewed to identify the presence of any constituents that could be tracer candidates. Such a constituent may have been released coincidentally with the VOCs during the initial release event and possess similar qualities to TMB. Trimethylbenzene could not be used as it was not measured in any downgradient well. Following this review, sodium was selected as the best tracer candidate because the extent and concentrations of sodium paralleled the VOC plume downgradient of the Ash Landfill as it originates near the source area for VOCs and has a historical database that mimics the measured extent of the VOC plume. Sodium is considered to be a good tracer because it is not biodegraded, and is relatively mobile.

Both sodium and VOCs are involved in mechanisms that remove these constituents from groundwater, however, sodium unlike VOCs is affected by exchange mechanisms rather than sorption mechanisms. Dragun (1988) discusses the mechanisms involved in the exchange of cations. The mechanism is governed by the cation exchange capacity (CEC) of the media. Like the sorption reaction of VOCs and soil, the exchange reaction is reversible but unlike the sorption reaction, the exchange reaction involves replacement of one cation from the solid phase with another from solution. This reaction is typically associated with the removal of common cations such as calcium from solution, however, other cations can be involved. In general, trivalent cations are preferentially exchanged over divalent cations, which are in turn preferentially exchanged over monovalent cations, such as sodium. Of the monovalent cations, sodium is one of the weakest adsorbed monovalent cations. The CEC is strongly dependent on the presence of certain types of clay that contain the sites responsible for the exchange. Soils that contain an abundance of the right type of clay will exhibit high CECs, whereas soils that are low in these constituents have low CECs. Since a hierarchy of removal via CEC has been identified, the removal of sodium via this mechanism is limited as groundwater chemistry from the site is dominated by the presence of divalent cations such as calcium, iron and magnesium that would be removed prior to removal of sodium.

The CEC of the soil at the site was not directly measured, and the impact of CEC on the concentration of sodium in the groundwater is not understood. However, from the previous discussion, sodium, a weakly exchanged cation, is not considered to be strongly sorbed to soil and while a comparison of the sorption properties of sodium to TCE and 1,2-DCE cannot be made all three are considered to be weakly sorbed constituents.

The other chemical property compared to the selected tracer, sodium, was volatilization. Sodium and the three compounds of interest (i.e., TCE, cis- and trans-1,2-DCE and VC) do not have similar volatilization properties. The three chlorinated compounds of interest are considered volatile while sodium, an ion in solution, has no volatilization potential. However, although the potential for these differences are great, the actual differences may not be as great as anticipated. While it is likely that volatilization from the dissolved phase to the vapor phase is occurring, the migration of the gas through the soil pore space may be occurring very slowly, thereby minimizing the error. The impermeable nature of the soils and the small concentration differences that were detected to be present in the soil gas would suggest that the driving force for release to the atmosphere may be less than what would be expected.

Therefore, although some uncertainty exists, sodium was selected as the best available tracer for the determination of a biodegradation rate using the method described by Wiedemeier et al. (1995), as modified for the site constituents at the Ash Landfill. Since this technique represented only one way to determine the biodegradation rate constant, the use of the tracer method was deemed appropriate as it would represent a reasonable lower limit of the variable of concern.

The tracer method involves evaluating observed decreases in VOC concentrations and adjusting these concentrations to account for the decrease that can be attributed to biodegradation. To accomplish this, measured concentrations of VOCs are corrected for the effects of dispersion, dilution from recharge, and sorption. As previously mentioned, sodium was selected as the tracer as it is considered to be only slightly adsorbed to soil particles and it is not biodegraded.

According to Wiedemeier et al., "the corrected concentration of a compound is the concentration of the compound that would be expected at one point (B) located downgradient from another point (A) after correcting for the effects of dispersion, dilution from recharge, volatilization, and sorption between points A and B." For this study, the concentrations of the VOCs was corrected using the equation of Wiedemeier et al. (1995) and Wilson et al. (1994) as follows:

$$C_{Bcorr} = C_B \left(\frac{Na_A}{Na_B} \right)$$

where:
$C_{B,corr}$ = corrected concentration of compound of interest at Point B
C_B = measured concentration of compound of interest at Point B
Na_A = measured concentration of sodium at Point A
Na_B = measured concentration of sodium at Point B.

Six points along a single flow path parallel to the direction of groundwater flow were chosen for comparison of corrected and observed VOC concentrations to assess the effects of dispersion, dilution, and sorption and to determine the biodegradation rate constant. The raw VOC and sodium data for these wells is presented in Table 6-2. The Na-corrected concentrations are also shown in Table 6-3.

A first-order biological decay rate can be calculated if it can be shown that the biodegradation is a first order process. A log-linear plot of Na-corrected VOC concentration versus downgradient travel time along the flow path is shown in Figure 6-2. Since the semi-log plot of the data produced

TABLE 6-1

REASONABLE RANGE, BEST ESTIMATE, AND UNCERTAINTY FOR
MT3D INPUT PARAMETERS

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

Input Parameter	Units	Reasonable Range			Best Estimate	Scource	Uncertainty
		Low	Nominal	High			
Advection Terms:							
Effective Porosity Layer 1	percent	15	15	25	15 (or 0.15)	Literature	low
Effective Porosity Layer 2	percent	6	6	6	6 (or 0.06)	Literature	low
Effective Porosity Layer 3	percent	6	6	6	6 (or 0.06)	Literature	low
Dispersion Terms:							
Long. Dispersivity (L) Layer 1	feet	10	10	30	10	Literature	low
Long. Dispersivity (L) Layer 2	feet	15	20	40	20	Literature	low
Long. Dispersivity (L) Layer 3	feet	15	20	40	20	Literature	low
Ratio of TH / L		0.06	0.1	0.5	0.5	Literature	medium
Ratio of TV / L		0.006	0.01	0.05	0.01	Literature	medium
Coeff. of Molecular Diffusion		0	0	0	0		low
Chemical Reaction Terms:							
Sorption Constant (Kd)	ml/gram	0.006*	0.013^	0.013^	0.013^	Literature	low
Bulk Dry Density (Pb)	gram/cu. cm	1.51	1.69	1.78	1.65	field data	low
k (dissolved phase)	/day	5.0E-06	0.00005	0.0006	0.00005	Literature	low
k (sorbed phase)	/day	5.0E-06	0.00005	0.0006	0.00005	Literature	low

Notes:
1) TH = transverse horizontal dispersivity
2) TV = transverse vertical dispersivity
3) K = first order biodegradation rate constant
4) * = Kd for both cis- and trans-1,2-DCE
5) ^ = Kd for TCE

REEDER CREEK

STREAMLINE NO-FLOW BOUNDARY

SEAD-16

SEAD-25

SEAD-17

ROUTE 96A

ROUTE 96

ASHLANDFILL

SAMPSON STATE PARK

FARMHOUSE

SENECA ARMY DEPOT

SEAD64A

GROUNDWATER DIVIDE NO-FLOW BOUNDARY

CONSTANT-HEAD BOUNDARY

SEAD-64D

STREAMLINE NO-FLOW BOUNDARY

SEAD-50

SENECA LAKE

AIRFIELD

LEGEND

- AREA OF INACTIVE CELLS
- GROUNDWATER FLOW DIRECTION IN TILL/WEATHERED SHALE
- AQUIFER
- ACTIVE MODEL BOUNDARY
- CONSTANT-HEAD BOUNDARY
- GROUNDWATER DIVIDE NO-FLOW BOUNDARY
- MONITORING WELL
- STREAM / CREEK
- INTERMITTENT STREAM
- RAILROAD TRACKS
- GROUND SURFACE ELEVATION CONTOUR (760)
- VOC PLUME

N

800 0 800 1600

1" = 1600'

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SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING

Dwg. No.

FIGURE 6-1
MT3D MODEL GRID AND
BOUNDARY CONDITIONS

SCALE 1" = 1600'

DATE JANUARY 1998

REV. A

TABLE 6-2

VOC AND SODIUM CONCENTRATIONS MEASURED IN SELECTED MONITORING WELLS AT THE ASH LANDFILL

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

	1992		1993		AVERAGE	
Location	VOCs (µg/L)	Sodium (µg/L)	VOCs (µg/L)	Sodium (µg/L)	VOCs (µg/L)	Sodium (µg/L)
PT-18	11,850	114,000.0	13,740	93,900	12,795	103,950
PT-12	384	33,800.0	2,458	133,000	1,421	83,400
PT-22	180	52,800.0	248	64,900	214	58,850
MW-53	NA	NA	55.0	33,000	55.0	33,000
MW-29	72.0	26,200.0	99.0	25,600	85.5	25,900
MW-56	NA	NA	0.2	19,500	0.2	19,500

Note:
1) VOCs = TCE, cis- and trans-1,2-DCE and VC
2) NA = not available

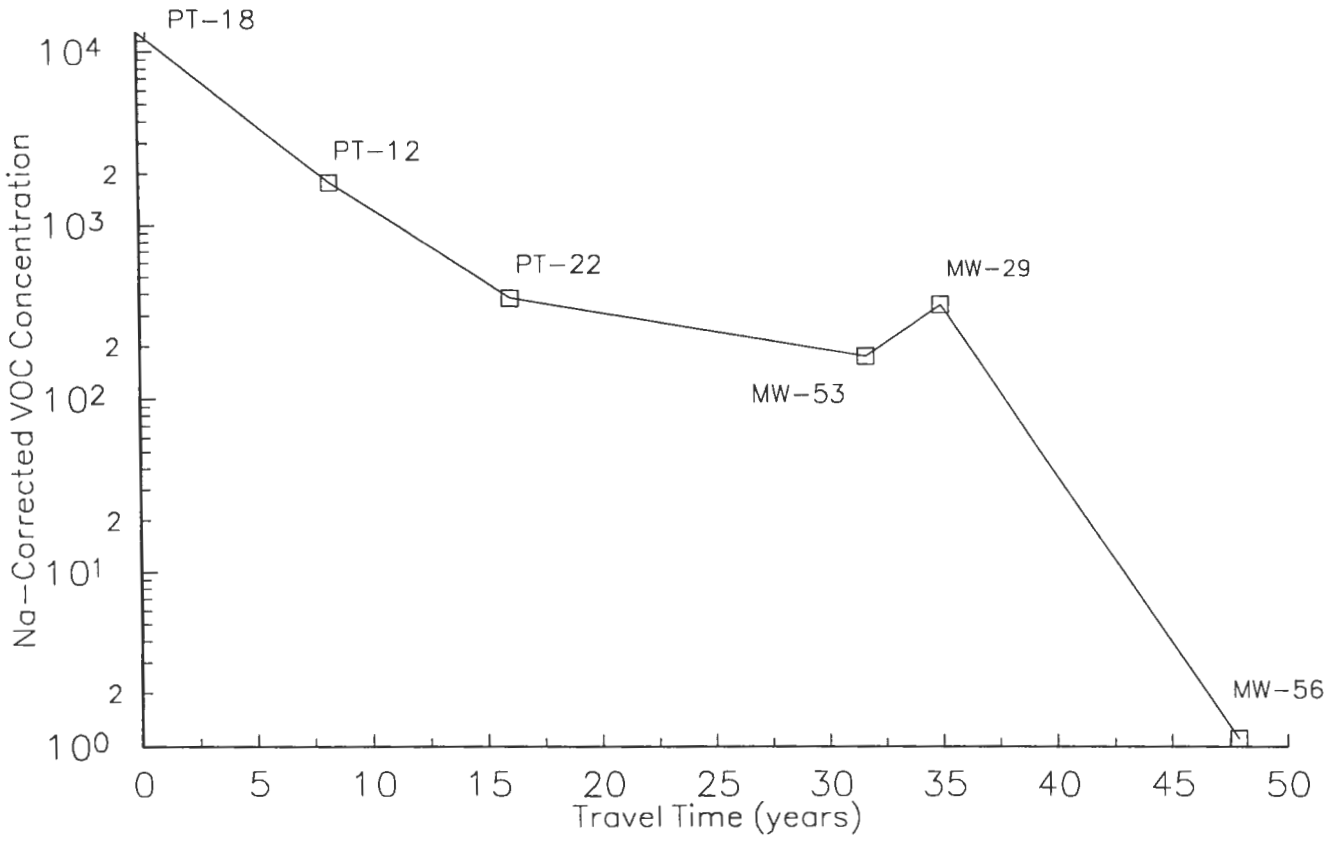
TABLE 6-3

SODIUM-CORRECTED VOC CONCENTRATIONS
AT THE ASH LANDFILL

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

Location	Distance Down-gradient (ft)	Retarded Travel Time from PT-18 (years)	Na-Corrected VOC Concentration (µg/L)	Concentration Ratio (C/Co)
PT-18	0	0	12,795.0	1
PT-12	200	8.22	1,771.1	0.138
PT-22	390	16.03	378.0	0.030
MW-53	770	31.64	173.3	0.014
MW-29	850	34.93	343.2	0.027
MW-56	1,165	47.88	1.1	0.000083

Note:
1. Travel time calculated in years as VOCs (TCE, cis- and trans-1,2-DCE, VC) with a retardation factor of 1.5



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ASH LANDFILL GROUNDWATER MODEL

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FIGURE 6-2
Na-CORRECTED
VOC CONCENTRATIONS VS
TRAVEL TIME

SCALE NA | DATE OCTOBER 1995

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a reasonably straight line with a correlation coefficient of 0.7, there is evidence to suggest that biodegradation along the flow path is approximated by first-order kinetics.

First order decay can be described by the relationship:

$$C = C_o e^{-kt}$$

where: C = contaminant concentration at time t
C_o = initial contaminant concentration
k = first order decay constant

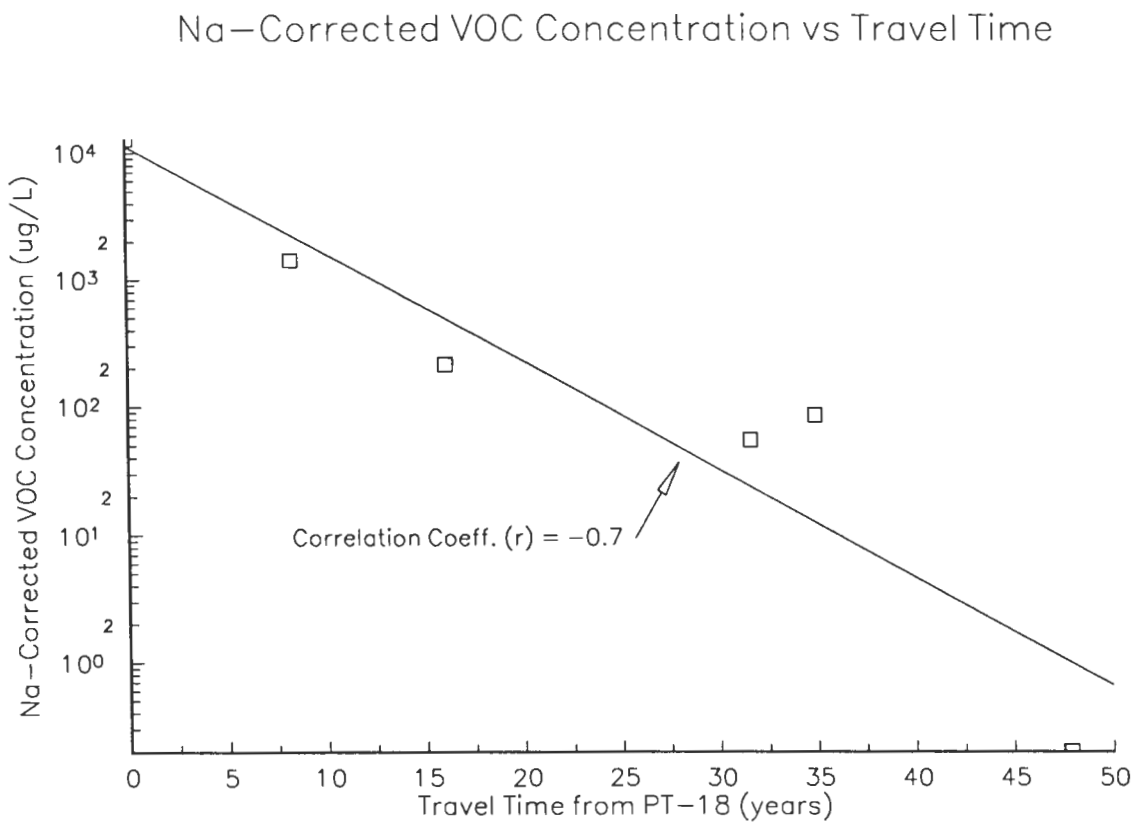
Travel time, t, was calculated as :

$$t = \frac{x}{v}$$

where: t = travel time between two points;
x = distance between two points; and
v = advective groundwater velocity or retarded solute velocity (where applicable).

A first-order exponential decay analysis was performed once the travel times between the points were determined and the total VOC concentrations were corrected for the effects of dilution. The data, in a log-linear form, is presented, with Na-corrected VOC concentrations as the ordinate and travel time from PT-18 in years as the abscissa, as Figure 6-3. A correlation coefficient of -0.7 was obtained for the log-linear straight line, suggesting a reasonable correlation between the two variables. From the graphical depiction of the data, an inverse relationship is evident between the VOC concentration and the distance from PT-18. Since this data is in the form of a straight line, it is possible to determine the biodegradation rate constant. Following the convention of Wiedemeier et al. (1995), the first order biodegradation rate constant for the VOCs was calculated as 0.00005/day

In an alternative method, Buscheck and Alcantar (1995) derived a relationship that allows calculation of first-order biodegradation rate constants for steady-state plumes. Using this method, a regression analysis is performed on a plot of contaminant concentration (logarithmic scale) versus distance downgradient (linear scale) and coupled to a one-dimensional, steady-state, contaminant



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CLIENT/PROJECT TITLE
SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING | DWG NO. 726209-01002

FIGURE 6-3
Na-CORRECTED
C/C_0 CONCENTRATIONS VS
TRAVEL TIME

SCALE NA | DATE JANUARY 1996

GRAPHICS\SENECA\ASHMODEL\DEGCONST.CDR

transport that includes advection, dispersion, sorption, and biodegradation. For a steady-state plume, the first-order decay rate is given by the following equation:

$$k = \frac{v_c}{4\alpha_x}\left(\left[1 + 2\alpha_x\left(\frac{k'}{v_x}\right)\right]^2 - 1\right)$$

where:

k= first-order biodegradation rate constant;

v_c = retarded contaminant velocity in the x-direction;

α_x = dispersivity; and

k'/v_x = slope of line formed by making a log-linear plot of contaminant concentration versus distance downgradient along flow path.

As discussed in Section 1.2, there is evidence to suggest that the plume at the Ash Landfill may have reached steady-state because the total VOC concentrations in downgradient wells and in other on-site wells do not indicated that concentrations are increasing over time (Table 1-1 and Figure 1-2). In addition, the site data suggests that the VOC plume has not migrated significantly during over the approximately 8 years of quarterly monitoring.

Using the method of Buscheck and Alcantar (1995), regression analysis was performed on a log-linear plot of VOC concentrations versus distance downgradient from PT-18 [using the same flow paths used in the Wiedemeier et al. (1995) - see Tables 6-2 and 6-3]. The parameters required for the calculation of the biodegradation rate constant (k) were as follows: a retarded contaminant velocity (v_c) of 0.06 ft/day was determined by dividing the groundwater velocity of 26 ft/year (0.071 ft/day) by a retardation factor of 1.2; a dispersivity (α_x) of 10 ft was used, based on values cited in Anderson (1972); the slope of the regression line on the log-linear plot (k/v_x) was determined to be -0.008. The first-order biodegradation rate constant (k) was calculated to be 0.0005/day using the method of Buscheck and Alcantar (1995). This degradation rate is faster than the value calculated by Wiedemeier et al. (1995) of 0.00005/day, but compares favorably with the original rate used in the ODAST modeling.

The two methods used to derive the biodegradation rate constant for the VOCs provided a range of k values and served as the basis for calibrating the model. The lowest value (0.00005/day) would yield the most conservative result and the highest value (0.0005/day) would yield the least conservative result. The model runs presented in Sections 6.4 and 6.5 use mostly the conservative

approach (k = 0.00005), however, less conservative k values were used in Scenario 3 to demonstrate the range of possible model simulation results with the VOC source removed. For the less conservative runs, k values of 0.0005/day and 0.00009/day were used, with the latter value representing the approximate median value between the most conservative and least conservative k values derived earlier in this section.

6.4 MODEL CALIBRATION AND VERIFICATION

6.4.1 Simulation of Plume from Origin with VOC Source - Scenario 1

The transport model was calibrated by simulating the plume migration from its origin at the two source areas (Parsons ES, 1994a). The measured source term concentrations, represented by the concentrations in MW-44 and PT-18 have variability as shown in Table 6-5. For MW-44, the concentration of total VOCs has varied between 132,000 ug/L and 204,000 ug/L. The range of concentration for total VOCs for PT-18 is between 11,400 ug/L and 23,550 ug/L. It is also possible that because these values represent discrete points in a larger source area, the actual source concentration may be higher. Since the source term has variability, Scenario 1 evaluated the effect that different source term concentrations had on the calibration by performing two simulations with differing source term concentrations. However, for each simulation the source concentration was held constant over the model run.

During model calibration, the degradation constant, and the longitudinal and transverse dispersivities were among the parameters adjusted (within the reasonable ranges) to obtain a plume configuration that matched the extent of the measured plume. Although the distribution coefficient (K_d) affects the transport of constituents at the Ash Landfill, the model appeared to calibrate best by varying the biodegradation constant (k) and dispersivity. The biodegradation constant was considered to be the most uncertain variable of those that control the plume configuration and was used for calibration. The expected range of values for k were derived by the two methods described previously

Two source terms were considered and varied to encompass the expected lower and high end of the source concentration. The first source term was represented by concentrations in the cells that contained wells MW-44 and PT-18 and were held constant at 132,000 µg/L and 13,950 µg/L, respectively, with no degradation of the VOC source material. The second term was a modification of the first and was represented by concentrations of the same two wells that were set at 250,000 µg/L and 26,022 µg/L, respectively, with no degradation of the VOC source material. Model runs

from 35 years, 40 years and one to 45 years, were used to generate the simulated plume data. The biodegradation constant, k, was selected for each source terms and each time. For the first run, the k value selected represented the higher, i.e. faster, end of the expected range, i.e. 0.0005/day. For the second run, the k value selected represented the lower, i.e., slower, end of the expected range of biodegradation rate constants, i.e., 0.00005/day. Predicted concentrations for selected points that corresponded to monitoring well locations were obtained as model output. These predicted concentrations were then compared to the range of measured concentrations as shown in Table 6-4.

The output suggests a reasonably close match to actual plume dimensions for both k values. As shown in Table 6-4, for the faster degradation rate constant, 0.0005/day, the downgradient concentrations at PT-12, PT-23 and MW-45 were within the range of measured values regardless of the source term used. Several other downgradient wells such as MW-31, MW-56 and MW-47 also confirmed that the plume did not migrate beyond the known boundary as the measured concentrations were the same as the model concentrations, which were non-detect. The model predicted lower concentrations than what was measured at PT-22 and MW-28 but predicted higher concentrations than what was measured at MW-46. Under this scenario it appears that the predicted concentrations reached an upper limit and remained constant, suggesting that steady state had been achieved.

Table 6-4 provides a comparison between the measured values at the same selected wells and model output values for the lower degradation rate constant, 0.00005/day. Under this scenario, the predicted downgradient concentrations at PT-12, PT-29 and PT-24 were within the range of measured values regardless of the source term used. Although the predicted concentration range at PT-29 and PT-24 were within the range, the concentrations at these wells appear to be increasing beyond the measured range. The downgradient wells, MW-31 and MW-47 also confirmed that the plume did not migrate beyond the known boundary as the measured concentrations were the same as the model concentrations, which were non-detect. Under this scenario, the model predicted higher concentrations than what was measured at wells MW-45, MW-46, PT-22, MW-28, PT-23 and MW-53. Under this scenario, it appears that the concentration in several wells, in particular the wells along the plume boundary, were increasing, suggesting that steady state had not been achieved.

Overall, the two scenarios suggest that the faster k value predicts lower than expected concentrations at several wells and steady state is attained, whereas, the slower k value predicts concentrations that are higher than what was measured and the concentrations in several wells are

Table 6-4

Comparison of Measured and Simulated Concentrations of Total Chlorinated VOCs (ug/L)

Ash Landfill Groundwater Model
Seneca Army Depot Activity

	Biodegradation Constant (k) = 0.0005							
		Source Term One				Source Term Two		
Well	Measured Range of Concentrations in Monitoring Well*	Simulated Concentration at 35 years from time = 0	Simulated Concentration at 40 years from time = 0	Simulated Concentration at 45 years from time = 0	Measured Range of Concentrations in Monitoring Well*	Simulated Concentration at 35 years from time = 0	Simulated Concentration at 40 years from time = 0	Simulated Concentration at 45 years from time = 0
MW-44	132,000 - 204,000	132,000	132,000	132,000	132,000 - 204,000	250,000	250,000	250,000
PT-18	11,400 - 23,550	13,740	13,740	13,740	11,400 - 23,550	26,022	26,022	26,022
MW-45	ND - 0.5	0.1	0.1	0.1	ND - 0.5	0.1	0.1	0.1
MW-46	167 - 202	2,329	2,262	2,418	167 - 202	4,509	4,290	4,364
PT-12	81 - 4,654	151	150	153	81 - 4,654	289	286	288
PT-22	160 - 280	15	15	15	160 - 280	27	28	28
MW-28	58 - 81	1.4	2.5	3.0	58 - 81	2.6	4.7	5.7
PT-23	ND - 2.0	2.5	3.4	3.7	ND - 2.0	4.7	6.4	7.0
MW-53	17 - 55	0.3	0.5	0.5	17 - 55	0.6	0.9	1.0
MW-29	63 - 101	0.1	0.1	0.2	63 - 101	0.1	0.2	0.3
MW-31	ND	0.0	0.0	0.0	ND	0.0	0.0	0.0
PT-24	76 - 116.7	0.0	0.1	0.2	76 - 116.7	0.0	0.2	0.4
MW-56	ND - 0.2	0.0	0.0	0.0	ND - 0.2	0.0	0.0	0.0
MW-47	ND	0.0	0.0	0.0	ND	0.0	0.0	0.0

Notes:

1) * = Historical data from 1990 - 1996, although not all wells have data for the full range of these years.
2) Source Term One: MW-44 is 132,000 ug/L and PT-18 is 13,740 ug/L.
3) Source Term Two: MW-44 is 250,000 ug/L and PT-18 is 26,022 ug/L.

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Table 6-4

Comparison of Measured and Simulated Concentrations of Total Chlorinated VOCs (ug/L)

Ash Landfill Groundwater Model
Seneca Army Depot Activity

	Biodegradation Constant (k) = 0.00005							
		Source Term One				Source Term Two		
Well	Measured Range of Concentrations in Monitoring Well*	Simulated Concentration at 35 years from time = 0	Simulated Concentration at 40 years from time = 0	Simulated Concentration at 45 years from time = 0	Measured Range of Concentrations in Monitoring Well*	Simulated Concentration at 35 years from time = 0	Simulated Concentration at 40 years from time = 0	Simulated Concentration at 45 years from time = 0
MW-44	132,000 - 204,000	132,000	132,000	132,000	132,000 - 204,000	250,000	250,000	250,000
PT-18	11,400 - 23,550	13,740	13,740	13,740	11,400 - 23,550	26,022	26,022	26,022
MW-45	ND - 0.5	3.8	4.3	4.5	ND - 0.5	7.2	8.1	8.5
MW-46	167 - 202	24,666	24,179	24,119	167 - 202	46,716	45,793	45,681
PT-12	81 - 4,654	1,551	1,547	1,535	81 - 4,654	2,938	2,929	2,907
PT-22	160 - 280	744	788	816	160 - 280	1,410	1,493	1,545
MW-28	58 - 81	319	1,218	2,364	58 - 81	605	2,306	4,478
PT-23	ND - 2.0	553	1,424	2,154	ND - 2.0	1,048	2,697	4,080
MW-53	17 - 55	90	235	368	17 - 55	170	444	698
MW-29	63 - 101	17	82	180	63 - 101	33	156	341
MW-31	ND	0.0	0.0	0.0	ND	0.0	0.0	0.1
PT-24	76 - 116.7	8.3	81	271	76 - 116.7	16	154	514
MW-56	ND - 0.2	0.0	0.2	2.2	ND - 0.2	0.0	0.4	4.1
MW-47	ND	0.0	0.0	0.1	ND	0.0	0.0	0.1

Notes:

1) * = Historical data from 1990 - 1996, although not all wells have data for the full range of these years.
2) Source Term One: MW-44 is 132,000 ug/L and PT-18 is 13,740 ug/L.
3) Source Term Two: MW-44 is 250,000 ug/L and PT-18 is 26,022 ug/L.

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increasing. This information, suggest that this range of k values encompasses the likely range of degradation rate constants.

To determine the degree of model calibration, the simulated plumes (solid contours) were visually compared to the existing plume (dashed contours) for the conditions described with the slowest k value, i.e. 0.00005/day. This output is graphically depicted as Figure 6-4. The geometry of the simulated plumes between 30 and 40 years from the release of VOCs is shown for the existing plume and the simulated plume in the till/weathered shale aquifer (layer 1) (Figure 6-4). This geometry was achieved using the best estimate values for the input parameters shown in Table 6-3. The 10 µg/L contour of the simulated plume at 35 and 40 years extends to the fenced SEDA boundary and lower concentrations extend beyond this boundary in a manner similar to the existing plume. The configuration of the eastern portion of the simulated plume reflects the two source areas of elevated VOCs in soil, which is supported by the results of the soil gas surveys in this area (Parsons ES, 1994a).

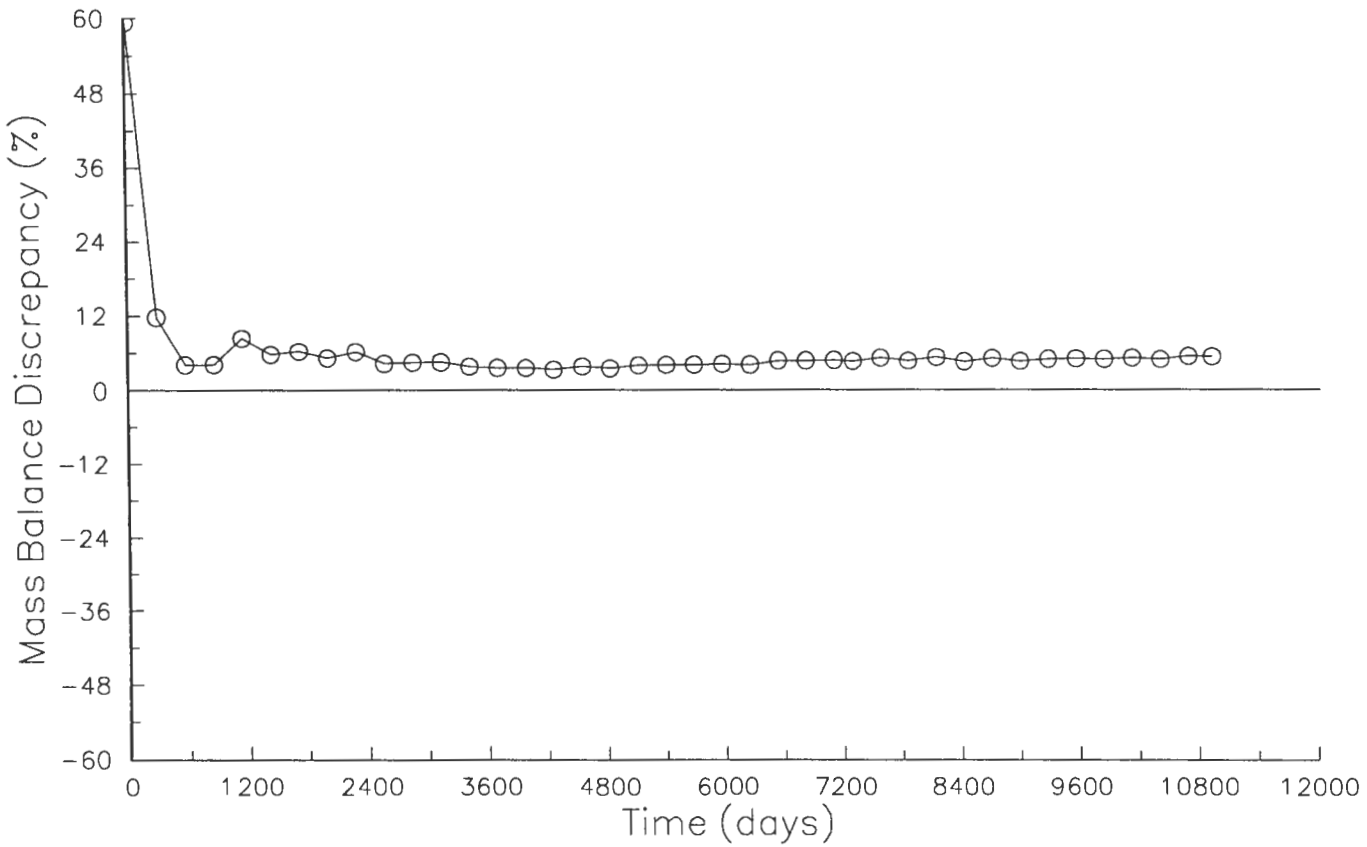
The model is believed to be conservative and predicts higher concentrations of VOCs in layers 2 and 3 than were observed in the few bedrock wells located near the source areas (MW-49D, MW-50D and PT-21) (Figures 6-5 and 6-6).

The mass balance discrepancies for the two model runs that were used for the Scenario 1 simulation are shown in Figures 6-7 and 6-8. For the model run to 30 years (Figure 6-7) early mass balance discrepancies of up to 60 % are quickly reduced to less than 6 %, and as the simulation continued the discrepancy held at approximately 6 %. For the model run to 50 years (Figure 6-8) the mass balance discrepancies are approximately the same as for the 30 year model run, however, beyond 30 years they increase to approximately 8 %.

6.5 TRANSPORT MODEL PREDICTIONS

6.5.1 Future Plume Migration with VOC Source - Scenario 2

Scenario 2 was used to simulate the potential maximum migration of the existing plume had the source removal program not be performed. For this simulation, as in Scenario 1, the model used the constant-source concentrations in the cells that contained the monitoring wells MW-44 and PT-18. Again, the use of these concentrations assumes that there has been no degradation of the VOC source material in the soils at these two areas since the time of the release. The most conservative,



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ASH LANDFILL GROUNDWATER MODEL

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FIGURE 6-7
MASS BALANCE
DISCREPANCY TO
30 YEARS (SCENARIO 1)

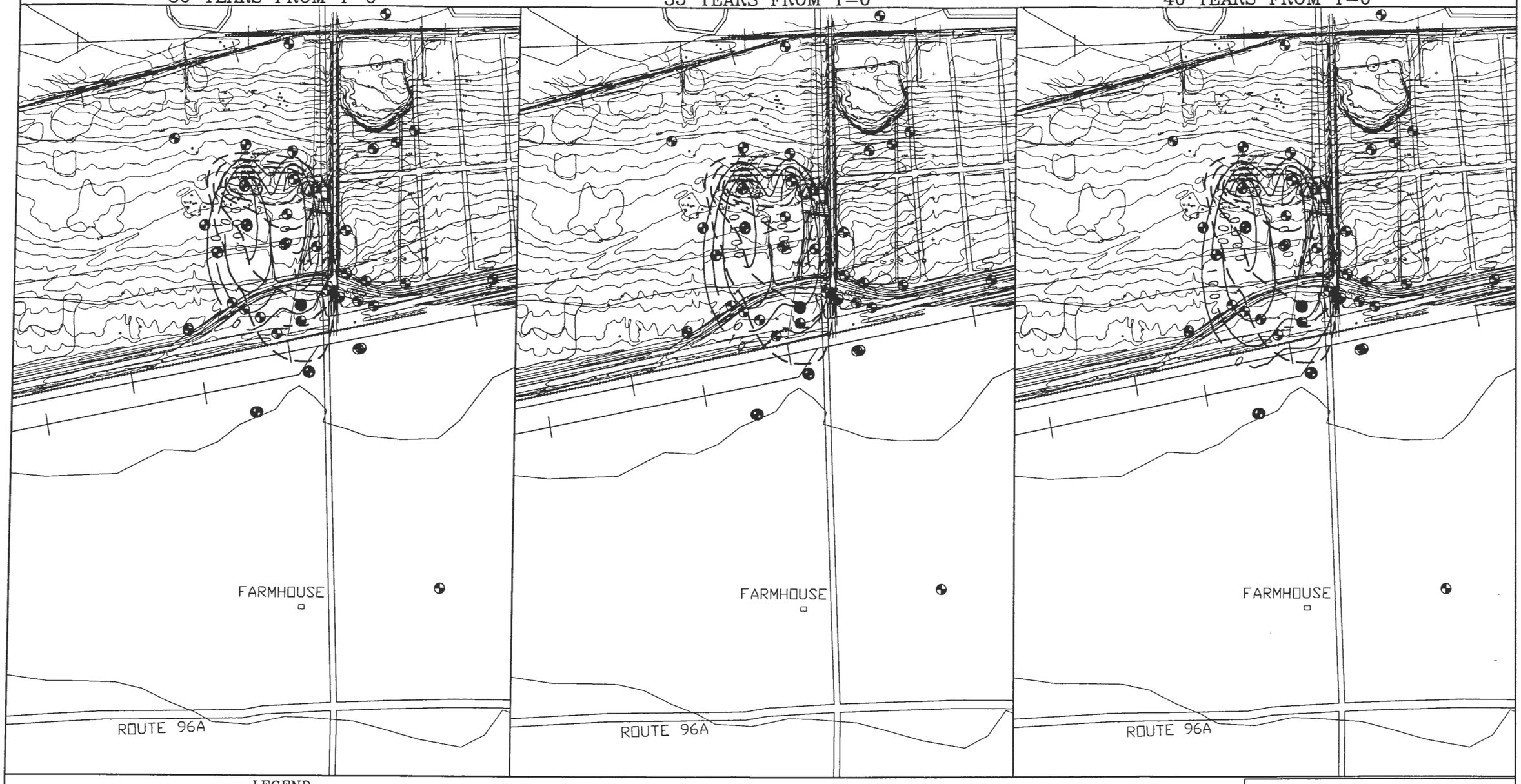
SCALE NA | DATE OCTOBER 1995

GRAPHICS\SENECA\ASHMODEL\MASSE1A.CDR

30 YEARS FROM T=0

35 YEARS FROM T=0

40 YEARS FROM T=0



LEGEND

SIMULATED VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

EXISTING VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

MONITORING WELL

RAILROAD TRACKS

760 GROUND SURFACE ELEVATION CONTOUR

N

300 0 300 600

1" = 600'

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FIGURE 6-4

SIMULATION OF VOC PLUME IN LAYER 1 FROM ORIGIN (t=0) TO 30,35, AND 40 YEARS WITH A CONSTANT SOURCE (SCENARIO 1)

SCALE 1" = 600' | DATE JANUARY 1996 | REV A

30 YEARS FROM T=0

35 YEARS FROM T=0

40 YEARS FROM T=0

LEGEND

SIMULATED VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

EXISITING VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

MONITORING WELL

RAILROAD TRACKS

760 GROUND SURFACE ELEVATION CONTOUR

N

300 0 300 600

1" = 600'

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SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MODEL

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FIGURE 6-5

SIMULATION OF VOC PLUME IN LAYER 2 FROM ORIGIN (t=0) TO 30,35, AND 40 YEARS WITH A CONSTANT SOURCE (SCENARIO 1)

SCALE 1" = 600' | DATE JANUARY 1998 | REV A

30 YEARS FROM T=0

35 YEARS FROM T=0

40 YEARS FROM T=0

LEGEND

SIMULATED VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

EXISITING VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

MONITORING WELL

RAILROAD TRACKS

760 GROUND SURFACE ELEVATION CONTOUR

N

300 0 300 600

1" = 600'

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ASH LANDFILL GROUNDWATER MODEL

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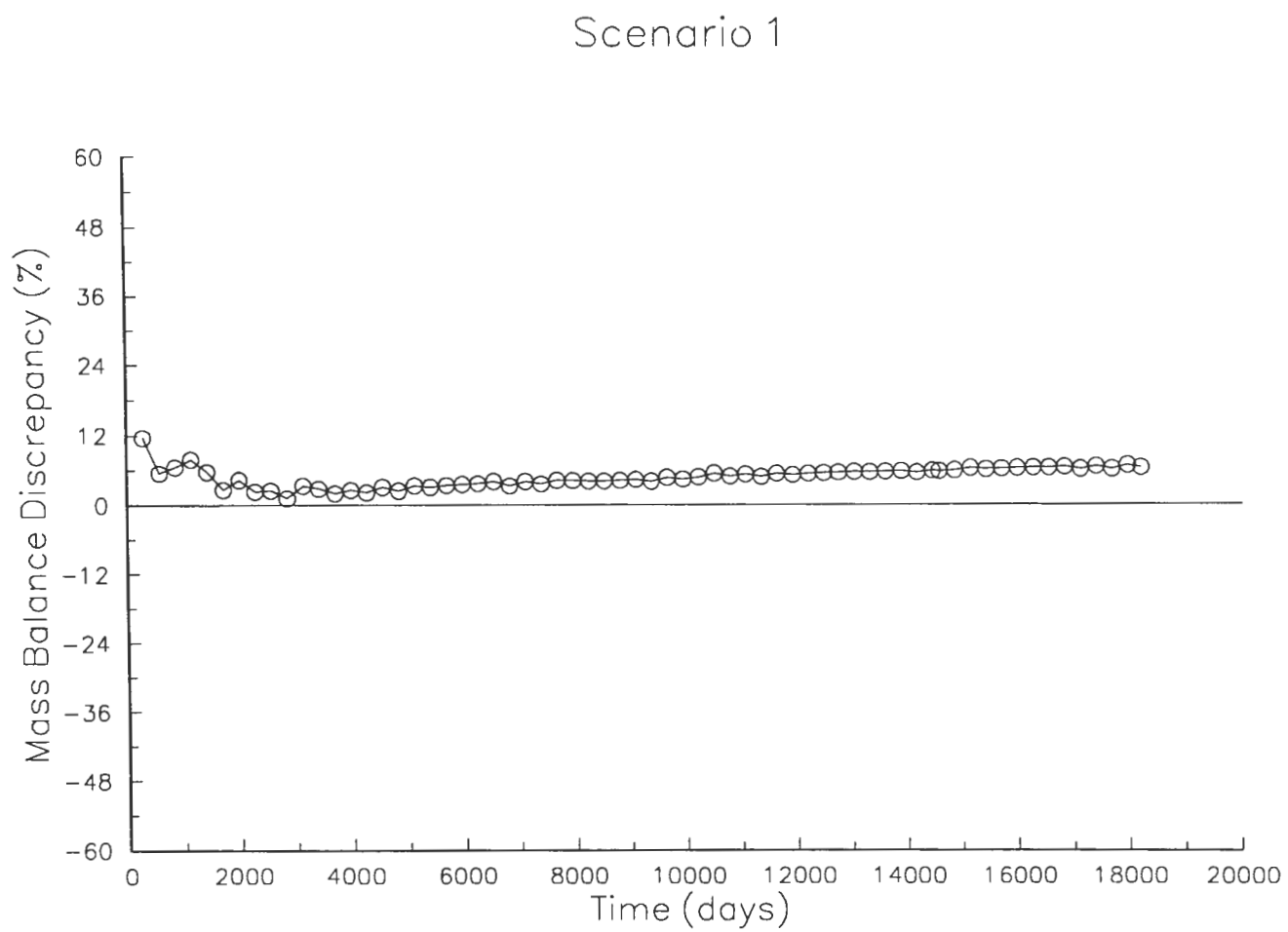
FIGURE 6-6

SIMULATION OF VOC PLUME IN LAYER 3 FROM ORIGIN (t=0) TO 30, 35, AND 40 YEARS WITH A CONSTANT SOURCE (SCENARIO 1)

SCALE 1" = 600' | DATE JANUARY 1996 | REV A



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ASH LANDFILL GROUNDWATER MODEL

DEPT.	DWG NO.
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 6-8
MASS BALANCE
DISCREPANCY TO
50 YEARS (SCENARIO 1)

SCALE	DATE
NA	OCTOBER 1995

GRAPHICS\SENECA\ASHMODEL\MASSE1B.CDR

slowest, degradation constant k, i.e 0.00005/day, was used to degrade the groundwater plume in the plume area outside the source areas.

Snapshots of the simulated plume at 30, 50, and 100 years from the present are shown in Figures 6-9, 6-10 and 6-11. At 30 years the model predicts that the plume in layer 1 will have migrated off-site, with the 10 µg/L contour approximately 700 feet west of the SEDA boundary (Figure 6-9). At 50 years the 10 µg/L contour will reach to approximately 1000 feet beyond this boundary and the 100 and 1,000 µg/L contours will also extend beyond the boundary (Figure 6-9). By 100 years from the present the 10 µg/L contour will have reached the farmhouse and significant areas west of the SEDA boundary will have been impacted by concentrations of VOCs greater than 100 to 1,000 µg/L (Figure 6-9). By this time, the model predicts that the plume will have more than doubled in length compared to its existing configuration.

Not unexpectedly, the concentrations predicted for layers 2 and 3 are smaller than those for the layer 1 (Figures 6-10 and 6-11). However, they are likely to reflect a worst-case impact because the calibration run in Scenario 1 indicated that concentrations in layer 2 and 3 are higher than those observed in bedrock wells.

The mass balance discrepancy for the model run that was used for the Scenario 2 simulation is shown in Figure 6-12. The model was run for 100 years and the mass balance error is stabilized at approximately 8 % by the end of the model run.

6.5.2 Future Plume Migration without VOC Source - Scenario 3

The modeling performed as part of Scenario 3 was intended to evaluate the potential future migration of the plume now that the VOC source was eliminated. The source soils were removed as part of a removal action at the Ash Landfill between December 1994 and May 1995 (Parsons ES, 1994b and IT Corp, 1995). Also, approximately 900,000 gallons of groundwater in the vicinity of the source soils were removed and treated during this remedial event. For this scenario, the model used different starting concentrations from the previous two scenarios since, based on the results of two groundwater sampling events performed after the removal action, one in July 1995 and another in February 1996, the source concentrations had been reduced. This was expected since the source removal action removed several thousand gallons of groundwater in addition to the source of continual groundwater impacts.

30 YEARS FROM PRESENT

50 YEARS FROM PRESENT

100 YEARS FROM PRESENT

C:\ACAD\SENECA\ASHMODEL\S2LAY1.DWG

LEGEND

SIMILATED VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

MONITORING WELL

RAILROAD TRACKS

760 GROUND SURFACE ELEVATION CONTOUR

N

300 0 300 600

1" = 600'

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ASH LANDFILL GROUNDWATER MODEL

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FIGURE 6-9

SIMULATION OF EXISTING VOC PLUME IN LAYER 1 WITH CONSTANT SOURCE AT 30,50, AND 100 YEARS FROM THE PRESENT (SCENARIO 2)

SCALE 1" = 600' | DATE JANUARY 1996 | REV A

30 YEARS FROM PRESENT

50 YEARS FROM PRESENT

100 YEARS FROM PRESENT

C:\ACAD\SENECA\ASHMODEL\SELAY2.DWG

LEGEND

SIMILATED VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

MONITORING WELL

RAILROAD TRACKS

760 GROUND SURFACE ELEVATION CONTOUR

N

300 0 300 600

1" = 600'

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FIGURE 6-10

SIMULATION OF EXISTING VOC PLUME IN LAYER 2 WITH CONSTANT SOURCE AT 30,50, AND 100 YEARS FROM THE PRESENT (SCENARIO 2)

SCALE 1" = 600' | DATE JANUARY 1996 | REV A

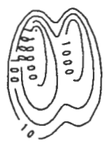
30 YEARS FROM PRESENT

50 YEARS FROM PRESENT

100 YEARS FROM PRESENT

C:\ACAD\SENECA\ASHMODEL\S2LAY3.DWG

LEGEND



SIMILATED VOC PLUME
(CONTOUR CONCENTRATIONS
IN ug/L)

MONITORING WELL

RAILROAD TRACKS

760 — GROUND SURFACE ELEVATION CONTOUR

N

300 0 300 600

1" = 600'

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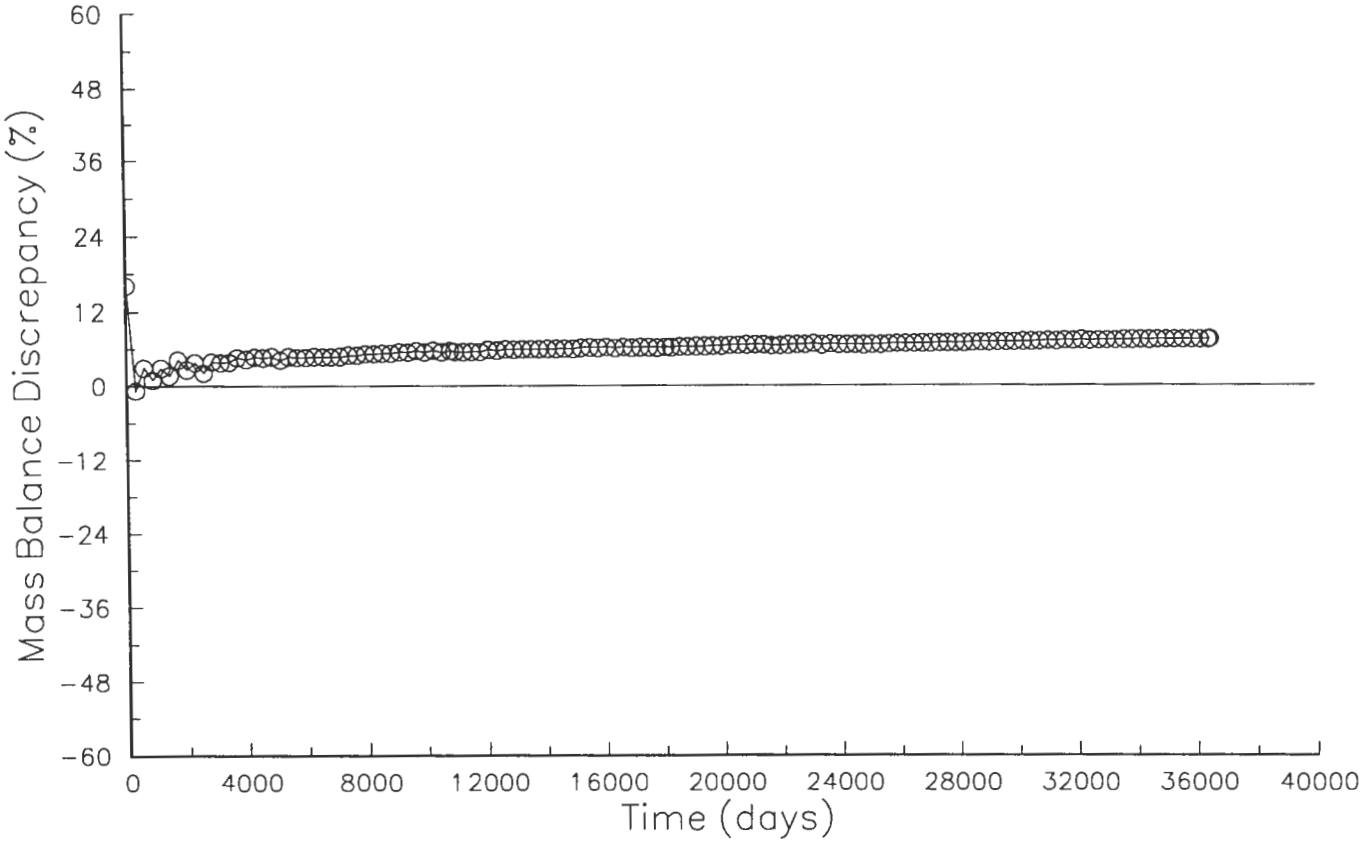
FIGURE 6-11

SIMULATION OF EXISTING VOC PLUME IN LAYER 3 WITH CONSTANT SOURCE AT 30,50, AND 100 YEARS FROM THE PRESENT (SCENARIO 2)

SCALE 1" = 600' | DATE JANUARY 1996 | REV A



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ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 6-12
MASS BALANCE DISCREPANCY TO 100 YEARS (SCENARIO 2)

SCALE	DATE
NA	OCTOBER 1995

GRAPHICS\SENECA\ASHMODEL\MASSE2B.CDR

Scenario 3 was comprised of 4 simulation runs, 3, 3-A, 3-B, and 3-C. These runs evaluated different components of this scenario, such as starting concentrations and degradation constant values that are considered to be plausible for the site. Because two different k values were calculated in Section 6.5.3 and shown to represent the likely range of degradation rates it was necessary to consider a range of k values. There is also uncertainty in the time of the release that was consider as part of Scenario 1 that was also considered as part of these scenarios. These scenarios were established to consider what would occur over the expected range of k values, from a conservative value of 0.00005/day to a less conservative value of 0.0005/day. The 4 simulation runs under Scenario 3 are as follows:

1. Scenario 3: July 1995 starting concentration field and k of 0.00005/day;
2. Scenario 3-A: February 1996 starting concentration field and k of 0.00005/day;
3. Scenario 3-B: February 1996 starting concentration field and k of 0.0005/day; and
4. Scenario 3-C: February 1996 starting concentration field and k of 0.000009/day.

Scenario 3

For Scenario 3, the July 1995 post-remediation starting concentrations were headed by a maximum concentration of 23,000 µg/L, which was measured at PT-18 (no data was available from MW-44 because this well was destroyed during the source area removal). The degradation constant used was 0.00005/day. In addition, there was no constant source for the VOCs in this scenario (Appendix F). Other input parameter values were the same as those used in Scenario 1.

To allow a comparison to Scenario 2 results, snapshots of the simulated plume at 30, 50 and 100 years from the present for Scenario 3 are shown in Figures 6-13, 6-14, and 6-15. The most obvious difference between the plumes simulated in Scenarios 2 and 3 is that both the size (i.e., length) and the concentrations were greatly reduced in Scenario 3. At 30 years the plume in layer 1 for Scenario 3 does not look significantly different from the plume predicted in Scenario 2 (Figure 6-13 and 6-9). Both figures show the 10 µg/L contour hundreds of feet beyond the SEDA boundary, however, the maximum concentration within the plume is greatly reduced in Scenario 3; this maximum occurs approximately 500 feet west of the former source areas at the Ash Landfill. By 50 years the plume is significantly shortened compared to its pre-remediation configuration (Scenario 2) and the 10 µg/L contour is approximately 700 feet beyond the SEDA boundary compared to approximately 1,000 feet under Scenario 2. Additionally, the maximum concentration is less than 1,000 µg/L. Comparison of the plumes simulated under Scenarios 2 and 3 at 100 years

30 YEARS FROM PRESENT

50 YEARS FROM PRESENT

100 YEARS FROM PRESENT

C:\ACAD\SENECA\ASHMODEL\S3LAY1.DWG

LEGEND

SIMILATED VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

100

10

MONITORING WELL

RAILROAD TRACKS

760

GROUND SURFACE ELEVATION CONTOUR

N

300 0 300 600

1" = 600'

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FIGURE 6-13

SIMULATION OF EXISTING VOC PLUME IN LAYER 1 AFTER SOURCE REMOVAL AT 30, 50, AND 100 YEARS FROM THE PRESENT (SCENARIO 3)

SCALE 1" = 600' | DATE JANUARY 1996 | REV A

30 YEARS FROM PRESENT

50 YEARS FROM PRESENT

100 YEARS FROM PRESENT

FARMHOUSE

ROUTE 96A

10

100

LEGEND

SIMILATED VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

MONITORING WELL

RAILROAD TRACKS

760 GROUND SURFACE ELEVATION CONTOUR

N

300 0 300 600

1" = 600'

C:\ACAD\SENECA\ASHMODEL\S3LAY2.DWG

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FIGURE 6-14

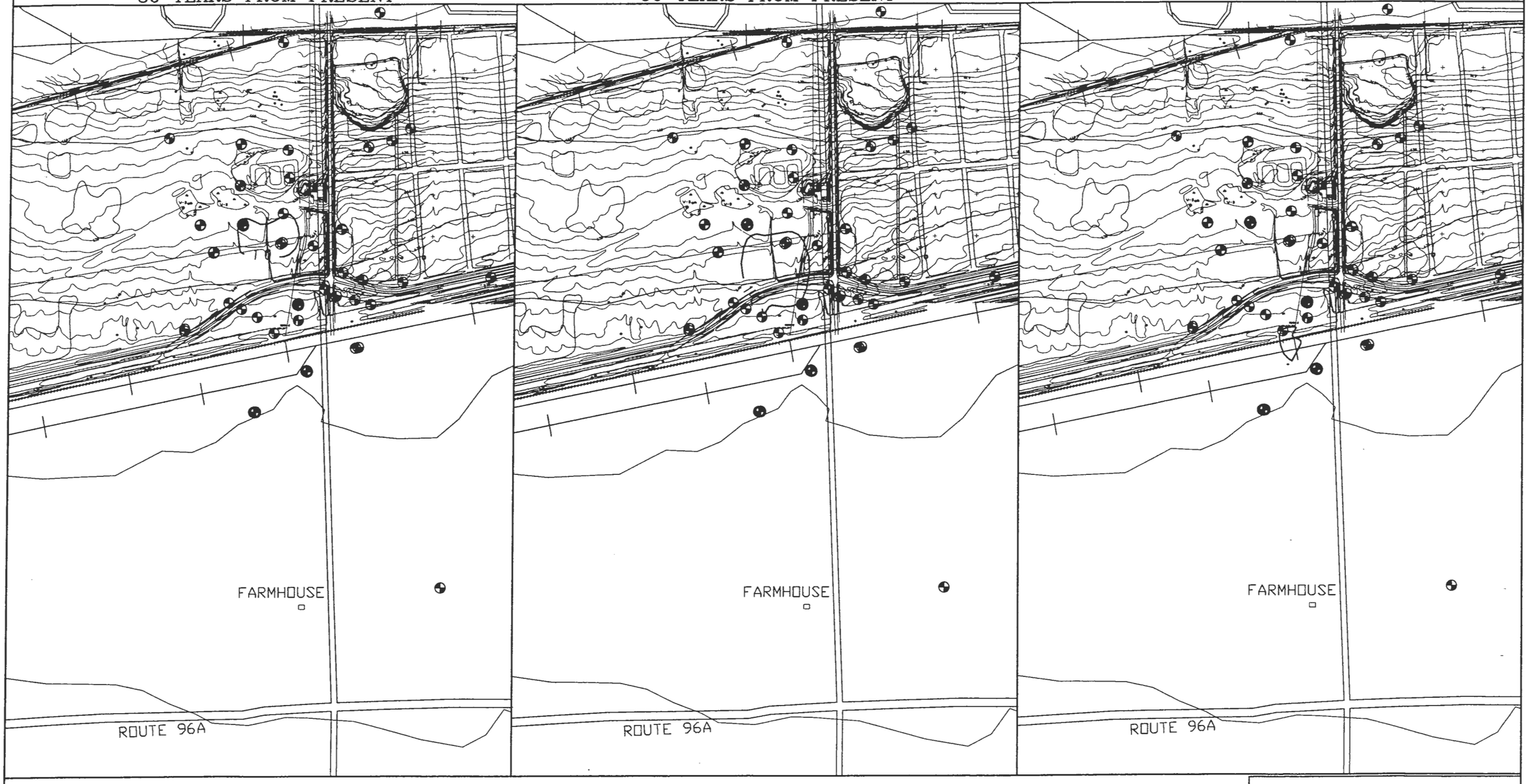
SIMULATION OF EXISTING VOC PLUME IN LAYER 2 AFTER SOURCE REMOVAL AT 30, 50, AND 100 YEARS FROM THE PRESENT (SCENARIO 3)

SCALE 1" = 800' | DATE JANUARY 1996 | REV A

30 YEARS FROM PRESENT

50 YEARS FROM PRESENT

100 YEARS FROM PRESENT



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LEGEND

100
10

SIMILATED VOC PLUME (CONTOUR CONCENTRATIONS IN ug/L)

MONITORING WELL

RAILROAD TRACKS

760

GROUND SURFACE ELEVATION CONTOUR

N

300 0 300 600

1" = 600'

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FIGURE 6-15

SIMULATION OF EXISTING VOC PLUME IN LAYER 3 AFTER SOURCE REMOVAL AT 30, 50, AND 100 YEARS FROM THE PRESENT (SCENARIO 3)

SCALE 1" = 600' | DATE JANUARY 1996 | REV A

provides the most contrast. With the source removed (Scenario 3), the plume is reduced to a relatively small oval shape with concentrations mostly less than 100 µg/L. Concentrations are predicted to exceed 100 µg/L in only one small area. At this time the plume is roughly 1,200 feet long, compared to a length of almost 3,000 feet under Scenario 2. Also, under Scenario 3 the 10 µg/L contour has not reached the farmhouse, as it was predicted to do in Scenario 2.

In layers 2 and 3 the model predicts that the plume sizes and concentrations in Scenario 3 will be significantly less that shown under Scenario 2 (Figures 6-14 and 6-15). In layer 2, the plume remains within the SEDA boundary at 30 years and concentration are less than 1,000 µg/L (Figure 6-14). At 50 years the plume is only slightly larger than at 30 years, but the model predicts that it will migrate beyond the SEDA boundary. By 100 years the concentrations are greatly reduced (less than 100 µg/L) and the plume is mostly beyond the SEDA boundary, with the 10 µg/L contour 500 feet west of the farmhouse. In layer 3, the plume is reduced to a small area with concentrations below 100 µg/L at both 30 and 50 years, and it has not migrated off of SEDA (Figure 6-15). At 100 years the plume is represented by an even smaller area (approximately 100 feet by 200 feet), defined by the 10 µg/L contour (Figure 6-15).

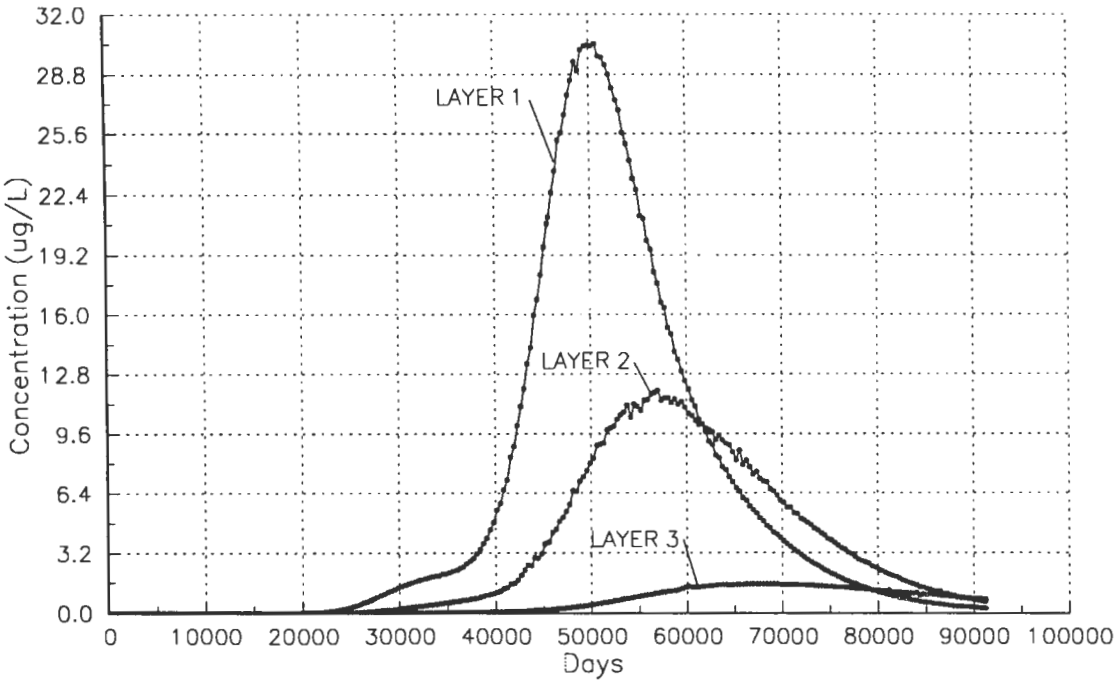
For Scenario 3, an X-Y plot of concentration versus time for the model cells in layers 1, 2, and 3 that corresponds to the location of the farmhouse were made to show the nature of the potential impacts at the farmhouse (Figure 6-16). The model predicts that the leading edge of the plume in layer 1 will reach the farmhouse after approximately 70 years and that a maximum concentration of 30 µg/L will be at approximately 137 years (Figure 6-16). Minor impacts to layers 2 and 3 are predicted by the model (11µg/L and 1.5 µg/L, respectively), however, the model is believed to overestimate the impacts to these layers, since no VOCs have been detected in the competent shale wells on-site (Figure 6-16).

The mass balance discrepancy for Scenario 3 shows initial instability followed by stabilization at approximately 4 % error for the model run to 100 years (Figure 6-17).

Scenario 3-A

For Scenario 3-A, the February 1996 post-remediation starting concentrations were headed by a maximum concentration of 1,132 µg/L at the source area wells PT-18 and MW-44. The degradation constant was 0.00005/day, which is a conservative value. In addition, there was no

VOC CONCENTRATIONS PREDICTED AT THE FARMHOUSE
Scenario 3



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ASH LANDFILL GROUNDWATER MODEL

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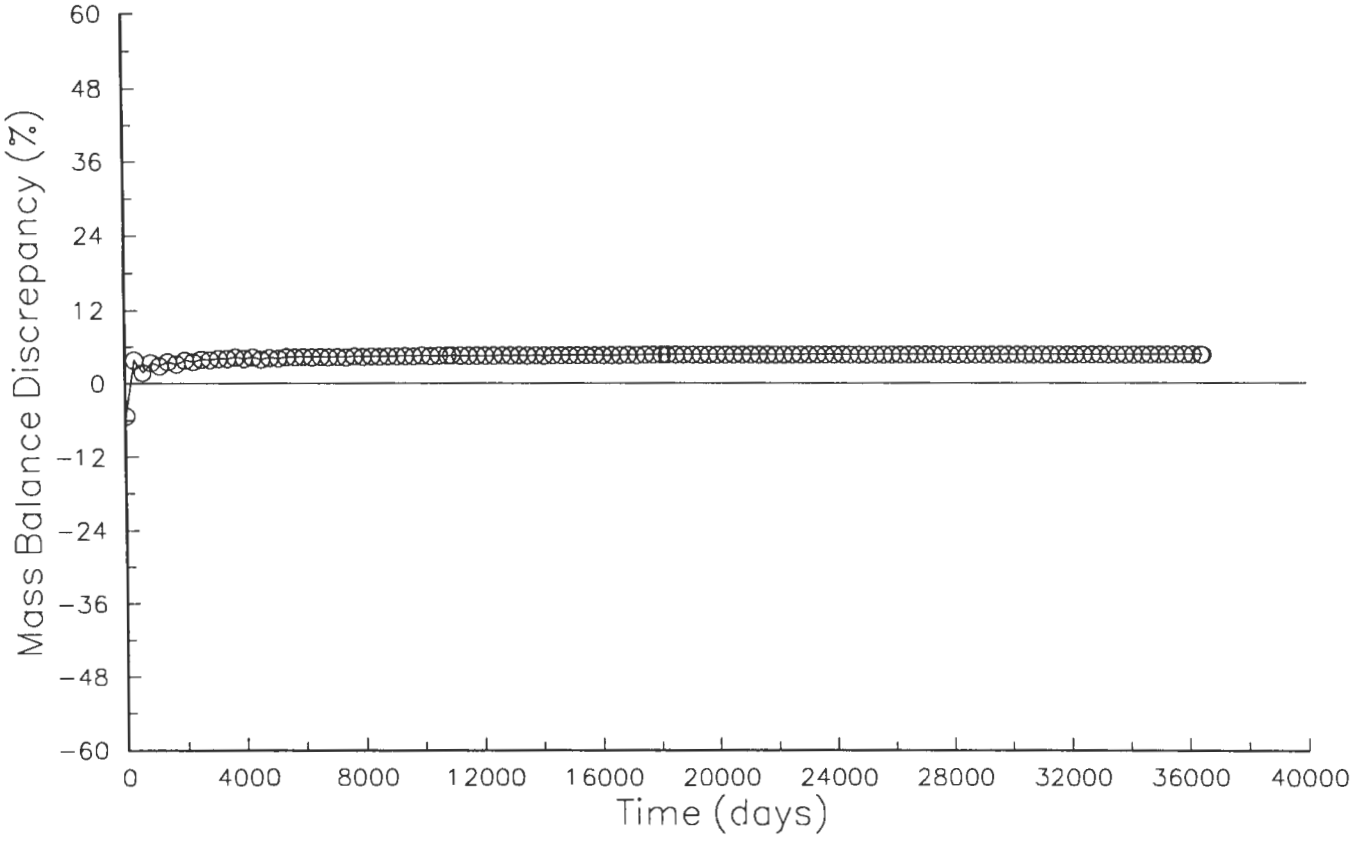
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 6-16
VOC CONCENTRATIONS PREDICTED AT THE FARMHOUSE (SCENARIO 3)

SCALE	DATE
NA	OCTOBER 1995

GRAPHICS\SENECA\ASHMODEL\FARMOBS3.CDR



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ASH LANDFILL GROUNDWATER MODEL

DEPT.	DWG NO.
ENVIRONMENTAL ENGINEERING	726209-01002

FIGURE 6-17
MASS BALANCE
DISCREPANCY TO
100 YEARS (SCENARIO 3)

SCALE	DATE
NA	OCTOBER 1995

GRAPHICS\SENECA\ASHMODEL\MASSE2B.CDR

constant source for the VOCs in this scenario (Appendix F). Other input parameter values were the same as those used in Scenario 1.

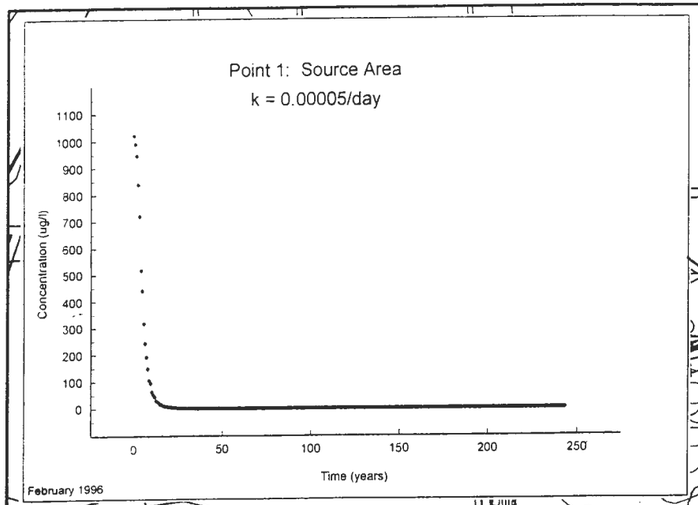
Profile concentration plots at 5 simulation monitoring points along the longitudinal axis of the plume were used to present the modeling results (Figure 6-18) - the plots show how the concentration changed with time at each of the points; the starting time was February 1996.

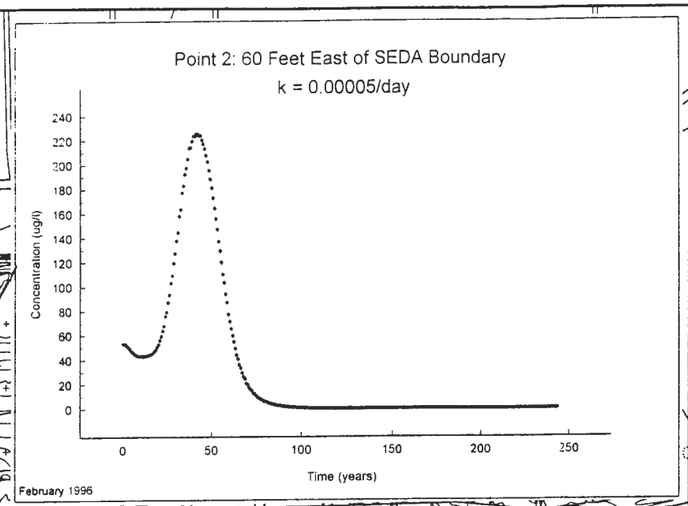
Analysis of the most conservative results indicates that at the source area concentrations (Point 1) decreased to below 5 µg/L (the NYSDEC GA standard for TCE) after approximately 21 years. At simulation Point 2, the concentration reaches a maximum of 225 µg/L after approximately 40 years and decreased to 5 µg/L after a total of 81 years. Immediately east of the SEDA boundary, at Point 3, the maximum simulated concentration was 176 after about 50 years. After 89 years the predicted concentration was 5 µg/L [the small upward bump on the plot is due to a small, elongate zone of relatively high concentrations near MW-29 and PT-17, which caused lower concentrations to be assigned to upgradient cells in a portion of the plume when the initial concentration field was generated using the 4-point moving average method]. At Point 4, which is 200 feet west of the SEDA boundary, the maximum concentration (132 µg/L) is reached after 57 years and the 5 µg/L concentration was reached after approximately 98 years. Lastly, at the farm house, a maximum concentration of 10 µg/L is predicted after approximately 140 years and it takes another 16 years for the concentration at this point to decrease to 5 µg/L. The maximum concentration at the farmhouse is three times lower than that predicted under Scenario 3; this response was caused by the reduced starting concentration field in the source area for February 1996 compared to July 1995.

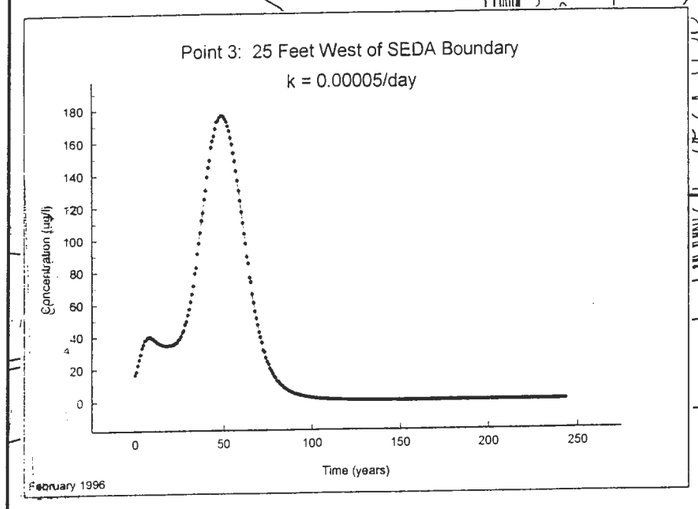
The mass balance discrepancy for Scenario 3-A shows initial instability followed by stabilization at approximately 6 % error for the model run to 250 years.

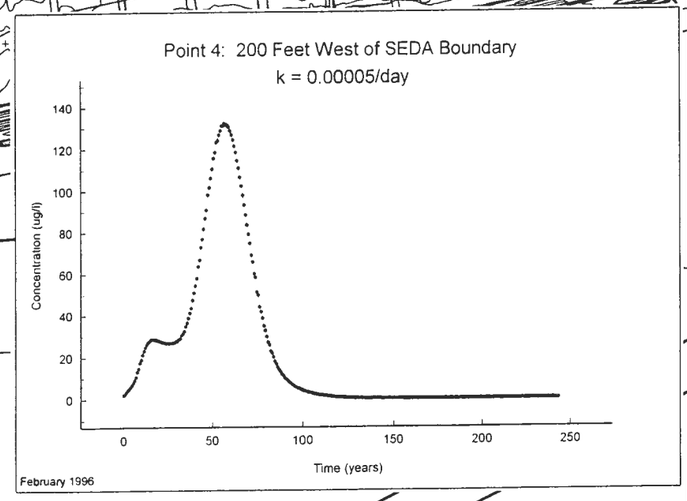
Scenario 3-B

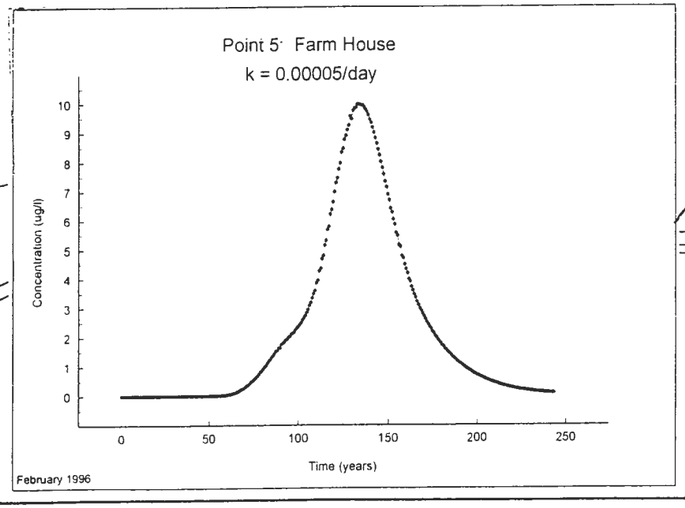
For Scenario 3-B, the February 1996 post-remediation starting concentrations were headed by a maximum concentration of 1,132 µg/L at the source area wells PT-18 and MW-44. This time, the less conservative degradation constant of 0.0005/day was used. In addition, there was no constant source for the VOCs in this scenario (Appendix F). Other input parameter values were the same as those used in Scenario 1.

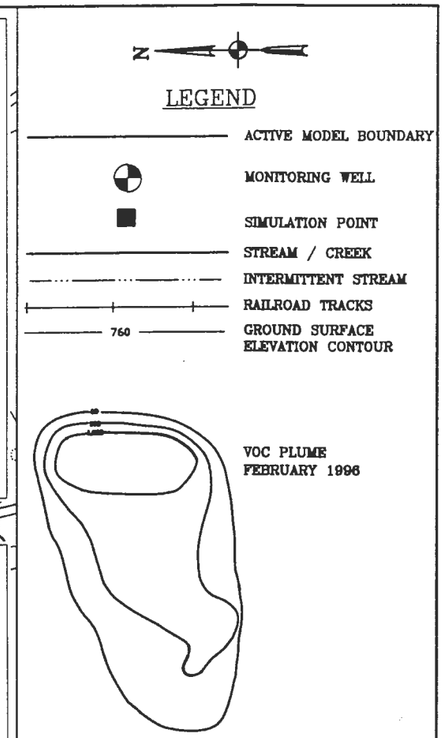












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Dwg. No. 726209-01002

FIGURE 6-18

PROFILES OF VOC CONCENTRATIONS AT SELECTED LOCATIONS IN LAYER 1-SENARIO 3-A

SCALE 1" = 600'

DATE APRIL 1996

REV A

Profile concentration plots at 5 simulation monitoring points along the longitudinal axis of the plume were used to present the results (Figure 6-19). Analysis of the less conservative results indicates that concentrations at Point 1 (the source area), at Point 2 (60 feet east of the SEDA boundary), and at Point 3 (immediately west of the SEDA boundary) are reduced to below 5 µg/L after approximately 12 years; only decreasing concentrations are predicted by the model at these points. At Point 4, the maximum concentration was 3.3 µg/L after approximately 10 years. The model results indicate that the plume will be completely degraded before it reaches the farm house.

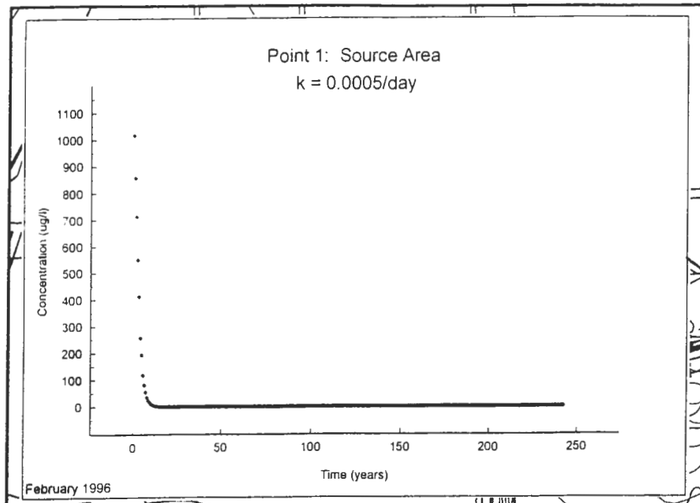
The mass balance discrepancy for Scenario 3-B shows initial instability followed by stabilization at approximately 2 % error for the model run to 250 years.

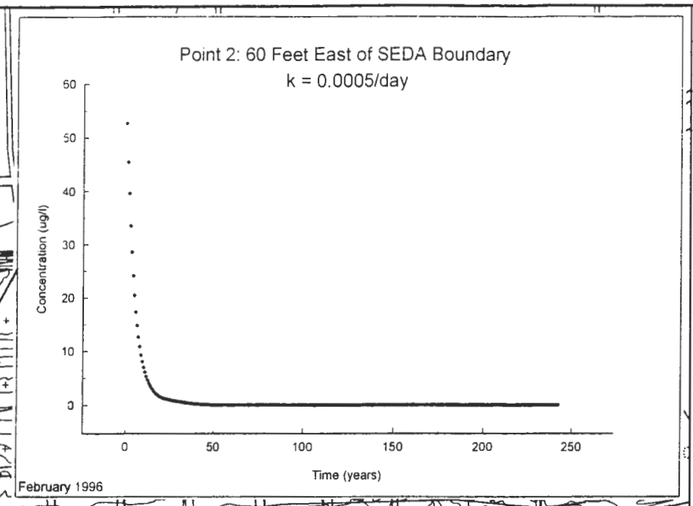
Scenario 3-C

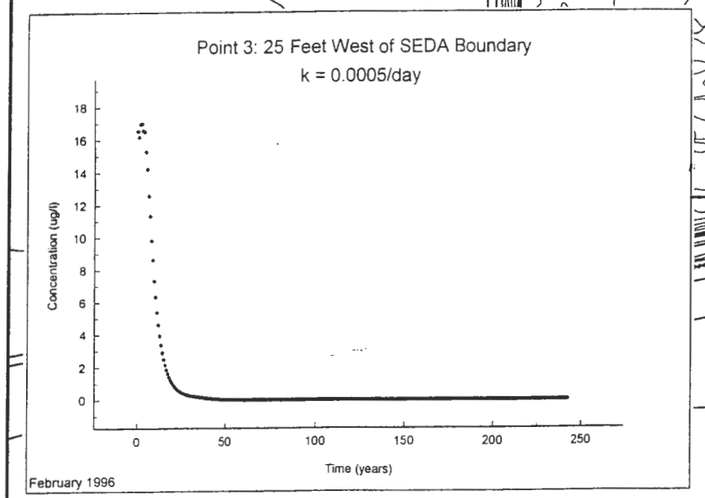
For Scenario 3-C, the February 1996 post-remediation starting concentrations were headed by a maximum concentration of 1,132 µg/L at the source area wells PT-18 and MW-44. This time, the median degradation constant of 0.00009/day was used. In addition, there was no constant source for the VOCs in this scenario (Appendix F). Other input parameter values were the same as those used in Scenario 1.

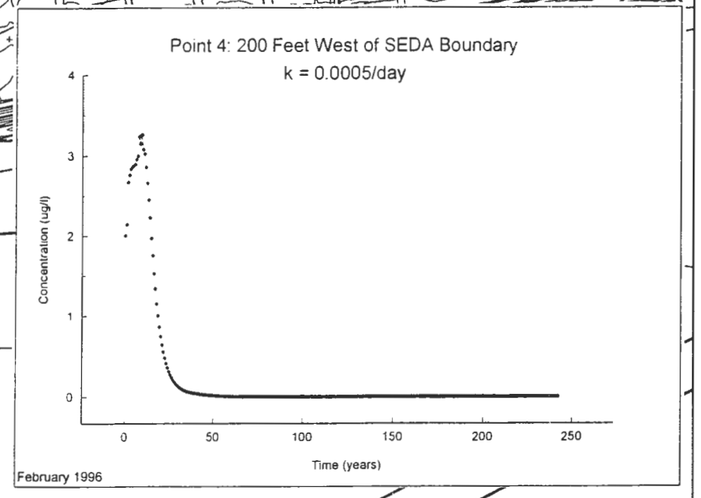
Profile concentration plots at 5 simulation monitoring points along the longitudinal axis of the plume were used to present the results (Figure 6-20). Analysis of the Scenario 3-C results (a moderately conservative run compared to Scenarios 3-A and 3-B) indicates that at Point 1 it will take 19 years for the concentrations to be reduced to 5 µg/L. At Point 2, the predicted concentration was approximately 120 µg/L after 40 years and another 32 years are required to reduce the concentration to 5 µg/L. Immediately west of the SEDA boundary (at Point 3) the maximum simulated concentration was 87 µg/L after 46 years; this concentration was reduced to 5 µg/L after another 32 years. At Point 4, the maximum was 57 µg/L after 55 years; a 5 µg/L concentration is predicted at this point after a total of 85 years. At the farm house, the predicted maximum concentration was 1.4 µg/L, which is below the 5 µg/L GA standard.

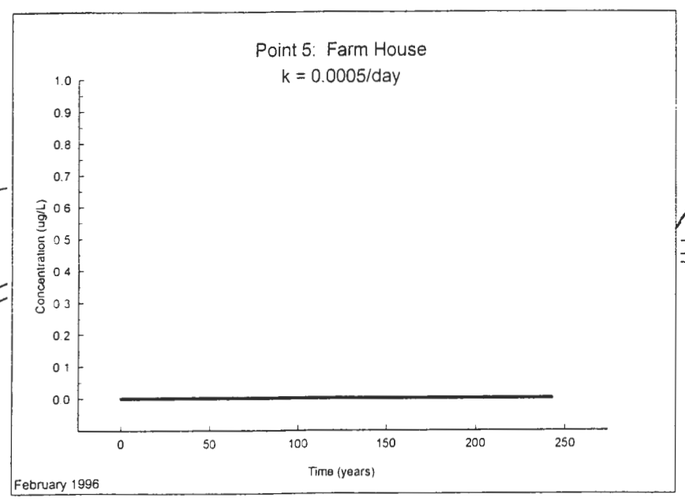
The mass balance discrepancy for Scenario 3-C shows initial instability followed by stabilization at approximately 5 % error for the model run to 250 years.

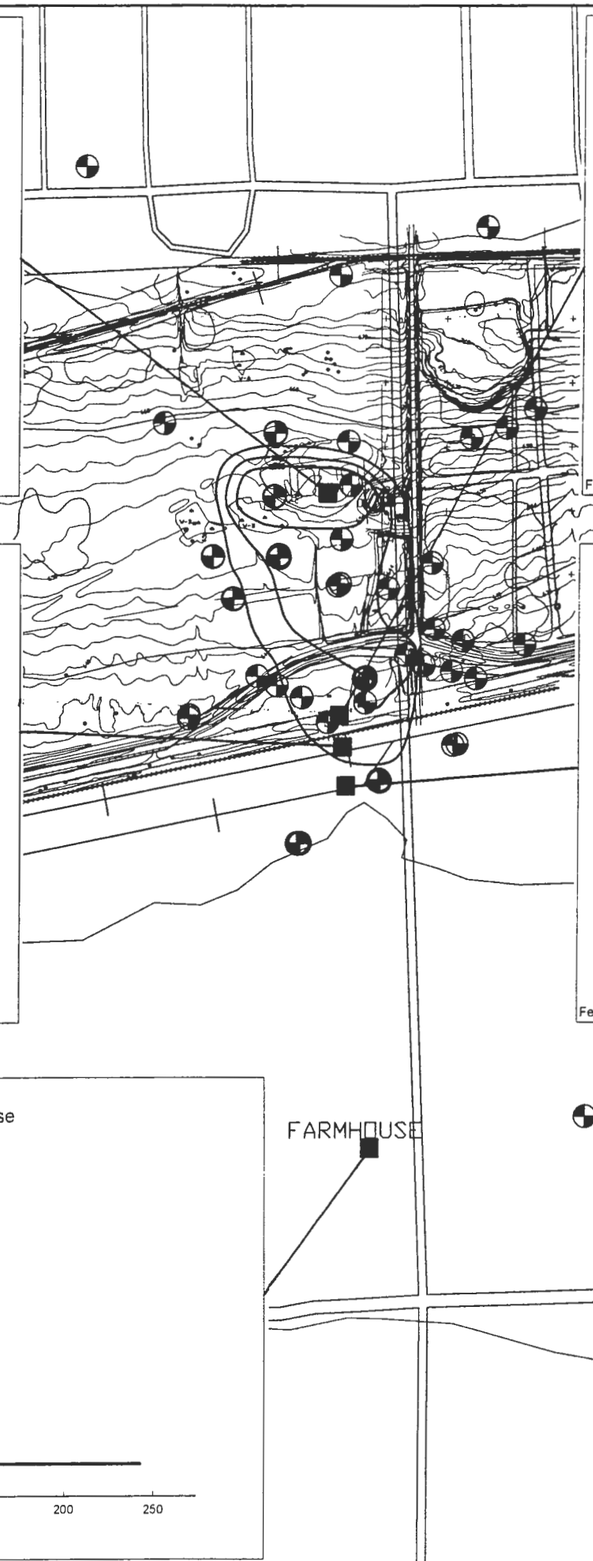












N

LEGEND

ACTIVE MODEL BOUNDARY

MONITORING WELL

SIMULATION POINT

STREAM / CREEK

INTERMITTENT STREAM

RAILROAD TRACKS

760 GROUND SURFACE ELEVATION CONTOUR

VOC PLUME FEBRUARY 1996

300 0 300 600

1" = 600'

C:\ACAD\SENECA\ASHMODEL\PROFTEMP.DWG

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ASH LANDFILL GROUNDWATER MODEL

DEPT. ENVIRONMENTAL ENGINEERING

Dwg. No. 728209-01002

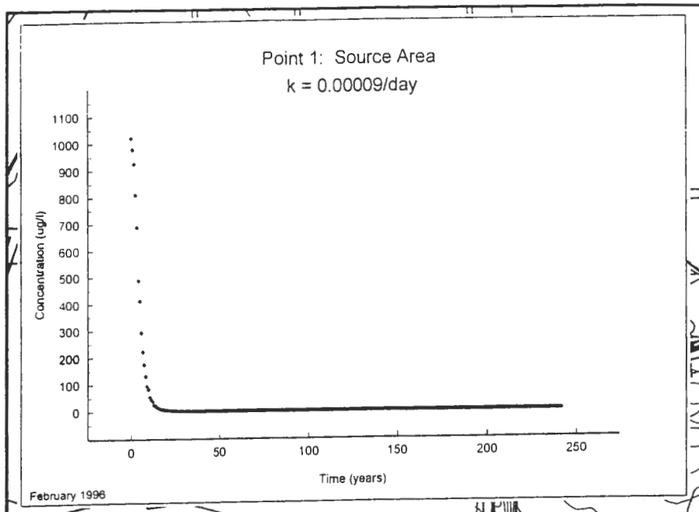
FIGURE 6-19

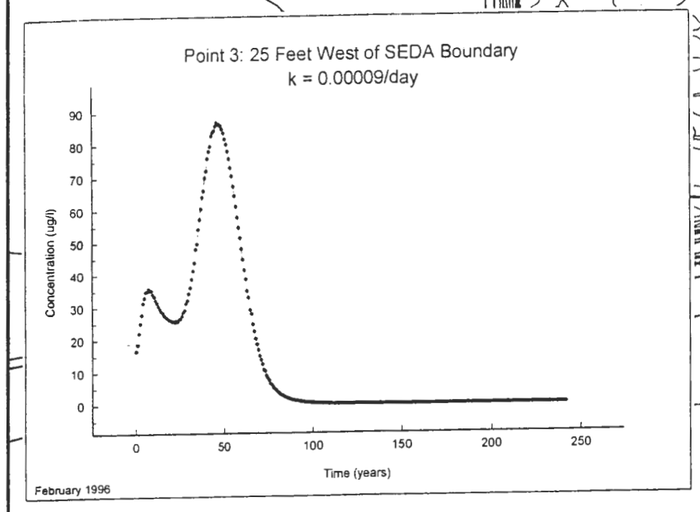
PROFILES OF VOC CONCENTRATIONS AT SELECTED LOCATIONS IN LAYER 1-SENARIO 3-B

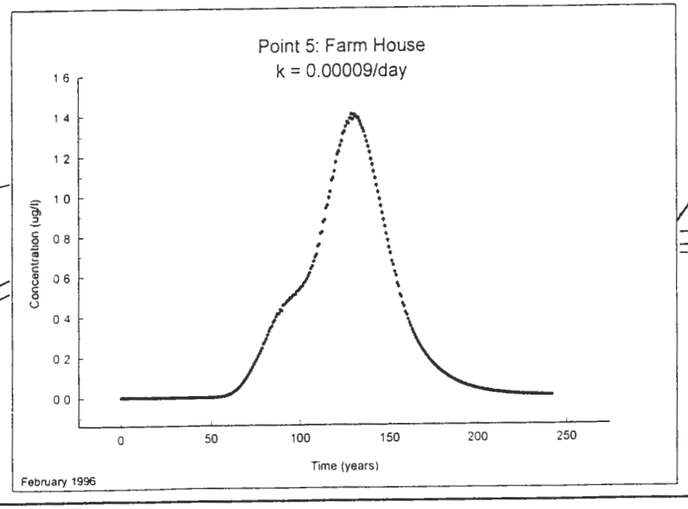
SCALE 1" = 600'

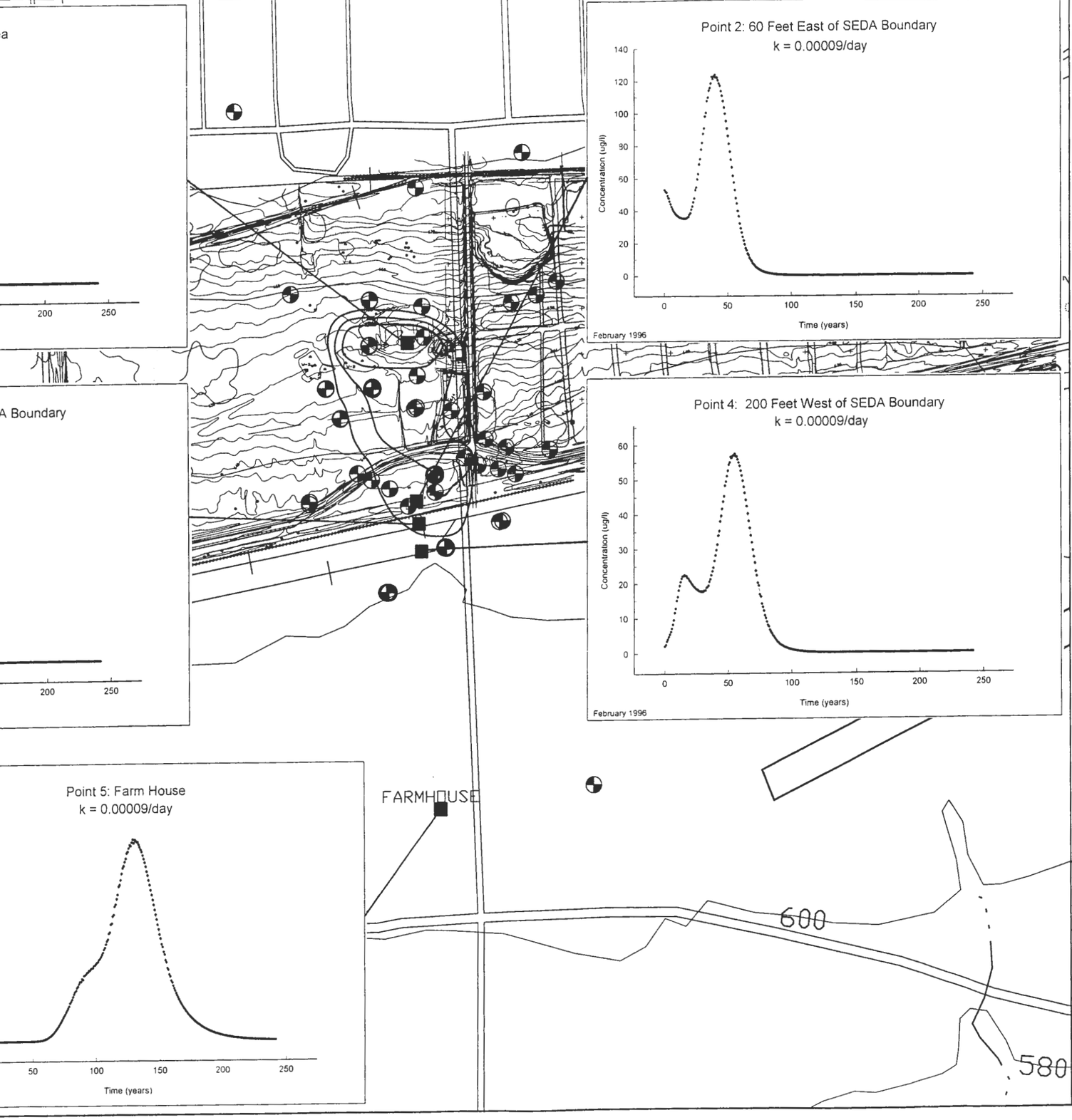
DATE APRIL 1996

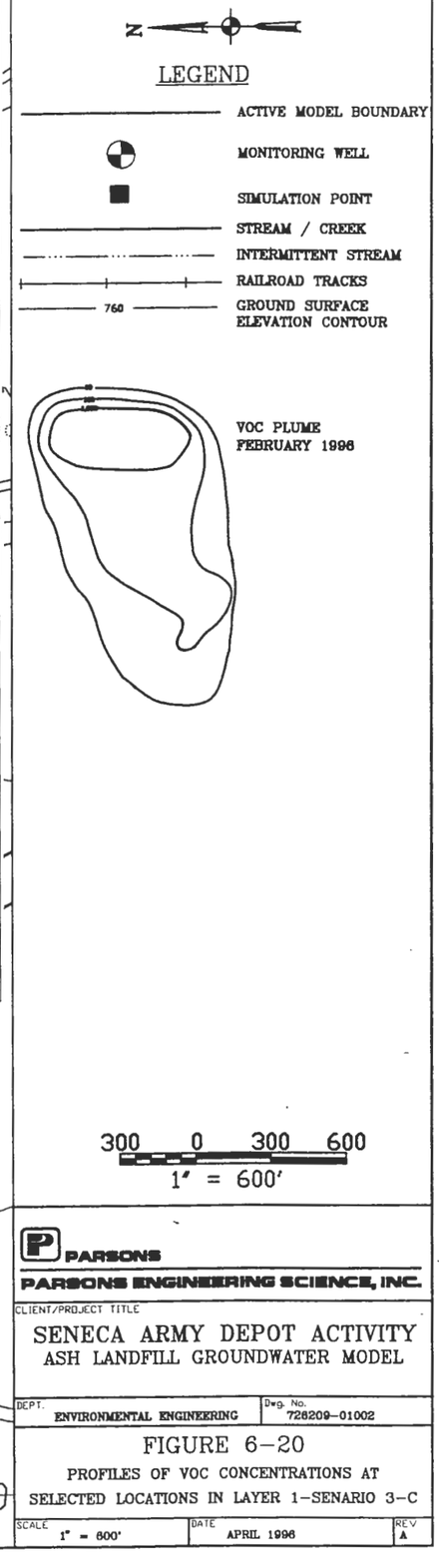
REV A











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Dwg. No. 726209-01002

FIGURE 6-20

PROFILES OF VOC CONCENTRATIONS AT SELECTED LOCATIONS IN LAYER 1-SENARIO 3-C

SCALE 1" = 600'

DATE APRIL 1996

REV A

6.6 SENSITIVITY ANALYSIS

A sensitivity analysis was performed after the transport model was calibrated. The purpose of the sensitivity analysis was to determine how sensitive the model is to variations or uncertainty in the degradation constant rate (k), the dispersivity (α_L), and the distribution coefficient (K_d) parameters. The sensitivity analysis was performed by increasing and decreasing the best estimates for k, α_L, and K_d up to one order of magnitude (i.e., ± 25 percent, ± 50 percent, ± 1 order of magnitude) and noting the effects on the maximum concentration observed at selected monitoring points (i.e., cells). Thus, during the sensitivity analysis the values for k, α_L, and K_d were systematically changed within a wide range of values over many model runs that simulated plume migration to 100 years.

Four cells along the longitudinal axis of the plume were selected as points at which the concentration data was saved over time by the model. The cell coordinates of the monitoring points are as follows:

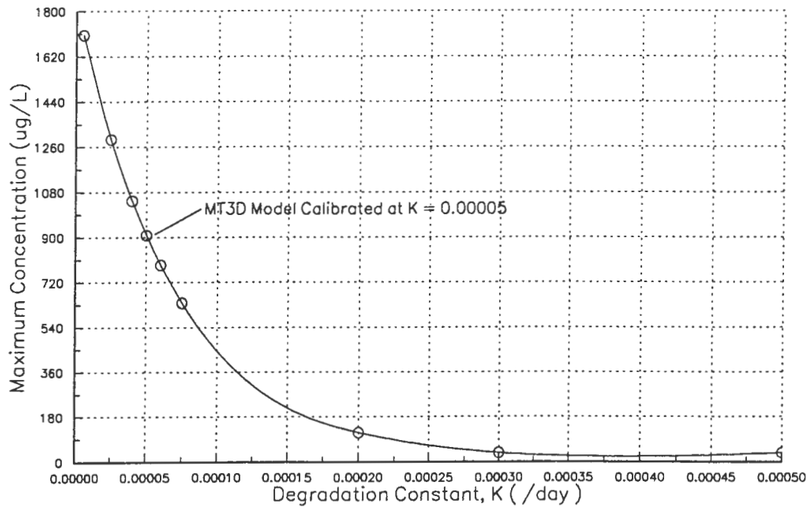
1. Layer 1, row 102, column 38 (within existing plume)
2. Layer 1, row 131, column 40
3. Layer 1, row 155, column 42
4. Layer 1, row 177, column 42 (at farmhouse).

6.6.1 Degradation Constant (k)

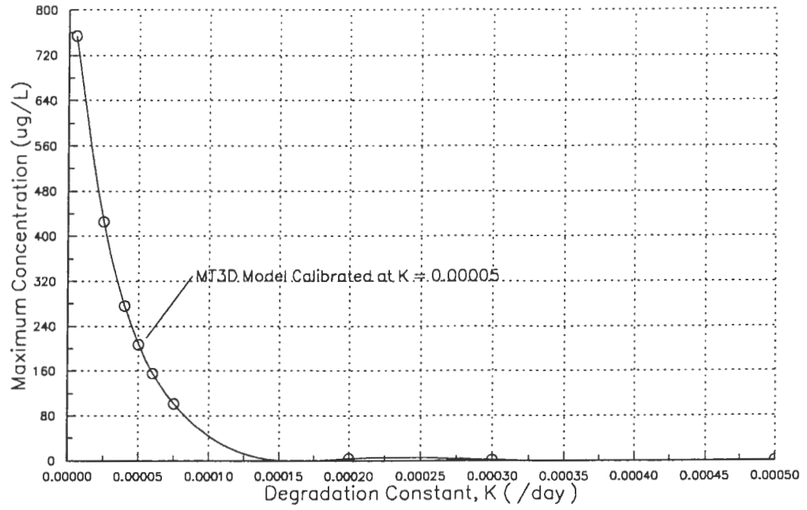
The sensitivity of the model to k has been discussed in Section 6.4.1 and was evaluated using two scenarios that differ only by the values used for the starting concentrations. Model sensitivity to k was also evaluated under Scenario 3, which used both a July 1995 starting concentration field. This sensitivity analysis served as a basis of comparison to other parameters, such as α_L and K_d, which are discussed in the following sections.

The results of the initial sensitivity analysis for k are shown on Figure 6-21. These x-y plots show how the maximum concentration predicted at a monitoring point changes with differing k values; the data points were connected using a spline function. Not unexpectedly, all of the plots exhibit a trend where the maximum concentration increases with decreasing k values, and at higher k values the maximum concentrations are greatly reduced. Thus, as k values become increasingly small, the maximum concentrations are expected to be more influenced by other processes. The results of the

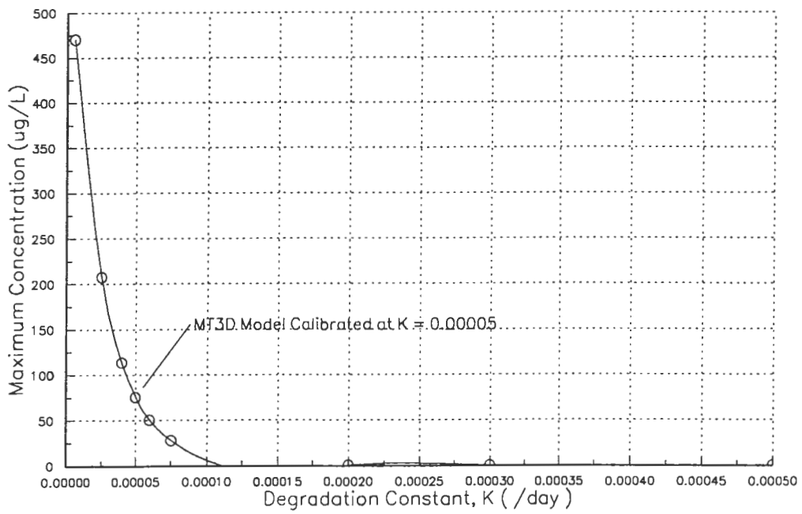
Cell: Layer 1 , Row 102, Column 38
Scenario 3



Cell: Layer 1 , Row 131, Column 40
Scenario 3



Cell: Layer 1 , Row 155, Column 42
Scenario 3



Cell: Layer 1 , Row 177, Column 42
Scenario 3

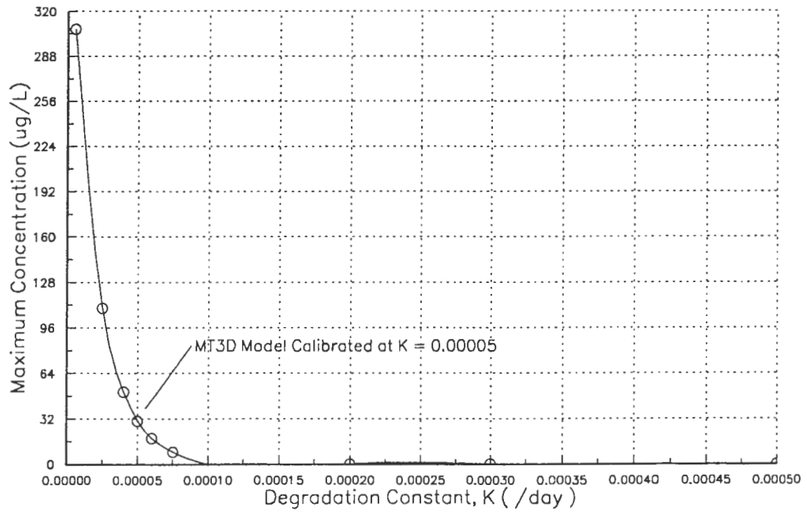


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FIGURE 6-21
PLOTS SHOWING THE SENSITIVITY OF THE TRANSPORT MODEL TO THE DEGRADATION CONSTANT, K
JULY 1995 VOC PLUME

SCALE	DATE
NA	APRIL 1996

subsequent sensitivity analysis were very similar to those obtained in the initial analysis (Figure 6-22).

As a comparison, the k value obtained from the literature for the ODAST model (0.00062/day) was near the range of expected values calculated using the method of Wiedemeier et al. (1995) (0.00005/day) and the method of Buscheck and Alcantar (1995), that predicted a degradation constant of 0.0005/day. The data suggests that the range of k values that may be considered reasonable for the site is between 0.00005/day to 0.0005/day. Using a k value of 0.0005/day, which is approximately equal to the value that was used in the ODAST model, results in significant degradation of VOCs at monitoring points within the existing plume, attainment of steady state conditions and predicts no migration at the monitoring points downgradient of the existing plume after 150 years (Figure 6-18). This supports the preliminary conclusion reached after running the ODAST model that the plume had achieved a steady-state condition.

6.6.2 Dispersivity - Longitudinal (α_L)

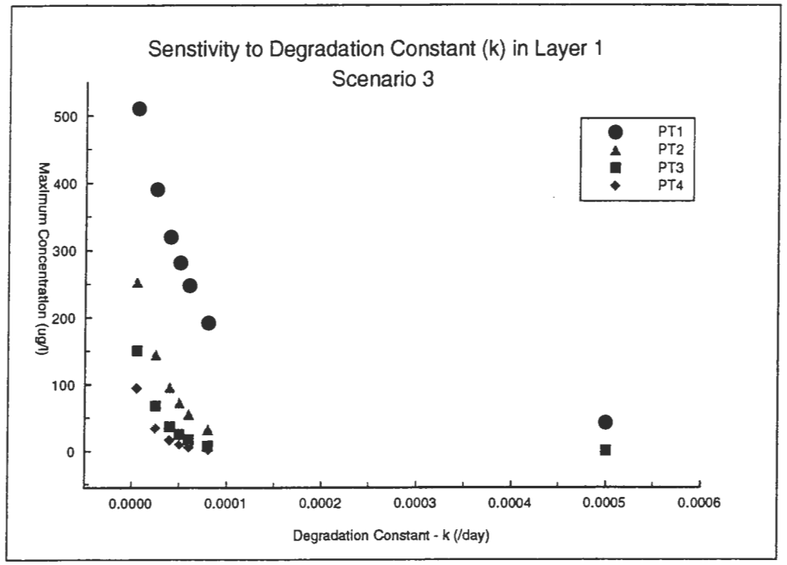
The sensitivity of the model to α_L was evaluated using the most recent starting concentration field, February 1996. This sensitivity analysis served as a basis of comparison to other parameters, such as k and K_d .

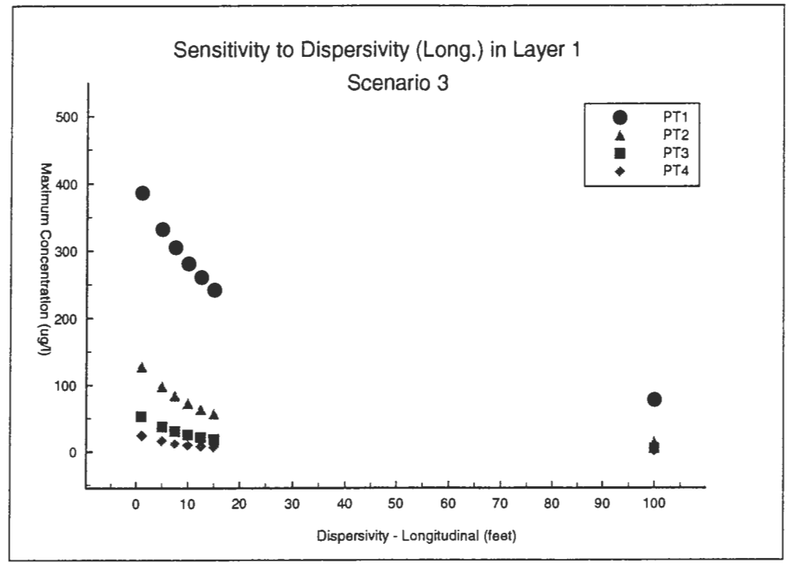
The results of the initial sensitivity analysis for α_L are shown on Figure 6-22. This x-y plot shows how the maximum concentration predicted at the monitoring points changes with differing distribution coefficient values. All of the plots exhibit a similar trend in that increasing α_L results in decreasing maximum concentrations at the four monitoring points. However, a comparison of these results with those for k indicated that the transport model is less sensitive to α_L than to k.

6.6.3 Distribution Coefficient (K_d)

The sensitivity of the model to K_d was evaluated using the most recent starting concentration field, February 1996. This sensitivity analysis served as a basis of comparison to other parameters, such as k and α_L.

The results of the initial sensitivity analysis for K_d are shown on Figure 6-22. This x-y plot shows how the maximum concentration predicted at a monitoring point changes with differing dispersivity





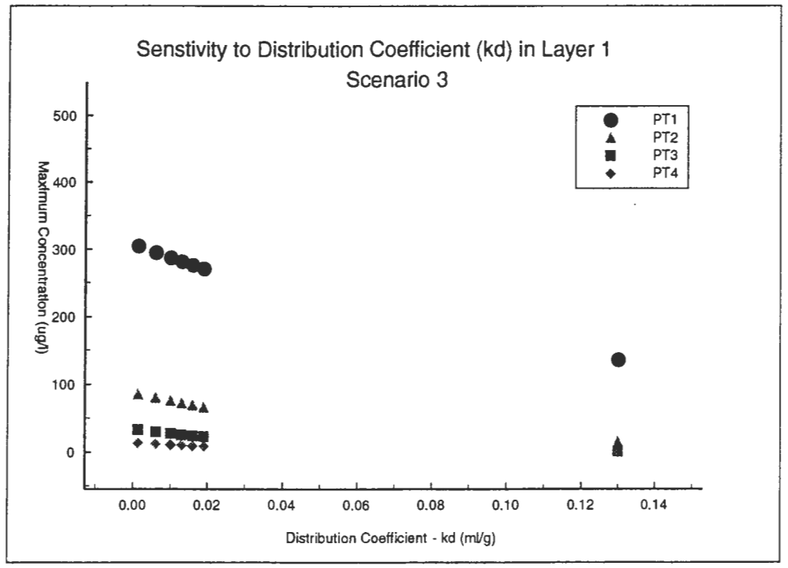


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FIGURE 6-22

PLOTS SHOWING THE SENSITIVITY OF THE TRANSPORT MODEL TO K, Dsp., AND Kd FEBRUARY 1995 VOC PLUME

SCALE	DATE
NA	APRIL 1996

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values. All of the plots exhibit a similar trend in that increasing K_ds result in decreasing maximum concentrations at the four monitoring points. A comparison of these results with those for k and α_L indicated that the transport model is less sensitive to K_d than to either of the other two parameters, k and α_L.

7.0 SUMMARY AND CONCLUSIONS

Groundwater flow and contaminant transport modeling were combined to simulate the migration of a VOC plume under several scenarios at the Ash Landfill and surrounding area. The primary goal of the modeling was to evaluate the potential for future impacts to off-site farmhouse wells by VOCs migrating from the Ash Landfill under pre- and post- VOC source removal scenarios.

The groundwater flow model consisted of a flow system defined by three model layers, layer 1 for the till/weathered shale and layers 2 and 3 for the competent shale. The MODFLOW model simulated a groundwater flow system defined by a constant head boundary at Seneca Lake, a groundwater divide no flow boundary between Seneca and Cayuga lakes, and streamline no flow boundaries along the northern and southern sides of the model. An important aspect of the groundwater flow system near the Ash Landfill is that much of the water that enters the system via precipitation is returned to the atmosphere through a combination of evapotranspiration and capillary rise in the fine-grained till. Thus, the net recharge rate was a significant factor affecting the heads calculated by the MODFLOW model.

Head and flow data from the calibrated flow model were incorporated into the MT3D contaminant transport model to simulate the migration of the VOC plume under three scenarios. Under Scenario 1 the transport model was calibrated using the existing plume as a basis of comparison. The plume was simulated from the time of the release (t = 0) to 50 years with two constant sources of VOCs in the Ash Landfill. The results indicate that the simulated concentrations in layer 1 matched the existing plume configuration at approximately 35 years after the time of the release, depending on the degradation rate constant selected. Using a slow k value (i.e., 0.00005/day) the plume appeared to match current plume dimensions although several wells were predicted to have higher concentrations than what was actually measured. Using a faster k value (i.e., 0.0005/day) the plume dimensions were smaller than what was actually measured but several wells appeared to coincide with actual measured values. Using the slower k value, VOC concentrations in layers 2 and 3 were found to be higher than those measured in nearby bedrock wells and thus the model is believed to predict higher plume concentrations than actually exist in the bedrock..

Scenario 2 was performed to evaluate the migration potential of the plume if the source removal action had not be performed. This scenario provided a worst case scenario since the slowest rate constant was used in this simulation. This scenario predicted off-site migration of the plume.

For Scenario 3, the boundary condition of constant leaching of VOCs was eliminated from the model to reflect the benefits gained as a result of the removal action completed at the Ash Landfill in the Spring of 1995. Initial starting concentration fields were less than what was used for

Scenario 1 or Scenario 2. As expected, the model predicted beneficial effects of the removal action in reducing the size (i.e., length of the plume) and the magnitude of the concentrations in the plume over time when compared to what would have occurred as part of Scenario 2. While elimination of the source decreased the size of the plume and the concentrations in several wells, the potential exists for the remaining portion of the plume that was not affected by the removal action to migrate off-site. The goal of this scenario was to evaluate this potential.

From a review of the historical groundwater monitoring data it appears that degradation of the existing groundwater plume was likely occurring based upon an increase in the presence of breakdown products in the downgradient wells. Scenario 3 was used to evaluate the hypothesis that, combined with source removal, the indigenous microbial community was capable of eliminating the remaining plume prior to the plume reaching any off-site receptors (the nearest current receptor is at the farmhouse). The degree to which the plume was expected to migrate off-site was determined to be largely a function of this term. A range of likely degradation rates was quantified for use in the MT3D model. Two techniques were utilized to provide this allowable range, one utilized historical data and a groundwater tracer to derive a degradation rate and the other utilized historical groundwater monitoring data at several downgradient monitoring wells to obtain the degradation value. The range of degradation rates obtained using these two techniques was between 0.0005/day and 0.00005/day. Degradation rate values within this range were evaluated during the modeling runs.

In addition to the modeling runs, Parsons ES collected field data that was used to evaluate whether or not the conditions at the site are acceptable to support biotic reductive dechlorination, suspected to be the main mechanism of the degradation process. This data detected the presence of dissolved organic carbon in the aquifer that can serve as a source of electrons, i.e. electron donors. The redox potentials measured in several monitoring wells were in the range considered to be anaerobic, although not strongly anaerobic. The pH of the groundwater system was determined to be with the range that would support biological activity. This information suggested that site conditions were within the range of conditions for degradation to occur.

Scenario 3 utilized the July 1995 groundwater monitoring results as the starting concentration field and a conservative k value of 0.00005/day. Under these conditions, the plume in layer 1 reached the farmhouse in 70 years with a maximum concentration of 30 µg/L at 137 years. In layers 2 and 3 the plume was predicted to reach the farmhouse in 95 and 150 years, respectively. Additional source term groundwater data was collected in February, 1996, for wells that were destroyed during the source removal action. This data was not included in this scenario as this information was not available when this scenario was evaluated.

Scenarios 3-A, 3-B, and 3-C involve simulations of the existing plume using the February 1996 groundwater sampling data as the source term. For these scenarios, the migration of the plume was evaluated using three different degradation approaches that are intended to account for the range of possible k values calculated using methods described in Section 6. These rates included a slow rate of 0.00005/day, a faster rate of 0.0005/day and a median rate of 0.00009/day. On the basis of calibration information, each rate may be applicable to the Ash Landfill site and, therefore, it was necessary to consider the range of possible occurrences using each rate. Using the slowest rate, the model predicted that the plume of VOCs remaining on-site after the removal action will not completely degrade before it move west from the Ash Landfill to the farmhouse. The model predicts a maximum concentration of 10 μ/L will be achieved at the farmhouse after 140 years. Using the fastest k value, the model predicts that the plume will not move a great distance from the Ash Landfill, and will be completely degraded before it reaches the farm house. Also, under this scenario the model predicts that the off-site portion of the plume will be degraded to below 5 μ/L within approximately 15 years. Using the median k value, the model predicts that the plume will migrate off-site, but it will be degraded to approximately 1.4 μ/L (which is below the 5 μ/L NYSDEC GA standard for both TCE and 1,2-DCE) when it reaches the farmhouse.

The contaminant transport simulations of the removal of VOC source soils at the Ash Landfill predict a reduction in the size and magnitude of the VOC concentrations of the plume over time. The impacts of off-site migration depend upon the actual value of k, the degradation rate constant. The faster rate indicates that the off-site impacts are minimal while the slowest rate suggests that there will be off-site migration. While the model prediction are not conclusive, there is sufficient data (i.e., the historical groundwater data in Section 1.3) that would suggest that the VOC concentrations have remained constant. This data, and the model results that predicted stable plume conditions using the faster degradation rate, suggests that there is a reasonable likelihood that off-site migration will be minimal. Since uncertainty in these results exists, it is prudent to continue monitoring the aquifer at the "toe" of the plume to determine if VOC concentrations increase over time. If concentrations in the wells predicted by the model using the fast degradation rate increase then it is likely that this rate was not correct and the conditions predicted by the slower rate would apply. However, if monitoring suggests that the concentrations remain the same or decrease then the results predicted by the model using the faster degradation constant are true and the plume will not migrate off-site. In either event, there would be sufficient time to implement a remedial response prior to the plume impacting any existing potable groundwater supply, should the concentrations increase.

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APPENDIX A

Northeast Regional Climate Center, Daily Evapotranspiration and Soil Moisture Estimates for the Northeastern United States - MORECS model

NORTHEAST
REGIONAL
CLIMATE
CENTER

1123 Bradfield Hall
Cornell University
Ithaca, NY 14853-1901

Phone: (607) 255-1751
Fax: (607) 255-2106

Internet mail: nrcc@cornell.edu

9 May 1995

Mr. Paul Meriney
Parsons Engineering Science Inc.
Prudential Center
Boston, MA 02199-7697

Dear Mr. Meriney:

Enclosed is the climatic data that you ordered. The tabulated values indicate the monthly total evapotranspiration from a grass-covered surface at Ithaca, NY. These values were derived using our evapotranspiration model which is described in the publication which I have included. A bill for this data is also enclosed.

I hope that this information is useful for your application. If you have any further questions, please don't hesitate to contact me.

Sincerely,

Arthur T. DeGaetano, Ph.D.
Research Climatologist

MONTHLY EVAPOTRANSPIRATION FROM GRASS

ITHACA, NY

Month	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
January	0.24	0.22	0.28	0.24	0.27	0.37	0.33	0.30	0.27	0.24	0.17
February	0.53	0.39	0.31	0.55	0.48	0.35	0.53	0.47	0.22	0.43	0.54
March	0.80	1.28	1.20	1.65	1.26	1.19	1.27	1.00	0.67	0.93	0.87
April	1.80	2.00	2.17	1.96	1.73	1.91	1.99	2.08	1.64	1.57	1.93
May	2.12	3.48	3.71	3.46	3.20	2.51	2.52	4.03	2.84	3.43	2.64
June	4.30	3.15	3.38	3.51	4.39	3.02	3.60	3.65	3.51	3.42	4.20
July	4.26	4.10	3.49	4.19	3.43	4.51	3.81	3.38	2.35	4.09	4.05
August	3.39	2.77	3.34	3.08	3.33	3.27	3.10	2.03	2.91	3.00	2.97
September	2.37	2.38	2.00	1.52	2.57	2.04	2.03	1.04	2.21	1.53	2.05
October	1.30	1.27	0.93	1.09	0.94	1.41	1.10	1.44	1.14	1.11	1.45
November	0.52	0.32	0.40	0.51	0.53	0.33	0.69	0.53	0.43	0.42	0.61
December	0.32	0.21	0.27	0.28	0.34	0.25	0.31	0.30	0.28	0.40	0.41

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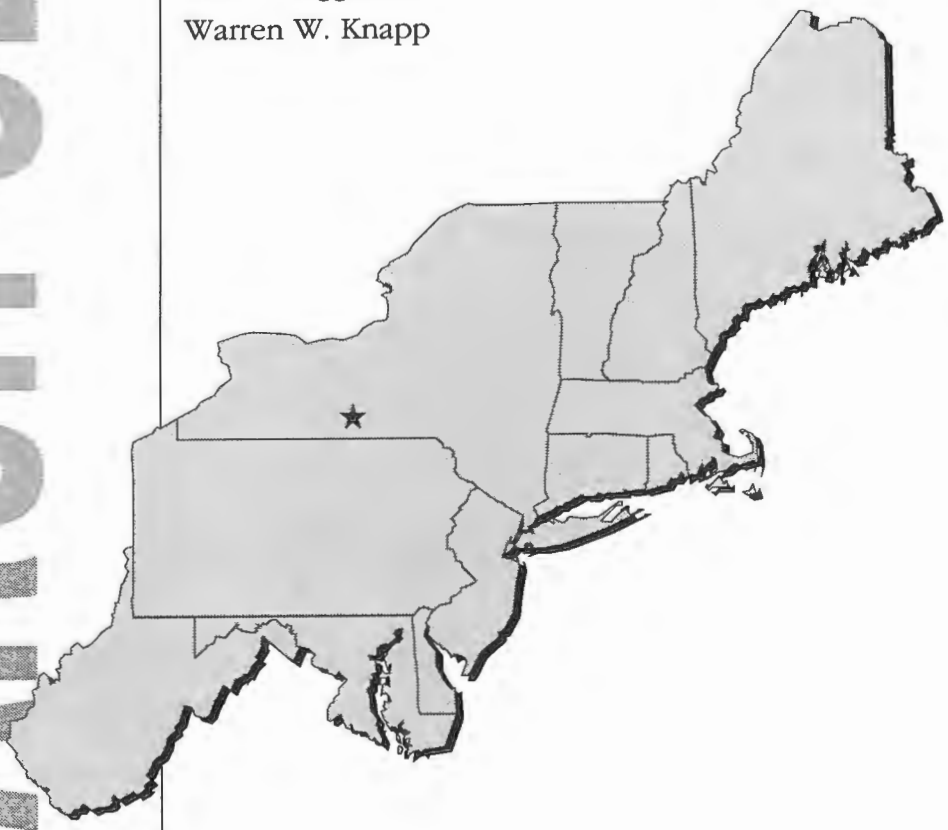
NORTHEAST REGIONAL CLIMATE CENTER

Daily Evapotranspiration and Soil Moisture Estimates for the Northeastern United States

Arthur T. DeGaetano
Keith L. Eggleston
Warren W. Knapp



Cornell University
Ithaca, New York
Publication No. RR 94-1
January 1994

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The mission of the Northeast Regional Climate Center (NRCC) is to facilitate and enhance the collection, dissemination and use of climate data as well as to monitor and assess climatic conditions and impacts in the twelve-state, northeastern region of the United States. Implementing this mission involves three programmatic objectives: 1) the development and management of regional climate data bases, 2) the dissemination of information and educational services regarding climate and its impacts, and 3) the performance and support of applied climate research.

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For further information please write or call:

Northeast Regional Climate Center
1123 Bradfield Hall
Cornell University
Ithaca, New York 14853-1901

(607) 255-1751

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INTRODUCTION

A recent survey of climate information users in the northeastern United States indicated a strong interest in current evapotranspiration (ET) and soil moisture values. Such data has a wide variety of applications including the planning of agricultural operations, flood potential forecasting, and the scheduling of urban lawn watering. Unfortunately, routine measurements of evaporation and soil moisture are not widely available in the region. Only about 30 cooperative network stations in the Northeast measure pan evaporation, and soil moisture is observed at a limited number of specialized stations. These measurements are not reported, however, with sufficient frequency to be useful in monitoring real-time ET rates or soil moisture status. In addition, the historical records of such observations show many gaps and inconsistencies.

Because the inventory of evaporation and soil moisture measurements is so limited, numerous methods to estimate ET and soil moisture status have been proposed and implemented. Broadly, such methods can be classified as either climatological or physically-based. Climatological methods are designed to estimate potential ET using routinely measured meteorological data such as air temperature, and do not relate well to actual situations where both crop and soil factors affect the rate of ET. Such methods are useful only for estimating maximum ET values over periods of a month or longer. Formally, potential evapotranspiration is defined as the rate of water loss from an extended surface of short green crop assuming that the crop fully shades the ground, exerts negligible resistance to the flow of water and is continually well supplied with water.

Perhaps the most widely used climatological method for estimating ET is that of Thornthwaite (1948). Based on mean monthly temperature (T_i), in °C, Thornthwaite's method estimates potential ET (ETP) for month i using the formula:

$$ETP_i = 1.6\,(10(T_i)/I)^a \qquad (1)$$

where ETP has units of centimeters and the exponent a is given by:

$$a = 6.75\times10^{-7}\,(I^3) - 7.71\times10^{-5}\,(I^2) + 1.79\times10^{-2}\,(I) + 0.49. \qquad (2)$$

I is a heat index given as:

$$I = \sum_{i=1}^{12} (T_i/5)^{1.514}\,. \qquad (3)$$

Application of the Thornthwaite method to estimate ETP over periods shorter than a month leads to significant errors because short-term temperature means are an unsatisfactory surrogate for net radiation, which physically drives evapotranspiration. Other climatological methods have been proposed by Blaney and Criddle (1950), and Jensen and Haise (1963).

Physically-based methods for estimating evaporation allow for more reliable, short-term estimates at the expensive of requiring considerably more meteorological input data. This is exemplified by the commonly used Penman Method (Penman, 1948) given in simplified form as:

$$E = (\Delta H + \gamma E_a)/ (m + \gamma) \tag{4}$$

where E is daily evaporation from an open water surface, Δ is the slope of the saturation vapor pressure curve at the mean air temperature, H is an estimate of net radiation and γ is the psychromatic constant. E_a, which relies on the saturation and actual vapor pressures, e_s and e_a, respectively, and the mean wind speed, u, is given as:

$$E_a = 0.35(e_s - e_a)(1 + u \times 10^{-2}). \tag{5}$$

Other physically-based methods for estimating evaporation, include those proposed by Thornthwaite and Holzman (1942), Swinbank (1951), and Suomi and Tanner (1958). A physically-based method for estimating evapotranspiration was developed by Monteith (1963).

Combining the methods of Penman and Monteith provides a physically-based means of estimating ET from surfaces other than open water. The Penman-Monteith equation (Monteith, 1965) calculates ET as:

$$\lambda E = \frac{\Delta(R_n - G) + \rho c_p (e_s - e_a)/r_a}{\Delta + \gamma (1 + r_s/r_a)} \tag{6}$$

where
- E = rate of water loss (Kg $m^{-2}s^{-1}$)
- Δ = rate of change of e_s with temperature (mb $°C^{-1}$)
- R_n = net radiation (Wm^{-2})
- G = soil heat flux (Wm^{-2})
- ρ = air density (Kg m^{-3})
- c_p = specific heat of air at constant pressure (1005 JKg^{-1} $°C^{-1}$)
- e_s = saturation vapor pressure (mb)
- e_a = actual vapor pressure (mb)
- λ = latent heat of vaporization (2.465×10^6 JKg^{-1})
- γ = psychromatic constant (0.66 mb $°C^{-1}$)
- r_s = surface resistance (sm^{-1})
- r_a = aerodynamic resistance (sm^{-1})

Due to its physical basis and its ability to provide reliable daily ET estimates, the Penman-Monteith equation is commonly used to estimate ET for a variety of surface types and locations. The Penman-Monteith equation forms the basis for the British Meteorological Office Rainfall and Evaporation Calculation System (MORECS) (Thompson et al., 1981). MORECS is used operationally in Great Britain to obtain weekly and monthly estimates of average evaporation and soil moisture deficits over

40 km x 40 km grid squares. The system relies on routinely observed daily meteorological data as its input. An important feature of MORECS is a scheme designed to determine potential and actual ET over a variety of different surface types. Using MORECS, such estimates can be obtained for open water, bare soil, grass, cereals, potatoes, deciduous trees, conifers, orchards and pastures.

The Penman-Monteith equation is also the primary means by which ET is calculated in the CERES-Maize corn simulation model (Jones and Kiniry, 1986). This model is used operationally by the Midwest Climate Center to estimate soil moisture status under corn crops in the midwestern U.S. (Kunkel, 1990). Although well suited for use in the Midwest, where corn is a widely grown agricultural crop, such a crop-specific model is not a good choice the Northeast due to the wide variety of land uses.

Because of this need for a more general ET model, the British MORECS has been modified and validated for use in the northeastern United States. Presently, historical and real-time estimates of potential ET from grass, evaporation from bare soil and standard evaporation pans, as well as actual ET from grass- and deciduous tree-covered surfaces are available for the region. In addition, soil moisture deficits can be calculated under grass, bare soil and deciduous trees. ET and soil moisture estimates can also be obtained for a variety of other crops, however the unavailability of reliable verification data for other surface covers has precluded validation of the model for other surface cover types.

MODEL DESCRIPTION

a. Evaporation

Calculation of ET values using Equation 6 requires several supplementary physical and empirical relationships with which to compute values for terms that are not routinely measured. Because solar radiation measurements are not widely available in the Northeast, daily estimates of downward shortwave solar radiation are calculated based on hourly cloudiness, dew point and station pressure observations using the methods described in DeGaetano et al., 1993. Net radiation is obtained by decreasing the short wave radiation estimate according to the surface albedo, and summing this estimate and the net long wave radiation given by Linacre (1968) as:

$$R_{LN} = \varepsilon\sigma T^4 [1.35(e_s/T)^{0.143} - 1] (0.6) \quad (7)$$

where R_{LN} = net long wave radiation (Wm^{-2})
ε = emissivity (0.95)
σ = Stefan's constant (5.67×10^{-8} Wm^{-2} $°K^{-4}$)
e_s = saturation vapor pressure (mb)
T = shelter temperature (°K).

The constant 0.6 accounts for cloudiness assuming a constant cloud cover of five tenths.

During daylight hours, G is defined as the flux density of heat into the soil and is calculated as:

$$G_d = (0.3 - 0.03L)R_{Nd} \quad (8)$$

where L is the leaf area index and R_{Nd} is daytime net radiation. For grass, L varies from 2.0 during winter (December-February) to 5.0 in summer (July-September). However, L is assumed to equal 3.33 when calculating G_d. The leaf area index used to calculate G_d for deciduous trees varies linearly from 0.1 during dormancy to 6.0 at full leaf. A similar linear decrease in leaf area index is assumed during senescence. For bare soil, L = 0.0. At night, an estimate of G is given by:

$$G_n = (D(G_d) - P)/(24 - D) \quad (9)$$

where D is the number of daylight hours and P is the average daily heat storage in soil (Whr m^{-2}). Monthly values of P were empirically determined by Wales-Smith and Arnott (1980) and are given in Thompson et al. (1981). It is assumed that the British heat storage values are suitable for use in the northeastern U.S. When estimating pan evaporation, G is set equal to 0.0.

Using the logarithmic wind profile and assuming neutral stability, r_a is given as:

$$r_a = (6.25/u)\ \ln(10.0/z_o)\ \ln(6.0/z_o) \quad (10)$$

where u is the wind speed (ms^{-1}) at a height of 10 m above the ground and z_o is the roughness length (m). Fixed roughness lengths of 1.5×10^{-2}, 5.0×10^{-3} and 5.0×10^{-4} m are assigned to grass, bare soil and water, respectively. For deciduous trees, roughness length varies linearly between 0.2 m at leaf emergence to 1.0 m for full leaf. During autumn, roughness length is linearly decreased from the full leaf value to a defoliated value of 1.5×10^{-2} m. Similarly, roughness length is linearly increased during the period of bud break in spring.

In MORECS, water may be extracted from both the soil and the crop. Thus, the surface resistance term incorporates resistances due to both the crop and soil. Daytime values of crop resistance are prescribed for each surface type. These values reflect a crop that is freely supplied with water and thus represent a minimum resistance associated with each crop type. For deciduous trees, the minimum resistance is set equal to 80 sm^{-1}, while for grass this value varies from 50 during winter to 40 sm^{-1} in the summer months. Despite the lack of crop cover, a relatively high crop resistance value of 600 sm^{-1} is used for evaporation from bare soil to ensure that transpiration is negligible.

MORECS assumes two soil moisture reservoirs. Water in the top reservoir (x) is freely available for ET, while water in the second reservoir (y) becomes increasingly more difficult to extract as soil moisture decreases. The contents of each reservoir can be subdivided into water available for evaporation (x_{SOIL} or y_{SOIL}) and water available for transpiration (x_{CROP} or y_{CROP}). In the case of bare soil, water can only be evaporated from x_{SOIL} or y_{SOIL}. Provided water exists in x, the crop resistance remains at the minimum value. Soil resistance, is set to 100 sm^{-1} until x_{SOIL} has been depleted. After this point, soil resistance increases according to the formula:

$$r_{SOIL} = 100Cx_{max}/(x_{SOIL} + x_{CROP} + 0.01Cx_{max}) \quad (11)$$

where r_{SOIL} is the soil resistance, x_{SOIL} and x_{CROP} are the amount of water contained in each reservoir, and Cx_{max} is the maximum amount of water that can be held in x_{CROP}. For potential evapotranspiration, r_{SOIL} remains at 100 sm^{-1} and crop resistance is set at the minimum value for grass.

Once the water in the x reservoir has been exhausted, r_{SOIL} is set to 10^4 sm^{-1} and the crop resistance (r_{CROP}) is increased proportionally to the water deficit of the y reservoir using the formula:

$$r_{CROP} = (r_{CROP})_{min}((2.5y_{max}/(y_{SOIL} + y_{CROP}))-1.5) \quad (12)$$

where y_{SOIL} and y_{CROP} are the amount of water contained in each reservoir, y_{max} is the maximum amount of water that can be held in the y reservoir and $(r_{CROP})_{min}$ is the minimum crop resistance value.

Daytime surface resistance, r_s, is related to r_{CROP} and r_{SOIL} by the expression:

$$r_s = r_{CROP}\, r_{SOIL}/((r_{SOIL}(1-A))+(r_{CROP}\, A)) \quad (13)$$

where $A = 0.7^L$. At night, when stomata are closed, r_s is given by:

$$r_s = 2500(r_{SOIL})/(r_{SOIL}(L)+2500). \quad (14)$$

However, when the surface is bare soil and all water in x_{SOIL} has been depleted, regardless of the time of day, r_s is specified as:

$$r_s = 100(3.5(1-(y_{SOIL}/Sy_{max})) + \exp(0.2(Sy_{max}/(y_{SOIL} - 1)))) \quad (15)$$

where Sy_{max} is the maximum amount of water that can be held in y_{SOIL}. For an open water surface, r_s equals 0.0.

b. Precipitation

Each of the soil reservoirs can be replenished by rainfall and, theoretically, by dew deposition. In cases where the soil surface is covered by vegetation, a certain amount of rainfall is intercepted by the plant canopy and is thus unavailable to the soil. The proportion of rainfall that can be intercepted by grass, P, is:

$$P = (1.0 - 0.5^L). \quad (16)$$

The amount of interception, I, is simply the product of P and the daily rainfall. However, I can not exceed 20% of the leaf area index, L (i.e., $I \leq 0.2L$). Particularly during summer, several individual showers may contribute to the daily rainfall total. In such cases, the interception associated with the first shower may evaporate prior to any subsequent rainfall. Thus, Thompson et al. (1981) suggest the calculated value of I be multiplied by an adjustment factor during the months from March through November. These adjustment factors are given in Table 1. During all months, however, I is limited to the daily rainfall total.

Table 1. Adjustment factors to allow for evaporation of interception resulting from multiple daily rainfall events.

Month	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Factor	1.2	1.4	1.6	2.0	2.0	2.0	1.8	1.4	1.2

Interception by deciduous trees is treated differently. Helvey and Patric (1965) present a regression-based approach for estimating interception of rainfall in eastern

hardwood forests. During dormancy (trees are in a defoliated state), interception is given as:

$$I = 0.086R + 0.015 \quad (17)$$

Interception by trees in full leaf is calculated using:

$$I = 0.099R + 0.031 \quad (18)$$

where R is the daily rainfall and the date of full leaf is obtained using phenological data. During leaf emergence, I is linearly increased from its dormancy value. Conversely, during senescence, I is linearly decreased from its full leaf value.

When interception is present, evaporation of the intercepted moisture occurs prior to any evapotranspiration from the soil. After setting r_s to 0.0, the open water value, evaporation is calculated hourly until the foliage is completely dry (no interception). Subsequent hourly ET estimates are calculated using r_s given by Equations 13 and/or 14. If intercepted water still exists after 24 hours, the unevaporated interception is assumed to fall to the soil.

c. Dew Deposition

The formation of dew is assumed when nighttime evaporation is negative. In these instances, dew is treated as open water and nighttime evaporation is recalculated after setting r_s to zero. If this calculation again yields negative evaporation, the deposition of dew is assumed with the amount of dew equal to the absolute value of evaporation. Ensuing calculations treat dew deposition in the same manner as rainfall. If recalculation yields positive evaporation, nighttime evaporation is set to zero. In such cases it is assumed that only dew has evaporated.

d. Runoff

For surface types other than deciduous tress, runoff is assumed equal to zero unless both the x and y reservoirs are at capacity. In the case of trees, runoff is also assumed to occur if the daily rainfall exceeds 1.00 inch or regardless of the daily rainfall total, when x_{SOIL} is greater than zero. These criteria are based on the curve number method (USDA, 1972). Using a simplification of this method, the runoff from a tree covered surface is:

$$RO_{tree} = (R - 0.2D)^2/(R + 0.8D) \quad (19)$$

R is the daily rainfall (cm), and D is given by:

$$D = (x_{max} + y_{max}) - (x_{soil} + x_{crop} + y_{soil} + y_{crop}) \quad (20)$$

where x_{max} and y_{max} are the capacities of the x and y soil water reservoirs.

e. Water Budget Calculations

The maximum total amount of water available for ET from a specific crop (AW) is assumed to fill two soil moisture reservoirs. Water in the x reservoir, 40% of AW, is freely available for ET, while the remaining 60% of AW, which fills the y reservoir, becomes increasing difficult to transpire or evaporate as the contents of y decrease. The amount of water within each reservoir is further subdivided into water available

for evaporation from bare soil (x_{soil} or y_{soil}) and water available for ET from a crop covered surface (x_{crop} or y_{crop}). For soil with typical water holding capacity, AW is assigned a value of 20 mm for bare soil; 125 mm for grass and 175 mm for trees. Thus, regardless of crop type, x_{soil} and y_{soil} can not exceed 8 and 12 mm, respectively for a soil with average water holding capacity.

Through the process of ET, water is withdrawn from x_{soil} until this sub-reservoir is empty. Subsequent ET draws water from x_{crop} until the entire x reservoir is exhausted. At this point ET draws water from the y reservoir, depleting y_{soil} before tapping the reserve stored in y_{crop}. Soil moisture is replenished in a similar manner. Rainfall must fill the x_{soil} sub-reservoir to capacity before replenishing any moisture deficit in x_{crop}. Once the x reservoir is at capacity, additional rainfall fills y_{soil} and finally y_{crop}. This sequence of ET and recharge qualitatively represents the decreasing availability of soil moisture for evaporation and/or transpiration. Such an assumption simplifies the process of specifying crop and soil resistances as soil moisture becomes increasingly depleted or recharged.

f. Modifications for winter conditions

Because MORECS was developed for a climate in which snowfall is uncommon, several modifications were required to adapt the model for use in the northeastern U.S. where snowfall is possible throughout the cold half of the year. These modifications are designed to assure that soil moisture conditions are correctly initialized at the start of the growing season. Precipitation is assumed to fall in liquid form throughout the year. Therefore, the liquid water contained in snowfall is assumed to immediately replenish the soil moisture reservoirs. Although these assumptions allow soil moisture conditions to be tracked through the winter, individual daily soil moisture values are overestimated when snow cover is present or the soil is frozen.

Two additional modifications are also incorporated when snow cover exists and/or the air temperature falls below 30° F. The surface resistance is set to 0.0 on days with snow cover, because the presence of snow implies that any evaporation will occur from an open, although frozen, water surface. At temperatures below 30° F, the value of λ, used in Eq. 6, is assigned the latent heat of sublimation (2.799×10^6 Jkg^{-1}).

VALIDATION

To assess the accuracy of the ET and soil moisture values estimated by the model, output values were compared with observations at several sites in the northeastern United States. Unfortunately, sets of high-quality soil moisture observations are extremely scarce, so much of the validation analysis is based on pan evaporation measurements. Daily pan evaporation observations were obtained from 4 sites in the region and compared with the corresponding model estimates of open water evaporation. Mean errors (ME), (model - observed), mean absolute errors (MAE) and root mean square errors (RMSE) were computed at each site. These results appear in Table 2.

The results in Table 2 indicate close agreement between the observed and modeled evaporation values. The model appears to be unbiased as indicated by the overall

Table 2. Mean error (ME), mean absolute error (MAE) and root mean square error (RMSE) associated with modeled pan evaporation at the indicated sites. Errors have units of inches. The daily average observed pan evaporation (PAN), period of record (Years) and number of daily observations (OBS) are also given.

Station	ME	MAE	RMSE	PAN	Years	OBS
Beltsville, MD	0.00	0.04	0.06	0.19	1985 - 1990	1043
Emmaus, PA	0.01	0.05	0.07	0.17	1985 - 1991	1278
Ithaca, NY	0.00	0.03	0.05	0.15	1984 - 1990	1277
New Brunswick, NJ	0.01	0.04	0.05	0.17	1985 - 1990	1003
All Stations	0.00	0.04	0.06	0.17		4601

mean error value of zero. Little bias is apparent at the individual stations as well. On average, individual evaporation estimates deviate from the observed value by approximately ±0.04 inches. This value is remarkably consistent among the four stations, as are the RMSE values. Errors were also calculated for monthly periods and for days with and without precipitation reported. Generally, these results were similar to those given in Table 2.

Model-derived soil moisture estimates under grass and bare soil were verified using weekly data collected at Rock Springs, PA (McKee, 1983). Figure 1 compares actual and model-derived soil moisture under grass during 1977. This growing season was generally characterized by a dry spring and moist early summer. Dry weather during the late summer and early autumn was followed by wet late-autumn conditions. Despite these frequent and rather abrupt changes in soil moisture conditions, the modeled values follow the observed values quite closely. The largest deviations between the two curves occur in mid-August and mid-September. During these periods, observed soil moisture exceeds the modeled value. Because coincident meteorological and soil moisture observations were unavailable, these deviations most likely result from differences in the amount of precipitation received at Rock Springs and the rain gauge site at State College, PA which is located approximately 10 miles to the northeast. Prior to 8 August, errors (model - observed) averaged -0.06

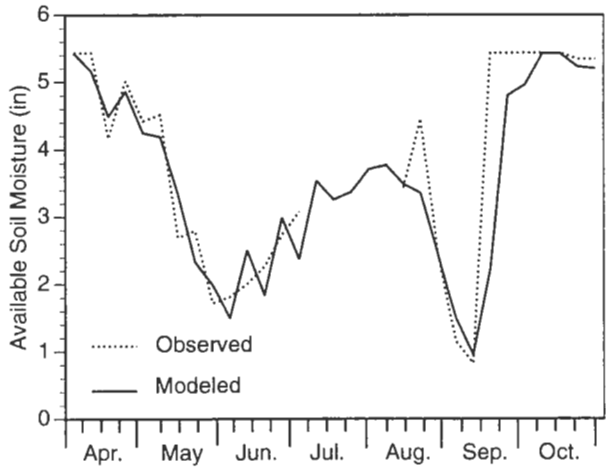

Figure 1. Comparison of modeled and observed soil moisture under grass during 1977 at Rock Springs, PA.

inches, while the mean absolute error and root mean square error were 0.34 and 0.40 inches, respectively. Over this period actual soil moisture averaged 3.40 inches. Similar agreement between observed and model-derived soil moisture values was achieved during other growing seasons and for bare soil.

Soil moisture observations taken within a deciduous forest were available from the Hubbard Brook Experimental Forest in New Hampshire. Figure 2a compares actual and model-derived soil moisture at this site during 1971. During this growing season, dry weather during the spring and early summer was followed by generally wet conditions during late-summer and autumn. As was the case for grass, the modeled values follow the observed values quite closely. However, particularly from July onward, a tendency for the model to overestimate soil moisture is apparent. This bias most likely results from runoff characteristics which are specific to the Hubbard Brook site. For instance, sharp increases in estimated soil moisture follow rainfalls of over

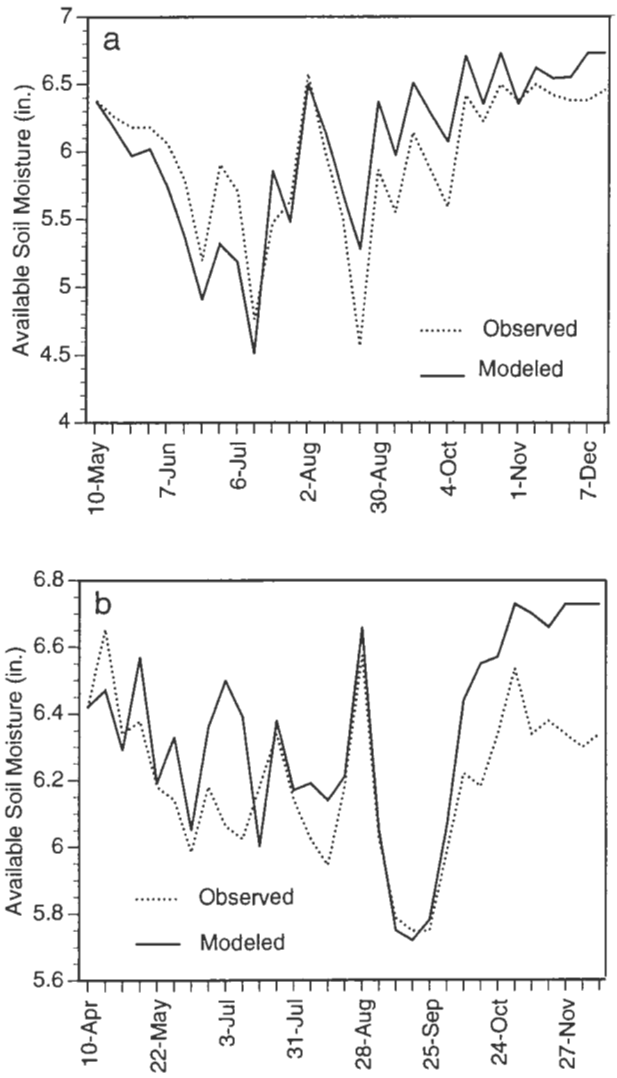

Figure 2. Comparison of modeled and observed soil moisture under a deciduous forest during (a) 1971 and (b) 1972. Growing season observations are at approximately seven day intervals.

1.8 inches on 27-28 August; 1.90 inches over the period from 12 to 14 September and 2.13 inches on October 9. Sharp increases in soil moisture are also associated with frequent rainfall events during 1972, particularly in autumn and the late spring and early summer (Fig. 2b). During 1971, mean errors averaged -0.07 inches, while the mean absolute and root mean square errors were 0.28 and 0.33 inches, respectively.

SUMMARY

Evapotranspiration and soil moisture measurements in the northeastern United States are relatively few in number and have limited periods of record. Since this semi-physical model requires only standard hourly surface observations and daily precipitation as inputs, current ET and soil moisture estimates can be generated at several dozen hourly observing sites within the region. Historical ET and soil moisture estimates dating back to 1948 can also be computed at approximately 30 sites in the Northeast. This data base of estimated ET and soil moisture values will provide essential data for applications ranging from drought and flood monitoring to the scheduling of urban lawn watering.

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CORNELL
UNIVERSITY
Department of Soil, Crop and Atmospheric Sciences
Ithaca, New York 14853

Produced by
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APPENDIX B

Preliminary Water Budget Calculations
(Q_{in} vs. Q_{out})

PRELIMINARY WATER BALANCE CALCULATIONS

RECHARGE CALCULATION (Qin)

Total Area of Active Model Grid:	150,413,697.20	square feet
Rechage from Precipitation:	0.001622	feet/year
Qin =	243,971.02	cu. feet/day

FLOW OUT OF AQUIFER INTO SENECA LAKE (Qout)

Qout for Layer 1:

Flow through west-facing cells:

Total N-S Length:	6,945.20	feet
Saturated Thickness:	6	feet
Area =	41,671.20	square feet

Flow through south-facing cells:

Total N-S Length:	2,278.08	feet
Saturated Thickness:	6	feet
Area =	13,668.48	square feet
Total area for Layer 1 =	55,339.68	square feet

Qout Layer 1

	K	A	I
	feet/day	square feet	
Qout =	1.03	55,339.68	0.02

Qout = 1,140.00 cu. feet/day

Qout for Layer 2:

Flow through west-facing cells:

Total N-S Length:	6,945.20	feet
Saturated Thickness:	20	feet
Area =	138,904.00	square feet

Flow through south-facing cells:

Total N-S Length:	2,278.08	feet
Saturated Thickness:	20	feet
Area =	45,561.60	square feet

Total area for Layer 1 = 184,465.60 square feet

Qout Layer 1

	K	A	I
	feet/day	square feet	
Qout =	0.2	184,465.60	0.03

Qout = 922.33 cu. feet/day

Qout for Layer 3:

Flow through west-facing cells:

Total N-S Length:	6,945.20	feet
Saturated Thickness:	20	feet
Area =	138,904.00	square feet

Flow through south-facing cells:

Total N-S Length:	2,278.08	feet
Saturated Thickness:	20	feet
Area =	45,561.60	square feet

Total area for Layer 1 = 184,465.60 square feet

Qout Layer 1

	K	A	I
	feet/day	square feet	
Qout =	0.04	184,465.60	0.03

Qout = 184.47 cu. feet/day

Qout for Layer 4:

Flow through west-facing cells:

Total N-S Length:		6,945.20	feet
Saturated Thickness:		20	feet
	Area =	138,904.00	square feet

Flow through south-facing cells:

Total N-S Length:		2,278.08	feet
Saturated Thickness:		20	feet
	Area =	45,561.60	square feet

Total area for Layer 1 = 184,465.60 square feet

Qout Layer 1

	K	A	I
	feet/day	square feet	
Qout =	0.0023	184,465.60	0.03

Qout = 10.61 cu. feet/day

Total Qout Flow System

Qout Layer 1 =	1,140.00	cu feet/day
Qout Layer 2 =	922.33	cu feet/day
Qout Layer 3 =	184.47	cu feet/day
Qout Layer 4 =	10.61	cu feet/day
Total =	2,257.40	cu feet/day

APPENDIX C

MODFLOW Output File

```
1                    U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER MODEL
0THREE DIMENSIONAL GROUNDWATER FLOW SIMULATION AT THE ASH LANDFILL
     3 LAYERS        220 ROWS          82 COLUMNS
    1 STRESS PERIOD(S) IN SIMULATION
 MODEL TIME UNITS ARE UNDEFINED
01/O UNITS:
 ELEMENT OF IUNIT:  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
         I/O UNIT: 11  0  0  0  0  0  0 18  0  0  0 22 23  0  0  0  0  0  0  0  0 60  0  0
0BAS1 -- BASIC MODEL PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT  1
 ARRAYS RHS AND BUFF WILL SHARE MEMORY.
 START HEAD WILL NOT BE SAVED -- DRAWDOWN CANNOT BE CALCULATED
   469354 ELEMENTS IN X ARRAY ARE USED BY BAS
   469354 ELEMENTS OF X ARRAY USED OUT OF 9999999
0BCF2 -- BLOCK-CENTERED FLOW PACKAGE, VERSION 2, 7/1/91 INPUT READ FROM UNIT 11
 STEADY-STATE SIMULATION
 CELL-BY-CELL FLOWS WILL BE RECORDED ON UNIT 41
 HEAD AT CELLS THAT CONVERT TO DRY=  0.10000E+31
 WETTING CAPABILITY IS ACTIVE
 WETTING FACTOR=    0.50000      WETTING ITERATION INTERVAL=    1
 FLAG THAT SPECIFIES THE EQUATION TO USE FOR HEAD AT WETTED CELLS=    0
      LAYER  AQUIFER TYPE
      ------------------
         1          0
         2          0
         3          0
    36083 ELEMENTS IN X ARRAY ARE USED BY BCF
   505437 ELEMENTS OF X ARRAY USED OUT OF 9999999
0RCH1 -- RECHARGE PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT 18
 OPTION 3 -- RECHARGE TO HIGHEST ACTIVE NODE IN EACH VERTICAL COLUMN
 CELL-BY-CELL FLOW TERMS WILL BE RECORDED ON UNIT 41
    18040 ELEMENTS OF X ARRAY USED FOR RECHARGE
   523477 ELEMENTS OF X ARRAY USED OUT OF 9999999
0PCG2 -- CONJUGATE GRADIENT SOLUTION PACKAGE, VERSION 2, 5/1/88
 MAXIMUM OF  25 CALLS OF SOLUTION ROUTINE
 MAXIMUM OF  20 INTERNAL ITERATIONS PER CALL TO SOLUTION ROUTINE
 MATRIX PRECONDITIONING TYPE :    1
  220480 ELEMENTS IN X ARRAY ARE USED BY PCG
  743957 ELEMENTS OF X ARRAY USED OUT OF9999999
1THREE DIMENSIONAL GROUNDWATER FLOW SIMULATION AT THE ASH LANDFILL
0

                                BOUNDARY ARRAY FOR LAYER  1 WILL BE READ ON UNIT 30 USING FORMAT: (82I9)
                                ------------------------------------------------------------------------

          1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25
         26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50
         51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71  72  73  74  75
         76  77  78  79  80  81  82
 ..........................................................................................................................
0  1     0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
         0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
         0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
         0   0   0   0   0   0   0
0  2     1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
         0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
         0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
         0   0   0   0   0   0   0
0  3     1   1   1   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
         0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
         0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
         0   0   0   0   0   0   0
0  4     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         0   0   0   0   0   0   0
0  5     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1
0  6     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
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         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1
0  7     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
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         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1
0  8     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
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         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1
0  9     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
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         1   1   1   1   1   1   1
0 10     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1
0 11     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1
0 12     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
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         1   1   1   1   1   1   1
0 13     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1
0 14     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
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         1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
         1   1   1   1   1   1   1
0 15     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
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         1   1   1   1   1   1   1
0 16     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
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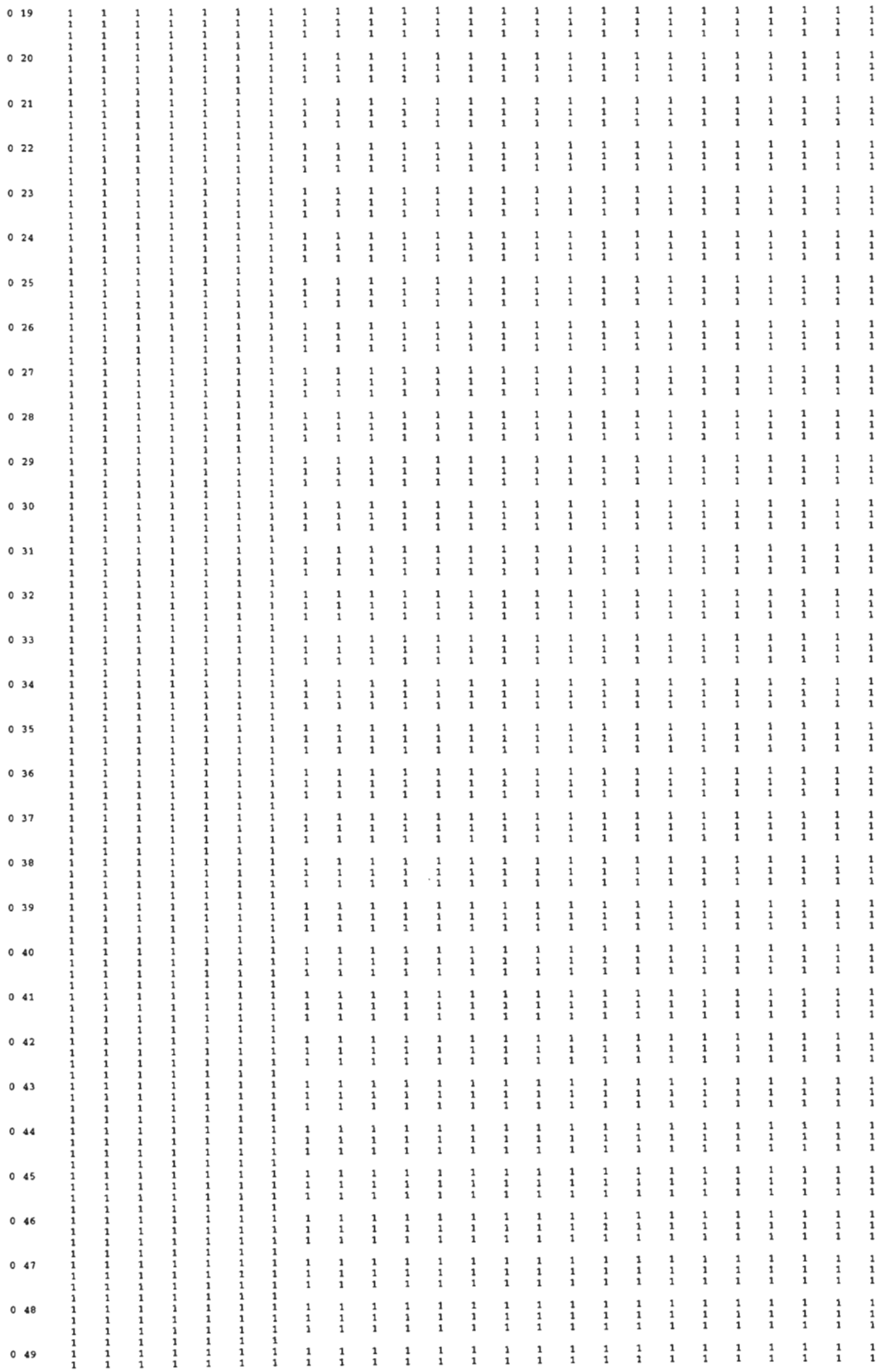

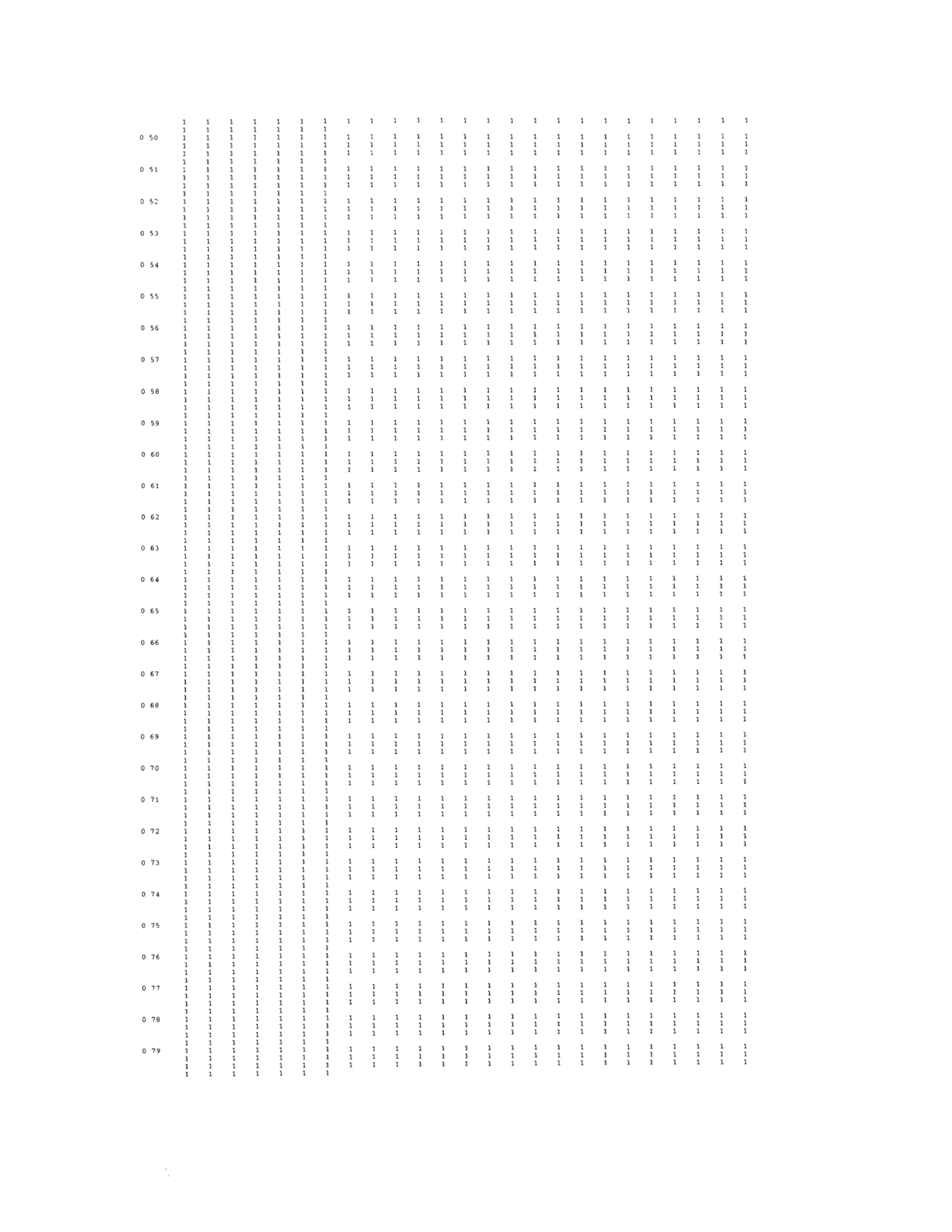

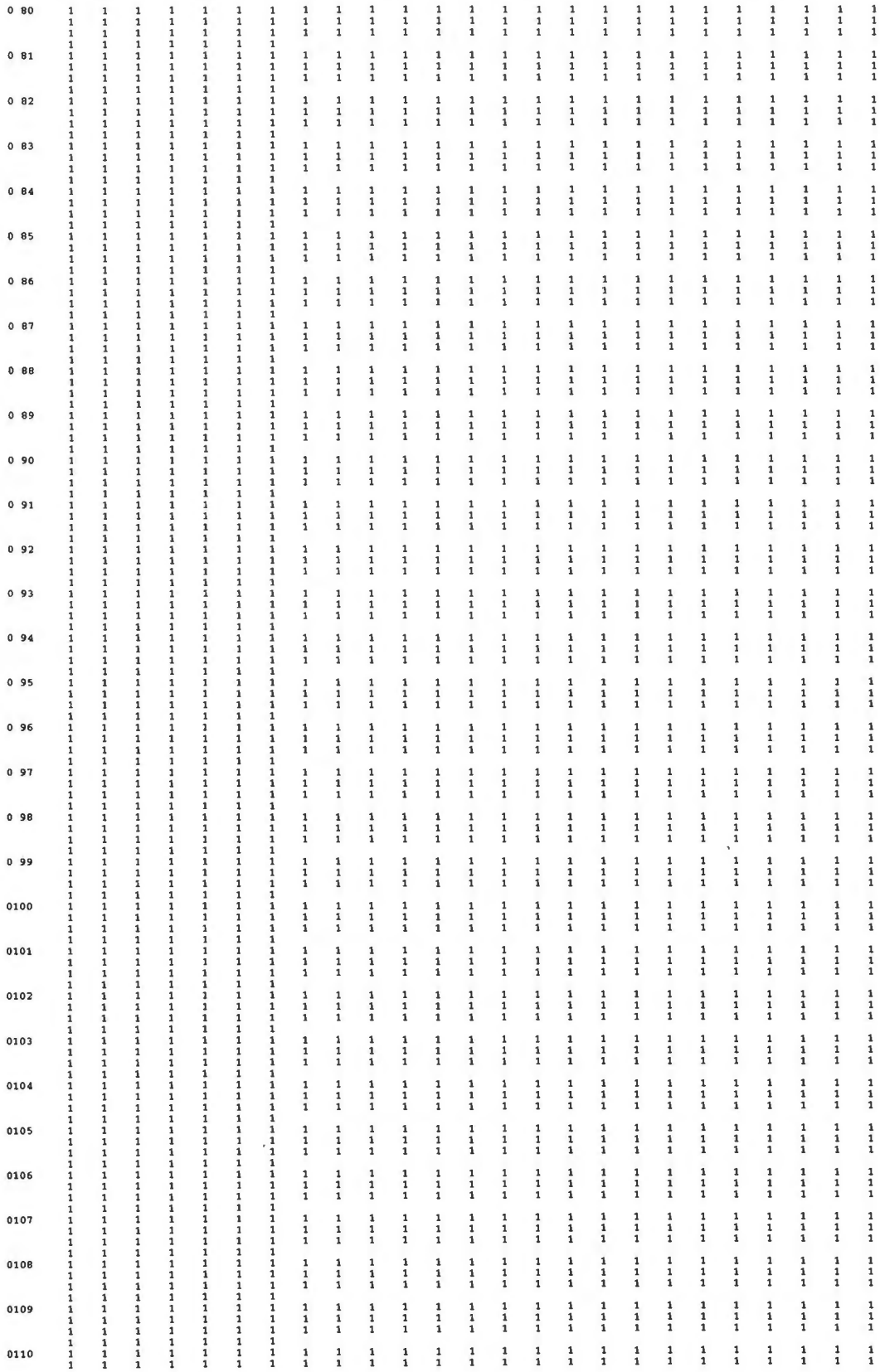

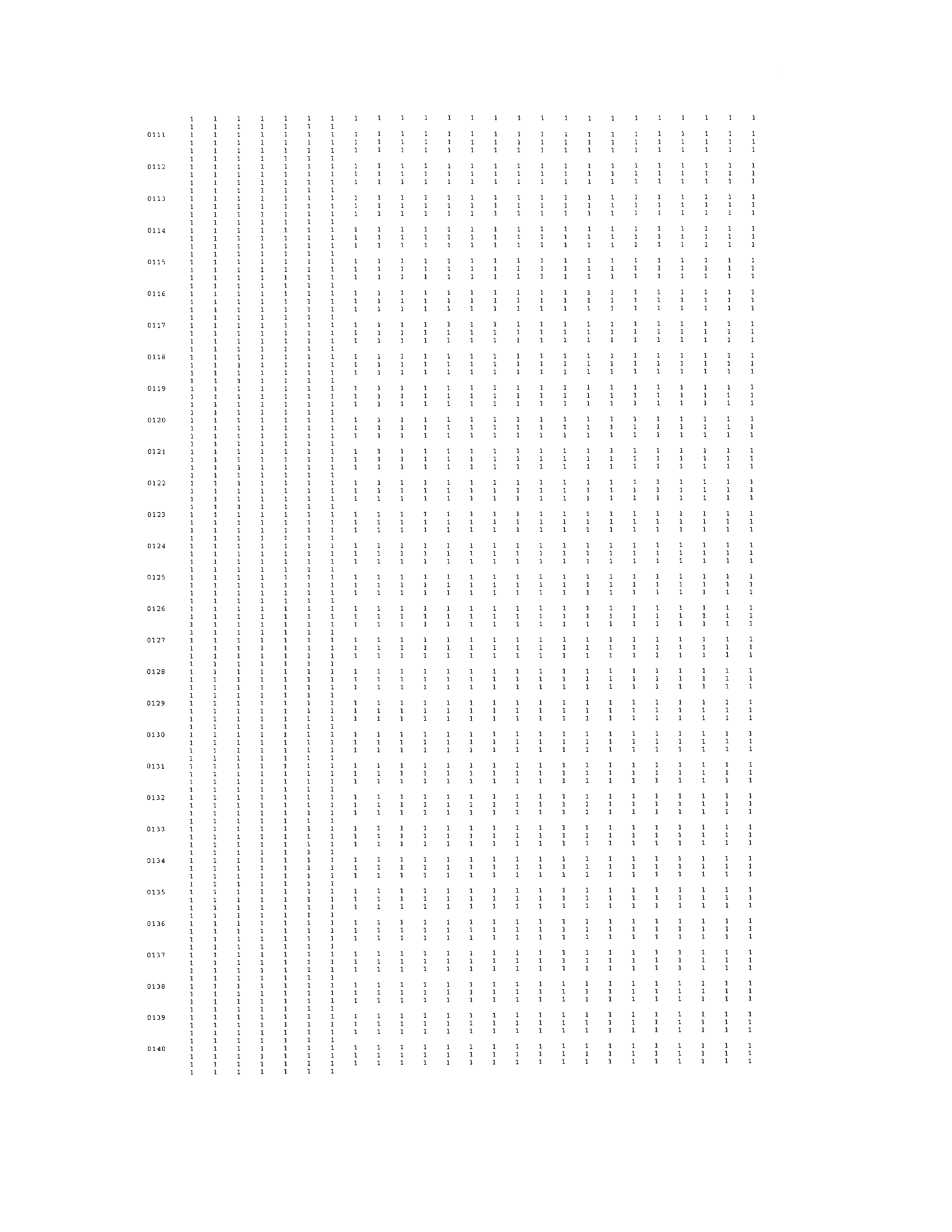

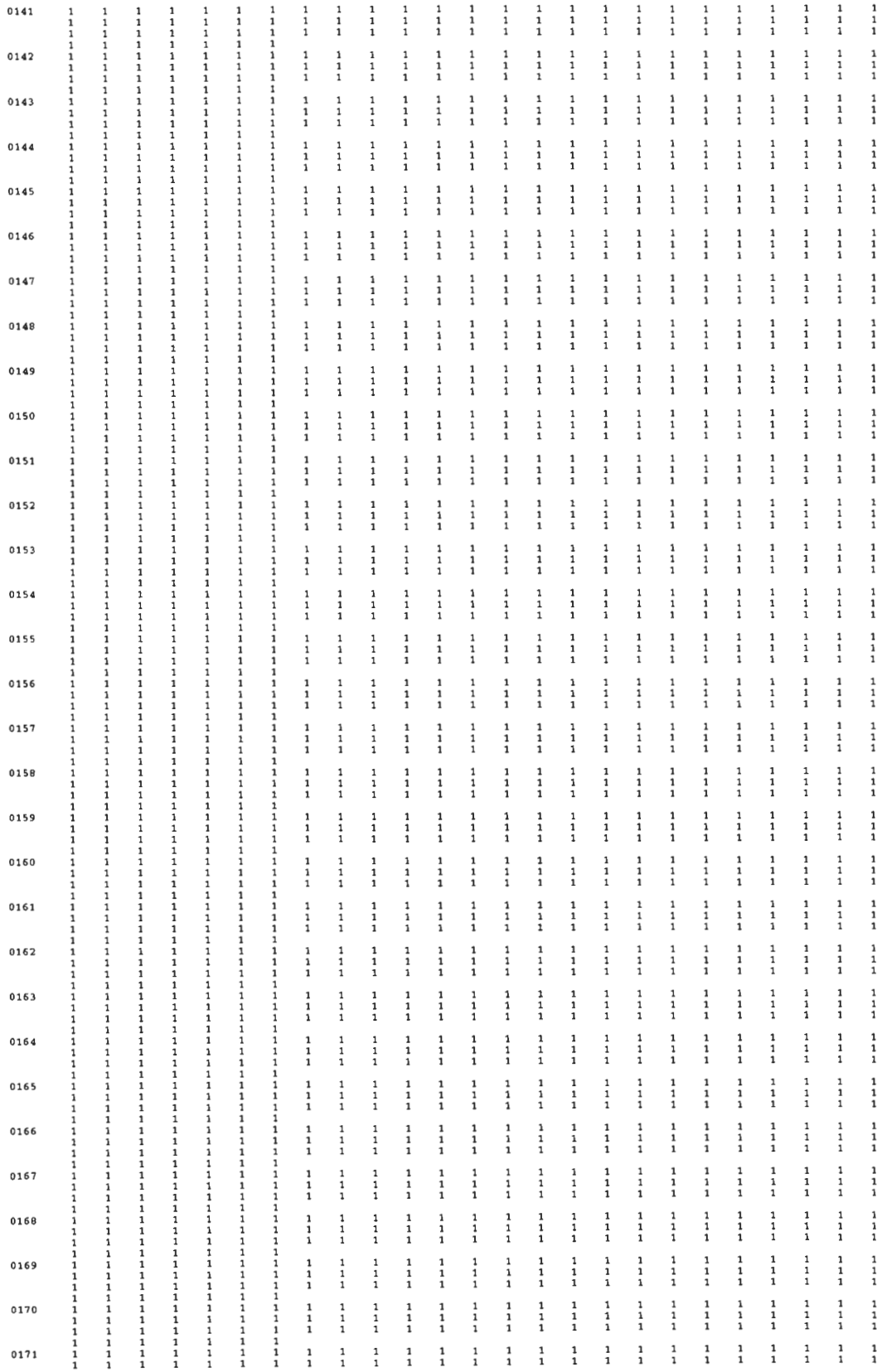

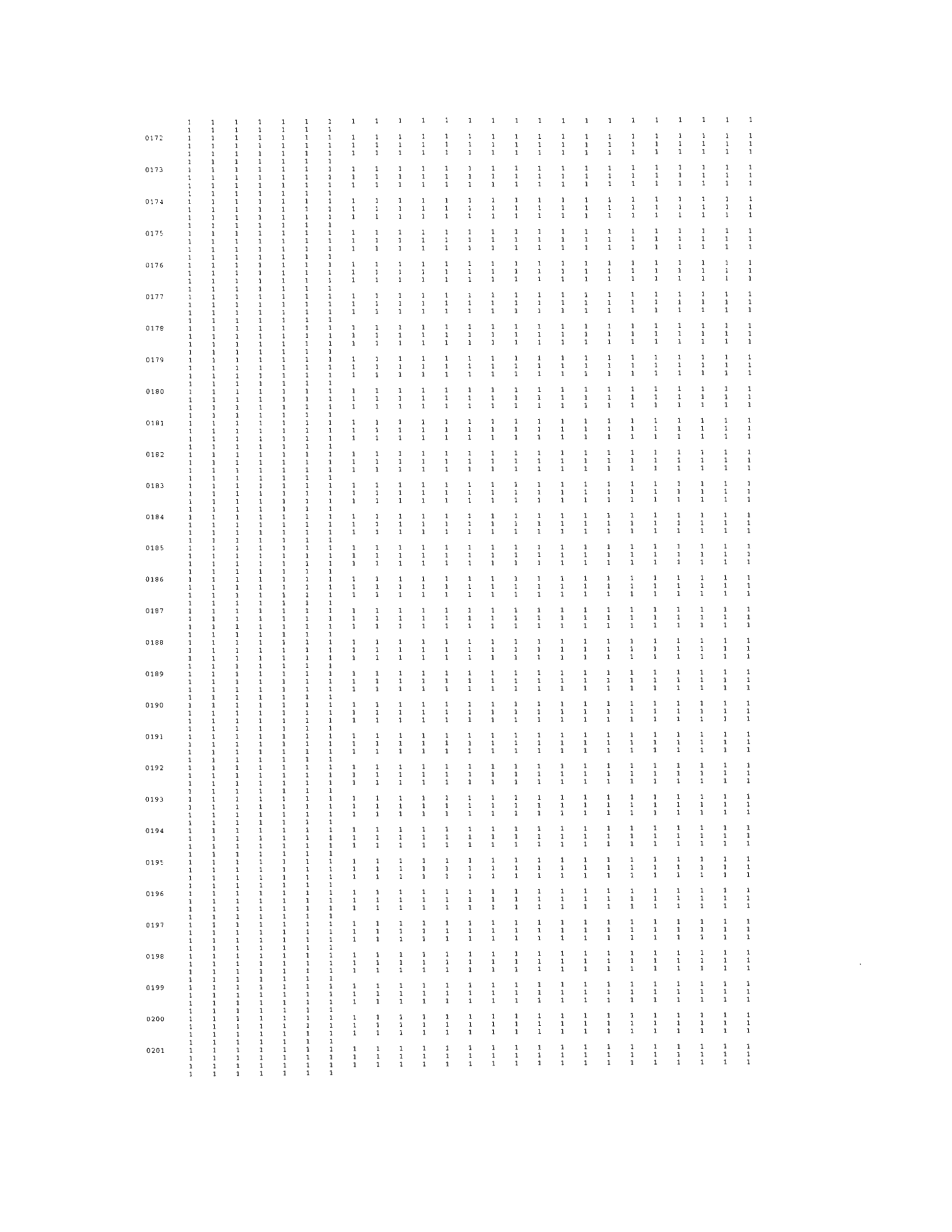

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0203   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
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       1   1   1   1   1   1   1

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       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1

0209   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1

0210   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1

0211   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1

0212   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1  -1  -1

0213   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1  -1  -1   0   0

0214   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
      -1  -1  -1   0   0   0   0

0215   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1  -1  -1  -1  -1  -1  -1  -1  -1  -1
       0   0   0   0   0   0   0

0216   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
       1   1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1
      -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0

0217   1   1   1   1   1   1   1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1  -1
      -1  -1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0

0218   1   1   1   1  -1  -1  -1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0

0219   1  -1  -1  -1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0

0220  -1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
       0   0   0   0   0   0   0

0
```

BOUNDARY ARRAY FOR LAYER 2 WILL BE READ ON UNIT 31 USING FORMAT: (8I2,I9)

```
         1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25
        26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50
        51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71  72  73  74  75
        76  77  78  79  80  81  82
-------------------------------------------------------------------------------------------------------------

0  1    0   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
        0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
        0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
        0   0   0   0   0   0   0

0  2    2   2   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
        0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
        0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
        0   0   0   0   0   0   0

0  3    2   2   2   2   2   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
        0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
        0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
        0   0   0   0   0   0   0

0  4    2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        0   0   0   0   0   0   0

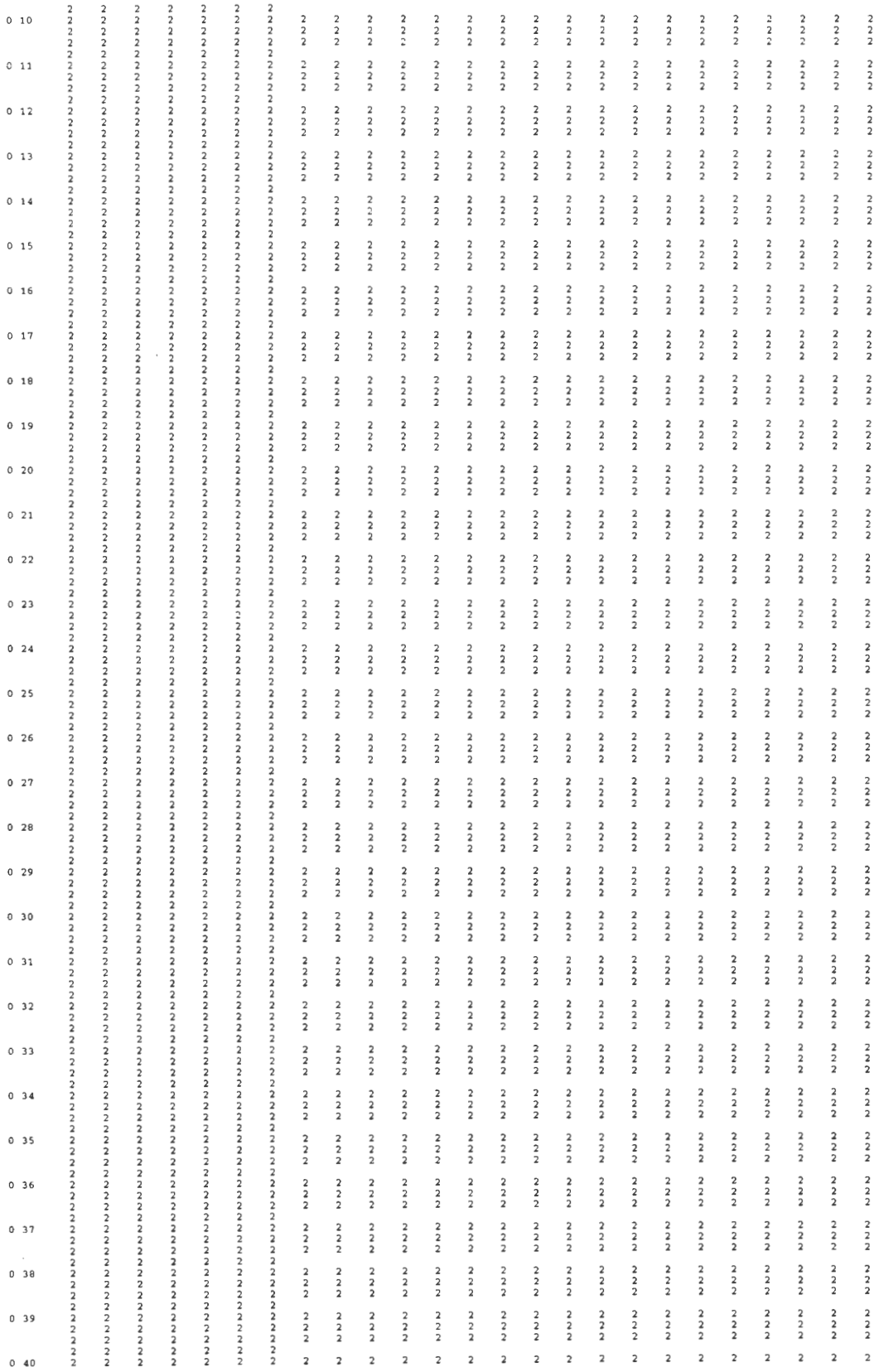
0  5    2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2

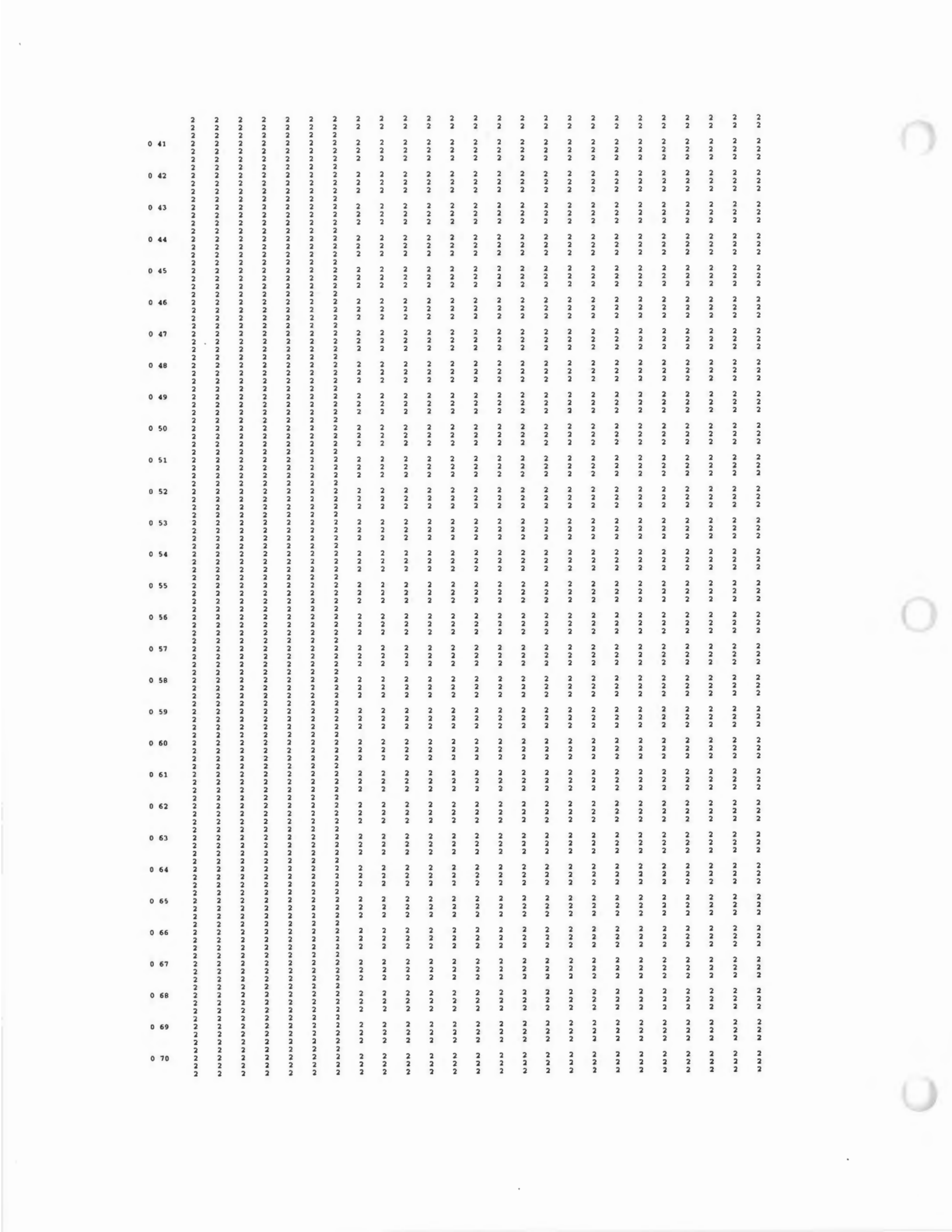
0  6    2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2

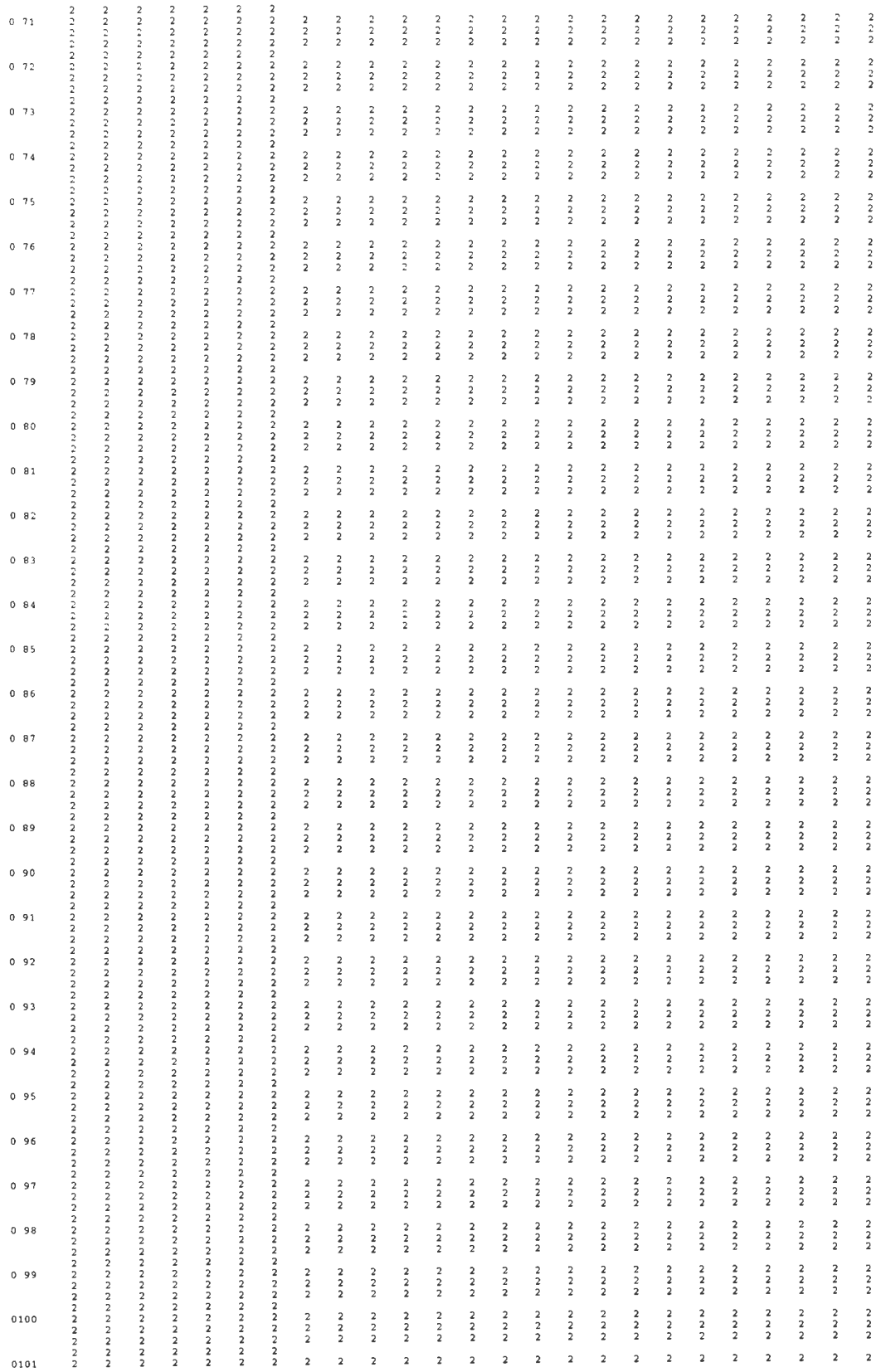
0  7    2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2

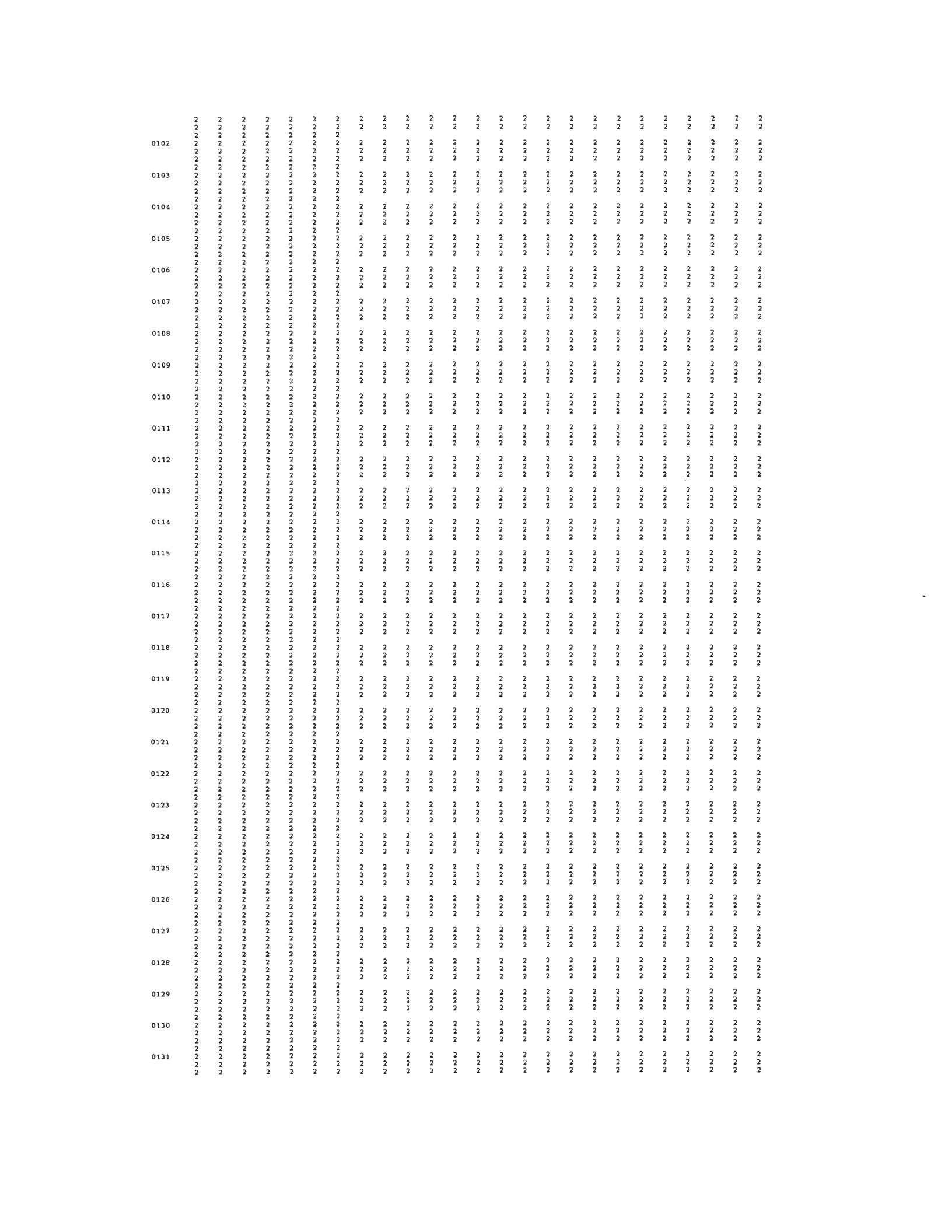
0  8    2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2

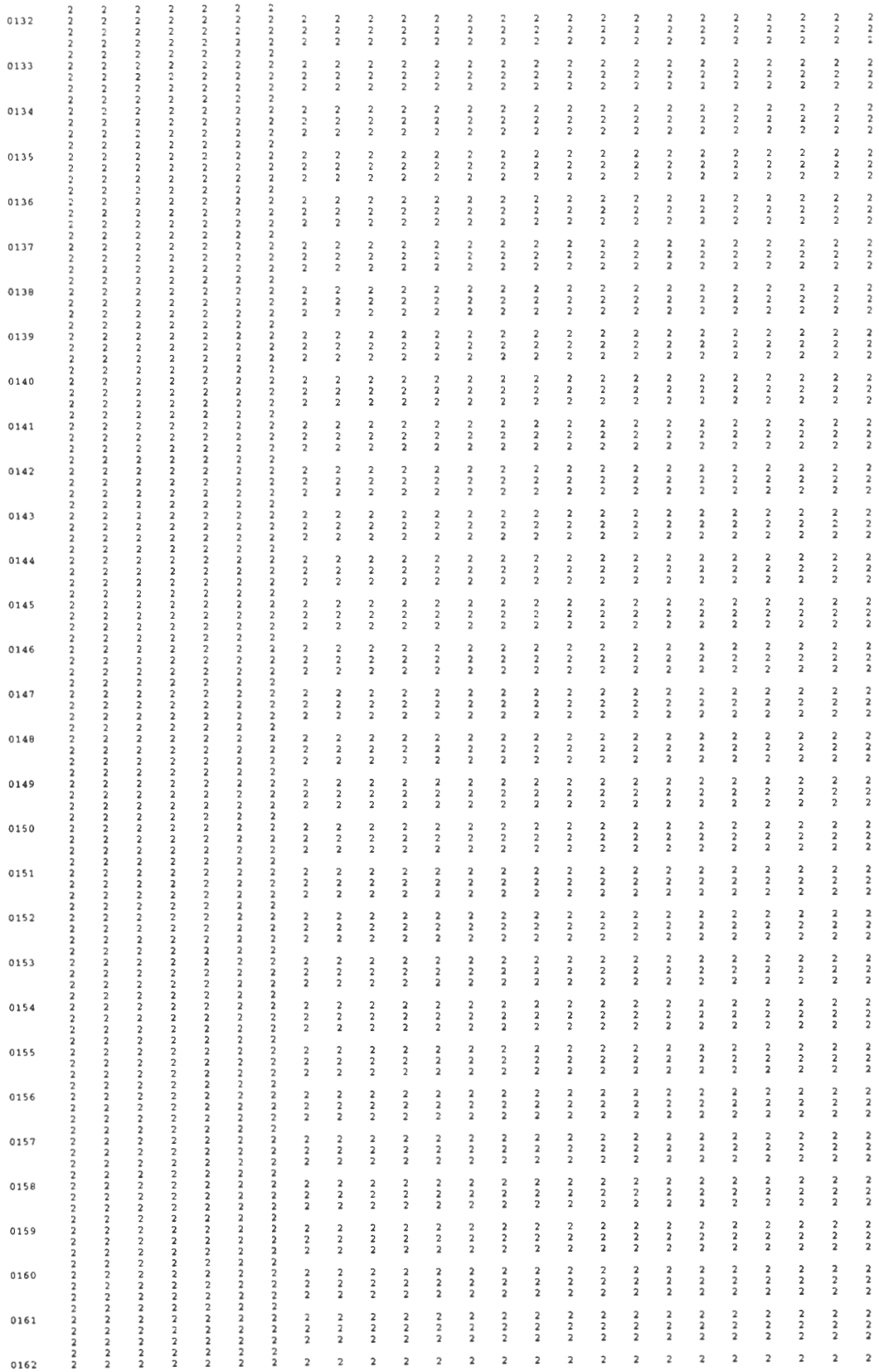
0  9    2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
        2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2
```

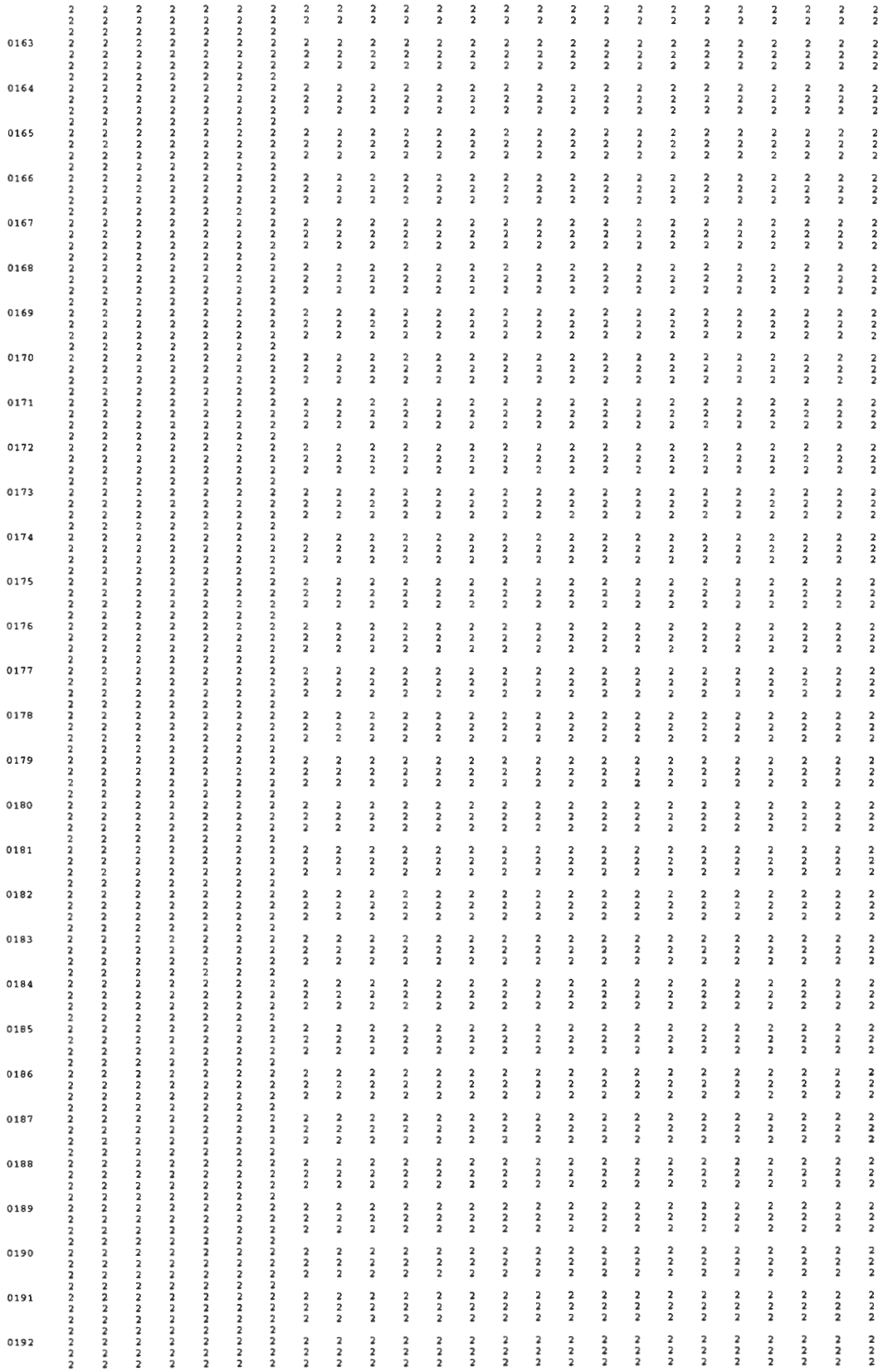












```
0193
0194
0195
0196
0197
0198
0199
0200
0201
0202
0203
0204
0205
0206
0207
0208
0209
0210
0211
0212
0213
0214
0215
0216
0217
0218
0219
0220
0
```

BOUNDARY ARRAY FOR LAYER 3 WILL BE READ ON UNIT 32 USING FORMAT: (8I2,I9)

```
 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
```

	76	77	78	79	80	81	82																				
0 1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0																				
0 2	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0																				
0 3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0																				
0 4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0																				
0 5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 10	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 11	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 12	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 13	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 14	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 15	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 16	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3																				
0 17	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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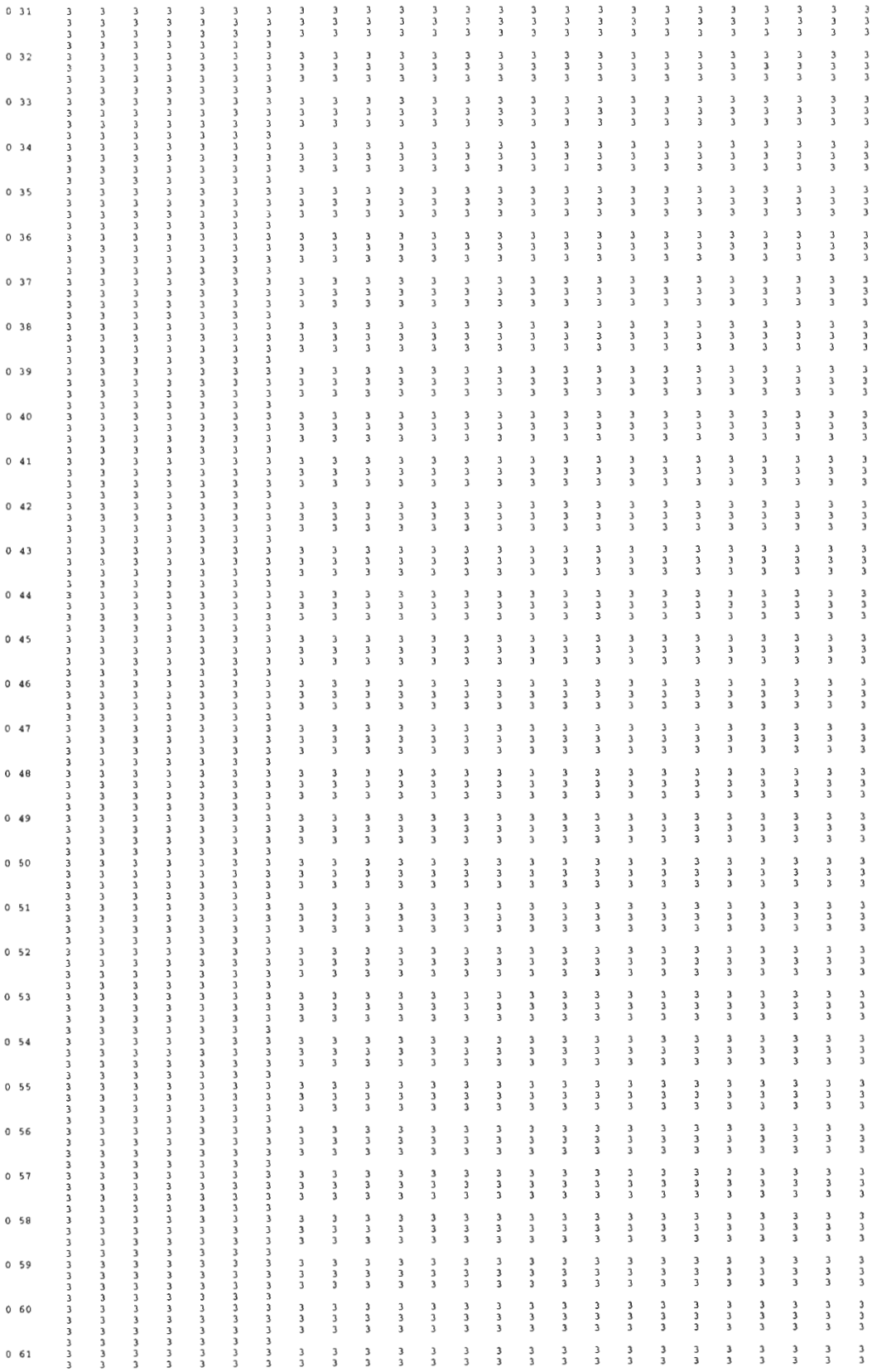

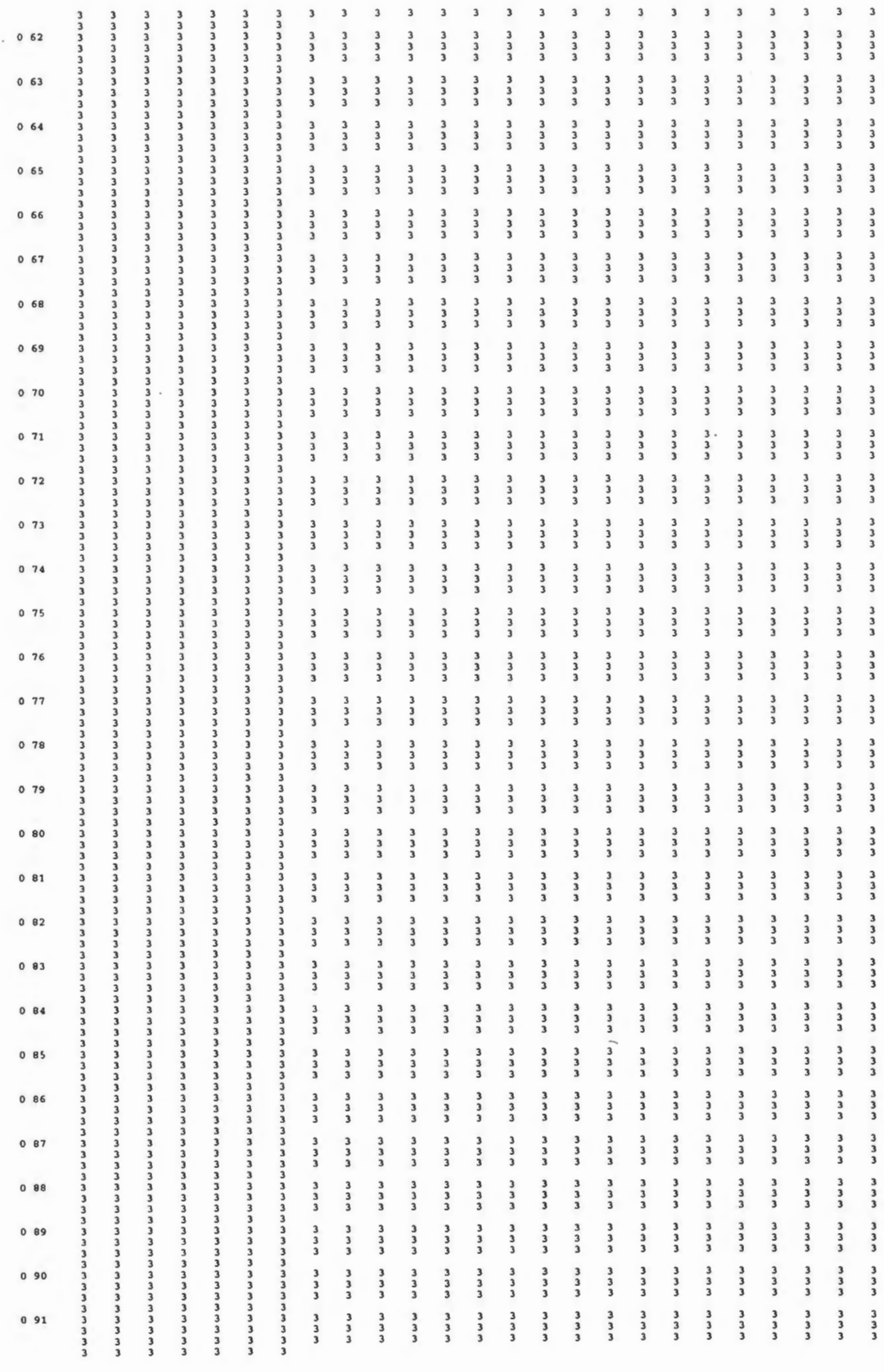

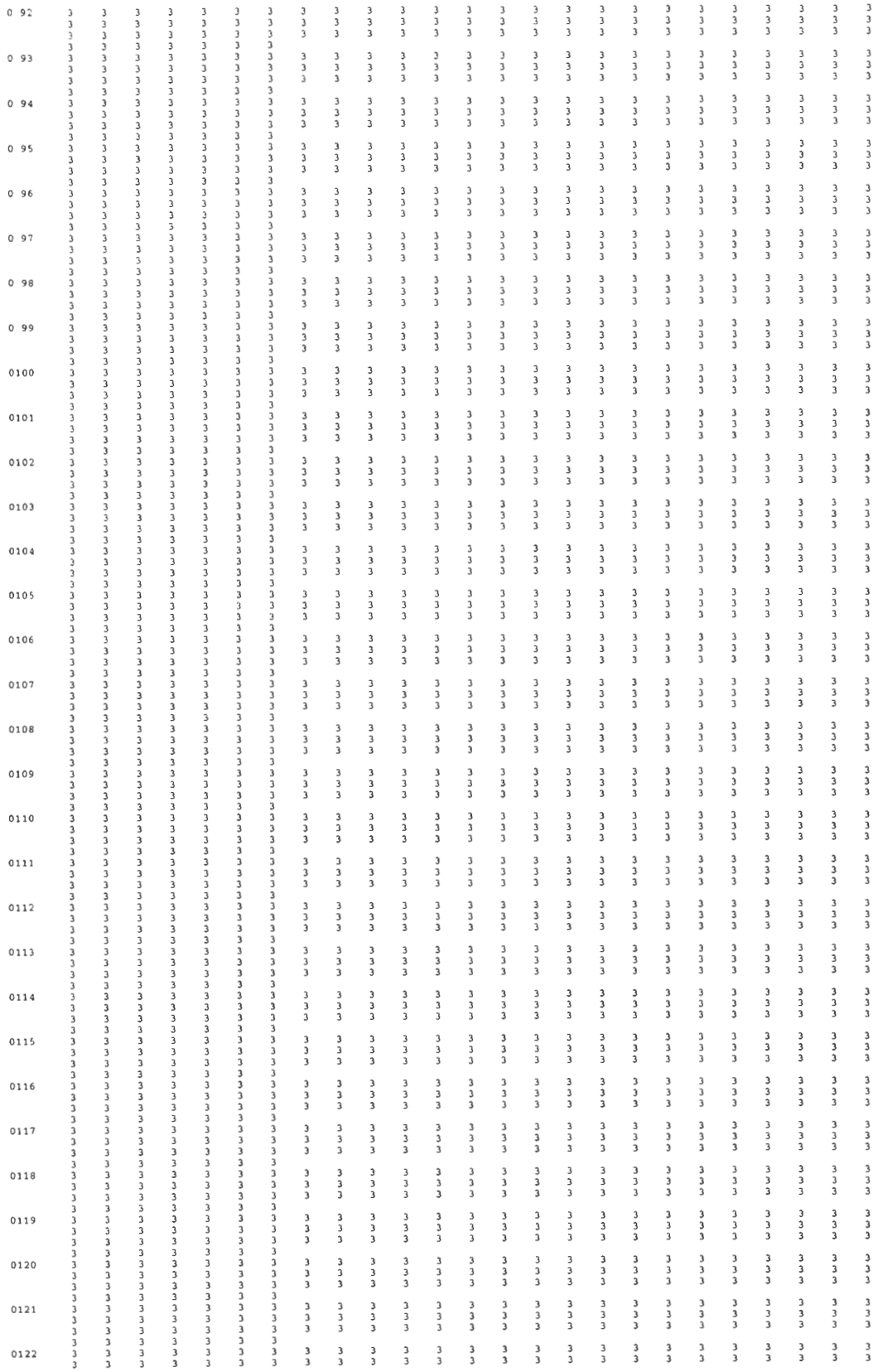

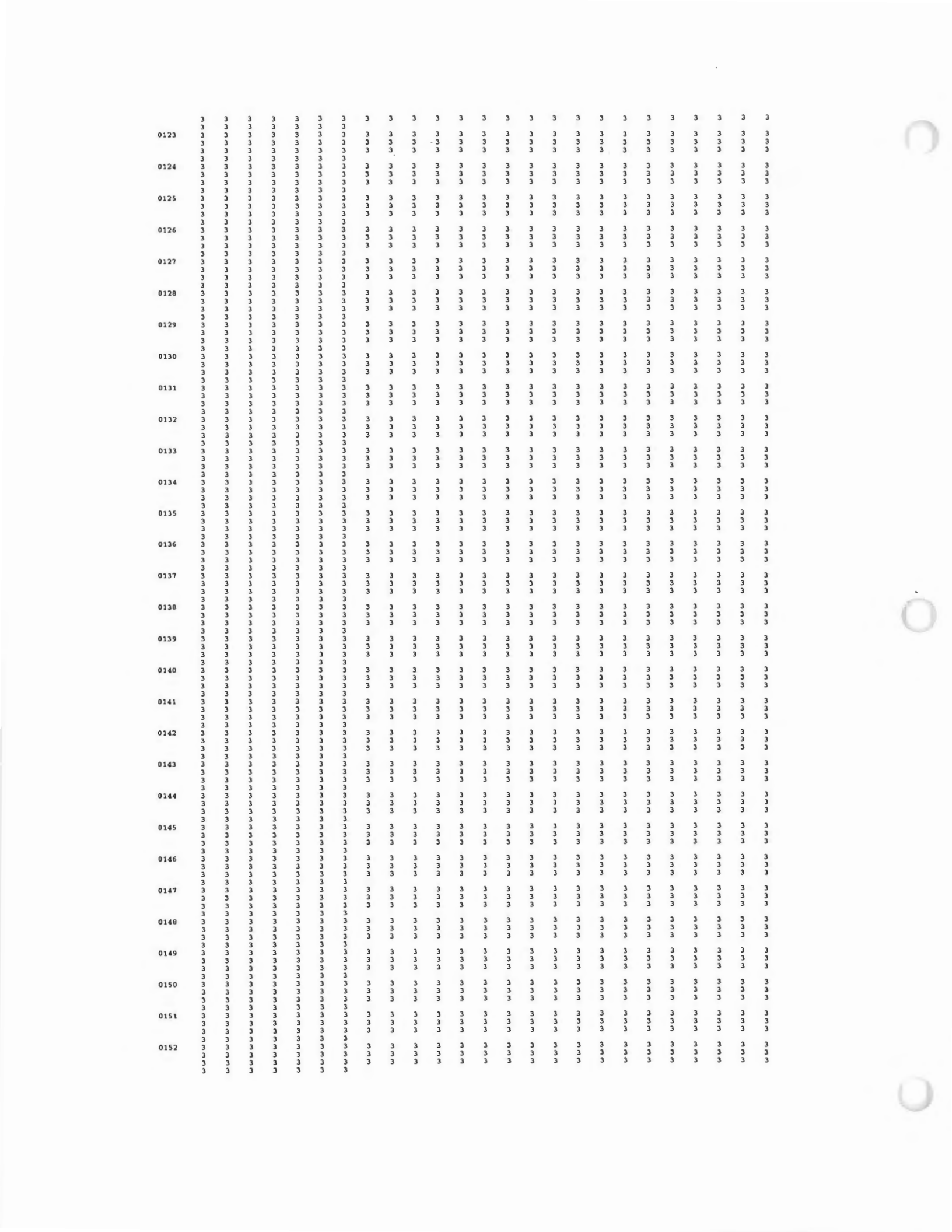

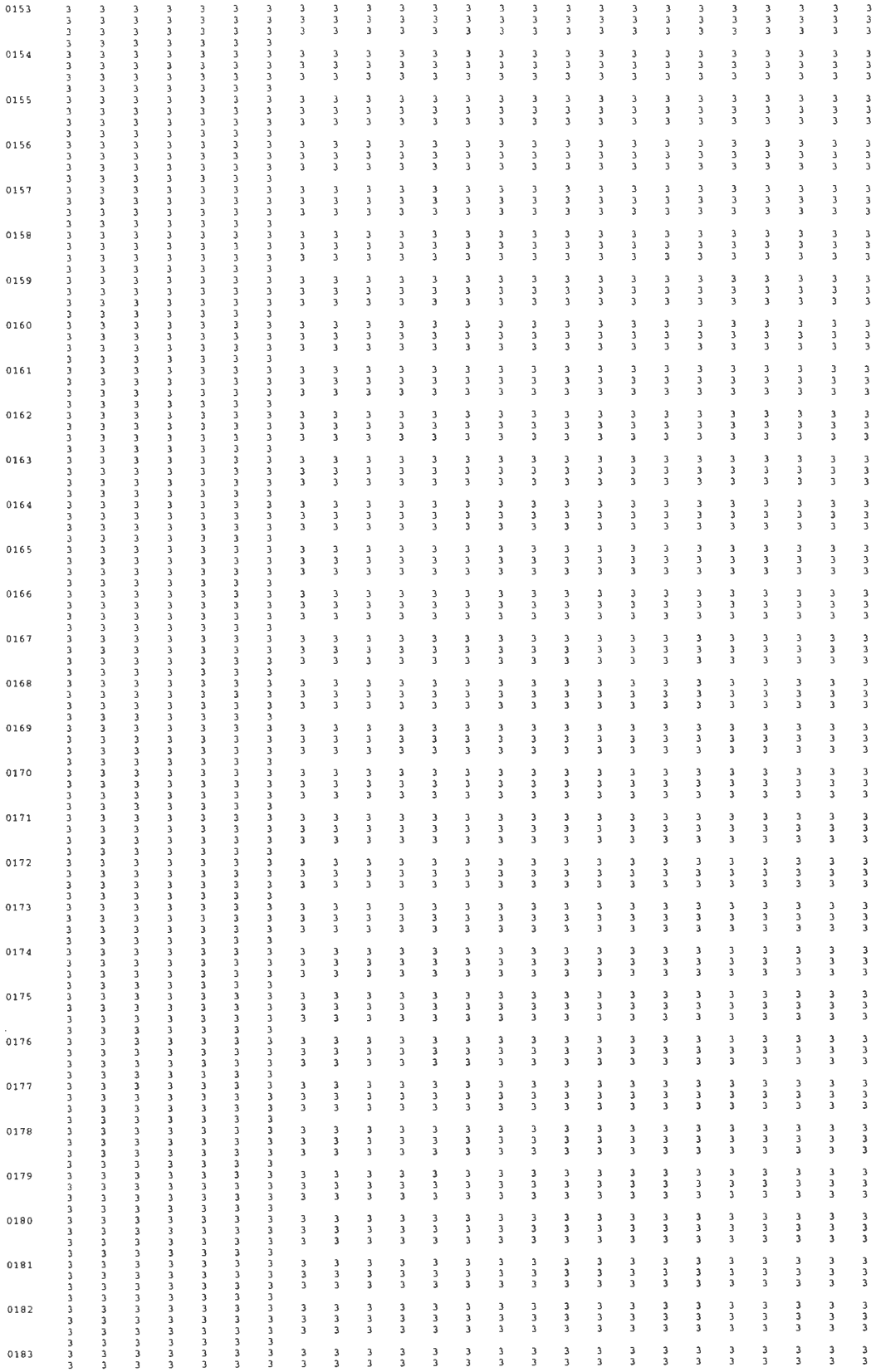

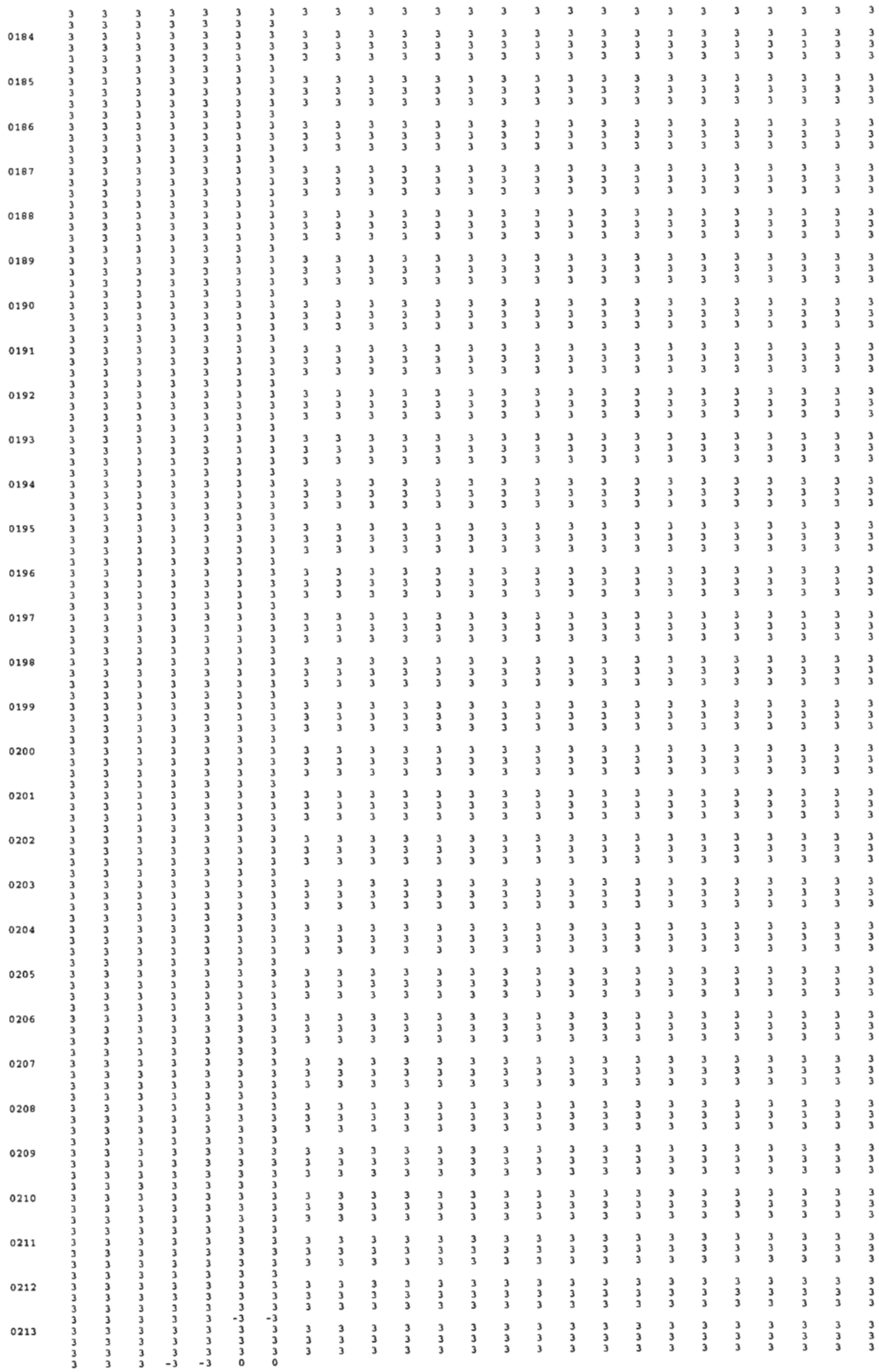

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         0     0     0     0     0     0     0
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         0     0     0     0     0     0     0
0AQUIFER HEAD WILL BE SET TO  999.99     AT ALL NO-FLOW NODES (IBOUND=0).
0
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INITIAL HEAD FOR LAYER 1 WILL BE READ ON UNIT 33 USING FORMAT: (82F9.0)

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	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
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	71	72	73	74	75	76	77	78	79	80
	81	82								

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	751.0	751.0								
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	751.0	751.0								
0 4	750.0	749.0	749.0	749.0	749.0	750.0	751.0	751.0	751.0	751.0
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	751.0	751.0								
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	747.0	747.0								
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	740.0	741.0	741.0	741.0	741.0	741.0	742.0	742.0	742.0	742.0
	742.0	742.0								
0 10	736.0	736.0	736.0	736.0	736.0	735.0	734.0	734.0	734.0	735.0
	736.0	736.0	736.0	736.0	737.0	738.0	739.0	737.0	737.0	737.0
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	738.0	738.0	738.0	738.0	739.0	739.0	740.0	740.0	740.0	740.0
	740.0	740.0								
0 11	734.0	734.0	733.0	733.0	733.0	733.0	732.0	732.0	732.0	732.0
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	736.0	736.0	736.0	736.0	736.0	737.0	738.0	738.0	738.0	738.0
	738.0	738.0								
0 12	731.0	731.0	731.0	731.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	731.0	731.0	731.0	731.0	731.0	731.0	732.0	732.0
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	734.0	734.0	734.0	734.0	734.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0								
0 13	729.0	729.0	729.0	728.0	728.0	728.0	727.0	727.0	727.0	727.0
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	731.0	731.0	731.0	731.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0								
0 14	726.0	726.0	726.0	726.0	726.0	725.0	725.0	725.0	725.0	725.0
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	727.0	727.0								
0 15	724.0	724.0	724.0	724.0	723.0	723.0	722.0	722.0	722.0	722.0
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	726.0	726.0	726.0	726.0	726.0	726.0	726.0	725.0	724.0	723.0
	722.0	722.0								
0 16	722.0	722.0	722.0	721.0	721.0	720.0	719.0	719.0	719.0	719.0
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0 17	720.0	720.0	720.0	719.0	718.0	718.0	716.0	716.0	716.0	716.0
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	721.0	722.0	722.0	722.0	721.0	721.0	720.0	718.0	716.0	716.0
	716.0	716.0								
0 18	719.0	718.0	718.0	717.0	716.0	716.0	715.0	715.0	714.0	714.0
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	715.0	715.0								
0 19	717.0	717.0	716.0	716.0	715.0	714.0	713.0	713.0	713.0	713.0
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0 20	716.0	716.0	714.0	714.0	713.0	712.0	712.0	711.0	711.0	711.0
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	712.0	712.0								
0 21	713.0	713.0	712.0	712.0	711.0	710.0	710.0	709.0	709.0	709.0
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	710.0	710.0								
0 22	711.0	710.0	710.0	709.0	709.0	708.0	708.0	707.0	707.0	707.0
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	706.0	706.0								
0 24	706.0	706.0	706.0	705.0	705.0	704.0	704.0	703.0	703.0	703.0
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0 25	704.0	704.0	704.0	703.0	702.0	702.0	701.0	701.0	701.0	701.0
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	702.0	702.0								
0 26	702.0	702.0	702.0	701.0	700.0	700.0	699.0	699.0	698.0	698.0
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	700.0	700.0								
0 27	701.0	700.0	700.0	699.0	698.0	697.0	696.0	696.0	696.0	696.0
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	696.0	696.0								
0 29	698.0	698.0	697.0	697.0	696.0	695.0	695.0	694.0	694.0	694.0
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	694.0	694.0								
0 30	697.0	697.0	697.0	696.0	695.0	694.0	694.0	693.0	693.0	693.0
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	691.0	691.0								
0 31	697.0	696.0	696.0	695.0	694.0	693.0	693.0	692.0	692.0	692.0
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	689.0	689.0								
0 32	696.0	696.0	696.0	694.0	693.0	692.0	692.0	691.0	691.0	691.0
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	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
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	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	689.0	689.0	689.0	689.0	689.0	688.0	688.0	687.0	687.0
	686.0	686.0								
0 33	696.0	696.0	694.0	693.0	692.0	691.0	690.0	690.0	690.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	688.0	688.0
	688.0	688.0	688.0	687.0	687.0	687.0	686.0	686.0	685.0	684.0
	684.0	683.0								
0 34	696.0	696.0	693.0	691.0	690.0	689.0	689.0	689.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	686.0	686.0	685.0	685.0	684.0	684.0	683.0	682.0
	681.0	680.0								
0 35	696.0	692.0	690.0	689.0	688.0	688.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	685.0	685.0	685.0	684.0	684.0	683.0	683.0	682.0	681.0	680.0
	678.0	676.0								
0 36	689.0	687.0	687.0	686.0	686.0	686.0	686.0	686.0	686.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0

	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	684.0
	684.0	684.0	683.0	683.0	682.0	682.0	681.0	680.0	679.0	678.0
	676.0	676.0								
0 37	682.0	682.0	683.0	683.0	683.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
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	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	683.0	683.0
	683.0	683.0	682.0	682.0	681.0	680.0	680.0	679.0	677.0	676.0
	676.0	676.0								
0 38	676.0	676.0	679.0	680.0	681.0	682.0	682.0	682.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
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	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	682.0	682.0	682.0
	682.0	681.0	681.0	680.0	680.0	679.0	678.0	677.0	676.0	676.0
	676.0	676.0								
0 39	673.0	673.0	676.0	678.0	679.0	680.0	680.0	681.0	681.0	681.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	681.0	681.0	681.0	681.0	681.0
	681.0	680.0	680.0	679.0	679.0	678.0	677.0	676.0	676.0	675.0
	675.0	675.0								
0 40	668.0	669.0	672.0	676.0	677.0	678.0	679.0	680.0	680.0	680.0
	680.0	680.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	679.0	679.0	678.0	678.0	677.0	676.0	676.0	675.0	675.0
	675.0	675.0								
0 41	663.0	664.0	667.0	671.0	676.0	677.0	678.0	678.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	678.0	678.0	678.0	677.0	676.0	676.0	675.0	675.0	675.0
	674.0	674.0								
0 42	656.0	656.0	661.0	666.0	671.0	676.0	677.0	677.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	677.0	677.0	677.0	676.0	676.0	675.0	675.0	674.0	674.0
	674.0	674.0								
0 43	654.0	655.0	656.0	661.0	666.0	671.0	676.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	676.0	676.0	676.0	675.0	674.0	674.0	673.0	673.0
	673.0	673.0								
0 44	651.0	652.0	655.0	656.0	661.0	667.0	671.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	675.0	675.0	674.0	674.0	673.0	673.0	673.0	672.0
	672.0	672.0								
0 45	646.0	650.0	654.0	655.0	656.0	663.0	667.0	671.0	672.0	673.0
	673.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	674.0	674.0	674.0	674.0	673.0	673.0	672.0	672.0	672.0	672.0
	671.0	671.0								
0 46	645.0	649.0	653.0	654.0	655.0	661.0	664.0	667.0	669.0	670.0
	671.0	672.0	672.0	672.0	672.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	672.0	672.0	672.0	671.0	671.0	671.0	671.0
	670.0	670.0								
0 47	645.0	646.0	652.0	653.0	655.0	660.0	662.0	665.0	667.0	668.0
	669.0	669.0	670.0	670.0	671.0	671.0	671.0	671.0	671.0	671.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	671.0	671.0	671.0	671.0	670.0	670.0	670.0	670.0	670.0
	670.0	669.0								
0 48	644.0	645.0	651.0	652.0	655.0	658.0	661.0	664.0	664.0	666.0
	667.0	668.0	668.0	669.0	669.0	669.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	670.0	670.0
	670.0	670.0	670.0	670.0	669.0	669.0	669.0	669.0	669.0	669.0
	668.0	668.0								
0 49	644.0	645.0	650.0	651.0	654.0	657.0	659.0	663.0	663.0	664.0
	665.0	666.0	667.0	667.0	668.0	668.0	668.0	668.0	668.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	668.0	668.0	668.0	668.0	668.0	668.0	667.0
	667.0	667.0								
0 50	644.0	644.0	649.0	650.0	654.0	657.0	658.0	662.0	661.0	663.0
	664.0	664.0	665.0	666.0	666.0	666.0	667.0	667.0	667.0	667.0

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	667.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	666.0	666.0
	666.0	666.0								
0 51	643.0	644.0	648.0	649.0	653.0	656.0	658.0	661.0	660.0	661.0
	662.0	663.0	664.0	664.0	665.0	665.0	665.0	665.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	665.0	665.0	665.0	665.0
	665.0	665.0								
0 52	643.0	643.0	646.0	649.0	653.0	656.0	657.0	661.0	659.0	660.0
	661.0	662.0	662.0	663.0	663.0	664.0	664.0	664.0	664.0	664.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0								
0 53	642.0	643.0	645.0	648.0	652.0	655.0	656.0	660.0	658.0	659.0
	660.0	661.0	661.0	662.0	662.0	662.0	663.0	663.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0								
0 54	642.0	642.0	645.0	648.0	652.0	655.0	655.0	659.0	658.0	658.0
	659.0	660.0	660.0	661.0	661.0	661.0	661.0	662.0	662.0	662.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
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	662.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
	662.0	662.0								
0 55	641.0	642.0	644.0	647.0	651.0	654.0	655.0	658.0	657.0	658.0
	658.0	659.0	659.0	660.0	660.0	660.0	660.0	660.0	661.0	661.0
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	660.0	660.0								
0 56	641.0	641.0	644.0	647.0	651.0	654.0	655.0	658.0	657.0	657.0
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	659.0	659.0								
0 57	640.0	641.0	643.0	646.0	650.0	653.0	656.0	657.0	656.0	657.0
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	658.0	658.0								
0 58	639.0	640.0	643.0	646.0	650.0	653.0	655.0	657.0	656.0	656.0
	656.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
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	657.0	656.0								
0 59	639.0	640.0	642.0	645.0	649.0	652.0	655.0	656.0	656.0	656.0
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	656.0	656.0								
0 60	638.0	639.0	642.0	645.0	649.0	652.0	654.0	656.0	656.0	656.0
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	655.0	655.0								
0 61	638.0	639.0	641.0	645.0	648.0	651.0	654.0	655.0	655.0	655.0
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0 62	637.0	638.0	641.0	644.0	648.0	651.0	653.0	655.0	655.0	654.0
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0 63	637.0	638.0	640.0	644.0	647.0	650.0	653.0	655.0	655.0	653.0
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	652.0	652.0								
0 64	636.0	638.0	640.0	644.0	647.0	650.0	652.0	654.0	654.0	652.0
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0 66	635.0	637.0	639.0	643.0	646.0	649.0	651.0	653.0	653.0	651.0
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0 67	635.0	637.0	639.0	643.0	645.0	648.0	651.0	653.0	653.0	650.0
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	649.0	649.0								
0 68	634.0	636.0	639.0	642.0	644.0	648.0	650.0	652.0	652.0	650.0
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0 69	634.0	636.0	638.0	642.0	644.0	647.0	650.0	652.0	652.0	649.0
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	647.0	647.0								
0 70	633.0	635.0	638.0	642.0	644.0	647.0	649.0	651.0	651.0	649.0
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0 71	633.0	635.0	638.0	641.0	644.0	646.0	649.0	651.0	651.0	648.0
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0 72	632.0	634.0	637.0	641.0	644.0	646.0	648.0	650.0	650.0	648.0
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0 73	632.0	634.0	637.0	640.0	643.0	645.0	648.0	650.0	650.0	648.0
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0 74	632.0	634.0	637.0	640.0	643.0	644.0	647.0	649.0	649.0	647.0
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	645.0	646.0								
0 75	631.0	633.0	636.0	639.0	642.0	643.0	647.0	649.0	649.0	647.0
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	646.0	646.0								
0 76	631.0	633.0	636.0	639.0	642.0	643.0	647.0	648.0	648.0	647.0
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	644.0	644.0								
0 77	631.0	633.0	636.0	638.0	641.0	643.0	646.0	648.0	648.0	647.0
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	642.0	642.0								
0 78	630.0	632.0	635.0	638.0	642.0	643.0	646.0	647.0	647.0	646.0
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	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
	641.0	641.0								
0 79	630.0	632.0	635.0	638.0	642.0	644.0	646.0	647.0	647.0	646.0
	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	645.0	645.0
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	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0								
0 80	630.0	632.0	634.0	638.0	642.0	643.0	645.0	647.0	647.0	646.0
	646.0	646.0	646.0	646.0	646.0	645.0	645.0	645.0	645.0	645.0
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	641.0	641.0	641.0	640.0	640.0	640.0	640.0	640.0	639.0	639.0
	639.0	639.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0	638.0
	638.0	638.0								
0 81	630.0	632.0	634.0	637.0	642.0	643.0	644.0	646.0	646.0	646.0
	646.0	646.0	646.0	645.0	645.0	645.0	645.0	645.0	644.0	644.0
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	638.0	638.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0
	637.0	637.0								
0 82	629.0	631.0	633.0	637.0	641.0	642.0	644.0	646.0	646.0	646.0
	646.0	645.0	645.0	645.0	644.0	644.0	644.0	644.0	644.0	644.0
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	638.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	637.0								
0 83	629.0	631.0	633.0	637.0	640.0	642.0	643.0	646.0	646.0	645.0
	645.0	645.0	644.0	644.0	644.0	644.0	644.0	644.0	643.0	643.0
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	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0								
0 84	629.0	631.0	633.0	636.0	639.0	641.0	642.0	644.0	645.0	644.0
	644.0	644.0	644.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
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	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0
	636.0	636.0								
0 85	628.0	631.0	632.0	636.0	638.0	640.0	641.0	642.0	644.0	643.0
	643.0	643.0	643.0	643.0	643.0	643.0	643.0	642.0	642.0	642.0
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	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0								
0 86	628.0	631.0	632.0	636.0	638.0	639.0	640.0	641.0	643.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
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	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0								
0 87	628.0	630.0	631.0	635.0	637.0	638.0	639.0	640.0	642.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
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	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0
	634.0	634.0								
0 88	627.0	630.0	631.0	635.0	636.0	637.0	638.0	639.0	641.0	641.0
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	637.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0								
0 89	627.0	630.0	631.0	634.0	636.0	637.0	638.0	639.0	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
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	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0								
0 90	626.0	630.0	630.0	634.0	635.0	637.0	638.0	638.0	639.0	640.0
	639.0	639.0	639.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
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	638.0	638.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0
	636.0	636.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0

	633.0	633.0								
0 91	626.0	630.0	630.0	634.0	635.0	637.0	637.0	638.0	638.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	634.0	633.0	633.0	633.0	633.0	633.0	634.0	633.0	633.0	633.0
	633.0	633.0								
0 92	625.0	629.0	630.0	633.0	634.0	637.0	637.0	637.0	638.0	639.0
	638.0	638.0	638.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0
	632.0	632.0								
0 93	625.0	629.0	629.0	633.0	634.0	636.0	637.0	637.0	637.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
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	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0								
0 94	624.0	629.0	629.0	632.0	634.0	636.0	636.0	637.0	637.0	638.0
	637.0	637.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
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	636.0	636.0	636.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0
	631.0	631.0								
0 95	624.0	628.0	629.0	632.0	633.0	636.0	636.0	636.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
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	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0 96	624.0	628.0	628.0	631.0	633.0	636.0	636.0	636.0	636.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
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	635.0	635.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0
	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0 97	624.0	628.0	628.0	631.0	632.0	635.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
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	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0
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	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0								
0 98	623.0	627.0	628.0	630.0	632.0	635.0	635.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
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	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0								
0 99	623.0	627.0	627.0	630.0	631.0	634.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
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	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0								
0100	623.0	626.0	627.0	629.0	631.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
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	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0								
0101	622.0	626.0	627.0	629.0	630.0	633.0	633.0	633.0	633.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0102	622.0	625.0	626.0	628.0	630.0	632.0	632.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0
	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0
	627.0	627.0								
0103	622.0	624.0	626.0	628.0	629.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0104	621.0	624.0	626.0	628.0	629.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0

	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0
	626.0	626.0								
0105	621.0	623.0	625.0	627.0	628.0	630.0	630.0	630.0	630.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0106	621.0	623.0	624.0	627.0	628.0	629.0	629.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0107	621.0	622.0	624.0	627.0	627.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0
	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0108	620.0	622.0	623.0	626.0	627.0	628.0	628.0	628.0	628.0	628.0
	628.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0								
0109	620.0	621.0	623.0	626.0	626.0	627.0	627.0	627.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0
	623.0	623.0								
0110	620.0	621.0	622.0	626.0	626.0	626.0	626.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0111	620.0	620.0	622.0	625.0	625.0	626.0	626.0	626.0	626.0	626.0
	626.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0
	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0								
0112	619.0	620.0	621.0	624.0	625.0	625.0	625.0	625.0	625.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0
	623.0	623.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0
	621.0	621.0								
0113	619.0	619.0	621.0	623.0	624.0	624.0	624.0	624.0	625.0	625.0
	625.0	625.0	625.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0	622.0
	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0
	620.0	620.0								
0114	619.0	619.0	620.0	623.0	623.0	623.0	624.0	624.0	624.0	624.0
	624.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0
	622.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0115	619.0	619.0	620.0	622.0	622.0	622.0	623.0	623.0	623.0	624.0
	624.0	624.0	624.0	624.0	624.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0	621.0
	621.0	621.0	621.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0
	619.0	619.0								
0116	618.0	619.0	619.0	621.0	621.0	622.0	622.0	622.0	623.0	623.0
	623.0	623.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0
	621.0	620.0	620.0	620.0	619.0	619.0	618.0	618.0	618.0	618.0
	618.0	618.0								
0117	618.0	619.0	619.0	620.0	621.0	621.0	622.0	622.0	622.0	622.0
	623.0	623.0	623.0	623.0	623.0	623.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	620.0
	620.0	620.0	619.0	619.0	619.0	618.0	618.0	617.0	616.0	617.0
	617.0	617.0								

0118	618.0	618.0	618.0	620.0	620.0	621.0	621.0	621.0	622.0	622.0
	622.0	622.0	622.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0
	620.0	619.0	619.0	619.0	618.0	618.0	617.0	616.0	616.0	617.0
	617.0	617.0								
0119	618.0	618.0	618.0	619.0	620.0	620.0	620.0	621.0	621.0	621.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0
	619.0	619.0	619.0	618.0	618.0	617.0	617.0	616.0	616.0	616.0
	617.0	617.0								
0120	617.0	618.0	618.0	619.0	619.0	620.0	620.0	620.0	621.0	621.0
	621.0	621.0	621.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0
	619.0	618.0	618.0	618.0	617.0	617.0	616.0	616.0	616.0	616.0
	616.0	616.0								
0121	617.0	617.0	618.0	618.0	619.0	619.0	620.0	620.0	620.0	620.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0
	618.0	618.0	618.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0
	616.0	616.0								
0122	617.0	617.0	617.0	618.0	618.0	619.0	619.0	619.0	620.0	620.0
	620.0	620.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	618.0
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	604.0	604.0								
0171	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
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0172	601.0	601.0	601.0	601.0	601.0	601.0	602.0	602.0	602.0	602.0
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0173	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
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	603.0	603.0								
0174	600.0	600.0	600.0	600.0	600.0	601.0	601.0	601.0	601.0	601.0
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	603.0	603.0								
0175	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
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0176	599.0	599.0	599.0	599.0	599.0	599.0	600.0	600.0	600.0	600.0
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0177	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	600.0
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0183	596.0	596.0	596.0	596.0	596.0	596.0	597.0	597.0	597.0	598.0
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0185	596.0	596.0	596.0	596.0	596.0	596.0	596.0	597.0	597.0	597.0
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0186	595.0	595.0	595.0	595.0	596.0	596.0	596.0	596.0	597.0	597.0
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0194	587.0	587.0	587.0	587.0	587.0	588.0	588.0	589.0	589.0	590.0
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	591.0	591.0	591.0	591.0	591.0	591.0	592.0	593.0	596.0	596.0
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	590.0	589.0								
0196	584.0	584.0	584.0	584.0	584.0	583.0	583.0	583.0	583.0	583.0
	584.0	584.0	584.0	584.0	584.0	584.0	585.0	585.0	585.0	586.0
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	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	587.0	588.0	589.0	589.0
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	583.0	583.0								
0197	582.0	582.0	582.0	582.0	582.0	581.0	581.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
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	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	582.0	582.0	582.0
	583.0	583.0	582.0	582.0	582.0	581.0	581.0	580.0	579.0	576.0
	576.0	576.0								
0198	581.0	581.0	581.0	580.0	580.0	579.0	578.0	578.0	576.0	576.0
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	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	573.0
	572.0	571.0								
0199	580.0	580.0	579.0	579.0	578.0	577.0	576.0	576.0	574.0	573.0
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	567.0	567.0								
0200	579.0	578.0	578.0	578.0	577.0	576.0	574.0	573.0	571.0	570.0
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	566.0	566.0	566.0	566.0	566.0	566.0	565.0	564.0	563.0	562.0
	562.0	561.0								
0201	578.0	577.0	577.0	577.0	576.0	573.0	571.0	569.0	568.0	567.0
	567.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
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	561.0	561.0	561.0	561.0	561.0	561.0	560.0	559.0	556.0	556.0
	556.0	556.0								
0202	577.0	577.0	576.0	576.0	572.0	569.0	567.0	565.0	564.0	564.0
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	550.0	550.0								
0203	576.0	576.0	572.0	569.0	567.0	564.0	562.0	561.0	560.0	560.0
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	543.0	543.0								
0204	570.0	569.0	566.0	563.0	561.0	559.0	556.0	556.0	556.0	556.0
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	548.0	547.0	547.0	546.0	546.0	545.0	544.0	542.0	540.0	536.0
	536.0	536.0								
0205	564.0	563.0	560.0	556.0	556.0	556.0	553.0	552.0	552.0	551.0
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	545.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	544.0	543.0	542.0	541.0	541.0	540.0	539.0	536.0	536.0	532.0
	531.0	530.0								
0206	560.0	559.0	556.0	554.0	552.0	551.0	550.0	548.0	547.0	547.0
	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
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	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	540.0	539.0	538.0	536.0	536.0	536.0	536.0	531.0	529.0	526.0
	524.0	523.0								
0207	557.0	556.0	553.0	550.0	549.0	547.0	545.0	544.0	542.0	541.0
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	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
	536.0	536.0	536.0	531.0	529.0	527.0	526.0	524.0	522.0	520.0
	516.0	516.0								
0208	556.0	552.0	549.0	547.0	545.0	543.0	541.0	539.0	536.0	536.0
	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
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	535.0	534.0	533.0	532.0	531.0	533.0	534.0	534.0	533.0	533.0
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	527.0	527.0	526.0	523.0	521.0	516.0	516.0	516.0	516.0	516.0
	509.0	507.0								
0209	548.0	546.0	544.0	543.0	541.0	539.0	536.0	536.0	532.0	530.0
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	496.0	496.0								
0210	542.0	541.0	540.0	539.0	536.0	536.0	531.0	528.0	525.0	524.0
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	522.0	522.0	521.0	520.0	520.0	520.0	521.0	526.0	525.0	524.0
	523.0	522.0	521.0	520.0	519.0	518.0	517.0	516.0	516.0	516.0
	516.0	516.0	516.0	515.0	514.0	513.0	512.0	511.0	511.0	510.0
	509.0	508.0	507.0	506.0	503.0	496.0	496.0	496.0	496.0	496.0
	476.0	476.0								
0211	536.0	536.0	536.0	536.0	531.0	528.0	524.0	521.0	516.0	516.0
	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0
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	513.0	512.0	511.0	510.0	509.0	508.0	507.0	506.0	506.0	506.0
	506.0	506.0	506.0	505.0	505.0	504.0	503.0	502.0	501.0	500.0
	499.0	498.0	497.0	496.0	496.0	489.0	486.0	484.0	476.0	476.0
	456.0	456.0								
0212	529.0	529.0	528.0	526.0	523.0	521.0	516.0	516.0	511.0	509.0
	508.0	508.0	507.0	507.0	506.0	506.0	506.0	506.0	506.0	506.0
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	504.0	503.0	502.0	502.0	501.0	500.0	501.0	506.0	505.0	504.0
	503.0	502.0	501.0	500.0	499.0	498.0	497.0	496.0	496.0	496.0
	496.0	496.0	496.0	496.0	496.0	495.0	494.0	493.0	492.0	491.0
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0213  522.0     522.0     520.0     516.0     516.0     516.0     508.0     506.0     502.0     501.0
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0214  516.0     516.0     516.0     509.0     506.0     504.0     496.0     496.0     491.0     481.0
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0215  505.0     503.0     496.0     496.0     496.0     496.0     476.0     476.0     474.0     469.0
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0216  496.0     496.0     488.0     484.0     476.0     476.0     466.0     456.0     456.0     454.0
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0218  463.0     456.0     456.0     456.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0
0219  456.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0
0220  455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
      455.0     455.0
0
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INITIAL HEAD FOR LAYER 2 WILL BE READ ON UNIT 34 USING FORMAT: (8F9.0)

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                1         2         3         4         5         6         7         8         9        10
               11        12        13        14        15        16        17        18        19        20
               21        22        23        24        25        26        27        28        29        30
               31        32        33        34        35        36        37        38        39        40
               41        42        43        44        45        46        47        48        49        50
               51        52        53        54        55        56        57        58        59        60
               61        62        63        64        65        66        67        68        69        70
               71        72        73        74        75        76        77        78        79        80
               81        82
-------------------------------------------------------------------------------------------------------------
0  1      755.0     755.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0
0  2      755.0     753.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0
0  3      751.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0
0  4      749.0     748.0     748.0     748.0     748.0     749.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
          750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0     750.0
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	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0
	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0
	750.0	750.0								
0 5	746.0	746.0	746.0	746.0	746.0	746.0	747.0	747.0	747.0	747.0
	747.0	747.0	747.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
	748.0	748.0	748.0	748.0	749.0	750.0	750.0	750.0	750.0	750.0
	750.0	750.0								
0 6	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	746.0	746.0
	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
	746.0	746.0	746.0	746.0	747.0	747.0	748.0	748.0	748.0	748.0
	748.0	748.0								
0 7	742.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	742.0	742.0	742.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	745.0	745.0	745.0	745.0	745.0	746.0
	746.0	746.0								
0 8	739.0	739.0	739.0	739.0	739.0	738.0	738.0	738.0	738.0	738.0
	739.0	740.0	740.0	740.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	742.0	742.0
	742.0	742.0	742.0	742.0	742.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0								
0 9	737.0	737.0	737.0	737.0	736.0	735.0	735.0	735.0	735.0	735.0
	737.0	737.0	737.0	738.0	738.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	740.0	740.0	740.0	740.0	740.0	741.0	741.0	741.0	741.0
	741.0	741.0								
0 10	735.0	735.0	735.0	735.0	735.0	734.0	733.0	733.0	733.0	734.0
	735.0	735.0	735.0	735.0	736.0	737.0	738.0	736.0	736.0	736.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	738.0	738.0	739.0	739.0	739.0	739.0
	739.0	739.0								
0 11	733.0	733.0	732.0	732.0	732.0	732.0	731.0	731.0	731.0	731.0
	732.0	732.0	732.0	733.0	733.0	733.0	733.0	732.0	733.0	734.0
	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
	735.0	735.0	735.0	735.0	735.0	736.0	737.0	737.0	737.0	737.0
	737.0	737.0								
0 12	730.0	730.0	730.0	730.0	729.0	729.0	729.0	729.0	729.0	729.0
	729.0	729.0	730.0	730.0	730.0	730.0	730.0	730.0	731.0	731.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	733.0	733.0	733.0
	733.0	733.0	733.0	733.0	733.0	735.0	735.0	735.0	735.0	735.0
	735.0	735.0								
0 13	728.0	728.0	728.0	727.0	727.0	727.0	726.0	726.0	726.0	726.0
	726.0	727.0	727.0	727.0	727.0	728.0	728.0	728.0	728.0	728.0
	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	731.0	731.0	731.0	731.0	731.0	731.0
	731.0	731.0								
0 14	725.0	725.0	725.0	725.0	725.0	724.0	724.0	724.0	724.0	724.0
	724.0	724.0	724.0	724.0	725.0	725.0	725.0	725.0	725.0	726.0
	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0
	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0
	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0
	726.0	726.0	726.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0
	727.0	727.0	727.0	727.0	727.0	727.0	727.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	727.0	727.0	726.0
	726.0	726.0								
0 15	723.0	723.0	723.0	723.0	722.0	722.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	722.0	722.0	722.0	722.0	722.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	724.0	724.0	724.0	724.0	724.0
	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0
	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0
	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	724.0	723.0	722.0
	721.0	721.0								
0 16	721.0	721.0	721.0	720.0	720.0	719.0	718.0	718.0	718.0	718.0
	718.0	718.0	718.0	719.0	719.0	720.0	720.0	720.0	720.0	720.0
	720.0	720.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	722.0	722.0	720.0	719.0	718.0
	715.0	717.0								
0 17	719.0	719.0	719.0	718.0	717.0	717.0	715.0	715.0	715.0	715.0
	715.0	715.0	715.0	716.0	717.0	718.0	717.0	716.0	717.0	717.0
	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
	718.0	718.0	718.0	718.0	718.0	718.0	718.0	719.0	719.0	720.0
	719.0	719.0	719.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
	720.0	721.0	721.0	721.0	720.0	720.0	719.0	717.0	715.0	715.0
	715.0	715.0								
0 18	718.0	717.0	717.0	716.0	715.0	715.0	714.0	714.0	713.0	713.0
	713.0	713.0	713.0	714.0	714.0	714.0	712.0	713.0	714.0	715.0

	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
	715.0	715.0	715.0	715.0	715.0	715.0	715.0	716.0	717.0	718.0
	716.0	716.0	717.0	717.0	717.0	717.0	717.0	718.0	718.0	718.0
	718.0	718.0	718.0	718.0	718.0	718.0	717.0	715.0	714.0	714.0
	714.0	714.0								
0 19	716.0	716.0	715.0	715.0	714.0	713.0	712.0	712.0	712.0	712.0
	711.0	711.0	712.0	712.0	712.0	712.0	711.0	711.0	712.0	712.0
	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
	713.0	713.0	713.0	713.0	713.0	713.0	713.0	714.0	714.0	714.0
	712.0	713.0	714.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
	715.0	716.0	717.0	717.0	716.0	716.0	715.0	714.0	713.0	713.0
	712.0	712.0								
0 20	715.0	715.0	713.0	713.0	712.0	711.0	711.0	710.0	710.0	710.0
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	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
	711.0	711.0	712.0	712.0	712.0	713.0	713.0	713.0	713.0	713.0
	714.0	715.0	715.0	715.0	715.0	715.0	713.0	712.0	711.0	711.0
	711.0	711.0								
0 21	712.0	712.0	711.0	711.0	710.0	709.0	709.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	707.0	707.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	709.0	709.0	709.0	709.0	709.0
	709.0	709.0	709.0	710.0	710.0	710.0	710.0	711.0	711.0	711.0
	711.0	712.0	712.0	712.0	712.0	712.0	711.0	710.0	710.0	709.0
	709.0	709.0								
0 22	710.0	709.0	709.0	708.0	708.0	707.0	707.0	706.0	706.0	706.0
	706.0	706.0	706.0	705.0	705.0	705.0	705.0	706.0	706.0	706.0
	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	707.0	707.0
	707.0	707.0	707.0	707.0	708.0	708.0	708.0	708.0	708.0	709.0
	709.0	709.0	709.0	709.0	709.0	709.0	709.0	708.0	708.0	707.0
	707.0	707.0								
0 23	707.0	707.0	707.0	706.0	706.0	705.0	705.0	704.0	704.0	704.0
	704.0	704.0	703.0	703.0	703.0	703.0	703.0	703.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	705.0	705.0	705.0	705.0	705.0	706.0	706.0	706.0	706.0
	707.0	707.0	707.0	707.0	707.0	707.0	706.0	706.0	706.0	705.0
	705.0	705.0								
0 24	705.0	705.0	705.0	704.0	704.0	703.0	703.0	702.0	702.0	702.0
	702.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	703.0	703.0	703.0	703.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	703.0
	703.0	703.0								
0 25	703.0	703.0	703.0	702.0	701.0	701.0	700.0	700.0	700.0	700.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
	700.0	700.0	700.0	700.0	700.0	701.0	701.0	701.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	701.0	701.0
	701.0	701.0								
0 26	701.0	701.0	701.0	700.0	699.0	699.0	698.0	698.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	698.0	698.0	698.0	698.0	699.0	699.0	699.0	699.0
	699.0	700.0	700.0	700.0	700.0	700.0	699.0	699.0	699.0	699.0
	699.0	699.0								
0 27	700.0	699.0	699.0	698.0	697.0	696.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	696.0	697.0	698.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0								
0 28	698.0	698.0	698.0	697.0	695.0	695.0	695.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	695.0	695.0	693.0	694.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0								
0 29	697.0	697.0	696.0	696.0	695.0	694.0	694.0	693.0	693.0	693.0
	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
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	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
	693.0	693.0								
0 30	696.0	696.0	696.0	695.0	694.0	693.0	693.0	692.0	692.0	692.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	691.0
	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0
	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0
	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0
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	691.0	691.0	691.0	692.0	692.0	692.0	692.0	692.0	691.0	691.0
	692.0	692.0	692.0	691.0	691.0	691.0	691.0	691.0	691.0	690.0
	690.0	690.0								
0 31	696.0	695.0	695.0	694.0	693.0	692.0	692.0	691.0	691.0	691.0
	691.0	691.0	691.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0

	690.0	690.0	690.0	690.0	690.0	689.0	689.0	689.0	688.0	688.0
	688.0	688.0								
0 32	695.0	695.0	695.0	693.0	692.0	691.0	691.0	690.0	690.0	690.0
	690.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
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	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	688.0	688.0	688.0	688.0	688.0	687.0	687.0	686.0	686.0
	685.0	685.0								
0 33	695.0	695.0	693.0	692.0	691.0	690.0	689.0	689.0	689.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
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	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	687.0	687.0
	687.0	687.0	687.0	686.0	686.0	686.0	685.0	685.0	684.0	683.0
	683.0	682.0								
0 34	695.0	695.0	692.0	690.0	689.0	688.0	688.0	688.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	685.0	685.0	684.0	684.0	683.0	683.0	682.0	681.0
	680.0	679.0								
0 35	695.0	691.0	689.0	688.0	687.0	687.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	684.0	684.0	684.0	683.0	683.0	682.0	682.0	681.0	680.0	679.0
	677.0	675.0								
0 36	688.0	686.0	686.0	685.0	685.0	685.0	685.0	685.0	685.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	683.0
	683.0	683.0	682.0	682.0	681.0	681.0	680.0	679.0	678.0	677.0
	675.0	675.0								
0 37	681.0	681.0	682.0	682.0	682.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
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	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	682.0	682.0
	682.0	682.0	681.0	681.0	680.0	679.0	679.0	678.0	676.0	675.0
	675.0	675.0								
0 38	675.0	675.0	678.0	679.0	680.0	681.0	681.0	681.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	681.0	681.0	681.0
	681.0	680.0	680.0	679.0	679.0	678.0	677.0	676.0	675.0	675.0
	675.0	675.0								
0 39	672.0	672.0	675.0	677.0	678.0	679.0	679.0	680.0	680.0	680.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	680.0	680.0	680.0	680.0
	680.0	679.0	679.0	678.0	678.0	677.0	676.0	675.0	675.0	674.0
	674.0	674.0								
0 40	667.0	668.0	671.0	675.0	676.0	677.0	678.0	679.0	679.0	679.0
	679.0	679.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	678.0	678.0	677.0	677.0	676.0	675.0	675.0	674.0	674.0
	674.0	674.0								
0 41	662.0	663.0	666.0	670.0	675.0	676.0	677.0	677.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	678.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	677.0	677.0	677.0	676.0	675.0	675.0	674.0	674.0	674.0
	673.0	673.0								
0 42	655.0	655.0	660.0	665.0	670.0	675.0	676.0	676.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	676.0	676.0	676.0	675.0	675.0	674.0	674.0	673.0	673.0
	673.0	673.0								
0 43	653.0	654.0	655.0	660.0	665.0	670.0	675.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	675.0	675.0	675.0	674.0	673.0	673.0	672.0	672.0
	672.0	672.0								
0 44	650.0	651.0	654.0	655.0	660.0	666.0	670.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	674.0	674.0	673.0	673.0	672.0	672.0	672.0	671.0
	671.0	671.0								
0 45	645.0	649.0	653.0	654.0	655.0	662.0	666.0	670.0	671.0	672.0
	672.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0

	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	673.0	673.0	673.0	673.0	672.0	672.0	671.0	671.0	671.0	671.0
	670.0	670.0								
0 46	644.0	648.0	652.0	653.0	654.0	660.0	663.0	666.0	668.0	669.0
	670.0	671.0	671.0	671.0	671.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	671.0	671.0	671.0	670.0	670.0	670.0	670.0
	669.0	669.0								
0 47	644.0	645.0	651.0	652.0	654.0	659.0	661.0	664.0	666.0	667.0
	668.0	668.0	669.0	669.0	670.0	670.0	670.0	670.0	670.0	670.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	670.0	670.0	670.0	670.0	669.0	669.0	669.0	669.0	669.0
	669.0	668.0								
0 48	643.0	644.0	650.0	651.0	654.0	657.0	660.0	663.0	663.0	665.0
	666.0	667.0	667.0	668.0	668.0	668.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	669.0	669.0
	669.0	669.0	669.0	669.0	668.0	668.0	668.0	668.0	668.0	668.0
	667.0	667.0								
0 49	643.0	644.0	649.0	650.0	653.0	656.0	658.0	662.0	662.0	663.0
	664.0	665.0	666.0	666.0	667.0	667.0	667.0	667.0	667.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	667.0	667.0	667.0	667.0	667.0	667.0	666.0
	666.0	666.0								
0 50	643.0	643.0	648.0	649.0	653.0	656.0	657.0	661.0	660.0	662.0
	663.0	663.0	664.0	665.0	665.0	665.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	665.0	665.0
	665.0	665.0								
0 51	642.0	643.0	647.0	648.0	652.0	655.0	657.0	660.0	659.0	660.0
	661.0	662.0	663.0	663.0	664.0	664.0	664.0	664.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	664.0	664.0	664.0	664.0
	664.0	664.0								
0 52	642.0	642.0	645.0	648.0	652.0	655.0	656.0	660.0	658.0	659.0
	660.0	661.0	661.0	662.0	662.0	663.0	663.0	663.0	663.0	663.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
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	664.0	664.0	664.0	664.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0								
0 53	641.0	642.0	644.0	647.0	651.0	654.0	655.0	659.0	657.0	658.0
	659.0	660.0	660.0	661.0	661.0	661.0	662.0	662.0	662.0	662.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
	662.0	662.0								
0 54	641.0	641.0	644.0	647.0	651.0	654.0	654.0	658.0	657.0	657.0
	658.0	659.0	659.0	660.0	660.0	660.0	660.0	661.0	661.0	661.0
	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
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	661.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
	661.0	661.0								
0 55	640.0	641.0	643.0	646.0	650.0	653.0	654.0	657.0	656.0	657.0
	657.0	658.0	658.0	659.0	659.0	659.0	659.0	659.0	660.0	660.0
	660.0	660.0	660.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
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	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	660.0
	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	659.0
	659.0	659.0								
0 56	640.0	640.0	643.0	646.0	650.0	653.0	654.0	657.0	656.0	656.0
	657.0	657.0	657.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
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	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
	660.0	660.0	660.0	660.0	660.0	660.0	660.0	659.0	659.0	659.0
	659.0	659.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
	658.0	658.0								
0 57	639.0	640.0	642.0	645.0	649.0	652.0	655.0	656.0	655.0	656.0
	656.0	656.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	657.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	657.0	657.0	657.0
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	659.0	659.0	659.0	659.0	659.0	658.0	658.0	658.0	658.0	658.0
	658.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0								
0 58	638.0	639.0	642.0	645.0	649.0	652.0	654.0	656.0	655.0	655.0
	655.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	656.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	656.0	655.0	655.0	656.0	656.0	656.0	656.0	656.0	656.0

	656.0	655.0								
0 59	638.0	639.0	641.0	644.0	648.0	651.0	654.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	655.0	655.0	655.0	655.0
	655.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0								
0 60	637.0	638.0	641.0	644.0	648.0	651.0	653.0	655.0	655.0	655.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
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	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0								
0 61	637.0	638.0	640.0	644.0	647.0	650.0	653.0	654.0	654.0	654.0
	653.0	653.0	653.0	653.0	653.0	653.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	653.0	653.0	653.0	653.0	653.0	653.0
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	654.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
	653.0	653.0								
0 62	636.0	637.0	640.0	643.0	647.0	650.0	652.0	654.0	654.0	653.0
	652.0	652.0	652.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
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	653.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
	652.0	652.0								
0 63	636.0	637.0	639.0	643.0	646.0	649.0	652.0	654.0	654.0	652.0
	651.0	651.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
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	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
	651.0	651.0								
0 64	635.0	637.0	639.0	643.0	646.0	649.0	651.0	653.0	653.0	651.0
	650.0	651.0	651.0	651.0	651.0	651.0	651.0	652.0	652.0	652.0
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	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	650.0								
0 65	635.0	636.0	639.0	642.0	645.0	648.0	651.0	653.0	653.0	650.0
	649.0	650.0	650.0	650.0	650.0	651.0	651.0	651.0	651.0	651.0
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	651.0	651.0	651.0	651.0	651.0	651.0	650.0	650.0	650.0	650.0
	650.0	650.0	650.0	650.0	650.0	650.0	649.0	649.0	649.0	649.0
	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	649.0								
0 66	634.0	636.0	638.0	642.0	645.0	648.0	650.0	652.0	652.0	650.0
	649.0	649.0	649.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
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	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	649.0								
0 67	634.0	636.0	638.0	642.0	644.0	647.0	650.0	652.0	652.0	649.0
	648.0	648.0	649.0	649.0	649.0	649.0	650.0	650.0	650.0	650.0
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	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	648.0
	648.0	648.0								
0 68	633.0	635.0	638.0	641.0	643.0	647.0	649.0	651.0	651.0	649.0
	648.0	648.0	648.0	648.0	649.0	649.0	649.0	649.0	649.0	649.0
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	647.0	647.0	647.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	647.0
	647.0	647.0								
0 69	633.0	635.0	637.0	641.0	643.0	646.0	649.0	651.0	651.0	648.0
	647.0	647.0	648.0	648.0	648.0	648.0	648.0	649.0	649.0	649.0
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	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	646.0	646.0
	646.0	646.0								
0 70	632.0	634.0	637.0	641.0	643.0	646.0	648.0	650.0	650.0	648.0
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	645.0	645.0	645.0	645.0	645.0	645.0	644.0	644.0	644.0	644.0
	644.0	644.0	644.0	644.0	644.0	645.0	645.0	645.0	645.0	645.0
	645.0	646.0								
0 71	632.0	634.0	637.0	640.0	643.0	645.0	648.0	650.0	650.0	647.0
	647.0	646.0	647.0	647.0	647.0	647.0	647.0	648.0	648.0	648.0
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	645.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	645.0	645.0
	645.0	645.0								
0 72	631.0	633.0	636.0	640.0	643.0	645.0	647.0	649.0	649.0	647.0
	647.0	646.0	646.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
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	643.0	643.0	643.0	643.0	643.0	643.0	644.0	644.0	644.0	644.0
	645.0	645.0								
0 73	631.0	633.0	636.0	639.0	642.0	644.0	647.0	649.0	649.0	647.0
	646.0	646.0	646.0	646.0	646.0	646.0	647.0	647.0	647.0	647.0
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	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	644.0	644.0
	644.0	645.0								
0 74	631.0	633.0	636.0	639.0	642.0	643.0	646.0	648.0	648.0	646.0
	646.0	645.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
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	642.0	642.0	642.0	642.0	642.0	642.0	642.0	643.0	643.0	644.0
	644.0	645.0								
0 75	630.0	632.0	635.0	638.0	641.0	642.0	646.0	648.0	648.0	646.0
	646.0	645.0	645.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
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	645.0	645.0								
0 76	630.0	632.0	635.0	638.0	641.0	642.0	646.0	647.0	647.0	646.0
	646.0	645.0	645.0	645.0	645.0	646.0	646.0	646.0	645.0	645.0
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	641.0	641.0	640.0	640.0	640.0	641.0	641.0	641.0	641.0	642.0
	643.0	643.0								
0 77	630.0	632.0	635.0	637.0	640.0	642.0	645.0	647.0	647.0	646.0
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	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	641.0
	641.0	641.0								
0 78	629.0	631.0	634.0	637.0	641.0	642.0	645.0	646.0	646.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
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	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	640.0	640.0								
0 79	629.0	631.0	634.0	637.0	641.0	643.0	645.0	646.0	646.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	644.0	644.0
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	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0								
0 80	629.0	631.0	633.0	637.0	641.0	642.0	644.0	646.0	646.0	645.0
	645.0	645.0	645.0	645.0	645.0	644.0	644.0	644.0	644.0	644.0
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	638.0	638.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	637.0
	637.0	637.0								
0 81	629.0	631.0	633.0	636.0	641.0	642.0	643.0	645.0	645.0	645.0
	645.0	645.0	645.0	644.0	644.0	644.0	644.0	644.0	643.0	643.0
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	637.0	637.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0
	636.0	636.0								
0 82	628.0	630.0	632.0	636.0	640.0	641.0	643.0	645.0	645.0	645.0
	645.0	644.0	644.0	644.0	643.0	643.0	643.0	643.0	643.0	643.0
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	637.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	636.0								
0 83	628.0	630.0	632.0	636.0	639.0	641.0	642.0	645.0	645.0	644.0
	644.0	644.0	643.0	643.0	643.0	643.0	643.0	643.0	642.0	642.0
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	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	636.0	636.0
	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0								
0 84	628.0	630.0	632.0	635.0	638.0	640.0	641.0	643.0	644.0	643.0
	643.0	643.0	643.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
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	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	635.0	635.0								
0 85	627.0	630.0	631.0	635.0	637.0	639.0	640.0	641.0	643.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	642.0	641.0	641.0	641.0
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	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	635.0	635.0
	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0								

0 86	627.0	630.0	631.0	635.0	637.0	638.0	639.0	640.0	642.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	640.0	640.0	640.0	640.0
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	637.0	637.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0								
0 87	627.0	629.0	630.0	634.0	636.0	637.0	638.0	639.0	641.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
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	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0
	633.0	633.0								
0 88	626.0	629.0	630.0	634.0	635.0	636.0	637.0	638.0	640.0	640.0
	639.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
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	638.0	638.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0
	636.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0								
0 89	626.0	629.0	630.0	633.0	635.0	636.0	637.0	638.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	637.0
	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	635.0
	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0								
0 90	625.0	629.0	629.0	633.0	634.0	636.0	637.0	637.0	638.0	639.0
	638.0	638.0	638.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0
	635.0	635.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0								
0 91	625.0	629.0	629.0	633.0	634.0	636.0	636.0	637.0	637.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	636.0
	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0
	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0
	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0								
0 92	624.0	628.0	629.0	632.0	633.0	636.0	636.0	636.0	637.0	638.0
	637.0	637.0	637.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0
	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0
	631.0	631.0								
0 93	624.0	628.0	628.0	632.0	633.0	635.0	636.0	636.0	636.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0
	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0 94	623.0	628.0	628.0	631.0	633.0	635.0	635.0	636.0	636.0	637.0
	636.0	636.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0
	635.0	635.0	635.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0
	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0								
0 95	623.0	627.0	628.0	631.0	632.0	635.0	635.0	635.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0								
0 96	623.0	627.0	627.0	630.0	632.0	635.0	635.0	635.0	635.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0
	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0								
0 97	623.0	627.0	627.0	630.0	631.0	634.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0
	631.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0
	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0								
0 98	622.0	626.0	627.0	629.0	631.0	634.0	634.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0
	633.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0
	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0								
0 99	622.0	626.0	626.0	629.0	630.0	633.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0

	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0100	622.0	625.0	626.0	628.0	630.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0
	631.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0
	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0101	621.0	625.0	626.0	628.0	629.0	632.0	632.0	632.0	632.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0102	621.0	624.0	625.0	627.0	629.0	631.0	631.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0
	626.0	626.0								
0103	621.0	623.0	625.0	627.0	628.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0104	620.0	623.0	625.0	627.0	628.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0
	625.0	625.0								
0105	620.0	622.0	624.0	626.0	627.0	629.0	629.0	629.0	629.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0106	620.0	622.0	623.0	626.0	627.0	628.0	628.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0								
0107	620.0	621.0	623.0	626.0	626.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0
	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0								
0108	619.0	621.0	622.0	625.0	626.0	627.0	627.0	627.0	627.0	627.0
	627.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0109	619.0	620.0	622.0	625.0	625.0	626.0	626.0	626.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0
	622.0	622.0								
0110	619.0	620.0	621.0	625.0	625.0	625.0	625.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0
	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0								
0111	619.0	619.0	621.0	624.0	624.0	625.0	625.0	625.0	625.0	625.0
	625.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
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	625.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
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	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0								
0112	618.0	619.0	620.0	623.0	624.0	624.0	624.0	624.0	624.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	626.0	626.0	626.0
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	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
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	624.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0
	622.0	622.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0
	620.0	620.0								
0113	618.0	618.0	620.0	622.0	623.0	623.0	623.0	623.0	624.0	624.0

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	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
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	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0	621.0
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	619.0	619.0								
0114	618.0	618.0	619.0	622.0	622.0	622.0	623.0	623.0	623.0	623.0
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	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
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	623.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0
	621.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0								
0115	618.0	618.0	619.0	621.0	621.0	621.0	622.0	622.0	622.0	623.0
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	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
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	620.0	620.0	620.0	619.0	619.0	619.0	618.0	618.0	618.0	618.0
	618.0	618.0								
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	622.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0
	620.0	619.0	619.0	619.0	618.0	618.0	617.0	617.0	617.0	617.0
	617.0	617.0								
0117	617.0	618.0	618.0	619.0	620.0	620.0	621.0	621.0	621.0	621.0
	622.0	622.0	622.0	622.0	622.0	622.0	623.0	623.0	623.0	623.0
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	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	619.0
	619.0	619.0	618.0	618.0	618.0	617.0	617.0	616.0	615.0	616.0
	616.0	616.0								
0118	617.0	617.0	617.0	619.0	619.0	620.0	620.0	620.0	621.0	621.0
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	621.0	621.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0
	619.0	618.0	618.0	618.0	617.0	617.0	616.0	615.0	615.0	616.0
	616.0	616.0								
0119	617.0	617.0	617.0	618.0	619.0	619.0	619.0	620.0	620.0	620.0
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	618.0	618.0	618.0	617.0	617.0	616.0	616.0	615.0	615.0	615.0
	616.0	616.0								
0120	616.0	617.0	617.0	618.0	618.0	619.0	619.0	619.0	620.0	620.0
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	618.0	617.0	617.0	617.0	616.0	616.0	615.0	615.0	615.0	615.0
	615.0	615.0								
0121	616.0	616.0	617.0	617.0	618.0	618.0	619.0	619.0	619.0	619.0
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	615.0	615.0								
0122	616.0	616.0	616.0	617.0	617.0	618.0	618.0	618.0	619.0	619.0
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	617.0	617.0	616.0	616.0	615.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0								
0123	616.0	616.0	616.0	617.0	617.0	617.0	618.0	618.0	618.0	619.0
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	615.0	615.0								
0124	615.0	615.0	616.0	616.0	617.0	617.0	617.0	618.0	618.0	618.0
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	615.0	615.0								
0125	615.0	615.0	616.0	616.0	616.0	617.0	617.0	617.0	618.0	618.0
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0126	615.0	615.0	615.0	616.0	616.0	616.0	617.0	617.0	617.0	617.0
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0127	615.0	615.0	615.0	616.0	616.0	616.0	616.0	617.0	617.0	617.0
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	615.0	615.0								
0128	615.0	615.0	615.0	615.0	616.0	616.0	616.0	616.0	617.0	617.0
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	616.0	616.0	616.0	616.0	615.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0								
0129	615.0	615.0	615.0	615.0	616.0	616.0	616.0	616.0	616.0	617.0
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0130	615.0	615.0	615.0	615.0	615.0	616.0	616.0	616.0	616.0	616.0
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	616.0	616.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0								
0131	615.0	615.0	615.0	615.0	615.0	615.0	616.0	616.0	616.0	616.0
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	615.0	615.0								
0132	615.0	615.0	615.0	615.0	615.0	615.0	615.0	616.0	616.0	616.0
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	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0								
0133	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	616.0	616.0
	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
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	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
	599.0	599.0								
0183	595.0	595.0	595.0	595.0	595.0	595.0	596.0	596.0	596.0	597.0
	597.0	597.0	597.0	597.0	597.0	597.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
	599.0	599.0								
0184	595.0	595.0	595.0	595.0	595.0	595.0	596.0	596.0	596.0	596.0
	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0								
0185	595.0	595.0	595.0	595.0	595.0	595.0	595.0	596.0	596.0	596.0
	596.0	596.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
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	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0								
0186	594.0	594.0	594.0	594.0	595.0	595.0	595.0	595.0	596.0	596.0
	596.0	596.0	596.0	596.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
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	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	598.0	598.0								
0187	594.0	594.0	594.0	594.0	594.0	595.0	595.0	595.0	595.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	597.0	597.0	597.0
	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
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	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0								
0188	593.0	593.0	593.0	593.0	594.0	594.0	595.0	595.0	595.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
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	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0								
0189	592.0	592.0	592.0	593.0	593.0	594.0	595.0	595.0	595.0	595.0
	595.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
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	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0								
0190	591.0	591.0	591.0	592.0	592.0	593.0	595.0	595.0	595.0	595.0
	595.0	595.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
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	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0								
0191	590.0	590.0	590.0	591.0	591.0	592.0	593.0	595.0	595.0	595.0
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	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0								
0192	589.0	589.0	589.0	589.0	590.0	590.0	591.0	592.0	593.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
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	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0								
0193	587.0	587.0	587.0	588.0	588.0	589.0	589.0	590.0	591.0	593.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
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	596.0	596.0	596.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0								
0194	586.0	586.0	586.0	586.0	586.0	587.0	587.0	588.0	588.0	589.0
	590.0	591.0	591.0	591.0	591.0	591.0	592.0	593.0	595.0	595.0
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	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0								
0195	584.0	584.0	584.0	584.0	584.0	585.0	585.0	585.0	585.0	586.0
	586.0	587.0	587.0	587.0	587.0	587.0	588.0	588.0	589.0	590.0
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	590.0	590.0	590.0	590.0	590.0	590.0	591.0	592.0	595.0	595.0
	595.0	595.0	595.0	595.0	592.0	591.0	590.0	590.0	589.0	589.0
	589.0	588.0								
0196	583.0	583.0	583.0	583.0	583.0	582.0	582.0	582.0	582.0	582.0
	583.0	583.0	583.0	583.0	583.0	583.0	584.0	584.0	584.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
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	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	586.0	587.0	588.0	588.0
	588.0	588.0	588.0	588.0	586.0	586.0	585.0	584.0	584.0	582.0
	582.0	582.0								
0197	581.0	581.0	581.0	581.0	581.0	580.0	580.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	581.0	581.0	581.0
	582.0	582.0	581.0	581.0	581.0	580.0	580.0	579.0	578.0	575.0
	575.0	575.0								
0198	580.0	580.0	580.0	579.0	579.0	578.0	577.0	577.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	572.0
	571.0	570.0								
0199	579.0	579.0	578.0	578.0	577.0	576.0	575.0	575.0	573.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	571.0	571.0	571.0
	571.0	572.0	572.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
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	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	569.0	569.0	568.0	567.0
	566.0	566.0								
0200	578.0	577.0	577.0	577.0	576.0	575.0	573.0	572.0	570.0	569.0
	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
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	568.0	568.0	568.0	568.0	568.0	568.0	567.0	567.0	567.0	567.0
	567.0	567.0	566.0	566.0	566.0	566.0	567.0	567.0	566.0	566.0
	566.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	564.0	563.0	562.0	561.0
	561.0	560.0								
0201	577.0	576.0	576.0	576.0	575.0	572.0	570.0	568.0	567.0	566.0
	566.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	564.0	564.0	564.0	564.0
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	563.0	562.0	562.0	562.0	562.0	562.0	563.0	563.0	562.0	562.0
	561.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0
	560.0	560.0	560.0	560.0	560.0	560.0	559.0	558.0	555.0	555.0
	555.0	555.0								
0202	576.0	576.0	575.0	575.0	571.0	568.0	566.0	564.0	563.0	563.0
	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0
	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0
	562.0	562.0	562.0	562.0	561.0	561.0	561.0	561.0	560.0	560.0
	561.0	562.0	562.0	561.0	561.0	560.0	559.0	559.0	559.0	559.0
	559.0	558.0	558.0	557.0	557.0	557.0	560.0	559.0	559.0	557.0
	556.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	551.0	549.0
	549.0	549.0								
0203	575.0	575.0	571.0	568.0	566.0	563.0	561.0	560.0	559.0	559.0
	559.0	559.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	557.0	557.0	556.0	556.0
	557.0	560.0	559.0	558.0	557.0	556.0	555.0	555.0	555.0	555.0
	555.0	554.0	553.0	552.0	551.0	550.0	553.0	553.0	553.0	553.0
	552.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	550.0	550.0	550.0	549.0	549.0	548.0	545.0	543.0
	542.0	542.0								
0204	569.0	568.0	565.0	562.0	560.0	558.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	554.0	553.0	552.0	551.0
	550.0	553.0	553.0	553.0	552.0	552.0	551.0	551.0	550.0	550.0
	550.0	549.0	549.0	548.0	547.0	547.0	548.0	548.0	548.0	548.0
	548.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0
	547.0	546.0	546.0	545.0	545.0	544.0	543.0	541.0	539.0	535.0
	535.0	535.0								
0205	563.0	562.0	559.0	555.0	555.0	555.0	552.0	551.0	551.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	549.0	548.0	548.0	547.0
	547.0	547.0	548.0	548.0	547.0	547.0	547.0	546.0	546.0	546.0
	545.0	545.0	544.0	544.0	543.0	543.0	544.0	544.0	544.0	544.0
	544.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	542.0	541.0	540.0	540.0	539.0	538.0	535.0	535.0	531.0
	530.0	529.0								
0206	559.0	558.0	555.0	553.0	551.0	550.0	549.0	547.0	546.0	546.0
	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	544.0	544.0	544.0	543.0
	543.0	543.0	542.0	542.0	543.0	543.0	543.0	542.0	541.0	541.0
	540.0	540.0	540.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
	539.0	538.0	537.0	535.0	535.0	535.0	535.0	530.0	528.0	525.0
	523.0	522.0								
0207	556.0	555.0	552.0	549.0	548.0	546.0	544.0	543.0	541.0	540.0
	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	540.0	540.0	540.0	540.0	540.0	540.0	540.0	539.0	539.0	539.0
	538.0	538.0	537.0	537.0	537.0	540.0	539.0	538.0	537.0	536.0
	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
	535.0	535.0	535.0	530.0	528.0	526.0	525.0	523.0	521.0	519.0
	515.0	515.0								

0208	555.0	551.0	548.0	546.0	544.0	542.0	540.0	538.0	535.0	535.0
	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
	534.0	533.0	532.0	531.0	530.0	532.0	533.0	533.0	532.0	532.0
	531.0	530.0	530.0	530.0	529.0	529.0	529.0	529.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	527.0	527.0	527.0	527.0	527.0
	526.0	526.0	525.0	522.0	520.0	515.0	515.0	515.0	515.0	515.0
	508.0	506.0								
0209	547.0	545.0	543.0	542.0	540.0	538.0	535.0	535.0	531.0	529.0
	529.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	527.0	526.0	525.0	525.0	526.0	527.0	528.0	528.0	527.0
	526.0	526.0	525.0	524.0	524.0	523.0	522.0	522.0	522.0	522.0
	522.0	522.0	521.0	521.0	520.0	520.0	519.0	519.0	520.0	519.0
	518.0	517.0	516.0	515.0	515.0	508.0	506.0	505.0	504.0	502.0
	495.0	495.0								
0210	541.0	540.0	539.0	538.0	535.0	535.0	530.0	527.0	524.0	523.0
	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	521.0
	521.0	521.0	520.0	519.0	519.0	519.0	520.0	525.0	524.0	523.0
	522.0	521.0	520.0	519.0	518.0	517.0	516.0	515.0	515.0	515.0
	515.0	515.0	515.0	514.0	513.0	512.0	511.0	510.0	510.0	509.0
	508.0	507.0	506.0	505.0	502.0	495.0	495.0	495.0	495.0	495.0
	475.0	475.0								
0211	535.0	535.0	535.0	535.0	530.0	527.0	523.0	520.0	515.0	515.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
	515.0	515.0	514.0	513.0	512.0	511.0	510.0	513.0	514.0	513.0
	512.0	511.0	510.0	509.0	508.0	507.0	506.0	505.0	505.0	505.0
	505.0	505.0	505.0	504.0	504.0	503.0	502.0	501.0	500.0	499.0
	498.0	497.0	496.0	495.0	495.0	488.0	485.0	483.0	475.0	475.0
	455.0	455.0								
0212	528.0	528.0	527.0	525.0	522.0	520.0	515.0	515.0	510.0	508.0
	507.0	507.0	506.0	506.0	505.0	505.0	505.0	505.0	505.0	505.0
	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0
	505.0	505.0	505.0	505.0	505.0	505.0	505.0	504.0	504.0	503.0
	503.0	502.0	501.0	501.0	500.0	499.0	500.0	505.0	504.0	503.0
	502.0	501.0	500.0	499.0	498.0	497.0	496.0	495.0	495.0	495.0
	495.0	495.0	495.0	495.0	495.0	494.0	493.0	492.0	491.0	490.0
	487.0	486.0	483.0	475.0	475.0	475.0	475.0	475.0	455.0	455.0
	455.0	455.0								
0213	521.0	521.0	519.0	515.0	515.0	515.0	507.0	505.0	501.0	500.0
	499.0	498.0	497.0	496.0	495.0	495.0	495.0	495.0	495.0	495.0
	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0
	495.0	495.0	495.0	495.0	495.0	495.0	495.0	494.0	493.0	492.0
	491.0	490.0	489.0	488.0	487.0	486.0	485.0	485.0	484.0	483.0
	482.0	481.0	480.0	479.0	478.0	477.0	476.0	475.0	475.0	475.0
	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
	475.0	475.0	475.0	465.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0214	515.0	515.0	515.0	508.0	505.0	503.0	495.0	495.0	490.0	480.0
	479.0	478.0	477.0	476.0	475.0	475.0	475.0	475.0	475.0	475.0
	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
	475.0	475.0	475.0	475.0	475.0	475.0	475.0	474.0	473.0	472.0
	471.0	470.0	469.0	468.0	467.0	466.0	465.0	465.0	464.0	463.0
	462.0	461.0	460.0	459.0	458.0	457.0	456.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	453.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0215	504.0	502.0	495.0	495.0	495.0	495.0	475.0	475.0	473.0	468.0
	465.0	460.0	459.0	458.0	457.0	456.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	454.0	453.0	452.0	456.0	457.0	456.0
	456.0	455.0	455.0	455.0	454.0	454.0	453.0	453.0	453.0	453.0
	452.0	452.0	452.0	452.0	452.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0216	495.0	495.0	487.0	483.0	475.0	475.0	465.0	455.0	455.0	453.0
	452.0	454.0	454.0	454.0	453.0	453.0	453.0	453.0	453.0	453.0
	453.0	452.0	452.0	452.0	452.0	452.0	452.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0217	475.0	475.0	475.0	475.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0218	462.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0219	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0220	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								

0

INITIAL HEAD FOR LAYER 3 WILL BE READ ON UNIT 35 USING FORMAT: (8F9.0)

	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48	49	50
	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70
	71	72	73	74	75	76	77	78	79	80
	81	82								
0 1	754.0	754.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0								
0 2	754.0	752.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0								
0 3	750.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0								
0 4	748.0	747.0	747.0	747.0	747.0	748.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0								
0 5	745.0	745.0	745.0	745.0	745.0	745.0	746.0	746.0	746.0	746.0
	746.0	746.0	746.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0
	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0
	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0
	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0
	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0
	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0
	747.0	747.0	747.0	747.0	748.0	749.0	749.0	749.0	749.0	749.0
	749.0	749.0								
0 6	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	745.0	745.0
	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
	745.0	745.0	745.0	745.0	746.0	746.0	747.0	747.0	747.0	747.0
	747.0	747.0								
0 7	741.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
	741.0	741.0	741.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
	742.0	742.0	742.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	744.0	744.0	744.0	744.0	744.0	745.0
	745.0	745.0								
0 8	738.0	738.0	738.0	738.0	738.0	737.0	737.0	737.0	737.0	737.0
	738.0	739.0	739.0	739.0	740.0	740.0	740.0	740.0	740.0	740.0
	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	742.0	742.0	742.0	742.0	742.0
	742.0	742.0								
0 9	736.0	736.0	736.0	736.0	735.0	734.0	734.0	734.0	734.0	734.0
	736.0	736.0	736.0	737.0	737.0	738.0	738.0	738.0	738.0	738.0
	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0
	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0
	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0
	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0
	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0
	738.0	739.0	739.0	739.0	739.0	739.0	740.0	740.0	740.0	740.0
	740.0	740.0								
0 10	734.0	734.0	734.0	734.0	734.0	733.0	732.0	732.0	732.0	733.0
	734.0	734.0	734.0	734.0	735.0	736.0	737.0	735.0	735.0	735.0
	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0	736.0	736.0	737.0	737.0	738.0	738.0	738.0	738.0
	738.0	738.0								
0 11	732.0	732.0	731.0	731.0	731.0	731.0	730.0	730.0	730.0	730.0
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	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
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	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	735.0	736.0	736.0	736.0	736.0
	736.0	736.0								
0 12	729.0	729.0	729.0	729.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	729.0	729.0	729.0	729.0	729.0	729.0	730.0	730.0
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	731.0	731.0	731.0	731.0	731.0	731.0	731.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0								
0 13	727.0	727.0	727.0	726.0	726.0	726.0	725.0	725.0	725.0	725.0
	725.0	726.0	726.0	726.0	726.0	727.0	727.0	727.0	727.0	727.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0

	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	729.0	729.0	729.0	729.0
	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
	729.0	729.0	729.0	729.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0								
0 14	724.0	724.0	724.0	724.0	724.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	724.0	724.0	724.0	724.0	724.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0
	726.0	726.0	726.0	726.0	726.0	726.0	726.0	727.0	727.0	727.0
	727.0	727.0	727.0	727.0	727.0	727.0	727.0	726.0	726.0	725.0
	725.0	725.0								
0 15	722.0	722.0	722.0	722.0	721.0	721.0	720.0	720.0	720.0	720.0
	720.0	720.0	720.0	721.0	721.0	721.0	721.0	721.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0	724.0
	724.0	724.0	724.0	724.0	724.0	724.0	723.0	722.0	722.0	721.0
	720.0	720.0								
0 16	720.0	720.0	720.0	719.0	719.0	718.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	718.0	718.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	721.0	721.0	719.0	718.0	717.0
	714.0	716.0								
0 17	718.0	718.0	718.0	717.0	716.0	716.0	716.0	714.0	714.0	714.0
	714.0	714.0	714.0	715.0	716.0	717.0	716.0	715.0	716.0	716.0
	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
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	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	717.0	717.0	717.0	718.0	718.0	719.0
	718.0	718.0	718.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	720.0	720.0	720.0	719.0	719.0	718.0	716.0	714.0	714.0
	714.0	714.0								
0 18	717.0	716.0	716.0	715.0	714.0	714.0	713.0	713.0	712.0	712.0
	712.0	712.0	712.0	713.0	713.0	713.0	711.0	712.0	713.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	715.0	716.0	717.0
	715.0	715.0	716.0	716.0	716.0	716.0	716.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	717.0	717.0	716.0	714.0	713.0	713.0
	713.0	713.0								
0 19	715.0	715.0	714.0	714.0	713.0	712.0	711.0	711.0	711.0	711.0
	710.0	710.0	711.0	711.0	711.0	711.0	710.0	710.0	711.0	711.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
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	711.0	712.0	713.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	715.0	716.0	716.0	715.0	715.0	714.0	713.0	712.0	712.0
	711.0	711.0								
0 20	714.0	714.0	712.0	712.0	711.0	710.0	710.0	709.0	709.0	709.0
	709.0	709.0	709.0	709.0	709.0	709.0	708.0	709.0	709.0	709.0
	709.0	709.0	709.0	709.0	710.0	710.0	710.0	710.0	710.0	710.0
	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0
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	713.0	714.0	714.0	714.0	714.0	714.0	712.0	711.0	710.0	710.0
	710.0	710.0								
0 21	711.0	711.0	710.0	710.0	709.0	708.0	708.0	707.0	707.0	707.0
	707.0	707.0	707.0	707.0	707.0	706.0	706.0	707.0	707.0	707.0
	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0
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	710.0	711.0	711.0	711.0	711.0	711.0	710.0	709.0	709.0	708.0
	708.0	708.0								
0 22	709.0	708.0	708.0	707.0	707.0	706.0	706.0	705.0	705.0	705.0
	705.0	705.0	705.0	704.0	704.0	704.0	704.0	705.0	705.0	705.0
	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
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	708.0	708.0	708.0	708.0	708.0	708.0	708.0	707.0	707.0	706.0
	706.0	706.0								
0 23	706.0	706.0	706.0	705.0	705.0	704.0	704.0	703.0	703.0	703.0
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	706.0	706.0	706.0	706.0	706.0	706.0	705.0	705.0	705.0	704.0
	704.0	704.0								
0 24	704.0	704.0	704.0	703.0	703.0	702.0	702.0	701.0	701.0	701.0
	701.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
	700.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
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	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	702.0
	702.0	702.0								
0 25	702.0	702.0	702.0	701.0	700.0	700.0	699.0	699.0	699.0	699.0
	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0
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	699.0	699.0	699.0	699.0	699.0	700.0	700.0	700.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	700.0	700.0
	700.0	700.0								
0 26	700.0	700.0	700.0	699.0	698.0	698.0	697.0	697.0	696.0	696.0
	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0
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	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0
	696.0	696.0								
0 28	697.0	697.0	697.0	696.0	694.0	694.0	694.0	693.0	693.0	693.0
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	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0								
0 29	696.0	696.0	695.0	695.0	694.0	693.0	693.0	692.0	692.0	692.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
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	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
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	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
	692.0	692.0								
0 30	695.0	695.0	695.0	694.0	693.0	692.0	692.0	691.0	691.0	691.0
	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	690.0
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	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	691.0	691.0	691.0	691.0	691.0	690.0	690.0
	691.0	691.0	691.0	690.0	690.0	690.0	690.0	690.0	690.0	689.0
	689.0	689.0								
0 31	695.0	694.0	694.0	693.0	692.0	691.0	691.0	690.0	690.0	690.0
	690.0	690.0	690.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
	689.0	689.0	689.0	689.0	689.0	688.0	688.0	688.0	687.0	687.0
	687.0	687.0								
0 32	694.0	694.0	694.0	692.0	691.0	690.0	690.0	689.0	689.0	689.0
	689.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	687.0	687.0	687.0	687.0	687.0	686.0	686.0	685.0	685.0
	684.0	684.0								
0 33	694.0	694.0	692.0	691.0	690.0	689.0	688.0	688.0	688.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	686.0	686.0
	686.0	686.0	686.0	685.0	685.0	685.0	684.0	684.0	683.0	682.0
	682.0	681.0								
0 34	694.0	694.0	691.0	689.0	688.0	687.0	687.0	687.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	684.0	684.0	683.0	683.0	682.0	682.0	681.0	680.0
	679.0	678.0								
0 35	694.0	690.0	688.0	687.0	686.0	686.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	683.0	683.0	683.0	682.0	682.0	681.0	681.0	680.0	679.0	678.0
	676.0	674.0								
0 36	687.0	685.0	685.0	684.0	684.0	684.0	684.0	684.0	684.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	682.0
	682.0	682.0	681.0	681.0	680.0	680.0	679.0	678.0	677.0	676.0
	674.0	674.0								
0 37	680.0	680.0	681.0	681.0	681.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	681.0	681.0
	681.0	681.0	680.0	680.0	679.0	678.0	678.0	677.0	675.0	674.0
	674.0	674.0								
0 38	674.0	674.0	677.0	678.0	679.0	680.0	680.0	680.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	680.0	680.0	680.0
	680.0	679.0	679.0	678.0	678.0	677.0	676.0	675.0	674.0	674.0
	674.0	674.0								
0 39	671.0	671.0	674.0	676.0	677.0	678.0	678.0	679.0	679.0	679.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	679.0	679.0	679.0	679.0	679.0
	679.0	678.0	678.0	677.0	677.0	676.0	675.0	674.0	674.0	673.0
	673.0	673.0								
0 40	666.0	667.0	670.0	674.0	675.0	676.0	677.0	678.0	678.0	678.0
	678.0	678.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0

	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	677.0	677.0	676.0	676.0	675.0	674.0	674.0	673.0	673.0
	673.0	673.0								
0 41	661.0	662.0	665.0	669.0	674.0	675.0	676.0	676.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	678.0	678.0	678.0	678.0	678.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	676.0	676.0	676.0	675.0	674.0	674.0	673.0	673.0	673.0
	672.0	672.0								
0 42	654.0	654.0	659.0	664.0	669.0	674.0	675.0	675.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	675.0	675.0	675.0	674.0	674.0	673.0	673.0	672.0	672.0
	672.0	672.0								
0 43	652.0	653.0	654.0	659.0	664.0	669.0	674.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	674.0	674.0	674.0	673.0	672.0	672.0	671.0	671.0
	671.0	671.0								
0 44	649.0	650.0	653.0	654.0	659.0	665.0	669.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	673.0	673.0	672.0	672.0	671.0	671.0	671.0	670.0
	670.0	670.0								
0 45	644.0	648.0	652.0	653.0	654.0	661.0	665.0	669.0	670.0	671.0
	671.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	672.0	672.0	672.0	672.0	671.0	671.0	670.0	670.0	670.0	670.0
	669.0	669.0								
0 46	643.0	647.0	651.0	652.0	653.0	659.0	662.0	665.0	667.0	668.0
	669.0	670.0	670.0	670.0	670.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	670.0	670.0	670.0	669.0	669.0	669.0	669.0
	668.0	668.0								
0 47	643.0	644.0	650.0	651.0	653.0	658.0	660.0	663.0	665.0	666.0
	667.0	667.0	668.0	668.0	669.0	669.0	669.0	669.0	669.0	669.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	669.0	669.0	669.0	669.0	668.0	668.0	668.0	668.0	668.0
	668.0	667.0								
0 48	642.0	643.0	649.0	650.0	653.0	656.0	659.0	662.0	662.0	664.0
	665.0	666.0	666.0	667.0	667.0	667.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	668.0	668.0
	668.0	668.0	668.0	668.0	667.0	667.0	667.0	667.0	667.0	667.0
	666.0	666.0								
0 49	642.0	643.0	648.0	649.0	652.0	655.0	657.0	661.0	661.0	662.0
	663.0	664.0	665.0	665.0	666.0	666.0	666.0	666.0	666.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	666.0	666.0	666.0	666.0	666.0	666.0	665.0
	665.0	665.0								
0 50	642.0	642.0	647.0	648.0	652.0	655.0	656.0	660.0	659.0	661.0
	662.0	662.0	663.0	664.0	664.0	664.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	664.0	664.0
	664.0	664.0								
0 51	641.0	642.0	646.0	647.0	651.0	654.0	656.0	659.0	658.0	659.0
	660.0	661.0	662.0	662.0	663.0	663.0	663.0	663.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	663.0	663.0	663.0	663.0
	663.0	663.0								
0 52	641.0	641.0	644.0	647.0	651.0	654.0	655.0	659.0	657.0	658.0
	659.0	660.0	660.0	661.0	661.0	662.0	662.0	662.0	662.0	662.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0	663.0	663.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	663.0	663.0	663.0	663.0
	663.0	663.0	663.0	663.0	662.0	662.0	662.0	662.0	662.0	662.0
	662.0	662.0								
0 53	640.0	641.0	643.0	646.0	650.0	653.0	654.0	658.0	656.0	657.0
	658.0	659.0	659.0	660.0	660.0	660.0	661.0	661.0	661.0	661.0
	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	662.0	662.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
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	661.0	661.0								

0 54	640.0	640.0	643.0	646.0	650.0	653.0	653.0	657.0	656.0	656.0
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	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
	660.0	660.0								
0 55	639.0	640.0	642.0	645.0	649.0	652.0	653.0	656.0	655.0	656.0
	656.0	657.0	657.0	658.0	658.0	658.0	658.0	658.0	659.0	659.0
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	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	658.0
	658.0	658.0								
0 56	639.0	639.0	642.0	645.0	649.0	652.0	653.0	656.0	655.0	655.0
	656.0	656.0	656.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
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	658.0	658.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0								
0 57	638.0	639.0	641.0	644.0	648.0	651.0	654.0	655.0	654.0	655.0
	655.0	655.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
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	657.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0								
0 58	637.0	638.0	641.0	644.0	648.0	651.0	653.0	655.0	654.0	654.0
	654.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
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	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	655.0	654.0	654.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	654.0								
0 59	637.0	638.0	640.0	643.0	647.0	650.0	653.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
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	655.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0								
0 60	636.0	637.0	640.0	643.0	647.0	650.0	652.0	654.0	654.0	654.0
	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
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	654.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
	653.0	653.0								
0 61	636.0	637.0	639.0	643.0	646.0	649.0	652.0	653.0	653.0	653.0
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	653.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
	652.0	652.0								
0 62	635.0	636.0	639.0	642.0	646.0	649.0	651.0	653.0	653.0	652.0
	651.0	651.0	651.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
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	652.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
	651.0	651.0								
0 63	635.0	636.0	638.0	642.0	645.0	648.0	651.0	653.0	653.0	651.0
	650.0	650.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
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	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	650.0								
0 64	634.0	636.0	638.0	642.0	645.0	648.0	650.0	652.0	652.0	650.0
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	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	649.0								
0 65	634.0	635.0	638.0	641.0	644.0	647.0	650.0	652.0	652.0	649.0
	648.0	649.0	649.0	649.0	649.0	650.0	650.0	650.0	650.0	650.0
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	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	648.0								
0 66	633.0	635.0	637.0	641.0	644.0	647.0	649.0	651.0	651.0	649.0
	648.0	648.0	648.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
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	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	648.0								
0 67	633.0	635.0	637.0	641.0	643.0	646.0	649.0	651.0	651.0	648.0
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	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	647.0
	647.0	647.0								
0 68	632.0	634.0	637.0	640.0	642.0	646.0	648.0	650.0	650.0	648.0
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	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	646.0
	646.0	646.0								
0 69	632.0	634.0	636.0	640.0	642.0	645.0	648.0	650.0	650.0	647.0
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	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	645.0	645.0
	645.0	645.0								
0 70	631.0	633.0	636.0	640.0	642.0	645.0	647.0	649.0	649.0	647.0
	646.0	646.0	646.0	646.0	647.0	647.0	647.0	647.0	647.0	647.0
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	643.0	643.0	643.0	643.0	643.0	644.0	644.0	644.0	644.0	644.0
	644.0	645.0								
0 71	631.0	633.0	636.0	639.0	642.0	644.0	647.0	649.0	649.0	646.0
	646.0	645.0	646.0	646.0	646.0	646.0	646.0	647.0	647.0	647.0
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	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	644.0	644.0
	644.0	644.0								
0 72	630.0	632.0	635.0	639.0	642.0	644.0	646.0	648.0	648.0	646.0
	646.0	645.0	645.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
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	642.0	642.0	642.0	642.0	642.0	642.0	643.0	643.0	643.0	643.0
	644.0	644.0								
0 73	630.0	632.0	635.0	638.0	641.0	643.0	646.0	648.0	648.0	646.0
	645.0	645.0	645.0	645.0	645.0	645.0	646.0	646.0	646.0	646.0
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	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	643.0	643.0
	643.0	644.0								
0 74	630.0	632.0	635.0	638.0	641.0	642.0	645.0	647.0	647.0	645.0
	645.0	644.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
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	641.0	641.0	641.0	641.0	641.0	641.0	641.0	642.0	642.0	643.0
	643.0	644.0								
0 75	629.0	631.0	634.0	637.0	640.0	641.0	645.0	647.0	647.0	645.0
	645.0	644.0	644.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
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	640.0	640.0	640.0	640.0	640.0	640.0	641.0	641.0	641.0	642.0
	644.0	644.0								
0 76	629.0	631.0	634.0	637.0	640.0	641.0	645.0	646.0	646.0	645.0
	645.0	644.0	644.0	644.0	644.0	645.0	645.0	645.0	644.0	644.0
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	640.0	640.0	639.0	639.0	639.0	640.0	640.0	640.0	640.0	641.0
	642.0	642.0								
0 77	629.0	631.0	634.0	636.0	639.0	641.0	644.0	646.0	646.0	645.0
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	640.0	640.0	640.0	640.0	640.0	640.0	640.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	640.0
	640.0	640.0								
0 78	628.0	630.0	633.0	636.0	640.0	641.0	644.0	645.0	645.0	644.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	644.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
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	640.0	640.0	640.0	639.0	639.0	639.0	639.0	639.0	639.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	639.0	639.0								
0 79	628.0	630.0	633.0	636.0	640.0	642.0	644.0	645.0	645.0	644.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	643.0	643.0
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	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0								
0 80	628.0	630.0	632.0	636.0	640.0	641.0	643.0	645.0	645.0	644.0
	644.0	644.0	644.0	644.0	644.0	643.0	643.0	643.0	643.0	643.0
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	641.0	641.0	640.0	640.0	640.0	640.0	640.0	639.0	639.0	639.0
	639.0	639.0	639.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0
	637.0	637.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	636.0
	636.0	636.0								
0 81	628.0	630.0	632.0	635.0	640.0	641.0	642.0	644.0	644.0	644.0

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	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	636.0
	636.0	636.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0
	635.0	635.0								
0 82	627.0	629.0	631.0	635.0	639.0	640.0	642.0	644.0	644.0	644.0
	644.0	643.0	643.0	643.0	642.0	642.0	642.0	642.0	642.0	642.0
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	638.0	638.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0
	636.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	635.0								
0 83	627.0	629.0	631.0	635.0	638.0	640.0	641.0	644.0	644.0	643.0
	643.0	643.0	642.0	642.0	642.0	642.0	642.0	642.0	641.0	641.0
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	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0								
0 84	627.0	629.0	631.0	634.0	637.0	639.0	640.0	642.0	643.0	642.0
	642.0	642.0	642.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
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	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0
	634.0	634.0								
0 85	626.0	629.0	630.0	634.0	636.0	638.0	639.0	640.0	642.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	640.0	640.0	640.0
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	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0								
0 86	626.0	629.0	630.0	634.0	636.0	637.0	638.0	639.0	641.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
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	636.0	636.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0								
0 87	626.0	628.0	629.0	633.0	635.0	636.0	637.0	638.0	640.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0
	632.0	632.0								
0 88	625.0	628.0	629.0	633.0	634.0	635.0	636.0	637.0	639.0	639.0
	638.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	635.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0								
0 89	625.0	628.0	629.0	632.0	634.0	635.0	636.0	637.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	636.0
	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	634.0
	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0								
0 90	624.0	628.0	628.0	632.0	633.0	635.0	636.0	636.0	637.0	638.0
	637.0	637.0	637.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0 91	624.0	628.0	628.0	632.0	633.0	635.0	635.0	636.0	636.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
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	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0
	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0
	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0 92	623.0	627.0	628.0	631.0	632.0	635.0	635.0	635.0	636.0	637.0
	636.0	636.0	636.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
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	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0
	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0
	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0
	630.0	630.0								
0 93	623.0	627.0	627.0	631.0	632.0	634.0	635.0	635.0	635.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
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	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0								
0 94	622.0	627.0	627.0	630.0	632.0	634.0	634.0	635.0	635.0	636.0
	635.0	635.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
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	629.0	629.0								
0 95	622.0	626.0	627.0	630.0	631.0	634.0	634.0	634.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
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	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0								
0 96	622.0	626.0	626.0	629.0	631.0	634.0	634.0	634.0	634.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
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	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0								
0 97	622.0	626.0	626.0	629.0	630.0	633.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
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	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0 98	621.0	625.0	626.0	628.0	630.0	633.0	633.0	634.0	634.0	634.0
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	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0 99	621.0	625.0	625.0	628.0	629.0	632.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0
	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0100	621.0	624.0	625.0	627.0	629.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0
	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0101	620.0	624.0	625.0	627.0	628.0	631.0	631.0	631.0	631.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0102	620.0	623.0	624.0	626.0	628.0	630.0	630.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0
	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0
	625.0	625.0								
0103	620.0	622.0	624.0	626.0	627.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0
	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0104	619.0	622.0	624.0	626.0	627.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
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	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0
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	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0								
0105	619.0	621.0	623.0	625.0	626.0	628.0	628.0	628.0	628.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0
	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0								
0106	619.0	621.0	622.0	625.0	626.0	627.0	627.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0107	619.0	620.0	622.0	625.0	625.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0108	618.0	620.0	621.0	624.0	625.0	626.0	626.0	626.0	626.0	626.0
	626.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0

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	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0								
0109	618.0	619.0	621.0	624.0	624.0	625.0	625.0	625.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0
	621.0	621.0								
0110	618.0	619.0	620.0	624.0	624.0	624.0	624.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0
	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0								
0111	618.0	618.0	620.0	623.0	623.0	624.0	624.0	624.0	624.0	624.0
	624.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0
	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0112	617.0	618.0	619.0	622.0	623.0	623.0	623.0	623.0	623.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0
	621.0	621.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0
	619.0	619.0								
0113	617.0	617.0	619.0	621.0	622.0	622.0	622.0	622.0	623.0	623.0
	623.0	623.0	623.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0	620.0
	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0
	618.0	618.0								
0114	617.0	617.0	618.0	621.0	621.0	621.0	622.0	622.0	622.0	622.0
	622.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0
	620.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0								
0115	617.0	617.0	618.0	620.0	620.0	620.0	621.0	621.0	621.0	622.0
	622.0	622.0	622.0	622.0	622.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	619.0
	619.0	619.0	619.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0
	617.0	617.0								
0116	616.0	617.0	617.0	619.0	619.0	620.0	620.0	620.0	621.0	621.0
	621.0	621.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0
	619.0	618.0	618.0	618.0	617.0	617.0	616.0	616.0	616.0	616.0
	616.0	616.0								
0117	616.0	617.0	617.0	618.0	619.0	619.0	620.0	620.0	620.0	620.0
	621.0	621.0	621.0	621.0	621.0	621.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	618.0
	618.0	618.0	617.0	617.0	617.0	616.0	616.0	615.0	614.0	615.0
	615.0	615.0								
0118	616.0	616.0	616.0	618.0	618.0	619.0	619.0	619.0	620.0	620.0
	620.0	620.0	620.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	616.0	616.0	615.0	614.0	614.0	615.0
	615.0	615.0								
0119	616.0	616.0	616.0	617.0	618.0	618.0	618.0	619.0	619.0	619.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0	618.0
	617.0	617.0	617.0	616.0	616.0	615.0	615.0	614.0	614.0	614.0
	615.0	615.0								
0120	615.0	616.0	616.0	617.0	617.0	618.0	618.0	618.0	619.0	619.0
	619.0	619.0	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0	617.0	617.0
	617.0	616.0	616.0	616.0	615.0	615.0	614.0	614.0	614.0	614.0
	614.0	614.0								
0121	615.0	615.0	616.0	616.0	617.0	617.0	618.0	618.0	618.0	618.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	620.0	620.0	620.0
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0122	615.0	615.0	615.0	616.0	616.0	617.0	617.0	617.0	618.0	618.0
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	614.0	614.0								
0123	615.0	615.0	615.0	616.0	616.0	616.0	617.0	617.0	617.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	619.0	619.0	619.0	619.0
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	618.0	618.0	617.0	617.0	617.0	617.0	617.0	617.0	616.0	616.0
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	614.0	614.0								
0124	614.0	614.0	615.0	615.0	616.0	616.0	616.0	617.0	617.0	617.0
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	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	618.0	618.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	617.0	617.0	616.0	616.0	616.0
	616.0	615.0	615.0	615.0	614.0	614.0	614.0	614.0	614.0	614.0
	614.0	614.0								
0125	614.0	614.0	615.0	615.0	615.0	616.0	616.0	616.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	618.0	618.0	618.0	618.0	618.0
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	615.0	615.0	615.0	615.0	614.0	614.0	614.0	614.0	614.0	614.0
	614.0	614.0								
0126	614.0	614.0	614.0	615.0	615.0	615.0	616.0	616.0	616.0	616.0
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	614.0	614.0								
0127	614.0	614.0	614.0	615.0	615.0	615.0	615.0	616.0	616.0	616.0
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0128	614.0	614.0	614.0	614.0	615.0	615.0	615.0	615.0	616.0	616.0
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	614.0	614.0								
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	614.0	614.0								
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	603.0	603.0								
0169	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
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	602.0	602.0								
0170	600.0	600.0	600.0	600.0	600.0	600.0	600.0	601.0	601.0	601.0
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	602.0	602.0								
0171	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
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	602.0	602.0								
0172	599.0	599.0	599.0	599.0	599.0	599.0	600.0	600.0	600.0	600.0
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0173	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
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	601.0	601.0								
0174	598.0	598.0	598.0	598.0	598.0	599.0	599.0	599.0	599.0	599.0
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	601.0	601.0								
0175	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
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0176	597.0	597.0	597.0	597.0	597.0	597.0	598.0	598.0	598.0	598.0
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	600.0	600.0								
0177	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	598.0
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	600.0	600.0								
0178	596.0	596.0	596.0	596.0	596.0	596.0	597.0	597.0	597.0	597.0
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	599.0	599.0								
0179	596.0	595.0	595.0	595.0	596.0	596.0	596.0	596.0	597.0	597.0
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	599.0	599.0								
0180	595.0	595.0	595.0	594.0	595.0	595.0	596.0	596.0	596.0	596.0
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	599.0	599.0								
0181	595.0	595.0	594.0	594.0	595.0	595.0	595.0	596.0	596.0	596.0
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	598.0	598.0								
0182	594.0	594.0	594.0	594.0	594.0	595.0	595.0	595.0	596.0	596.0
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	598.0	598.0								
0183	594.0	594.0	594.0	594.0	594.0	594.0	595.0	595.0	595.0	596.0
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	598.0	598.0								
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0186	593.0	593.0	593.0	593.0	594.0	594.0	594.0	594.0	595.0	595.0
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	595.0	595.0								
0191	589.0	589.0	589.0	590.0	590.0	591.0	592.0	594.0	594.0	594.0
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	595.0	595.0								
0192	588.0	588.0	588.0	588.0	589.0	589.0	590.0	591.0	592.0	594.0
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	595.0	595.0								
0193	586.0	586.0	586.0	587.0	587.0	588.0	588.0	589.0	590.0	592.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	595.0	595.0	595.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0								
0194	585.0	585.0	585.0	585.0	585.0	586.0	586.0	587.0	587.0	588.0
	589.0	590.0	590.0	590.0	590.0	590.0	591.0	592.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0								
0195	583.0	583.0	583.0	583.0	583.0	584.0	584.0	584.0	584.0	585.0
	585.0	586.0	586.0	586.0	586.0	586.0	587.0	587.0	588.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	590.0	591.0	594.0	594.0
	594.0	594.0	594.0	594.0	591.0	590.0	589.0	589.0	588.0	588.0
	588.0	587.0								
0196	582.0	582.0	582.0	582.0	582.0	581.0	581.0	581.0	581.0	581.0
	582.0	582.0	582.0	582.0	582.0	582.0	583.0	583.0	583.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	585.0	586.0	587.0	587.0
	587.0	587.0	587.0	587.0	585.0	585.0	584.0	583.0	583.0	581.0
	581.0	581.0								
0197	580.0	580.0	580.0	580.0	580.0	579.0	579.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	580.0	580.0	580.0
	581.0	581.0	580.0	580.0	580.0	579.0	579.0	578.0	577.0	574.0
	574.0	574.0								
0198	579.0	579.0	579.0	578.0	578.0	577.0	576.0	576.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	571.0
	570.0	569.0								
0199	578.0	578.0	577.0	577.0	576.0	575.0	574.0	574.0	572.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	570.0	570.0	570.0	570.0
	570.0	571.0	571.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	568.0	568.0	567.0	566.0
	565.0	565.0								
0200	577.0	576.0	576.0	576.0	575.0	574.0	572.0	571.0	569.0	568.0
	568.0	568.0	568.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	566.0	566.0	566.0	566.0
	566.0	566.0	565.0	565.0	565.0	565.0	566.0	566.0	565.0	565.0
	565.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	563.0	562.0	561.0	560.0
	560.0	559.0								
0201	576.0	575.0	575.0	575.0	574.0	571.0	569.0	567.0	566.0	565.0
	565.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	563.0	563.0	563.0	563.0
	563.0	564.0	564.0	564.0	563.0	563.0	562.0	562.0	562.0	562.0
	562.0	561.0	561.0	561.0	561.0	561.0	562.0	562.0	561.0	561.0
	560.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0
	559.0	559.0	559.0	559.0	559.0	559.0	558.0	557.0	554.0	554.0
	554.0	554.0								
0202	575.0	575.0	574.0	574.0	570.0	567.0	565.0	563.0	562.0	562.0
	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
	561.0	561.0	561.0	561.0	560.0	560.0	560.0	560.0	559.0	559.0
	560.0	561.0	561.0	560.0	560.0	559.0	558.0	558.0	558.0	558.0
	558.0	557.0	557.0	556.0	556.0	556.0	559.0	558.0	558.0	556.0
	555.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	550.0	548.0
	548.0	548.0								
0203	574.0	574.0	570.0	567.0	565.0	562.0	560.0	559.0	558.0	558.0

	558.0	558.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0
	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0
	557.0	557.0	557.0	557.0	557.0	557.0	556.0	556.0	555.0	555.0
	556.0	559.0	558.0	557.0	556.0	555.0	554.0	554.0	554.0	554.0
	554.0	553.0	552.0	551.0	550.0	549.0	552.0	552.0	552.0	552.0
	551.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	549.0	549.0	549.0	548.0	548.0	547.0	544.0	542.0
	541.0	541.0								
0204	568.0	567.0	564.0	561.0	559.0	557.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	553.0	552.0	551.0	550.0
	549.0	552.0	552.0	552.0	551.0	551.0	550.0	550.0	549.0	549.0
	549.0	548.0	548.0	547.0	546.0	546.0	547.0	547.0	547.0	547.0
	547.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
	546.0	545.0	545.0	544.0	544.0	543.0	542.0	540.0	538.0	534.0
	534.0	534.0								
0205	562.0	561.0	558.0	554.0	554.0	554.0	551.0	550.0	550.0	549.0
	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
	549.0	549.0	549.0	549.0	549.0	549.0	548.0	547.0	547.0	546.0
	546.0	546.0	547.0	547.0	546.0	546.0	546.0	545.0	545.0	545.0
	544.0	544.0	543.0	543.0	542.0	542.0	543.0	543.0	543.0	543.0
	543.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0
	542.0	541.0	540.0	539.0	539.0	538.0	537.0	534.0	534.0	530.0
	529.0	528.0								
0206	558.0	557.0	554.0	552.0	550.0	549.0	548.0	546.0	545.0	545.0
	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	544.0	544.0	544.0	544.0	544.0	544.0	543.0	543.0	543.0	542.0
	542.0	542.0	541.0	541.0	542.0	542.0	542.0	541.0	540.0	540.0
	539.0	539.0	539.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	537.0	536.0	534.0	534.0	534.0	534.0	529.0	527.0	524.0
	522.0	521.0								
0207	555.0	554.0	551.0	548.0	547.0	545.0	543.0	542.0	540.0	539.0
	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
	539.0	539.0	539.0	539.0	539.0	539.0	539.0	538.0	538.0	538.0
	537.0	537.0	536.0	536.0	536.0	539.0	538.0	537.0	536.0	535.0
	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
	534.0	534.0	534.0	529.0	527.0	525.0	524.0	522.0	520.0	518.0
	514.0	514.0								
0208	554.0	550.0	547.0	545.0	543.0	541.0	539.0	537.0	534.0	534.0
	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0	534.0
	533.0	532.0	531.0	530.0	529.0	531.0	532.0	532.0	531.0	531.0
	530.0	529.0	529.0	529.0	528.0	528.0	528.0	528.0	527.0	527.0
	527.0	527.0	527.0	527.0	527.0	526.0	526.0	526.0	526.0	526.0
	525.0	525.0	524.0	521.0	519.0	514.0	514.0	514.0	514.0	514.0
	507.0	505.0								
0209	546.0	544.0	542.0	541.0	539.0	537.0	534.0	534.0	530.0	528.0
	528.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0
	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0
	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0
	527.0	526.0	525.0	524.0	524.0	525.0	526.0	527.0	527.0	526.0
	525.0	525.0	524.0	523.0	523.0	522.0	521.0	521.0	521.0	521.0
	521.0	521.0	520.0	520.0	519.0	519.0	518.0	518.0	519.0	518.0
	517.0	516.0	515.0	514.0	514.0	507.0	505.0	504.0	503.0	501.0
	494.0	494.0								
0210	540.0	539.0	538.0	537.0	534.0	534.0	529.0	526.0	523.0	522.0
	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	520.0
	520.0	520.0	519.0	518.0	518.0	518.0	519.0	524.0	523.0	522.0
	521.0	520.0	519.0	518.0	517.0	516.0	515.0	514.0	514.0	514.0
	514.0	514.0	514.0	513.0	512.0	511.0	510.0	509.0	509.0	508.0
	507.0	506.0	505.0	504.0	501.0	494.0	494.0	494.0	494.0	494.0
	474.0	474.0								
0211	534.0	534.0	534.0	534.0	529.0	526.0	522.0	519.0	514.0	514.0
	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
	514.0	514.0	513.0	512.0	511.0	510.0	509.0	512.0	513.0	512.0
	511.0	510.0	509.0	508.0	507.0	506.0	505.0	504.0	504.0	504.0
	504.0	504.0	504.0	503.0	503.0	502.0	501.0	500.0	499.0	498.0
	497.0	496.0	495.0	494.0	494.0	487.0	484.0	482.0	474.0	474.0
	454.0	454.0								
0212	527.0	527.0	526.0	524.0	521.0	519.0	514.0	514.0	509.0	507.0
	506.0	506.0	505.0	505.0	504.0	504.0	504.0	504.0	504.0	504.0
	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
	504.0	504.0	504.0	504.0	504.0	504.0	504.0	503.0	503.0	502.0
	502.0	501.0	500.0	500.0	499.0	498.0	499.0	504.0	503.0	502.0
	501.0	500.0	499.0	498.0	497.0	496.0	495.0	494.0	494.0	494.0
	494.0	494.0	494.0	494.0	494.0	493.0	492.0	491.0	490.0	489.0
	486.0	485.0	482.0	474.0	474.0	474.0	474.0	474.0	454.0	454.0
	455.0	455.0								
0213	520.0	520.0	518.0	514.0	514.0	514.0	506.0	504.0	500.0	499.0
	498.0	497.0	496.0	495.0	494.0	494.0	494.0	494.0	494.0	494.0
	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
	494.0	494.0	494.0	494.0	494.0	494.0	494.0	493.0	492.0	491.0
	490.0	489.0	488.0	487.0	486.0	485.0	484.0	484.0	483.0	482.0
	481.0	480.0	479.0	478.0	477.0	476.0	475.0	474.0	474.0	474.0
	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0
	474.0	474.0	474.0	464.0	454.0	454.0	454.0	454.0	455.0	455.0
	455.0	455.0								
0214	514.0	514.0	514.0	507.0	504.0	502.0	494.0	494.0	489.0	479.0
	478.0	477.0	476.0	475.0	474.0	474.0	474.0	474.0	474.0	474.0
	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.0
	474.0	474.0	474.0	474.0	474.0	474.0	474.0	473.0	472.0	471.0
	470.0	469.0	468.0	467.0	466.0	465.0	464.0	464.0	463.0	462.0
	461.0	460.0	459.0	458.0	457.0	456.0	455.0	454.0	454.0	454.0
	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0
	454.0	454.0	454.0	454.0	452.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0215	503.0	501.0	494.0	494.0	494.0	494.0	474.0	474.0	472.0	467.0
	464.0	459.0	458.0	457.0	456.0	455.0	454.0	454.0	454.0	454.0
	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0
	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0
	454.0	454.0	454.0	454.0	453.0	452.0	451.0	455.0	456.0	455.0
	455.0	454.0	454.0	454.0	453.0	453.0	452.0	452.0	452.0	452.0
	451.0	451.0	451.0	451.0	451.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0216	494.0	494.0	486.0	482.0	474.0	474.0	464.0	454.0	454.0	452.0
	451.0	453.0	453.0	453.0	452.0	452.0	452.0	452.0	452.0	452.0
	452.0	451.0	451.0	451.0	451.0	451.0	451.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0

```
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0
0217    474.0     474.0     474.0     474.0     454.0     454.0     454.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     456.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0
0218    461.0     454.0     454.0     454.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0
0219    454.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0
0220    455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0     455.0
        455.0     455.0
0HEAD PRINT FORMAT IS FORMAT NUMBER   0    DRAWDOWN PRINT FORMAT IS FORMAT NUMBER   0
0HEADS WILL BE SAVED ON UNIT 42    DRAWDOWNS WILL BE SAVED ON UNIT  0
0OUTPUT CONTROL IS SPECIFIED EVERY TIME STEP
0                                          COLUMN TO ROW ANISOTROPY =   1.000000
0


                                        DELR WILL BE READ ON UNIT 11 USING FORMAT:   (7F10.2)
                                        ----------------------------------------------------

   284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    189.80    126.60
   84.400    56.300    37.500    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    37.500
   56.300    84.400    126.60    189.80    284.80    284.80    284.80    284.80    284.80    284.80
   284.80    284.80
0


                                        DELC WILL BE READ ON UNIT 11 USING FORMAT:   (7F10.2)
                                        ----------------------------------------------------

   284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80
   284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80
   284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80
   284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80
   284.80    284.80    189.80    126.60    84.400    56.300    37.500    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000
   25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    25.000    37.500
   56.300    84.400    126.60    189.80    284.80    284.80    284.80    284.80    284.80    284.80
   284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80
   284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80    284.80
0                                        TRANSMIS. ALONG ROWS =   6.180000      FOR LAYER  1
0                                    VERT HYD COND /THICKNESS =  0.1800000E-02 FOR LAYER  1
0                                        TRANSMIS. ALONG ROWS =   4.050000      FOR LAYER  2
0                                    VERT HYD COND /THICKNESS =  0.3000000E-03 FOR LAYER  2
0                                        TRANSMIS. ALONG ROWS =  0.7600000      FOR LAYER  3
0


                                             SOLUTION BY THE CONJUGATE-GRADIENT METHOD
                                             -----------------------------------------
0                                  MAXIMUM NUMBER OF CALLS TO PCG ROUTINE =        25
                                      MAXIMUM ITERATIONS PER CALL TO PCG =        20
                                             MATRIX PRECONDITIONING TYPE =         1
                          RELAXATION FACTOR (ONLY USED WITH PRECOND. TYPE 1) =     0.10000E+01
                    PARAMETER OF POLYMONIAL PRECOND. = 2 (2) OR IS CALCULATED :         2
                                      HEAD CHANGE CRITERION FOR CLOSURE =     0.10000E-02
                                  RESIDUAL CHANGE CRITERION FOR CLOSURE =     0.10000E+04
                             PCG HEAD AND RESIDUAL CHANGE PRINTOUT INTERVAL =         1
                        PRINTING FROM SOLVER IS LIMITED(1) OR SUPPRESSED (>1) =         1
1                                       STRESS PERIOD NO.   1, LENGTH =   1.000000
                                        -------------------------------------------

                                       NUMBER OF TIME STEPS =      1

                                        MULTIPLIER FOR DELT =      1.000

                                      INITIAL TIME STEP SIZE =   1.000000
0                                                             RECHARGE =  0.1332000E-04
0
   16 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD  1
   284 TOTAL ITERATIONS
0HEAD/DRAWDOWN PRINTOUT FLAG = 1      TOTAL BUDGET PRINTOUT FLAG = 1      CELL-BY-CELL FLOW TERM FLAG = 1
0OUTPUT FLAGS FOR EACH LAYER:
        HEAD     DRAWDOWN  HEAD  DRAWDOWN
 LAYER  PRINTOUT  PRINTOUT  SAVE    SAVE
 ------------------------------------
```

```
    1       1         0       1       0
    2       1         0       1       0
    3       1         0       1       0
 *   CONSTANT HEAD* BUDGET VALUES WILL BE SAVED ON UNIT 41 AT END OF TIME STEP  1, STRESS PERIOD  1
 *FLOW RIGHT FACE * BUDGET VALUES WILL BE SAVED ON UNIT 41 AT END OF TIME STEP  1, STRESS PERIOD  1
 *FLOW FRONT FACE * BUDGET VALUES WILL BE SAVED ON UNIT 41 AT END OF TIME STEP  1, STRESS PERIOD  1
 *FLOW LOWER FACE * BUDGET VALUES WILL BE SAVED ON UNIT 41 AT END OF TIME STEP  1, STRESS PERIOD  1
 *        RECHARGE* BUDGET VALUES WILL BE SAVED ON UNIT 41 AT END OF TIME STEP  1, STRESS PERIOD  1

 HEADS AND FLOW TERMS SAVED ON UNIT 60 FOR USE BY MT3D TRANSPORT MODEL
1                HEAD IN LAYER  1 AT END OF TIME STEP  1 IN STRESS PERIOD  1
                 ------------------------------------------------------------

                  1         2         3         4         5         6         7         8         9        10
                 11        12        13        14        15        16        17        18        19        20
                 21        22        23        24        25        26        27        28        29        30
                 31        32        33        34        35        36        37        38        39        40
                 41        42        43        44        45        46        47        48        49        50
                 51        52        53        54        55        56        57        58        59        60
                 61        62        63        64        65        66        67        68        69        70
                 71        72        73        74        75        76        77        78        79        80
                 81        82

 ....................................................................................................................
0  1    1000.     738.6     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.
0  2     738.5     738.5     738.5     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.
0  3     738.4     738.4     738.3     738.2     738.1     738.0     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.     1000.
          1000.     1000.
0  4     738.2     738.2     738.2     738.1     738.0     737.9     737.7     737.6     737.5     737.4
          737.4     737.4     737.3     737.3     737.3     737.3     737.3     737.3     737.3     737.3
          737.3     737.3     737.3     737.3     737.2     737.2     737.2     737.2     737.2     737.2
          737.2     737.2     737.2     737.2     737.2     737.2     737.2     737.2     737.2     737.1
          737.1     737.1     737.1     737.1     737.1     737.1     737.1     737.1     737.1     737.1
          737.1     737.1     737.1     737.1     737.1     737.0     737.0     737.0     737.0     737.0
          737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0
          736.9     736.9     736.9     736.9     736.8     1000.     1000.     1000.     1000.     1000.
          1000.     1000.
0  5     738.0     738.0     737.9     737.8     737.8     737.7     737.5     737.4     737.4     737.3
          737.3     737.2     737.2     737.2     737.2     737.2     737.2     737.2     737.2     737.2
          737.2     737.2     737.2     737.2     737.1     737.1     737.1     737.1     737.1     737.1
          737.1     737.1     737.1     737.1     737.1     737.1     737.1     737.1     737.1     737.0
          737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0
          737.0     737.0     737.0     737.0     737.0     736.9     736.9     736.9     736.9     736.9
          736.9     736.9     736.9     736.9     736.9     736.9     736.9     736.9     736.9     736.9
          736.8     736.8     736.8     736.8     736.7     736.5     736.4     736.4     736.3     736.3
          736.3     736.2
0  6     737.6     737.6     737.6     737.5     737.5     737.4     737.3     737.2     737.1     737.1
          737.1     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0
          737.0     737.0     737.0     736.9     736.9     736.9     736.9     736.9     736.9     736.9
          736.9     736.9     736.9     736.9     736.9     736.9     736.9     736.9     736.9     736.8
          736.8     736.8     736.8     736.8     736.8     736.8     736.8     736.8     736.8     736.8
          736.8     736.8     736.8     736.8     736.8     736.7     736.7     736.7     736.7     736.7
          736.7     736.7     736.7     736.7     736.7     736.7     736.7     736.7     736.7     736.7
          736.6     736.6     736.6     736.6     736.5     736.4     736.3     736.3     736.2     736.2
          736.1     736.1
0  7     737.2     737.2     737.2     737.1     737.1     737.0     736.9     736.9     736.8     736.8
          736.7     736.7     736.7     736.7     736.7     736.7     736.7     736.7     736.7     736.7
          736.7     736.6     736.6     736.6     736.6     736.6     736.6     736.6     736.6     736.6
          736.6     736.6     736.6     736.6     736.6     736.6     736.6     736.6     736.5     736.5
          736.5     736.5     736.5     736.5     736.5     736.5     736.5     736.5     736.5     736.5
          736.5     736.5     736.5     736.5     736.5     736.4     736.4     736.4     736.4     736.4
          736.4     736.4     736.4     736.4     736.4     736.4     736.4     736.4     736.4     736.4
          736.4     736.3     736.3     736.2     736.1     736.1     736.0     736.0     735.9
          735.9     735.9
0  8     736.7     736.7     736.7     736.7     736.6     736.6     736.5     736.4     736.4     736.3
          736.3     736.3     736.3     736.3     736.3     736.3     736.3     736.3     736.3     736.2
          736.2     736.2     736.2     736.2     736.2     736.2     736.2     736.2     736.2     736.2
          736.2     736.2     736.2     736.2     736.2     736.2     736.2     736.1     736.1     736.1
          736.1     736.1     736.1     736.1     736.1     736.1     736.1     736.1     736.1     736.1
          736.1     736.1     736.1     736.1     736.1     736.1     736.0     736.0     736.0     736.0
          736.0     736.0     736.0     736.0     736.0     736.0     736.0     736.0     736.0     736.0
          736.0     736.0     735.9     735.9     735.8     735.8     735.7     735.7     735.6     735.6
          735.6     735.6
0  9     736.2     736.1     736.1     736.1     736.1     736.0     736.0     735.9     735.9     735.8
          735.8     735.8     735.8     735.8     735.8     735.8     735.8     735.7     735.7     735.7
          735.7     735.7     735.7     735.7     735.7     735.7     735.7     735.7     735.7     735.7
          735.7     735.7     735.7     735.7     735.7     735.7     735.7     735.6     735.6     735.6
          735.6     735.6     735.6     735.6     735.6     735.6     735.6     735.6     735.6     735.6
          735.6     735.6     735.6     735.6     735.6     735.6     735.6     735.5     735.5     735.5
          735.5     735.5     735.5     735.5     735.5     735.5     735.5     735.5     735.5     735.5
          735.5     735.5     735.4     735.4     735.4     735.3     735.3     735.2     735.2     735.2
          735.2     735.2
0 10     735.5     735.5     735.5     735.4     735.4     735.4     735.3     735.3     735.2     735.2
          735.2     735.2     735.2     735.2     735.1     735.1     735.1     735.1     735.1     735.1
          735.1     735.1     735.1     735.1     735.1     735.1     735.1     735.1     735.1     735.1
          735.1     735.1     735.1     735.1     735.1     735.1     735.1     735.0     735.0     735.0
          735.0     735.0     735.0     735.0     735.0     735.0     735.0     735.0     735.0     735.0
          735.0     735.0     735.0     735.0     735.0     735.0     735.0     735.0     735.0     734.9
          734.9     734.9     734.9     734.9     734.9     734.9     734.9     734.9     734.9     734.9
          734.9     734.9     734.9     734.8     734.8     734.8     734.7     734.7     734.7     734.6
          734.6     734.6
0 11     734.7     734.7     734.7     734.7     734.7     734.6     734.6     734.5     734.5     734.5
          734.5     734.5     734.4     734.4     734.4     734.4     734.4     734.4     734.4     734.4
          734.4     734.4     734.4     734.4     734.4     734.4     734.4     734.4     734.4     734.4
          734.4     734.4     734.4     734.4     734.4     734.4     734.4     734.3     734.3     734.3
          734.3     734.3     734.3     734.3     734.3     734.3     734.3     734.3     734.3     734.3
          734.3     734.3     734.3     734.3     734.3     734.3     734.3     734.3     734.3     734.3
          734.3     734.3     734.3     734.2     734.2     734.2     734.2     734.2     734.2     734.2
          734.2     734.2     734.2     734.2     734.1     734.1     734.1     734.0     734.0     734.0
          734.0     734.0
```

0 12	733.9	733.9	733.9	733.8	733.8	733.8	733.8	733.7	733.7	733.7
	733.7	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
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	733.5	733.5	733.5	733.5	733.5	733.4	733.4	733.4	733.4	733.4
	733.4	733.4	733.4	733.4	733.4	733.3	733.3	733.3	733.2	733.2
	733.2	733.2								
0 13	732.9	732.9	732.9	732.9	732.9	732.9	732.8	732.8	732.8	732.8
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	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7
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0 14	731.9	731.9	731.9	731.9	731.9	731.8	731.8	731.8	731.8	731.8
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	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
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0 15	730.8	730.8	730.8	730.8	730.7	730.7	730.7	730.7	730.7	730.6
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	730.6	730.6	730.6	730.5	730.5	730.5	730.5	730.5	730.5	730.5
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0 16	729.6	729.6	729.6	729.5	729.5	729.5	729.5	729.5	729.5	729.4
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	729.2	729.2								
0 17	728.3	728.3	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.1
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	728.0	728.0	728.0	728.0	728.0	728.0	727.9	727.9	727.9	727.9
	727.9	727.9								
0 18	726.8	726.8	726.8	726.8	726.8	726.8	726.8	726.8	726.8	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
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	726.5	726.5								
0 19	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3
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	725.1	725.1								
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	723.5	723.5								
0 21	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	721.9	721.9	721.9	721.9	721.9	721.9
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	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
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0 22	720.3	720.3	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
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	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.0
	720.0	720.0								
0 23	718.4	718.4	718.4	718.4	718.3	718.3	718.3	718.3	718.3	718.3
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	718.2	718.2								
0 24	716.4	716.4	716.4	716.4	716.4	716.4	716.3	716.3	716.3	716.3
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	716.2	716.2								
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	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0								
0 27	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
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0 29	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
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0 30	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
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	696.8	696.8								
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	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0								
0 34	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.1	691.1
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	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
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	691.0	691.0								
0 35	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
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	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
	688.1	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	687.9
	687.9	687.9								
0 36	685.0	685.0	685.0	685.0	685.0	685.0	685.0	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.8	684.8	684.8
	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8
	684.8	684.8								
0 37	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7
	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7
	681.7	681.7	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.5	681.5	681.5	681.5
	681.5	681.5								
0 38	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.3	678.3	678.3
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	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.1
	678.1	678.1								
0 39	675.0	675.0	675.0	674.9	674.9	674.9	674.9	674.9	674.9	674.9

	674.9	674.9	674.9	674.9	674.9	674.9	674.9	674.9	674.9	674.9
	674.9	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.7	674.7	674.7	674.7	674.7	674.7	674.7
	674.7	674.7								
0 40	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
	671.2	671.2	671.2	671.2	671.2	671.2	671.1	671.1	671.1	671.1
	671.1	671.1								
0 41	667.8	667.8	667.8	667.8	667.8	667.8	667.7	667.7	667.7	667.7
	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7
	667.7	667.7	667.7	667.7	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.4
	667.4	667.4								
0 42	664.1	664.1	664.1	664.1	664.0	664.0	664.0	664.0	664.0	664.0
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.8
	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8
	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8
	663.8	663.8	663.8	663.8	663.8	663.7	663.7	663.7	663.7	663.7
	663.7	663.7								
0 43	660.9	660.9	660.9	660.9	660.9	660.8	660.8	660.8	660.8	660.8
	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7
	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7
	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7
	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.6	660.6	660.6
	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6
	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6
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	660.4	660.4								
0 44	658.7	658.7	658.7	658.7	658.7	658.7	658.7	658.6	658.6	658.6
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	658.5	658.5	658.5	658.5	658.5	658.5	658.4	658.4	658.4	658.4
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	658.4	658.4	658.4	658.4	658.4	658.3	658.3	658.3	658.3	658.3
	658.3	658.2								
0 45	657.3	657.3	657.3	657.3	657.2	657.2	657.2	657.2	657.1	657.1
	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1
	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1
	657.1	657.1	657.1	657.0	657.0	657.0	657.0	657.0	657.0	657.0
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	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
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	656.9	656.9	656.9	656.9	656.9	656.9	656.8	656.8	656.8	656.8
	656.8	656.8								
0 46	656.3	656.3	656.3	656.3	656.3	656.2	656.2	656.2	656.2	656.1
	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	655.9	655.9	655.9	655.9	655.9	655.8	655.8	655.8	655.8
	655.8	655.8								
0 47	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.5	655.5	655.5
	655.5	655.5	655.5	655.5	655.5	655.5	655.5	655.5	655.4	655.4
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	655.3	655.3	655.3	655.3	655.2	655.2	655.2	655.2	655.1	655.1
	655.1	655.1								
0 48	655.2	655.2	655.2	655.2	655.2	655.1	655.1	655.1	655.1	655.1
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	654.9	654.8	654.8	654.8	654.8	654.8	654.7	654.7	654.7	654.7
	654.7	654.7								
0 49	654.9	654.9	654.8	654.8	654.8	654.8	654.8	654.7	654.7	654.7
	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7
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	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
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	654.5	654.5	654.5	654.5	654.4	654.4	654.4	654.4	654.3	654.3
	654.3	654.3								
0 50	654.5	654.5	654.5	654.5	654.5	654.4	654.4	654.4	654.4	654.3
	654.3	654.3	654.3	654.3	654.3	654.3	654.3	654.3	654.3	654.3
	654.3	654.3	654.3	654.3	654.3	654.3	654.3	654.3	654.3	654.3
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0 51	654.2	654.1	654.1	654.1	654.1	654.1	654.1	654.0	654.0	654.0
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	653.8	653.8	653.8	653.7	653.7	653.7	653.7	653.6	653.6	653.6
	653.6	653.6								
0 52	653.8	653.8	653.8	653.8	653.8	653.7	653.7	653.7	653.7	653.6
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0 53	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.3	653.3	653.3
	653.3	653.3	653.3	653.3	653.3	653.2	653.2	653.2	653.2	653.2
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	653.1	653.1	653.0	653.0	653.0	653.0	653.0	652.9	652.9	652.9
	652.9	652.9								
0 54	653.1	653.1	653.1	653.1	653.0	653.0	653.0	653.0	652.9	652.9
	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9
	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.8
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	652.7	652.7	652.7	652.7	652.6	652.6	652.6	652.6	652.5	652.5
	652.5	652.5								
0 55	652.7	652.7	652.7	652.7	652.7	652.7	652.6	652.6	652.6	652.6
	652.6	652.6	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5
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	652.5	652.5	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
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	652.4	652.3	652.3	652.3	652.3	652.3	652.2	652.2	652.2	652.2
	652.2	652.2								
0 56	652.4	652.4	652.4	652.4	652.3	652.3	652.3	652.3	652.2	652.2
	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
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	652.0	652.0	652.0	652.0	651.9	651.9	651.9	651.8	651.8	651.8
	651.8	651.8								
0 57	652.0	652.0	652.0	652.0	652.0	652.0	651.9	651.9	651.9	651.9
	651.8	651.8	651.8	651.8	651.8	651.8	651.8	651.8	651.8	651.8
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0 58	651.7	651.7	651.7	651.6	651.6	651.6	651.6	651.5	651.5	651.5
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0 60	651.0	650.9	650.9	650.9	650.9	650.9	650.9	650.8	650.8	650.8
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0 61	650.6	650.6	650.6	650.6	650.5	650.5	650.5	650.5	650.4	650.4
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0 62	650.2	650.2	650.2	650.2	650.2	650.2	650.1	650.1	650.1	650.1
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0 63	649.9	649.9	649.9	649.8	649.8	649.8	649.8	649.7	649.7	649.7
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0 65	649.2	649.1	649.1	649.1	649.1	649.1	649.0	649.0	649.0	649.0
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0 69	647.7	647.7	647.7	647.7	647.6	647.6	647.6	647.6	647.5	647.5
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0 70	647.3	647.3	647.3	647.3	647.3	647.3	647.2	647.2	647.2	647.1
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0 72	646.6	646.6	646.6	646.6	646.5	646.5	646.5	646.5	646.4	646.4
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0 79	644.0	644.0	644.0	644.0	643.9	643.9	643.9	643.8	643.8	643.8
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	643.1	643.1	643.1	643.1	643.0	643.0	643.0	642.9	642.9	642.9
	642.9	642.9								
0 81	643.3	643.3	643.2	643.2	643.2	643.2	643.1	643.1	643.1	643.0
	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
	643.0	643.0	643.0	643.0	643.0	642.9	642.9	642.9	642.9	642.9
	642.9	642.9	642.9	642.9	642.9	642.9	642.9	642.9	642.9	642.9
	642.9	642.9	642.9	642.9	642.9	642.9	642.9	642.9	642.8	642.8
	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8
	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8
	642.7	642.7	642.7	642.7	642.7	642.6	642.6	642.6	642.5	642.5
	642.5	642.5								
0 82	642.9	642.9	642.9	642.9	642.8	642.8	642.8	642.7	642.7	642.7
	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6
	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6
	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5
	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5
	642.5	642.5	642.5	642.4	642.4	642.4	642.4	642.4	642.4	642.4
	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4
	642.4	642.4	642.3	642.3	642.3	642.2	642.2	642.2	642.1	642.1
	642.1	642.1								
0 83	642.5	642.5	642.5	642.5	642.5	642.4	642.4	642.3	642.3	642.3
	642.3	642.3	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2
	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2
	642.2	642.2	642.2	642.2	642.2	642.1	642.1	642.1	642.1	642.1
	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1
	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.0	642.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	641.9	641.9	641.9	641.8	641.8	641.8	641.7
	641.7	641.7								
0 84	642.1	642.1	642.1	642.1	642.1	642.0	642.0	642.0	641.9	641.9
	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.8	641.8	641.8
	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8
	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8
	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
	641.7	641.7	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6
	641.6	641.6	641.6	641.6	641.5	641.5	641.4	641.4	641.4	641.4
	641.3	641.3								
0 85	641.8	641.8	641.7	641.7	641.7	641.7	641.6	641.6	641.6	641.5
	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
	641.5	641.5	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4
	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4
	641.4	641.4	641.4	641.4	641.3	641.3	641.3	641.3	641.3	641.3
	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3
	641.3	641.3	641.3	641.3	641.3	641.3	641.2	641.2	641.2	641.2
	641.2	641.2	641.2	641.2	641.1	641.1	641.1	641.0	641.0	641.0
	641.0	641.0								
0 86	641.4	641.4	641.4	641.3	641.3	641.3	641.3	641.2	641.2	641.1
	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1
	641.1	641.1	641.1	641.1	641.1	641.1	641.0	641.0	641.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	640.9	640.9
	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
	640.8	640.8	640.8	640.8	640.7	640.7	640.7	640.6	640.6	640.6
	640.6	640.6								
0 87	641.0	641.0	641.0	641.0	640.9	640.9	640.9	640.8	640.8	640.8
	640.8	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7
	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7
	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6
	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6
	640.6	640.6	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
	640.5	640.4	640.4	640.4	640.4	640.3	640.3	640.3	640.2	640.2
	640.2	640.2								
0 88	640.6	640.6	640.6	640.6	640.6	640.5	640.5	640.5	640.4	640.4
	640.4	640.4	640.3	640.3	640.3	640.3	640.3	640.3	640.3	640.3
	640.3	640.3	640.3	640.3	640.3	640.3	640.3	640.3	640.3	640.3
	640.3	640.3	640.3	640.3	640.2	640.2	640.2	640.2	640.2	640.2
	640.2	640.2	640.2	640.2	640.2	640.2	640.2	640.2	640.2	640.2
	640.2	640.2	640.2	640.2	640.2	640.1	640.1	640.1	640.1	640.1
	640.1	640.1	640.1	640.1	640.1	640.1	640.1	640.1	640.1	640.1
	640.1	640.1	640.0	640.0	640.0	639.9	639.9	639.9	639.8	639.8
	639.8	639.8								
0 89	640.2	640.2	640.2	640.2	640.2	640.2	640.1	640.1	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	639.9	639.9	639.9	639.9
	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9
	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.8	639.8	639.8
	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8
	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.7	639.7
	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
	639.7	639.7	639.7	639.6	639.6	639.5	639.5	639.5	639.4	639.4
	639.4	639.4								
0 90	639.9	639.9	639.8	639.8	639.8	639.8	639.7	639.7	639.7	639.6
	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6
	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5
	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5
	639.5	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4
	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4
	639.4	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3
	639.3	639.3	639.3	639.2	639.2	639.2	639.1	639.1	639.1	639.0
	639.0	639.0								
0 91	639.5	639.5	639.5	639.4	639.4	639.4	639.3	639.3	639.3	639.2
	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2
	639.2	639.2	639.2	639.1	639.1	639.1	639.1	639.1	639.1	639.1
	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
	639.1	639.1	639.1	639.1	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	638.9	638.9	638.9	638.9	638.9	638.9
	638.9	638.9	638.9	638.9	638.8	638.8	638.7	638.7	638.7	638.6
	638.6	638.6								
0 92	639.1	639.1	639.1	639.1	639.0	639.0	639.0	638.9	638.9	638.9
	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
	638.8	638.8	638.8	638.8	638.8	638.8	638.7	638.7	638.7	638.7
	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.6	638.6	638.6
	638.6	638.6	638.6	638.6	638.6	638.6	638.6	638.6	638.6	638.6
	638.6	638.6	638.6	638.6	638.6	638.6	638.6	638.5	638.5	638.5
	638.5	638.5	638.5	638.5	638.4	638.4	638.3	638.3	638.3	638.3
	638.2	638.2								
0 93	638.7	638.7	638.7	638.7	638.7	638.6	638.6	638.5	638.5	638.5
	638.5	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4
	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.3

	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3
	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.2
	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.1
	638.1	638.1	638.1	638.1	638.0	638.0	638.0	637.9	637.9	637.9
	637.9	637.8								
0 94	638.3	638.3	638.3	638.3	638.3	638.2	638.2	638.2	638.1	638.1
	638.1	638.1	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9
	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9
	637.9	637.9	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
	637.8	637.7	637.7	637.7	637.6	637.6	637.6	637.5	637.5	637.5
	637.5	637.5								
0 95	638.0	638.0	637.9	637.9	637.9	637.9	637.8	637.8	637.7	637.7
	637.7	637.7	637.7	637.7	637.6	637.6	637.6	637.6	637.6	637.6
	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6
	637.6	637.6	637.6	637.6	637.5	637.5	637.5	637.5	637.5	637.5
	637.5	637.5	637.5	637.5	637.5	637.5	637.5	637.5	637.5	637.5
	637.5	637.5	637.5	637.5	637.4	637.4	637.4	637.4	637.4	637.4
	637.4	637.4	637.4	637.4	637.4	637.4	637.4	637.4	637.4	637.4
	637.4	637.3	637.3	637.3	637.3	637.2	637.2	637.1	637.1	637.1
	637.1	637.1								
0 96	637.6	637.6	637.6	637.5	637.5	637.5	637.4	637.4	637.3	637.3
	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.2	637.2	637.2
	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2
	637.2	637.2	637.2	637.2	637.2	637.2	637.1	637.1	637.1	637.1
	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1
	637.1	637.1	637.1	637.1	637.1	637.1	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	636.9	636.9	636.9	636.8	636.8	636.7	636.7	636.7
	636.7	636.7								
0 97	637.2	637.2	637.2	637.1	637.1	637.1	637.0	637.0	637.0	636.9
	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.8
	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.7	636.7
	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7
	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.6	636.6
	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
	636.6	636.6	636.5	636.5	636.5	636.4	636.4	636.3	636.3	636.3
	636.3	636.3								
0 98	636.8	636.8	636.8	636.8	636.7	636.7	636.7	636.6	636.6	636.5
	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
	636.5	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4
	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4
	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.2
	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2
	636.2	636.2	636.2	636.1	636.1	636.0	636.0	636.0	635.9	635.9
	635.9	635.9								
0 99	636.4	636.4	636.4	636.4	636.3	636.3	636.3	636.2	636.2	636.1
	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1
	636.1	636.1	636.1	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
	635.9	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8
	635.8	635.8	635.8	635.7	635.7	635.6	635.6	635.6	635.5	635.5
	635.5	635.5								
0100	636.0	636.0	636.0	636.0	636.0	635.9	635.9	635.8	635.8	635.8
	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7
	635.7	635.7	635.7	635.7	635.7	635.6	635.6	635.6	635.6	635.6
	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6
	635.6	635.6	635.6	635.5	635.5	635.5	635.5	635.5	635.5	635.5
	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5
	635.5	635.5	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4
	635.4	635.4	635.4	635.3	635.3	635.2	635.2	635.2	635.1	635.1
	635.1	635.1								
0101	635.6	635.6	635.6	635.6	635.6	635.5	635.5	635.4	635.4	635.4
	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3
	635.3	635.3	635.3	635.3	635.3	635.3	635.2	635.2	635.2	635.2
	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2
	635.2	635.2	635.2	635.2	635.2	635.1	635.1	635.1	635.1	635.1
	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1
	635.1	635.1	635.1	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	634.9	634.9	634.8	634.8	634.8	634.7	634.7
	634.7	634.7								
0102	635.3	635.2	635.2	635.2	635.2	635.1	635.1	635.1	635.0	635.0
	635.0	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9
	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.8	634.8
	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
	634.8	634.8	634.8	634.8	634.8	634.8	634.7	634.7	634.7	634.7
	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
	634.7	634.7	634.7	634.7	634.6	634.6	634.6	634.6	634.6	634.6
	634.6	634.6	634.6	634.5	634.5	634.4	634.4	634.4	634.3	634.3
	634.3	634.3								
0103	634.9	634.9	634.8	634.8	634.8	634.8	634.7	634.7	634.6	634.6
	634.6	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5
	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.4
	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4
	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.3	634.3	634.3
	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3
	634.3	634.3	634.3	634.3	634.3	634.2	634.2	634.2	634.2	634.2
	634.2	634.2	634.2	634.1	634.1	634.0	634.0	634.0	633.9	633.9
	633.9	633.9								
0104	634.5	634.5	634.5	634.4	634.4	634.4	634.3	634.3	634.2	634.2
	634.2	634.2	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1
	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.9	633.9
	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9
	633.9	633.9	633.9	633.9	633.9	633.9	633.8	633.8	633.8	633.8
	633.8	633.8	633.8	633.7	633.7	633.7	633.6	633.6	633.5	633.5
	633.5	633.5								
0105	634.1	634.1	634.1	634.0	634.0	634.0	633.9	633.9	633.8	633.8
	633.8	633.8	633.8	633.7	633.7	633.7	633.7	633.7	633.7	633.7
	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7
	633.7	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6
	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.5	633.5
	633.5	633.5	633.5	633.5	633.5	633.5	633.5	633.5	633.5	633.5
	633.5	633.5	633.5	633.5	633.5	633.5	633.4	633.4	633.4	633.4
	633.4	633.4	633.4	633.3	633.3	633.3	633.2	633.2	633.1	633.1
	633.1	633.1								
0106	633.7	633.7	633.7	633.6	633.6	633.6	633.5	633.5	633.4	633.4
	633.4	633.4	633.4	633.4	633.3	633.3	633.3	633.3	633.3	633.3
	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3
	633.3	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2
	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.1
	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1
	633.1	633.1	633.1	633.1	633.1	633.1	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	632.9	632.9	632.8	632.8	632.7	632.7

	632.7	632.7								
0107	633.3	633.3	633.3	633.3	633.2	633.2	633.1	633.1	633.0	633.0
	633.0	633.0	633.0	633.0	632.9	632.9	632.9	632.9	632.9	632.9
	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9
	632.9	632.9	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8
	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.7
	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.6	632.6	632.6
	632.6	632.6	632.6	632.6	632.5	632.4	632.4	632.4	632.3	632.3
	632.3	632.3								
0108	632.9	632.9	632.9	632.9	632.8	632.8	632.7	632.7	632.6	632.6
	632.6	632.6	632.6	632.6	632.6	632.5	632.5	632.5	632.5	632.5
	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
	632.5	632.5	632.5	632.4	632.4	632.4	632.4	632.4	632.4	632.4
	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4
	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3
	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.2	632.2	632.2
	632.2	632.2	632.2	632.1	632.1	632.0	632.0	632.0	631.9	631.9
	631.9	631.9								
0109	632.5	632.5	632.5	632.5	632.4	632.4	632.4	632.3	632.3	632.2
	632.2	632.2	632.2	632.2	632.2	632.2	632.1	632.1	632.1	632.1
	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1
	632.1	632.1	632.1	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9
	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.8	631.8	631.8
	631.8	631.8	631.8	631.7	631.7	631.6	631.6	631.6	631.5	631.5
	631.5	631.5								
0110	632.1	632.1	632.1	632.1	632.0	632.0	632.0	631.9	631.9	631.8
	631.8	631.8	631.8	631.8	631.8	631.8	631.7	631.7	631.7	631.7
	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
	631.7	631.7	631.7	631.6	631.6	631.6	631.6	631.6	631.6	631.6
	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6
	631.5	631.5	631.5	631.5	631.5	631.5	631.5	631.5	631.5	631.5
	631.5	631.5	631.5	631.5	631.5	631.5	631.4	631.4	631.4	631.4
	631.4	631.4	631.4	631.3	631.3	631.2	631.2	631.2	631.1	631.1
	631.1	631.1								
0111	631.7	631.7	631.7	631.7	631.6	631.6	631.6	631.5	631.5	631.4
	631.4	631.4	631.4	631.4	631.4	631.4	631.3	631.3	631.3	631.3
	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3
	631.3	631.3	631.3	631.2	631.2	631.2	631.2	631.2	631.2	631.2
	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.1
	631.1	631.1	631.1	631.1	631.1	631.1	631.1	631.1	631.1	631.1
	631.1	631.1	631.1	631.1	631.1	631.1	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	630.9	630.9	630.8	630.8	630.7	630.7	630.7
	630.7	630.7								
0112	631.3	631.3	631.3	631.3	631.3	631.2	631.2	631.1	631.1	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	630.9	630.9	630.9	630.9
	630.9	630.9	630.9	630.9	630.9	630.9	630.9	630.9	630.9	630.9
	630.9	630.9	630.9	630.8	630.8	630.8	630.8	630.8	630.8	630.8
	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.7
	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
	630.7	630.7	630.7	630.7	630.7	630.7	630.6	630.6	630.6	630.6
	630.6	630.6	630.6	630.5	630.5	630.4	630.4	630.3	630.3	630.3
	630.3	630.2								
0113	630.9	630.9	630.9	630.9	630.9	630.8	630.8	630.7	630.7	630.6
	630.6	630.6	630.6	630.6	630.6	630.6	630.5	630.5	630.5	630.5
	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5
	630.5	630.5	630.5	630.4	630.4	630.4	630.4	630.4	630.4	630.4
	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.3
	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3
	630.3	630.3	630.3	630.3	630.3	630.2	630.2	630.2	630.2	630.2
	630.2	630.2	630.2	630.1	630.1	630.0	630.0	629.9	629.9	629.9
	629.9	629.8								
0114	630.5	630.5	630.5	630.5	630.5	630.4	630.4	630.3	630.3	630.2
	630.2	630.2	630.2	630.2	630.2	630.2	630.1	630.1	630.1	630.1
	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
	630.1	630.1	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.9	629.9
	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9
	629.9	629.9	629.9	629.9	629.8	629.8	629.8	629.8	629.8	629.8
	629.8	629.8	629.8	629.7	629.7	629.6	629.6	629.5	629.5	629.5
	629.4	629.4								
0115	630.1	630.1	630.1	630.1	630.1	630.0	630.0	629.9	629.9	629.8
	629.8	629.8	629.8	629.8	629.8	629.8	629.7	629.7	629.7	629.7
	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7
	629.7	629.7	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.6
	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.5	629.5
	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
	629.5	629.5	629.5	629.5	629.4	629.4	629.4	629.4	629.4	629.4
	629.4	629.4	629.4	629.3	629.3	629.2	629.2	629.1	629.1	629.1
	629.0	629.0								
0116	629.7	629.7	629.7	629.7	629.7	629.6	629.6	629.5	629.5	629.4
	629.4	629.4	629.4	629.4	629.4	629.4	629.3	629.3	629.3	629.3
	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3
	629.3	629.3	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2
	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.1	629.1	629.1
	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1
	629.1	629.1	629.1	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	628.9	628.9	628.8	628.8	628.7	628.7	628.6
	628.6	628.6								
0117	629.3	629.3	629.3	629.3	629.3	629.2	629.2	629.1	629.1	629.0
	629.0	629.0	629.0	629.0	629.0	628.9	628.9	628.9	628.9	628.9
	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9
	628.9	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
	628.8	628.8	628.8	628.8	628.8	628.8	628.7	628.7	628.7	628.7
	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7
	628.7	628.7	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
	628.6	628.6	628.5	628.5	628.5	628.4	628.3	628.3	628.3	628.2
	628.2	628.2								
0118	628.9	628.9	628.9	628.9	628.9	628.8	628.8	628.7	628.7	628.6
	628.6	628.6	628.6	628.6	628.5	628.5	628.5	628.5	628.5	628.5
	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5
	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
	628.4	628.4	628.4	628.4	628.4	628.3	628.3	628.3	628.3	628.3
	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3
	628.3	628.2	628.2	628.2	628.2	628.2	628.2	628.2	628.2	628.2
	628.2	628.2	628.1	628.1	628.0	628.0	627.9	627.9	627.8	627.8
	627.8	627.8								
0119	628.5	628.5	628.5	628.5	628.5	628.4	628.4	628.3	628.3	628.2
	628.2	628.2	628.2	628.2	628.1	628.1	628.1	628.1	628.1	628.1
	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	627.9	627.9	627.9	627.9	627.9	627.9
	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.8
	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8
	627.8	627.8	627.7	627.7	627.6	627.6	627.5	627.5	627.4	627.4
	627.4	627.4								
0120	628.1	628.1	628.1	628.1	628.1	628.0	628.0	627.9	627.8	627.8
	627.8	627.8	627.8	627.7	627.7	627.7	627.7	627.7	627.7	627.7
	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.6	627.6
	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6

	627.6	627.6	627.6	627.5	627.5	627.5	627.5	627.5	627.5	627.5
	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.4	627.4
	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4
	627.4	627.3	627.3	627.3	627.2	627.2	627.1	627.1	627.0	627.0
	627.0	627.0								
0121	627.7	627.7	627.7	627.7	627.7	627.6	627.6	627.5	627.4	627.4
	627.4	627.4	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3
	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.2	627.2	627.2
	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2
	627.2	627.2	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1
	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	626.9	626.9	626.9	626.8	626.7	626.7	626.6	626.6	626.6
	626.6	626.5								
0122	627.3	627.3	627.3	627.3	627.3	627.2	627.2	627.1	627.0	627.0
	627.0	627.0	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
	626.9	626.9	626.9	626.9	626.9	626.9	626.8	626.8	626.8	626.8
	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8
	626.8	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7
	626.7	626.7	626.7	626.7	626.7	626.6	626.6	626.6	626.6	626.6
	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6
	626.5	626.5	626.5	626.5	626.4	626.3	626.3	626.2	626.2	626.2
	626.1	626.1								
0123	626.9	626.9	626.9	626.9	626.8	626.8	626.7	626.7	626.6	626.6
	626.6	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5
	626.5	626.5	626.5	626.5	626.5	626.4	626.4	626.4	626.4	626.4
	626.4	626.4	626.4	626.4	626.4	626.4	626.4	626.4	626.4	626.4
	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3
	626.3	626.3	626.3	626.3	626.2	626.2	626.2	626.2	626.2	626.2
	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.1
	626.1	626.1	626.1	626.0	626.0	625.9	625.9	625.8	625.8	625.7
	625.7	625.7								
0124	626.5	626.5	626.5	626.5	626.4	626.4	626.3	626.3	626.2	626.2
	626.2	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1
	626.1	626.1	626.1	626.1	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.9	625.9
	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9
	625.9	625.9	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8
	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.7	625.7	625.7
	625.7	625.7	625.7	625.6	625.6	625.5	625.5	625.4	625.4	625.3
	625.3	625.3								
0125	626.1	626.1	626.1	626.1	626.0	626.0	625.9	625.9	625.8	625.8
	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
	625.7	625.7	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6
	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.5	625.5	625.5
	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
	625.5	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4
	625.4	625.4	625.4	625.4	625.4	625.3	625.3	625.3	625.3	625.3
	625.3	625.3	625.3	625.2	625.2	625.1	625.0	625.0	624.9	624.9
	624.9	624.9								
0126	625.7	625.7	625.7	625.7	625.6	625.6	625.5	625.5	625.4	625.4
	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3
	625.3	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2
	625.2	625.2	625.2	625.2	625.2	625.1	625.1	625.1	625.1	625.1
	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	624.9	624.9	624.9	624.9	624.9	624.9	624.9
	624.9	624.9	624.8	624.8	624.7	624.7	624.6	624.6	624.5	624.5
	624.5	624.5								
0127	625.3	625.3	625.3	625.3	625.2	625.2	625.1	625.1	625.0	625.0
	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.8
	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
	624.8	624.8	624.8	624.7	624.7	624.7	624.7	624.7	624.7	624.7
	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.6	624.6	624.6
	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6
	624.6	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5
	624.5	624.5	624.4	624.4	624.3	624.3	624.2	624.1	624.1	624.1
	624.1	624.0								
0128	624.9	624.9	624.9	624.9	624.8	624.8	624.7	624.6	624.6	624.5
	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.4	624.4
	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4
	624.4	624.4	624.3	624.3	624.3	624.3	624.3	624.3	624.3	624.3
	624.3	624.3	624.3	624.3	624.3	624.2	624.2	624.2	624.2	624.2
	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.1
	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1
	624.1	624.0	624.0	624.0	623.9	623.8	623.8	623.7	623.7	623.7
	623.6	623.6								
0129	624.5	624.5	624.5	624.5	624.4	624.4	624.3	624.2	624.2	624.1
	624.1	624.1	624.1	624.1	624.1	624.1	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9
	623.9	623.9	623.9	623.8	623.8	623.8	623.8	623.8	623.8	623.8
	623.8	623.8	623.8	623.8	623.8	623.8	623.8	623.7	623.7	623.7
	623.7	623.7	623.7	623.7	623.7	623.7	623.7	623.7	623.7	623.7
	623.6	623.6	623.6	623.6	623.5	623.4	623.4	623.3	623.3	623.2
	623.2	623.2								
0130	624.1	624.1	624.1	624.0	624.0	624.0	623.9	623.8	623.8	623.7
	623.7	623.7	623.7	623.7	623.6	623.6	623.6	623.6	623.6	623.6
	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.5	623.5
	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5
	623.5	623.4	623.4	623.4	623.4	623.4	623.4	623.4	623.4	623.4
	623.4	623.4	623.4	623.4	623.4	623.3	623.3	623.3	623.3	623.3
	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.2	623.2
	623.2	623.2	623.2	623.1	623.1	623.0	622.9	622.9	622.8	622.8
	622.8	622.8								
0131	623.7	623.7	623.7	623.6	623.6	623.5	623.5	623.4	623.4	623.3
	623.3	623.3	623.3	623.2	623.2	623.2	623.2	623.2	623.2	623.2
	623.2	623.2	623.2	623.2	623.2	623.2	623.1	623.1	623.1	623.1
	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	622.9	622.9	622.9	622.9	622.9	622.9	622.9
	622.9	622.9	622.9	622.9	622.9	622.9	622.8	622.8	622.8	622.8
	622.8	622.8	622.8	622.7	622.7	622.6	622.5	622.5	622.4	622.4
	622.4	622.4								
0132	623.3	623.3	623.3	623.2	623.2	623.1	623.1	623.0	622.9	622.9
	622.9	622.9	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
	622.8	622.8	622.8	622.8	622.7	622.7	622.7	622.7	622.7	622.7
	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.6	622.6	622.6
	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5
	622.5	622.5	622.5	622.4	622.4	622.4	622.4	622.4	622.4	622.4
	622.4	622.4	622.3	622.3	622.2	622.2	622.1	622.0	622.0	622.0
	621.9	621.9								
0133	622.9	622.9	622.8	622.8	622.8	622.7	622.7	622.6	622.5	622.5
	622.5	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4
	622.4	622.4	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
	622.3	622.3	622.3	622.3	622.3	622.2	622.2	622.2	622.2	622.2
	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.1	622.1
	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1
	622.1	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	621.9	621.9	621.9	621.8	621.7	621.7	621.6	621.6	621.5
	621.5	621.5								

0134	622.5	622.5	622.4	622.4	622.4	622.3	622.2	622.2	622.1	622.1
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9
	621.9	621.9	621.9	621.8	621.8	621.8	621.8	621.8	621.8	621.8
	621.8	621.8	621.8	621.8	621.8	621.8	621.7	621.7	621.7	621.7
	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.6
	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6
	621.5	621.5	621.5	621.5	621.4	621.3	621.3	621.2	621.1	621.1
	621.1	621.1								
0135	622.1	622.0	622.0	622.0	621.9	621.9	621.8	621.8	621.7	621.7
	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.5	621.5
	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
	621.5	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4
	621.4	621.4	621.4	621.3	621.3	621.3	621.3	621.3	621.3	621.3
	621.3	621.3	621.3	621.3	621.3	621.3	621.2	621.2	621.2	621.2
	621.2	621.2	621.2	621.2	621.2	621.2	621.2	621.2	621.2	621.1
	621.1	621.1	621.1	621.0	621.0	620.9	620.8	620.8	620.7	620.7
	620.7	620.7								
0136	621.6	621.6	621.6	621.6	621.5	621.5	621.4	621.4	621.3	621.2
	621.2	621.2	621.2	621.2	621.2	621.2	621.1	621.1	621.1	621.1
	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	620.9	620.9	620.9	620.9	620.9	620.9	620.9	620.9	620.9
	620.9	620.9	620.9	620.8	620.8	620.8	620.8	620.8	620.8	620.8
	620.8	620.8	620.8	620.8	620.8	620.8	620.7	620.7	620.7	620.7
	620.7	620.7	620.7	620.6	620.5	620.5	620.4	620.3	620.3	620.3
	620.2	620.2								
0137	621.2	621.2	621.2	621.2	621.1	621.1	621.0	620.9	620.9	620.8
	620.8	620.8	620.8	620.7	620.7	620.7	620.7	620.7	620.7	620.7
	620.7	620.7	620.7	620.7	620.7	620.7	620.6	620.6	620.6	620.6
	620.6	620.6	620.6	620.6	620.6	620.6	620.6	620.6	620.6	620.5
	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5
	620.5	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4
	620.4	620.4	620.4	620.3	620.3	620.3	620.3	620.3	620.3	620.3
	620.3	620.3	620.2	620.2	620.1	620.0	620.0	619.9	619.9	619.8
	619.8	619.8								
0138	620.8	620.8	620.8	620.8	620.7	620.7	620.6	620.5	620.5	620.4
	620.4	620.4	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3
	620.3	620.3	620.3	620.3	620.2	620.2	620.2	620.2	620.2	620.2
	620.2	620.2	620.2	620.2	620.2	620.2	620.1	620.1	620.1	620.1
	620.1	620.1	620.1	620.1	620.1	620.1	620.1	620.1	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9
	619.9	619.8	619.8	619.8	619.7	619.6	619.5	619.5	619.4	619.4
	619.4	619.4								
0139	620.4	620.4	620.4	620.3	620.3	620.2	620.2	620.1	620.0	620.0
	620.0	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9
	619.9	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8
	619.8	619.8	619.8	619.8	619.7	619.7	619.7	619.7	619.7	619.7
	619.7	619.7	619.7	619.7	619.7	619.7	619.6	619.6	619.6	619.6
	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.5	619.5
	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5
	619.4	619.4	619.4	619.3	619.3	619.2	619.1	619.1	619.0	619.0
	619.0	618.9								
0140	620.0	620.0	620.0	619.9	619.9	619.8	619.8	619.7	619.6	619.6
	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.4
	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4
	619.4	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
	619.3	619.3	619.3	619.2	619.2	619.2	619.2	619.2	619.2	619.2
	619.2	619.2	619.2	619.2	619.2	619.1	619.1	619.1	619.1	619.1
	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.0	619.0	619.0
	619.0	619.0	619.0	618.9	618.8	618.8	618.7	618.6	618.6	618.5
	618.5	618.5								
0141	619.6	619.6	619.5	619.5	619.5	619.4	619.3	619.3	619.2	619.2
	619.1	619.1	619.1	619.1	619.1	619.1	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.9	618.9
	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9
	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8
	618.8	618.8	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7
	618.7	618.7	618.7	618.7	618.6	618.6	618.6	618.6	618.6	618.6
	618.6	618.6	618.5	618.5	618.4	618.3	618.3	618.2	618.2	618.1
	618.1	618.1								
0142	619.2	619.2	619.1	619.1	619.0	619.0	618.9	618.8	618.8	618.7
	618.7	618.7	618.7	618.7	618.6	618.6	618.6	618.6	618.6	618.6
	618.6	618.6	618.6	618.6	618.6	618.6	618.5	618.5	618.5	618.5
	618.5	618.5	618.5	618.5	618.5	618.5	618.5	618.4	618.4	618.4
	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.3
	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3
	618.3	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
	618.2	618.1	618.1	618.1	618.0	617.9	617.8	617.8	617.7	617.7
	617.7	617.6								
0143	618.7	618.7	618.7	618.7	618.6	618.6	618.5	618.4	618.4	618.3
	618.3	618.3	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
	618.2	618.2	618.2	618.1	618.1	618.1	618.1	618.1	618.1	618.1
	618.1	618.1	618.1	618.1	618.1	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	617.9	617.9	617.9	617.9
	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.8	617.8
	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.7
	617.7	617.7	617.7	617.6	617.6	617.5	617.4	617.3	617.3	617.2
	617.2	617.2								
0144	618.3	618.3	618.3	618.3	618.2	618.2	618.1	618.0	617.9	617.9
	617.9	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7
	617.7	617.7	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6
	617.6	617.6	617.6	617.5	617.5	617.5	617.5	617.5	617.5	617.5
	617.5	617.5	617.5	617.5	617.5	617.4	617.4	617.4	617.4	617.4
	617.4	617.4	617.4	617.4	617.4	617.4	617.3	617.3	617.3	617.3
	617.3	617.3	617.2	617.2	617.1	617.0	617.0	616.9	616.9	616.8
	616.8	616.8								
0145	617.9	617.9	617.9	617.8	617.8	617.7	617.7	617.6	617.5	617.5
	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.3	617.3	617.3
	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.2
	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2
	617.1	617.1	617.1	617.1	617.1	617.1	617.1	617.1	617.1	617.1
	617.1	617.1	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	616.9	616.9	616.9	616.9	616.9	616.9	616.9
	616.9	616.9	616.8	616.8	616.7	616.6	616.5	616.5	616.4	616.4
	616.4	616.3								
0146	617.5	617.5	617.5	617.4	617.4	617.3	617.2	617.2	617.1	617.0
	617.0	617.0	617.0	617.0	617.0	616.9	616.9	616.9	616.9	616.9
	616.9	616.9	616.9	616.9	616.9	616.9	616.8	616.8	616.8	616.8
	616.8	616.8	616.8	616.8	616.8	616.8	616.8	616.7	616.7	616.7
	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.6
	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
	616.4	616.4	616.4	616.3	616.3	616.2	616.1	616.0	616.0	615.9
	615.9	615.9								
0147	617.1	617.1	617.0	617.0	617.0	616.9	616.8	616.7	616.7	616.6
	616.6	616.6	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
	616.5	616.5	616.5	616.4	616.4	616.4	616.4	616.4	616.4	616.4
	616.4	616.4	616.4	616.4	616.3	616.3	616.3	616.3	616.3	616.3
	616.3	616.3	616.3	616.3	616.3	616.2	616.2	616.2	616.2	616.2

	616.2	616.2	616.2	616.2	616.2	616.2	616.1	616.1	616.1	616.1
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0148	616.7	616.6	616.6	616.6	616.5	616.5	616.4	616.3	616.2	616.2
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	615.0	615.0								
0149	616.2	616.2	616.2	616.2	616.1	616.0	616.0	615.9	615.8	615.8
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0150	615.8	615.8	615.8	615.7	615.7	615.6	615.6	615.5	615.4	615.3
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0151	615.4	615.4	615.4	615.3	615.3	615.2	615.1	615.0	615.0	614.9
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	613.7	613.7								
0152	615.0	615.0	614.9	614.9	614.8	614.8	614.7	614.6	614.5	614.5
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0153	614.5	614.5	614.5	614.5	614.4	614.4	614.3	614.2	614.1	614.1
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0154	614.1	614.1	614.1	614.0	614.0	613.9	613.9	613.8	613.7	613.6
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0157	612.9	612.8	612.8	612.8	612.7	612.6	612.6	612.5	612.4	612.3
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0158	612.4	612.4	612.4	612.3	612.3	612.2	612.1	612.0	612.0	611.9
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	610.6	610.6								
0159	612.0	612.0	612.0	611.9	611.9	611.8	611.7	611.6	611.5	611.5
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0162	610.7	610.7	610.7	610.6	610.6	610.5	610.4	610.3	610.2	610.2
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0165	609.4	609.4	609.4	609.3	609.3	609.2	609.1	609.0	608.9	608.9
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0171	606.8	606.8	606.8	606.7	606.7	606.6	606.5	606.4	606.3	606.2
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0172	606.4	606.4	606.3	606.3	606.2	606.2	606.1	606.0	605.9	605.8
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0173	606.0	605.9	605.9	605.9	605.8	605.7	605.6	605.5	605.4	605.4
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0174	605.5	605.5	605.5	605.4	605.4	605.3	605.2	605.1	605.0	604.9
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	603.4	603.3								
0175	605.1	605.1	605.0	605.0	604.9	604.8	604.7	604.6	604.5	604.5
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0176	604.6	604.6	604.6	604.5	604.5	604.4	604.3	604.2	604.1	604.0
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	602.4	602.4								
0177	604.2	604.2	604.2	604.1	604.0	604.0	603.9	603.7	603.6	603.6
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0178	603.8	603.8	603.7	603.7	603.6	603.5	603.4	603.3	603.2	603.1
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0179	603.3	603.3	603.3	603.2	603.2	603.1	603.0	602.9	602.8	602.7
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0180	602.9	602.9	602.8	602.8	602.7	602.6	602.5	602.4	602.3	602.2
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0181	602.4	602.4	602.4	602.3	602.3	602.2	602.1	602.0	601.9	601.8
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0182	602.0	602.0	602.0	601.9	601.8	601.7	601.6	601.5	601.4	601.3
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0183	601.6	601.5	601.5	601.5	601.4	601.3	601.2	601.1	601.0	600.9
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0184	601.1	601.1	601.1	601.0	600.9	600.9	600.7	600.6	600.5	600.4
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0186	600.2	600.2	600.2	600.1	600.0	600.0	599.9	599.7	599.6	599.5
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0188	599.3	599.3	599.3	599.2	599.2	599.1	599.0	598.8	598.7	598.6
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0189	598.9	598.9	598.8	598.8	598.7	598.6	598.5	598.4	598.3	598.2
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0191	597.5	597.5	597.4	597.4	597.3	597.2	597.1	597.0	596.8	596.8
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0192	596.2	596.2	596.2	596.1	596.0	595.9	595.8	595.7	595.6	595.5
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0193	594.3	594.3	594.3	594.2	594.1	594.0	593.9	593.8	593.6	593.5
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	592.5	592.4	592.4	592.3	592.1	592.0	591.8	591.7	591.6	591.5
	591.5	591.5								
0194	591.5	591.5	591.4	591.3	591.2	591.1	591.0	590.9	590.7	590.6
	590.6	590.5	590.5	590.5	590.4	590.4	590.4	590.4	590.4	590.4
	590.3	590.3	590.3	590.3	590.3	590.3	590.2	590.2	590.2	590.2
	590.2	590.2	590.1	590.1	590.1	590.1	590.1	590.1	590.0	590.0
	590.0	590.0	590.0	590.0	589.9	589.9	589.9	589.9	589.9	589.8
	589.8	589.8	589.8	589.8	589.8	589.7	589.7	589.7	589.7	589.7
	589.7	589.6	589.6	589.6	589.6	589.6	589.5	589.5	589.5	589.5
	589.5	589.4	589.3	589.2	589.1	588.9	588.8	588.6	588.5	588.5
	588.4	588.4								
0195	587.1	587.1	587.1	587.0	586.9	586.8	586.6	586.4	586.3	586.2
	586.1	586.1	586.0	586.0	586.0	586.0	586.0	585.9	585.9	585.9
	585.9	585.9	585.8	585.8	585.8	585.8	585.8	585.8	585.7	585.7
	585.7	585.7	585.7	585.6	585.6	585.6	585.6	585.6	585.5	585.5
	585.5	585.5	585.5	585.4	585.4	585.4	585.4	585.4	585.3	585.3
	585.3	585.3	585.3	585.2	585.2	585.2	585.2	585.2	585.2	585.1
	585.1	585.1	585.1	585.1	585.0	585.0	585.0	585.0	585.0	584.9
	584.9	584.8	584.8	584.7	584.5	584.3	584.1	584.0	583.9	583.8
	583.7	583.7								
0196	581.8	581.8	581.8	581.7	581.6	581.4	581.3	581.1	580.9	580.8
	580.7	580.6	580.6	580.6	580.6	580.5	580.5	580.5	580.5	580.5
	580.4	580.4	580.4	580.4	580.4	580.3	580.3	580.3	580.3	580.2
	580.2	580.2	580.2	580.2	580.2	580.1	580.1	580.1	580.0	580.0
	580.0	580.0	580.0	579.9	579.9	579.9	579.9	579.9	579.8	579.8
	579.8	579.8	579.7	579.7	579.7	579.7	579.7	579.6	579.6	579.6
	579.6	579.5	579.5	579.5	579.5	579.5	579.4	579.4	579.4	579.4
	579.3	579.3	579.2	579.0	578.8	578.6	578.4	578.3	578.1	578.0
	578.0	577.9								
0197	576.5	576.5	576.4	576.3	576.2	576.0	575.8	575.6	575.4	575.3
	575.2	575.1	575.1	575.1	575.0	575.0	575.0	575.0	575.0	574.9
	574.9	574.9	574.9	574.8	574.8	574.8	574.8	574.7	574.7	574.7
	574.7	574.6	574.6	574.6	574.6	574.5	574.5	574.5	574.5	574.4
	574.4	574.4	574.4	574.3	574.3	574.3	574.3	574.2	574.2	574.2
	574.2	574.1	574.1	574.1	574.1	574.0	574.0	574.0	574.0	573.9
	573.9	573.9	573.9	573.8	573.8	573.8	573.8	573.7	573.7	573.7
	573.6	573.6	573.5	573.3	573.1	572.8	572.6	572.4	572.3	572.1
	572.1	572.0								
0198	571.1	571.0	571.0	570.8	570.7	570.5	570.3	570.1	569.9	569.7
	569.6	569.5	569.5	569.5	569.4	569.4	569.4	569.4	569.3	569.3
	569.3	569.3	569.2	569.2	569.2	569.1	569.1	569.1	569.1	569.0
	569.0	569.0	569.0	568.9	568.9	568.9	568.8	568.8	568.8	568.8
	568.7	568.7	568.7	568.6	568.6	568.6	568.6	568.5	568.5	568.5
	568.4	568.4	568.4	568.4	568.3	568.3	568.3	568.2	568.2	568.2
	568.2	568.1	568.1	568.1	568.0	568.0	568.0	568.0	567.9	567.9
	567.8	567.8	567.6	567.5	567.2	566.9	566.7	566.5	566.3	566.1
	566.0	566.0								
0199	565.6	565.5	565.5	565.3	565.2	565.0	564.8	564.5	564.2	564.1
	564.0	563.9	563.8	563.8	563.8	563.7	563.7	563.7	563.6	563.6
	563.6	563.5	563.5	563.5	563.5	563.4	563.4	563.4	563.3	563.3
	563.3	563.2	563.2	563.2	563.1	563.1	563.1	563.0	563.0	563.0
	563.0	562.9	562.9	562.9	562.8	562.8	562.8	562.7	562.7	562.7
	562.6	562.6	562.6	562.5	562.5	562.5	562.4	562.4	562.4	562.3
	562.3	562.3	562.2	562.2	562.2	562.1	562.1	562.1	562.0	562.0
	561.9	561.9	561.7	561.5	561.2	560.9	560.6	560.3	560.1	560.0
	559.8	559.8								
0200	560.0	560.0	559.9	559.8	559.6	559.4	559.1	558.8	558.5	558.4
	558.2	558.1	558.1	558.0	558.0	558.0	557.9	557.9	557.9	557.8
	557.8	557.8	557.7	557.7	557.7	557.6	557.6	557.6	557.5	557.5
	557.4	557.4	557.4	557.3	557.3	557.3	557.2	557.2	557.2	557.1
	557.1	557.1	557.0	557.0	556.9	556.9	556.9	556.8	556.8	556.8
	556.7	556.7	556.6	556.6	556.6	556.5	556.5	556.5	556.4	556.4
	556.3	556.3	556.3	556.2	556.2	556.2	556.1	556.1	556.1	556.0
	555.9	555.8	555.7	555.5	555.1	554.7	554.4	554.1	553.8	553.6
	553.5	553.4								
0201	554.5	554.4	554.3	554.1	553.9	553.7	553.4	553.1	552.8	552.6
	552.4	552.3	552.2	552.2	552.2	552.1	552.1	552.0	552.0	552.0
	551.9	551.9	551.9	551.8	551.8	551.7	551.7	551.7	551.6	551.6
	551.5	551.5	551.5	551.4	551.4	551.3	551.3	551.3	551.2	551.2
	551.1	551.1	551.1	551.0	551.0	550.9	550.9	550.8	550.8	550.8
	550.7	550.7	550.6	550.6	550.5	550.5	550.5	550.4	550.4	550.3
	550.3	550.3	550.2	550.2	550.1	550.1	550.0	550.0	550.0	549.9

	549.8	549.7	549.5	549.3	548.9	548.5	548.1	547.7	547.4	547.2
	547.0	546.9								
0202	548.8	548.8	548.6	548.5	548.3	548.0	547.7	547.3	546.9	546.7
	546.5	546.4	546.3	546.3	546.2	546.2	546.2	546.1	546.1	546.0
	546.0	545.9	545.9	545.9	545.8	545.8	545.7	545.7	545.6	545.6
	545.6	545.5	545.5	545.4	545.4	545.3	545.3	545.2	545.2	545.1
	545.1	545.0	545.0	545.0	544.9	544.9	544.8	544.8	544.7	544.7
	544.6	544.6	544.5	544.5	544.4	544.4	544.3	544.3	544.2	544.2
	544.1	544.1	544.0	544.0	544.0	543.9	543.9	543.8	543.8	543.7
	543.6	543.5	543.3	543.0	542.5	542.0	541.6	541.2	540.8	540.5
	540.3	540.2								
0203	543.1	543.1	542.9	542.8	542.5	542.2	541.8	541.4	541.0	540.8
	540.6	540.5	540.4	540.3	540.3	540.2	540.2	540.1	540.1	540.0
	540.0	539.9	539.9	539.8	539.8	539.7	539.7	539.6	539.6	539.5
	539.5	539.4	539.4	539.3	539.3	539.2	539.2	539.1	539.1	539.0
	539.0	538.9	538.9	538.8	538.8	538.7	538.7	538.6	538.5	538.5
	538.4	538.4	538.3	538.3	538.2	538.2	538.1	538.1	538.0	538.0
	537.9	537.8	537.8	537.7	537.7	537.6	537.6	537.5	537.5	537.4
	537.3	537.1	536.9	536.6	536.1	535.5	534.9	534.4	534.0	533.7
	533.5	533.3								
0204	537.4	537.4	537.2	537.0	536.7	536.4	536.0	535.5	535.1	534.8
	534.6	534.4	534.3	534.3	534.2	534.2	534.1	534.1	534.0	534.0
	533.9	533.8	533.8	533.7	533.7	533.6	533.6	533.5	533.5	533.4
	533.3	533.3	533.2	533.2	533.1	533.1	533.0	532.9	532.9	532.8
	532.8	532.7	532.7	532.6	532.5	532.5	532.4	532.4	532.3	532.2
	532.2	532.1	532.1	532.0	531.9	531.9	531.8	531.7	531.7	531.6
	531.6	531.5	531.4	531.4	531.3	531.3	531.2	531.1	531.1	531.0
	530.9	530.7	530.4	530.0	529.5	528.8	528.1	527.6	527.1	526.7
	526.4	526.2								
0205	531.7	531.6	531.4	531.2	530.9	530.5	530.1	529.6	529.1	528.7
	528.5	528.4	528.3	528.2	528.1	528.1	528.0	527.9	527.9	527.8
	527.8	527.7	527.6	527.6	527.5	527.5	527.4	527.3	527.3	527.2
	527.1	527.1	527.0	527.0	526.9	526.8	526.8	526.7	526.6	526.6
	526.5	526.4	526.4	526.3	526.2	526.2	526.1	526.0	526.0	525.9
	525.8	525.8	525.7	525.6	525.6	525.5	525.4	525.3	525.3	525.2
	525.1	525.1	525.0	524.9	524.9	524.8	524.7	524.6	524.6	524.5
	524.4	524.2	523.9	523.4	522.7	521.9	521.2	520.5	519.9	519.4
	519.1	518.9								
0206	525.9	525.8	525.7	525.4	525.1	524.6	524.1	523.6	523.0	522.7
	522.4	522.2	522.1	522.0	522.0	521.9	521.8	521.8	521.7	521.6
	521.6	521.5	521.4	521.4	521.3	521.2	521.2	521.1	521.0	521.0
	520.9	520.8	520.7	520.7	520.6	520.5	520.5	520.4	520.3	520.2
	520.2	520.1	520.0	519.9	519.9	519.8	519.7	519.6	519.6	519.5
	519.4	519.3	519.3	519.2	519.1	519.0	518.9	518.9	518.8	518.7
	518.6	518.6	518.5	518.4	518.3	518.2	518.2	518.1	518.0	517.9
	517.7	517.5	517.2	516.7	515.9	515.0	514.1	513.3	512.5	511.9
	511.5	511.3								
0207	520.2	520.1	519.9	519.6	519.2	518.7	518.2	517.5	517.0	516.5
	516.3	516.1	515.9	515.8	515.8	515.7	515.6	515.5	515.5	515.4
	515.3	515.3	515.2	515.1	515.0	514.9	514.9	514.8	514.7	514.6
	514.6	514.5	514.4	514.3	514.2	514.2	514.1	514.0	513.9	513.8
	513.8	513.7	513.6	513.5	513.4	513.3	513.3	513.2	513.1	513.0
	512.9	512.8	512.7	512.7	512.6	512.5	512.4	512.3	512.2	512.1
	512.1	512.0	511.9	511.8	511.7	511.6	511.5	511.4	511.3	511.2
	511.1	510.8	510.4	509.8	508.9	507.9	506.8	505.8	504.9	504.2
	503.6	503.3								
0208	514.4	514.3	514.1	513.7	513.3	512.8	512.2	511.5	510.8	510.4
	510.1	509.8	509.7	509.6	509.5	509.4	509.4	509.3	509.2	509.1
	509.0	509.0	508.9	508.8	508.7	508.6	508.5	508.5	508.4	508.3
	508.2	508.1	508.0	507.9	507.8	507.8	507.7	507.6	507.5	507.4
	507.3	507.2	507.1	507.0	506.9	506.8	506.8	506.7	506.6	506.5
	506.4	506.3	506.2	506.1	506.0	505.9	505.8	505.7	505.6	505.5
	505.4	505.3	505.2	505.1	505.0	504.9	504.8	504.7	504.6	504.5
	504.3	504.0	503.6	502.9	501.9	500.7	499.4	498.2	497.1	496.1
	495.4	495.0								
0209	508.6	508.5	508.3	507.9	507.4	506.9	506.2	505.4	504.7	504.2
	503.8	503.6	503.4	503.3	503.2	503.2	503.1	503.0	502.9	502.8
	502.7	502.6	502.5	502.4	502.3	502.3	502.2	502.1	502.0	501.9
	501.8	501.7	501.6	501.5	501.4	501.3	501.2	501.1	501.0	500.9
	500.8	500.7	500.6	500.5	500.4	500.3	500.2	500.1	500.0	499.9
	499.8	499.7	499.6	499.5	499.4	499.2	499.1	499.0	498.9	498.8
	498.7	498.6	498.5	498.4	498.3	498.2	498.0	497.9	497.8	497.7
	497.5	497.1	496.7	495.9	494.8	493.4	491.9	490.5	489.0	487.7
	486.7	486.1								
0210	502.9	502.8	502.5	502.1	501.6	500.9	500.2	499.3	498.5	498.0
	497.6	497.3	497.2	497.0	496.9	496.9	496.8	496.7	496.6	496.5
	496.4	496.3	496.2	496.1	496.0	495.9	495.8	495.7	495.5	495.4
	495.3	495.2	495.1	495.0	494.9	494.8	494.7	494.6	494.5	494.4
	494.3	494.2	494.0	493.9	493.8	493.7	493.6	493.5	493.4	493.3
	493.1	493.0	492.9	492.8	492.7	492.6	492.4	492.3	492.2	492.1
	492.0	491.8	491.7	491.6	491.5	491.4	491.2	491.1	491.0	490.8
	490.6	490.2	489.7	488.9	487.6	486.0	484.3	482.5	480.7	478.9
	477.4	476.6								
0211	497.2	497.1	496.8	496.3	495.7	495.0	494.2	493.2	492.4	491.8
	491.3	491.0	490.9	490.7	490.6	490.5	490.4	490.3	490.2	490.1
	490.0	489.9	489.8	489.7	489.5	489.4	489.3	489.2	489.1	489.0
	488.9	488.8	488.6	488.5	488.4	488.3	488.2	488.1	487.9	487.8
	487.7	487.6	487.5	487.3	487.2	487.1	487.0	486.8	486.7	486.6
	486.5	486.3	486.2	486.1	486.0	485.8	485.7	485.6	485.4	485.3
	485.2	485.1	484.9	484.8	484.7	484.5	484.4	484.3	484.1	483.9
	483.7	483.3	482.7	481.8	480.4	478.6	476.7	474.6	472.3	469.8
	467.1	466.3								
0212	491.6	491.4	491.1	490.5	489.9	489.1	488.1	487.1	486.2	485.5
	485.1	484.7	484.5	484.4	484.3	484.2	484.1	483.9	483.8	483.7
	483.6	483.5	483.3	483.2	483.1	483.0	482.9	482.7	482.6	482.5
	482.4	482.3	482.1	482.0	481.9	481.7	481.6	481.5	481.4	481.2
	481.1	481.0	480.8	480.7	480.6	480.4	480.3	480.2	480.0	479.9
	479.8	479.6	479.5	479.4	479.2	479.1	478.9	478.8	478.7	478.5
	478.4	478.2	478.1	477.9	477.8	477.7	477.5	477.4	477.2	477.0
	476.8	476.4	475.7	474.7	473.2	471.1	469.2	466.8	463.8	460.9
	455.0	455.0								
0213	486.0	485.8	485.4	484.8	484.1	483.2	482.1	481.0	480.0	479.3
	478.8	478.4	478.2	478.1	477.9	477.8	477.7	477.6	477.4	477.3
	477.2	477.0	476.9	476.8	476.7	476.5	476.4	476.3	476.1	476.0
	475.9	475.7	475.6	475.5	475.3	475.2	475.1	474.9	474.8	474.6
	474.5	474.4	474.2	474.1	473.9	473.8	473.6	473.5	473.4	473.2
	473.1	472.9	472.8	472.6	472.4	472.3	472.1	472.0	471.8	471.7
	471.5	471.4	471.2	471.0	470.9	470.7	470.6	470.4	470.3	470.1
	469.8	469.4	468.8	467.8	466.1	463.6	461.9	459.7	455.0	455.0
	1000.	1000.								
0214	480.6	480.4	479.9	479.2	478.3	477.3	476.2	474.9	473.8	473.0
	472.5	472.1	471.9	471.7	471.6	471.4	471.3	471.2	471.0	470.9
	470.7	470.6	470.4	470.3	470.2	470.0	469.9	469.7	469.6	469.5
	469.3	469.2	469.0	468.9	468.8	468.6	468.5	468.3	468.2	468.1
	467.9	467.8	467.6	467.5	467.3	467.2	467.0	466.9	466.7	466.5
	466.4	466.2	466.0	465.9	465.7	465.5	465.3	465.1	464.9	464.7
	464.5	464.3	464.2	464.0	463.8	463.6	463.4	463.3	463.1	463.0
	462.7	462.3	461.8	461.0	459.4	455.0	455.0	455.0	1000.	1000.
	1000.	1000.								
0215	475.3	475.0	474.5	473.7	472.7	471.5	470.2	468.7	467.6	466.8
	466.3	465.9	465.6	465.4	465.3	465.1	464.9	464.8	464.6	464.4
	464.3	464.1	463.9	463.7	463.6	463.4	463.2	463.0	462.9	462.7

	462.6	462.5	462.3	462.2	462.1	462.0	461.9	461.7	461.6	461.5
	461.4	461.3	461.2	461.0	460.9	460.8	460.7	460.5	460.4	460.2
	460.0	459.9	459.7	459.5	459.2	459.0	458.8	458.5	458.2	457.8
	457.5	457.1	456.6	456.1	455.6	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0216	470.2	469.8	469.2	468.2	467.0	465.8	464.3	462.3	461.4	460.8
	460.3	460.0	459.7	459.5	459.3	459.1	458.9	458.7	458.5	458.2
	457.9	457.6	457.3	456.9	456.5	456.1	455.6	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0217	465.3	464.8	464.1	463.0	461.3	460.2	458.6	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0218	460.8	460.0	459.3	458.1	455.0	455.0	455.0	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0219	457.0	455.0	455.0	455.0	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0220	455.0	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								

1 HEAD IN LAYER 2 AT END OF TIME STEP 1 IN STRESS PERIOD 1

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82								

0 1	1000.	738.6	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0 2	738.5	738.5	738.5	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0 3	738.4	738.4	738.3	738.2	738.1	738.0	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0 4	738.2	738.2	738.2	738.1	738.0	737.9	737.7	737.6	737.5	737.4
	737.4	737.3	737.3	737.3	737.3	737.3	737.3	737.3	737.3	737.3
	737.3	737.3	737.3	737.3	737.2	737.2	737.2	737.2	737.2	737.2
	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.1
	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1
	737.1	737.1	737.1	737.1	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	736.9	736.9	736.9	736.9	736.8	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0 5	738.0	738.0	737.9	737.8	737.8	737.7	737.5	737.4	737.3	737.3
	737.3	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2
	737.2	737.2	737.2	737.1	737.1	737.1	737.1	737.1	737.1	737.1
	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	736.9	736.9	736.9	736.9	736.9	736.9
	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9
	736.8	736.8	736.8	736.8	736.7	736.5	736.4	736.4	736.3	736.3
	736.3	736.2								
0 6	737.6	737.6	737.6	737.5	737.5	737.4	737.3	737.2	737.1	737.1
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9
	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.8	736.8
	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8
	736.8	736.8	736.8	736.8	736.7	736.7	736.7	736.7	736.7	736.7
	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7
	736.6	736.6	736.6	736.6	736.5	736.4	736.3	736.3	736.2	736.2
	736.1	736.1								
0 7	737.2	737.2	737.2	737.1	737.1	737.0	736.9	736.9	736.8	736.8
	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7
	736.7	736.6	736.6	736.6	736.6	736.6	736.6	736.6	736.6	736.6
	736.6	736.6	736.6	736.6	736.6	736.6	736.6	736.5	736.5	736.5

	736.5	736.5	736.5	736.5	736.5	736.5	736.5	736.5	736.5	736.5
	736.5	736.5	736.5	736.5	736.5	736.4	736.4	736.4	736.4	736.4
	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4
	736.4	736.3	736.3	736.3	736.2	736.1	736.1	736.0	736.0	735.9
	735.9	735.9								
0 8	736.7	736.7	736.7	736.7	736.6	736.6	736.5	736.4	736.4	736.3
	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.2
	736.2	736.2	736.2	736.2	736.2	736.2	736.2	736.2	736.2	736.2
	736.2	736.2	736.2	736.2	736.2	736.2	736.2	736.1	736.1	736.1
	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
	736.1	736.1	736.1	736.1	736.1	736.1	736.0	736.0	736.0	736.0
	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0	735.9	735.9	735.8	735.8	735.7	735.7	735.6	735.6
	735.6	735.6								
0 9	736.2	736.1	736.1	736.1	736.0	736.0	736.0	735.9	735.8	735.8
	735.8	735.8	735.8	735.8	735.8	735.8	735.7	735.7	735.7	735.7
	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7
	735.7	735.7	735.7	735.7	735.7	735.7	735.6	735.6	735.6	735.6
	735.6	735.6	735.6	735.6	735.6	735.6	735.6	735.6	735.6	735.6
	735.6	735.6	735.6	735.6	735.6	735.6	735.6	735.5	735.5	735.5
	735.5	735.5	735.5	735.5	735.5	735.5	735.5	735.5	735.5	735.5
	735.5	735.5	735.4	735.4	735.4	735.3	735.3	735.2	735.2	735.2
	735.2	735.1								
0 10	735.5	735.5	735.5	735.4	735.4	735.4	735.3	735.3	735.2	735.2
	735.2	735.2	735.2	735.2	735.1	735.1	735.1	735.1	735.1	735.1
	735.1	735.1	735.1	735.1	735.1	735.1	735.1	735.1	735.1	735.1
	735.1	735.1	735.1	735.1	735.1	735.1	735.0	735.0	735.0	735.0
	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	734.9	734.9
	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.9
	734.9	734.9	734.9	734.8	734.8	734.8	734.7	734.7	734.6	734.6
	734.6	734.6								
0 11	734.7	734.7	734.7	734.7	734.7	734.6	734.6	734.5	734.5	734.5
	734.5	734.5	734.4	734.4	734.4	734.4	734.4	734.4	734.4	734.4
	734.4	734.4	734.4	734.4	734.4	734.4	734.4	734.4	734.4	734.4
	734.4	734.4	734.4	734.4	734.4	734.4	734.3	734.3	734.3	734.3
	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
	734.3	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2
	734.2	734.2	734.2	734.2	734.1	734.1	734.1	734.0	734.0	734.0
	734.0	734.0								
0 12	733.9	733.9	733.9	733.8	733.8	733.8	733.8	733.7	733.7	733.7
	733.7	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
	733.6	733.6	733.6	733.6	733.6	733.6	733.5	733.5	733.5	733.5
	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5
	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5
	733.5	733.5	733.5	733.5	733.4	733.4	733.4	733.4	733.4	733.4
	733.4	733.4	733.4	733.4	733.3	733.3	733.3	733.3	733.2	733.2
	733.2	733.2								
0 13	732.9	732.9	732.9	732.9	732.9	732.9	732.8	732.8	732.8	732.8
	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7
	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7
	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.6	732.6	732.6
	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.5	732.5
	732.5	732.5	732.5	732.5	732.5	732.4	732.4	732.4	732.4	732.4
	732.4	732.3								
0 14	731.9	731.9	731.9	731.9	731.9	731.8	731.8	731.8	731.8	731.7
	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7
	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7
	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.6	731.6
	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
	731.6	731.5	731.5	731.5	731.5	731.5	731.4	731.4	731.4	731.4
	731.4	731.4								
0 15	730.8	730.8	730.8	730.8	730.7	730.7	730.7	730.7	730.7	730.6
	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6
	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6
	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6
	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
	730.5	730.5	730.5	730.4	730.4	730.4	730.4	730.4	730.3	730.3
	730.3	730.3								
0 16	729.6	729.6	729.6	729.5	729.5	729.5	729.5	729.5	729.5	729.4
	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
	729.4	729.4	729.4	729.4	729.3	729.3	729.3	729.3	729.3	729.3
	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3
	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3
	729.3	729.3	729.3	729.3	729.2	729.2	729.2	729.2	729.2	729.2
	729.2	729.2								
0 17	728.3	728.3	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.1
	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	727.9	727.9	727.9	727.9	727.9
	727.9	727.9								
0 18	726.8	726.8	726.8	726.8	726.8	726.8	726.8	726.8	726.8	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.6	726.6	726.6
	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.6
	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.5	726.5	726.5
	726.5	726.5								
0 19	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3
	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.1	725.1
	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1
	725.1	725.0								
0 20	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7
	723.7	723.7	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
	723.6	723.6	723.6	723.5	723.5	723.5	723.5	723.5	723.5	723.5
	723.5	723.5								

0 21	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
	721.9	721.9	721.9	721.9	721.9	721.8	721.8	721.8	721.8	721.8
	721.8	721.8								
0 22	720.3	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
	720.2	720.2	720.2	720.2	720.2	720.1	720.1	720.1	720.1	720.1
	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1
	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1
	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1
	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.0	720.0
	720.0	720.0								
0 23	718.4	718.4	718.4	718.4	718.3	718.3	718.3	718.3	718.3	718.3
	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3
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	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3
	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3
	718.3	718.3	718.3	718.2	718.2	718.2	718.2	718.2	718.2	718.2
	718.2	718.2	718.2	718.2	718.2	718.2	718.2	718.2	718.2	718.2
	718.2	718.2	718.2	718.2	718.2	718.2	718.2	718.2	718.2	718.2
	718.2	718.2								
0 24	716.4	716.4	716.4	716.4	716.4	716.4	716.3	716.3	716.3	716.3
	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3
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	716.3	716.3	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2
	716.2	716.2								
0 25	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.2	714.2
	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2
	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2
	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2
	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2
	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2
	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2
	714.2	714.2	714.2	714.2	714.2	714.2	714.1	714.1	714.1	714.1
	714.1	714.1								
0 26	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1
	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1
	712.1	712.1	712.1	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0								
0 27	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
	709.8	709.8	709.8	709.7	709.7	709.7	709.7	709.7	709.7	709.7
	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7
	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7
	709.7	709.7								
0 28	707.5	707.5	707.5	707.5	707.5	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.3	707.3	707.3	707.3	707.3	707.3
	707.3	707.3								
0 29	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	704.9
	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
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	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
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	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.8
	704.8	704.8								
0 30	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
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	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
	702.4	702.4	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
	702.3	702.3								
0 31	699.8	699.8	699.8	699.8	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.6	699.6	699.6	699.6	699.6	699.6	699.6
	699.6	699.6								
0 32	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.8	696.8
	696.8	696.8								
0 33	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1
	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1
	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1
	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1
	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0								
0 34	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
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	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.0	691.0	691.0	691.0	691.0	691.0
	691.0	691.0								
0 35	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.0	688.0
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	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	687.9	687.9
	687.9	687.9								
0 36	685.0	685.0	685.0	685.0	685.0	685.0	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.8	684.8	684.8	684.8	684.8	684.8
	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8
	684.8	684.8								
0 37	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7
	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.6
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	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
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	681.6	681.6	681.6	681.6	681.6	681.5	681.5	681.5	681.5	681.5
	681.5	681.5								
0 38	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.3	678.3	678.3
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	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
	678.3	678.3	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2
	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2
	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.1	678.1
	678.1	678.1								
0 39	675.0	675.0	675.0	674.9	674.9	674.9	674.9	674.9	674.9	674.9
	674.9	674.9	674.9	674.9	674.9	674.9	674.9	674.9	674.9	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.7	674.7	674.7	674.7	674.7	674.7	674.7
	674.7	674.7								
0 40	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.2	671.2
	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
	671.2	671.2	671.2	671.2	671.2	671.2	671.1	671.1	671.1	671.1
	671.1	671.1								
0 41	667.8	667.8	667.8	667.8	667.8	667.7	667.7	667.7	667.7	667.7
	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7
	667.7	667.7	667.7	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.4	667.4
	667.4	667.4								
0 42	664.1	664.1	664.1	664.0	664.0	664.0	664.0	664.0	664.0	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.8	663.8
	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8
	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8
	663.8	663.8	663.8	663.7	663.7	663.7	663.7	663.7	663.7	663.7
	663.7	663.7								
0 43	660.9	660.9	660.9	660.8	660.8	660.8	660.8	660.8	660.8	660.8
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	660.4	660.4								
0 44	658.7	658.7	658.7	658.7	658.7	658.7	658.6	658.6	658.6	658.6
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	658.2	658.2								
0 45	657.3	657.3	657.3	657.2	657.2	657.2	657.2	657.2	657.1	657.1
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	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	656.9	656.9	656.9
	656.9	656.9	656.9	656.9	656.9	656.9	656.8	656.8	656.8	656.8
	656.8	656.8								
0 46	656.3	656.3	656.3	656.3	656.3	656.2	656.2	656.2	656.2	656.1
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	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
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	655.8	655.8								
0 47	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.5	655.5	655.5
	655.5	655.5	655.5	655.5	655.5	655.5	655.5	655.4	655.4	655.4
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	655.1	655.1								
0 48	655.2	655.2	655.2	655.2	655.2	655.1	655.1	655.1	655.1	655.0

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	654.8	654.8	654.8	654.8	654.8	654.8	654.7	654.7	654.7	654.7
	654.7	654.7								
0 49	654.9	654.8	654.8	654.8	654.8	654.8	654.8	654.7	654.7	654.7
	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7
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	654.3	654.3								
0 50	654.5	654.5	654.5	654.5	654.5	654.4	654.4	654.4	654.4	654.3
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0 51	654.2	654.1	654.1	654.1	654.1	654.1	654.1	654.0	654.0	654.0
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	653.8	653.8	653.8	653.7	653.7	653.7	653.7	653.6	653.6	653.6
	653.6	653.6								
0 52	653.8	653.8	653.8	653.8	653.8	653.7	653.7	653.7	653.7	653.6
	653.6	653.6	653.6	653.6	653.6	653.6	653.6	653.6	653.6	653.6
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	653.2	653.2								
0 53	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.3	653.3	653.3
	653.3	653.3	653.3	653.3	653.2	653.2	653.2	653.2	653.2	653.2
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	653.1	653.1	653.0	653.0	653.0	653.0	652.9	652.9	652.9	652.9
	652.9	652.9								
0 54	653.1	653.1	653.1	653.1	653.0	653.0	653.0	653.0	652.9	652.9
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	652.5	652.5								
0 55	652.7	652.7	652.7	652.7	652.7	652.7	652.6	652.6	652.6	652.6
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	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5
	652.5	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
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	652.3	652.3	652.3	652.3	652.3	652.3	652.2	652.2	652.2	652.2
	652.2	652.2								
0 56	652.4	652.4	652.4	652.4	652.3	652.3	652.3	652.3	652.2	652.2
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	652.0	652.0	652.0	651.9	651.9	651.9	651.9	651.8	651.8	651.8
	651.8	651.8								
0 57	652.0	652.0	652.0	652.0	652.0	652.0	651.9	651.9	651.9	651.9
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0 58	651.7	651.7	651.7	651.6	651.6	651.6	651.6	651.5	651.5	651.5
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	651.1	651.1								
0 59	651.3	651.3	651.3	651.3	651.3	651.2	651.2	651.2	651.2	651.1
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	650.7	650.7								
0 60	651.0	650.9	650.9	650.9	650.9	650.9	650.9	650.8	650.8	650.8
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0 61	650.6	650.6	650.6	650.6	650.5	650.5	650.5	650.5	650.4	650.4
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	650.0	650.0								
0 62	650.2	650.2	650.2	650.2	650.2	650.2	650.1	650.1	650.1	650.1
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	649.8	649.8	649.8	649.8	649.7	649.7	649.7	649.7	649.6	649.6
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0 64	649.5	649.5	649.5	649.5	649.5	649.4	649.4	649.4	649.3	649.3
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	648.9	648.9								
0 65	649.1	649.1	649.1	649.1	649.1	649.1	649.0	649.0	649.0	649.0
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	648.5	648.5								
0 66	648.8	648.8	648.8	648.8	648.7	648.7	648.7	648.6	648.6	648.6
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	648.1	648.1								
0 67	648.4	648.4	648.4	648.4	648.4	648.3	648.3	648.3	648.3	648.2
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	648.0	648.0	648.0	647.9	647.9	647.9	647.8	647.8	647.8	647.8
	647.8	647.8								
0 68	648.1	648.1	648.0	648.0	648.0	648.0	648.0	647.9	647.9	647.9
	647.9	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8
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0 69	647.7	647.7	647.7	647.7	647.6	647.6	647.6	647.6	647.5	647.5
	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.4	647.4	647.4
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	646.7	646.6								
0 71	647.0	647.0	646.9	646.9	646.9	646.9	646.8	646.8	646.8	646.8
	646.7	646.7	646.7	646.7	646.7	646.7	646.7	646.7	646.7	646.7
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	646.3	646.3								
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0 73	646.2	646.2	646.2	646.2	646.2	646.1	646.1	646.1	646.0	646.0
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	644.4	644.4								
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0 79	644.0	644.0	644.0	644.0	643.9	643.9	643.9	643.8	643.8	643.8
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0 80	643.6	643.6	643.6	643.6	643.6	643.5	643.5	643.5	643.4	643.4
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	642.9	642.9								
0 81	643.3	643.3	643.2	643.2	643.2	643.2	643.1	643.1	643.1	643.0
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0 83	642.5	642.5	642.5	642.5	642.4	642.4	642.4	642.3	642.3	642.3
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0 84	642.1	642.1	642.1	642.1	642.1	642.0	642.0	642.0	641.9	641.9
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	641.0	641.0								
0 86	641.4	641.4	641.4	641.3	641.3	641.3	641.2	641.2	641.2	641.1
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	640.6	640.6								
0 87	641.0	641.0	641.0	641.0	640.9	640.9	640.9	640.8	640.8	640.8
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0 88	640.6	640.6	640.6	640.6	640.5	640.5	640.4	640.4	640.4	
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	639.8	639.8								
0 89	640.2	640.2	640.2	640.2	640.2	640.1	640.1	640.1	640.0	640.0
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	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.8	639.8	639.8
	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8
	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.7	639.7
	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
	639.7	639.7	639.7	639.6	639.6	639.5	639.5	639.5	639.4	639.4
	639.4	639.4								
0 90	639.9	639.9	639.8	639.8	639.8	639.8	639.7	639.7	639.6	639.6
	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.5
	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5
	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5
	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4
	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4
	639.4	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3
	639.3	639.3	639.3	639.2	639.2	639.2	639.1	639.1	639.1	639.0
	639.0	639.0								
0 91	639.5	639.5	639.5	639.4	639.4	639.4	639.3	639.3	639.3	639.2
	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2
	639.2	639.2	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
	639.1	639.1	639.1	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	638.9	638.9	638.9	638.9	638.9	638.9
	638.9	638.9	638.9	638.9	638.8	638.8	638.7	638.7	638.7	638.6
	638.6	638.6								
0 92	639.1	639.1	639.1	639.1	639.0	639.0	639.0	638.9	638.9	638.9
	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
	638.8	638.8	638.8	638.8	638.8	638.8	638.7	638.7	638.7	638.7
	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
	638.7	638.7	638.7	638.7	638.7	638.7	638.6	638.6	638.6	638.6
	638.6	638.6	638.6	638.6	638.6	638.6	638.6	638.6	638.6	638.6
	638.6	638.6	638.6	638.6	638.6	638.6	638.5	638.5	638.5	638.5
	638.5	638.5	638.5	638.4	638.4	638.4	638.3	638.3	638.3	638.3
	638.2	638.2								
0 93	638.7	638.7	638.7	638.7	638.7	638.6	638.6	638.5	638.5	638.5
	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4
	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.3	638.3
	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3
	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.2
	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.1
	638.1	638.1	638.1	638.1	638.0	638.0	637.9	637.9	637.9	637.9
	637.8	637.8								
0 94	638.3	638.3	638.3	638.3	638.3	638.2	638.2	638.2	638.1	638.1
	638.1	638.1	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9
	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9
	637.9	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
	637.7	637.7	637.7	637.7	637.6	637.6	637.6	637.5	637.5	637.5
	637.5	637.4								
0 95	638.0	637.9	637.9	637.9	637.9	637.9	637.8	637.8	637.7	637.7
	637.7	637.7	637.7	637.6	637.6	637.6	637.6	637.6	637.6	637.6
	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6
	637.6	637.6	637.6	637.6	637.5	637.5	637.5	637.5	637.5	637.5
	637.5	637.5	637.5	637.5	637.5	637.5	637.5	637.5	637.5	637.5
	637.5	637.5	637.5	637.4	637.4	637.4	637.4	637.4	637.4	637.4
	637.4	637.4	637.4	637.4	637.4	637.4	637.4	637.4	637.4	637.4
	637.4	637.3	637.3	637.3	637.3	637.2	637.2	637.1	637.1	637.1
	637.1	637.1								
0 96	637.6	637.6	637.5	637.5	637.5	637.5	637.4	637.4	637.3	637.3
	637.3	637.3	637.3	637.3	637.3	637.3	637.2	637.2	637.2	637.2
	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2
	637.2	637.2	637.2	637.2	637.2	637.2	637.1	637.1	637.1	637.1
	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1
	637.1	637.1	637.1	637.1	637.1	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	636.9	636.9	636.9	636.8	636.8	636.7	636.7	636.7
	636.7	636.7								
0 97	637.2	637.2	637.2	637.1	637.1	637.1	637.0	637.0	637.0	636.9
	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.8	636.8
	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.7	636.7
	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7
	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.6	636.6	636.6
	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
	636.6	636.6	636.5	636.5	636.5	636.4	636.4	636.3	636.3	636.3
	636.3	636.3								
0 98	636.8	636.8	636.8	636.8	636.7	636.7	636.7	636.6	636.6	636.5
	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4
	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4
	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.2
	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2
	636.2	636.2	636.1	636.1	636.1	636.0	636.0	635.9	635.9	635.9
	635.9	635.9								
0 99	636.4	636.4	636.4	636.4	636.3	636.3	636.3	636.2	636.2	636.1
	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1
	636.1	636.1	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8
	635.8	635.8	635.8	635.7	635.7	635.6	635.6	635.6	635.5	635.5
	635.5	635.5								
0100	636.0	636.0	636.0	636.0	636.0	635.9	635.9	635.8	635.8	635.8
	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7
	635.7	635.7	635.7	635.7	635.6	635.6	635.6	635.6	635.6	635.6
	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6
	635.6	635.6	635.6	635.5	635.5	635.5	635.5	635.5	635.5	635.5
	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5
	635.5	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4
	635.4	635.4	635.4	635.3	635.3	635.2	635.2	635.2	635.1	635.1
	635.1	635.1								
0101	635.6	635.6	635.6	635.6	635.6	635.5	635.5	635.4	635.4	635.4
	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3
	635.3	635.3	635.3	635.3	635.3	635.3	635.2	635.2	635.2	635.2
	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2
	635.2	635.2	635.2	635.2	635.1	635.1	635.1	635.1	635.1	635.1
	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1
	635.1	635.1	635.1	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	634.9	634.9	634.8	634.8	634.8	634.7	634.7
	634.7	634.7								
0102	635.3	635.2	635.2	635.2	635.2	635.1	635.1	635.0	635.0	635.0
	635.0	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9
	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.8	634.8	634.8

	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
	634.8	634.8	634.8	634.8	634.8	634.7	634.7	634.7	634.7	634.7
	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
	634.7	634.7	634.7	634.7	634.6	634.6	634.6	634.6	634.6	634.6
	634.6	634.6	634.6	634.5	634.5	634.4	634.4	634.4	634.3	634.3
	634.3	634.3								
0103	634.9	634.9	634.8	634.8	634.8	634.7	634.7	634.7	634.6	634.6
	634.6	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5
	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.4	634.4
	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4
	634.4	634.4	634.4	634.4	634.4	634.4	634.3	634.3	634.3	634.3
	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3
	634.3	634.3	634.3	634.3	634.2	634.2	634.2	634.2	634.2	634.2
	634.2	634.2	634.2	634.1	634.1	634.0	634.0	634.0	633.9	633.9
	633.9	633.9								
0104	634.5	634.5	634.5	634.4	634.4	634.4	634.3	634.3	634.2	634.2
	634.2	634.2	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1
	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.9	633.9	633.9
	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9
	633.9	633.9	633.9	633.9	633.9	633.8	633.8	633.8	633.8	633.8
	633.8	633.8	633.8	633.7	633.7	633.6	633.6	633.6	633.5	633.5
	633.5	633.5								
0105	634.1	634.1	634.1	634.0	634.0	634.0	633.9	633.9	633.8	633.8
	633.8	633.8	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7
	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7
	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6
	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.5	633.5
	633.5	633.5	633.5	633.5	633.5	633.5	633.5	633.5	633.5	633.5
	633.5	633.5	633.5	633.5	633.5	633.5	633.4	633.4	633.4	633.4
	633.4	633.4	633.4	633.3	633.3	633.2	633.2	633.2	633.1	633.1
	633.1	633.1								
0106	633.7	633.7	633.7	633.6	633.6	633.6	633.5	633.5	633.4	633.4
	633.4	633.4	633.4	633.3	633.3	633.3	633.3	633.3	633.3	633.3
	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3
	633.3	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2
	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.1	633.1
	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1
	633.1	633.1	633.1	633.1	633.1	633.1	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	632.9	632.9	632.8	632.8	632.8	632.7	632.7
	632.7	632.7								
0107	633.3	633.3	633.3	633.3	633.2	633.2	633.1	633.1	633.0	633.0
	633.0	633.0	633.0	633.0	632.9	632.9	632.9	632.9	632.9	632.9
	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9
	632.9	632.9	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8
	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.7
	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
	632.7	632.7	632.7	632.7	632.7	632.7	632.6	632.6	632.6	632.6
	632.6	632.6	632.6	632.5	632.5	632.4	632.4	632.4	632.3	632.3
	632.3	632.3								
0108	632.9	632.9	632.9	632.9	632.8	632.8	632.7	632.7	632.6	632.6
	632.6	632.6	632.6	632.6	632.6	632.5	632.5	632.5	632.5	632.5
	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
	632.5	632.5	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4
	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.3
	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3
	632.3	632.3	632.3	632.3	632.3	632.3	632.2	632.2	632.2	632.2
	632.2	632.2	632.2	632.1	632.1	632.0	632.0	632.0	631.9	631.9
	631.9	631.9								
0109	632.5	632.5	632.5	632.5	632.4	632.4	632.3	632.3	632.2	632.2
	632.2	632.2	632.2	632.2	632.2	632.1	632.1	632.1	632.1	632.1
	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1
	632.1	632.1	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.9
	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9
	631.9	631.9	631.9	631.9	631.9	631.9	631.8	631.8	631.8	631.8
	631.8	631.8	631.8	631.7	631.7	631.6	631.6	631.6	631.5	631.5
	631.5	631.5								
0110	632.1	632.1	632.1	632.1	632.0	632.0	632.0	631.9	631.9	631.8
	631.8	631.8	631.8	631.8	631.8	631.7	631.7	631.7	631.7	631.7
	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
	631.7	631.7	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6
	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.5
	631.5	631.5	631.5	631.5	631.5	631.5	631.5	631.5	631.5	631.5
	631.5	631.5	631.5	631.5	631.5	631.5	631.4	631.4	631.4	631.4
	631.4	631.4	631.4	631.3	631.3	631.2	631.2	631.1	631.1	631.1
	631.1	631.1								
0111	631.7	631.7	631.7	631.7	631.6	631.6	631.6	631.5	631.5	631.4
	631.4	631.4	631.4	631.4	631.4	631.4	631.3	631.3	631.3	631.3
	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3
	631.3	631.3	631.3	631.2	631.2	631.2	631.2	631.2	631.2	631.2
	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.1
	631.1	631.1	631.1	631.1	631.1	631.1	631.1	631.1	631.1	631.1
	631.1	631.1	631.1	631.1	631.1	631.1	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	630.9	630.9	630.8	630.8	630.7	630.7	630.7
	630.7	630.7								
0112	631.3	631.3	631.3	631.3	631.2	631.2	631.2	631.1	631.1	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	630.9	630.9	630.9	630.9
	630.9	630.9	630.9	630.9	630.9	630.9	630.9	630.9	630.9	630.9
	630.9	630.9	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8
	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.7
	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
	630.7	630.7	630.7	630.7	630.7	630.6	630.6	630.6	630.6	630.6
	630.6	630.6	630.6	630.5	630.5	630.4	630.4	630.3	630.3	630.3
	630.3	630.2								
0113	630.9	630.9	630.9	630.9	630.9	630.8	630.8	630.7	630.7	630.6
	630.6	630.6	630.6	630.6	630.6	630.6	630.5	630.5	630.5	630.5
	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5
	630.5	630.5	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.3	630.3
	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3
	630.3	630.3	630.3	630.3	630.3	630.2	630.2	630.2	630.2	630.2
	630.2	630.2	630.2	630.1	630.1	630.0	630.0	629.9	629.9	629.9
	629.8	629.8								
0114	630.5	630.5	630.5	630.5	630.5	630.4	630.4	630.3	630.3	630.2
	630.2	630.2	630.2	630.2	630.2	630.2	630.1	630.1	630.1	630.1
	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
	630.1	630.1	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.9	629.9
	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9
	629.9	629.9	629.9	629.9	629.8	629.8	629.8	629.8	629.8	629.8
	629.8	629.8	629.8	629.7	629.7	629.6	629.6	629.5	629.5	629.5
	629.4	629.4								
0115	630.1	630.1	630.1	630.1	630.1	630.0	630.0	629.9	629.9	629.8
	629.8	629.8	629.8	629.8	629.8	629.7	629.7	629.7	629.7	629.7
	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7
	629.7	629.7	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.6
	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.5	629.5	629.5
	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
	629.5	629.5	629.5	629.4	629.4	629.4	629.4	629.4	629.4	629.4
	629.4	629.4	629.4	629.3	629.3	629.2	629.2	629.1	629.1	629.0

	629.0	629.0								
0116	629.7	629.7	629.7	629.7	629.7	629.6	629.6	629.5	629.5	629.4
	629.4	629.4	629.4	629.4	629.4	629.3	629.3	629.3	629.3	629.3
	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3
	629.3	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2
	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.1	629.1	629.1
	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1
	629.1	629.1	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.9	628.9	628.9	628.8	628.7	628.7	628.7	628.6
	628.6	628.6								
0117	629.3	629.3	629.3	629.3	629.3	629.2	629.2	629.1	629.1	629.0
	629.0	629.0	629.0	629.0	629.0	628.9	628.9	628.9	628.9	628.9
	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9
	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
	628.8	628.8	628.8	628.8	628.8	628.8	628.7	628.7	628.7	628.7
	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7
	628.7	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
	628.6	628.6	628.5	628.5	628.5	628.4	628.3	628.3	628.3	628.2
	628.2	628.2								
0118	628.9	628.9	628.9	628.9	628.9	628.8	628.8	628.7	628.7	628.6
	628.6	628.6	628.6	628.6	628.5	628.5	628.5	628.5	628.5	628.5
	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5
	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
	628.4	628.4	628.4	628.4	628.4	628.3	628.3	628.3	628.3	628.3
	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3
	628.2	628.2	628.2	628.2	628.2	628.2	628.2	628.2	628.2	628.2
	628.2	628.2	628.1	628.1	628.0	628.0	627.9	627.9	627.8	627.8
	627.8	627.8								
0119	628.5	628.5	628.5	628.5	628.5	628.4	628.4	628.3	628.2	628.2
	628.2	628.2	628.2	628.1	628.1	628.1	628.1	628.1	628.1	628.1
	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	627.9	627.9	627.9	627.9	627.9	627.9
	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.8
	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8
	627.8	627.8	627.7	627.7	627.6	627.6	627.5	627.5	627.4	627.4
	627.4	627.4								
0120	628.1	628.1	628.1	628.1	628.1	628.0	628.0	627.9	627.8	627.8
	627.8	627.8	627.8	627.7	627.7	627.7	627.7	627.7	627.7	627.7
	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.6	627.6
	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6
	627.6	627.6	627.6	627.5	627.5	627.5	627.5	627.5	627.5	627.5
	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.4	627.4
	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4
	627.4	627.3	627.3	627.3	627.2	627.2	627.1	627.1	627.0	627.0
	627.0	627.0								
0121	627.7	627.7	627.7	627.7	627.7	627.6	627.6	627.5	627.4	627.4
	627.4	627.4	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3
	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.2	627.2	627.2
	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2
	627.2	627.2	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1
	627.1	627.1	627.1	627.1	627.1	627.1	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	626.9	626.9	626.9	626.8	626.7	626.7	626.6	626.6	626.6	626.6
	626.6	626.5								
0122	627.3	627.3	627.3	627.3	627.2	627.2	627.1	627.1	627.0	627.0
	627.0	627.0	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
	626.9	626.9	626.9	626.9	626.9	626.9	626.8	626.8	626.8	626.8
	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8
	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7
	626.7	626.7	626.7	626.7	626.7	626.6	626.6	626.6	626.6	626.6
	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6
	626.5	626.5	626.5	626.5	626.4	626.3	626.3	626.2	626.2	626.2
	626.1	626.1								
0123	626.9	626.9	626.9	626.9	626.8	626.8	626.7	626.7	626.6	626.6
	626.6	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5
	626.5	626.5	626.5	626.5	626.5	626.4	626.4	626.4	626.4	626.4
	626.4	626.4	626.4	626.4	626.4	626.4	626.4	626.4	626.4	626.3
	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3
	626.3	626.3	626.3	626.2	626.2	626.2	626.2	626.2	626.2	626.2
	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.1	626.1
	626.1	626.1	626.1	626.0	626.0	625.9	625.9	625.8	625.8	625.7
	625.7	625.7								
0124	626.5	626.5	626.5	626.5	626.4	626.4	626.3	626.3	626.2	626.2
	626.2	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1
	626.1	626.1	626.1	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.9	625.9
	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9
	625.9	625.9	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8
	625.8	625.8	625.8	625.8	625.8	625.8	625.7	625.7	625.7	625.7
	625.7	625.7	625.7	625.6	625.6	625.5	625.4	625.4	625.4	625.3
	625.3	625.3								
0125	626.1	626.1	626.1	626.1	626.0	626.0	625.9	625.9	625.8	625.8
	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
	625.7	625.7	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6
	625.6	625.6	625.6	625.6	625.6	625.6	625.5	625.5	625.5	625.5
	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4
	625.4	625.4	625.4	625.4	625.3	625.3	625.3	625.3	625.3	625.3
	625.3	625.3	625.3	625.2	625.2	625.1	625.0	625.0	624.9	624.9
	624.9	624.9								
0126	625.7	625.7	625.7	625.7	625.6	625.6	625.5	625.5	625.4	625.4
	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3
	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2
	625.2	625.2	625.2	625.2	625.2	625.1	625.1	625.1	625.1	625.1
	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	624.9	624.9	624.9	624.9	624.9	624.9	624.9
	624.9	624.9	624.8	624.8	624.7	624.7	624.6	624.6	624.5	624.5
	624.5	624.5								
0127	625.3	625.3	625.3	625.3	625.2	625.2	625.1	625.1	625.0	625.0
	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.8
	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
	624.8	624.8	624.8	624.7	624.7	624.7	624.7	624.7	624.7	624.7
	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.6	624.6	624.6
	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6
	624.6	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5
	624.5	624.5	624.4	624.4	624.3	624.3	624.2	624.1	624.1	624.1
	624.0	624.0								
0128	624.9	624.9	624.9	624.9	624.8	624.8	624.7	624.6	624.6	624.5
	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.4	624.4	624.4
	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4
	624.4	624.3	624.3	624.3	624.3	624.3	624.3	624.3	624.3	624.3
	624.3	624.3	624.3	624.3	624.3	624.2	624.2	624.2	624.2	624.2
	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.1
	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1
	624.1	624.0	624.0	624.0	623.9	623.8	623.8	623.7	623.7	623.7
	623.6	623.6								
0129	624.5	624.5	624.5	624.4	624.4	624.4	624.3	624.2	624.2	624.1
	624.1	624.1	624.1	624.1	624.1	624.1	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.9
	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9

	623.9	623.9	623.9	623.8	623.8	623.8	623.8	623.8	623.8	623.8
	623.8	623.8	623.8	623.8	623.8	623.8	623.7	623.7	623.7	623.7
	623.7	623.7	623.7	623.7	623.7	623.7	623.7	623.7	623.7	623.7
	623.6	623.6	623.6	623.5	623.5	623.4	623.4	623.3	623.3	623.2
	623.2	623.2								
0130	624.1	624.1	624.1	624.0	624.0	623.9	623.9	623.8	623.8	623.7
	623.7	623.7	623.7	623.7	623.6	623.6	623.6	623.6	623.6	623.6
	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.5	623.5
	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5
	623.5	623.4	623.4	623.4	623.4	623.4	623.4	623.4	623.4	623.4
	623.4	623.4	623.4	623.4	623.3	623.3	623.3	623.3	623.3	623.3
	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.2	623.2
	623.2	623.2	623.2	623.1	623.1	623.0	622.9	622.9	622.8	622.8
	622.8	622.8								
0131	623.7	623.7	623.7	623.6	623.6	623.5	623.5	623.4	623.4	623.3
	623.3	623.3	623.2	623.2	623.2	623.2	623.2	623.2	623.2	623.2
	623.2	623.2	623.2	623.2	623.2	623.2	623.1	623.1	623.1	623.1
	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
	622.9	622.9	622.9	622.9	622.9	622.8	622.8	622.8	622.8	622.8
	622.8	622.8	622.8	622.7	622.6	622.6	622.5	622.5	622.4	622.4
	622.4	622.4								
0132	623.3	623.3	623.3	623.2	623.2	623.1	623.1	623.0	622.9	622.9
	622.9	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
	622.8	622.8	622.8	622.8	622.7	622.7	622.7	622.7	622.7	622.7
	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.6	622.6	622.6
	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5
	622.5	622.5	622.5	622.4	622.4	622.4	622.4	622.4	622.4	622.4
	622.4	622.4	622.3	622.3	622.2	622.2	622.1	622.0	622.0	622.0
	621.9	621.9								
0133	622.9	622.9	622.8	622.8	622.8	622.7	622.7	622.6	622.5	622.5
	622.5	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4
	622.4	622.4	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
	622.3	622.3	622.3	622.3	622.3	622.2	622.2	622.2	622.2	622.2
	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.1	622.1
	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1
	622.1	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	621.9	621.9	621.9	621.8	621.7	621.7	621.6	621.6	621.5
	621.5	621.5								
0134	622.5	622.5	622.4	622.4	622.4	622.3	622.2	622.2	622.1	622.1
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9
	621.9	621.9	621.9	621.8	621.8	621.8	621.8	621.8	621.8	621.8
	621.8	621.8	621.8	621.8	621.8	621.7	621.7	621.7	621.7	621.7
	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.6	621.6
	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6
	621.5	621.5	621.5	621.4	621.4	621.3	621.2	621.2	621.1	621.1
	621.1	621.1								
0135	622.1	622.0	622.0	622.0	621.9	621.9	621.8	621.8	621.7	621.7
	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.5	621.5	621.5
	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4
	621.4	621.4	621.4	621.3	621.3	621.3	621.3	621.3	621.3	621.3
	621.3	621.3	621.3	621.3	621.3	621.3	621.2	621.2	621.2	621.2
	621.2	621.2	621.2	621.2	621.2	621.2	621.2	621.2	621.1	621.1
	621.1	621.1	621.1	621.0	621.0	620.9	620.8	620.8	620.7	620.7
	620.7	620.6								
0136	621.6	621.6	621.6	621.6	621.5	621.5	621.4	621.3	621.3	621.2
	621.2	621.2	621.2	621.2	621.2	621.1	621.1	621.1	621.1	621.1
	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	620.9	620.9	620.9	620.9	620.9	620.9	620.9	620.9	620.9
	620.9	620.9	620.9	620.8	620.8	620.8	620.8	620.8	620.8	620.8
	620.8	620.8	620.8	620.8	620.8	620.8	620.7	620.7	620.7	620.7
	620.7	620.7	620.7	620.6	620.5	620.5	620.4	620.3	620.3	620.3
	620.2	620.2								
0137	621.2	621.2	621.2	621.2	621.1	621.1	621.0	620.9	620.9	620.8
	620.8	620.8	620.8	620.7	620.7	620.7	620.7	620.7	620.7	620.7
	620.7	620.7	620.7	620.7	620.7	620.7	620.6	620.6	620.6	620.6
	620.6	620.6	620.6	620.6	620.6	620.6	620.6	620.6	620.5	620.5
	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5
	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4
	620.4	620.4	620.4	620.3	620.3	620.3	620.3	620.3	620.3	620.3
	620.3	620.3	620.2	620.2	620.1	620.0	620.0	619.9	619.9	619.8
	619.8	619.8								
0138	620.8	620.8	620.8	620.7	620.7	620.7	620.6	620.5	620.5	620.4
	620.4	620.4	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3
	620.3	620.3	620.3	620.2	620.2	620.2	620.2	620.2	620.2	620.2
	620.2	620.2	620.2	620.2	620.2	620.2	620.1	620.1	620.1	620.1
	620.1	620.1	620.1	620.1	620.1	620.1	620.1	620.1	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9
	619.9	619.8	619.8	619.8	619.7	619.6	619.5	619.5	619.4	619.4
	619.4	619.4								
0139	620.4	620.4	620.4	620.3	620.3	620.2	620.2	620.1	620.0	620.0
	620.0	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9
	619.9	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8
	619.8	619.8	619.8	619.7	619.7	619.7	619.7	619.7	619.7	619.7
	619.7	619.7	619.7	619.7	619.7	619.6	619.6	619.6	619.6	619.6
	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.5	619.5	619.5
	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.4
	619.4	619.4	619.4	619.3	619.3	619.2	619.1	619.1	619.0	619.0
	618.9	618.9								
0140	620.0	620.0	620.0	619.9	619.9	619.8	619.8	619.7	619.6	619.6
	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.4	619.4
	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4
	619.4	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
	619.3	619.3	619.3	619.2	619.2	619.2	619.2	619.2	619.2	619.2
	619.2	619.2	619.2	619.2	619.1	619.1	619.1	619.1	619.1	619.1
	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.0	619.0	619.0
	619.0	619.0	619.0	618.9	618.8	618.8	618.7	618.6	618.6	618.5
	618.5	618.5								
0141	619.6	619.6	619.5	619.5	619.5	619.4	619.3	619.3	619.2	619.1
	619.1	619.1	619.1	619.1	619.1	619.1	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.9	618.9
	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9
	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8
	618.8	618.8	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7
	618.7	618.7	618.7	618.6	618.6	618.6	618.6	618.6	618.6	618.6
	618.6	618.6	618.5	618.5	618.4	618.3	618.3	618.2	618.1	618.1
	618.1	618.1								
0142	619.2	619.1	619.1	619.1	619.0	619.0	618.9	618.8	618.8	618.7
	618.7	618.7	618.7	618.6	618.6	618.6	618.6	618.6	618.6	618.6
	618.6	618.6	618.6	618.6	618.6	618.5	618.5	618.5	618.5	618.5
	618.5	618.5	618.5	618.5	618.5	618.5	618.5	618.4	618.4	618.4
	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.3
	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3
	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
	618.2	618.1	618.1	618.0	618.0	617.9	617.8	617.8	617.7	617.7
	617.7	617.6								

0143	618.7	618.7	618.7	618.7	618.6	618.6	618.5	618.4	618.4	618.3
	618.3	618.3	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
	618.2	618.2	618.2	618.1	618.1	618.1	618.1	618.1	618.1	618.1
	618.1	618.1	618.1	618.1	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	617.9	617.9	617.9	617.9
	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.8	617.8	617.8
	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.7
	617.7	617.7	617.7	617.6	617.5	617.5	617.4	617.3	617.3	617.2
	617.2	617.2								
0144	618.3	618.3	618.3	618.3	618.2	618.1	618.1	618.0	617.9	617.9
	617.9	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7
	617.7	617.7	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6
	617.6	617.6	617.6	617.5	617.5	617.5	617.5	617.5	617.5	617.5
	617.5	617.5	617.5	617.5	617.4	617.4	617.4	617.4	617.4	617.4
	617.4	617.4	617.4	617.4	617.4	617.4	617.3	617.3	617.3	617.3
	617.3	617.3	617.2	617.2	617.1	617.0	617.0	616.9	616.9	616.8
	616.8	616.8								
0145	617.9	617.9	617.9	617.8	617.8	617.7	617.7	617.6	617.5	617.5
	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.3	617.3	617.3
	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.2
	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2
	617.1	617.1	617.1	617.1	617.1	617.1	617.1	617.1	617.1	617.1
	617.1	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	616.9	616.9	616.9	616.9	616.9	616.9	616.9
	616.9	616.8	616.8	616.8	616.7	616.6	616.5	616.5	616.4	616.4
	616.4	616.3								
0146	617.5	617.5	617.5	617.4	617.4	617.3	617.2	617.2	617.1	617.0
	617.0	617.0	617.0	617.0	616.9	616.9	616.9	616.9	616.9	616.9
	616.9	616.9	616.9	616.9	616.9	616.9	616.8	616.8	616.8	616.8
	616.8	616.8	616.8	616.8	616.8	616.8	616.8	616.7	616.7	616.7
	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.6	616.6
	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.5
	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
	616.4	616.4	616.4	616.3	616.3	616.2	616.1	616.0	616.0	615.9
	615.9	615.9								
0147	617.1	617.1	617.0	617.0	616.9	616.9	616.8	616.7	616.7	616.6
	616.6	616.6	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
	616.5	616.5	616.5	616.4	616.4	616.4	616.4	616.4	616.4	616.4
	616.4	616.4	616.4	616.4	616.3	616.3	616.3	616.3	616.3	616.3
	616.3	616.3	616.3	616.3	616.3	616.2	616.2	616.2	616.2	616.2
	616.2	616.2	616.2	616.2	616.2	616.2	616.1	616.1	616.1	616.1
	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.0	616.0	616.0
	616.0	616.0	616.0	615.9	615.8	615.7	615.7	615.6	615.5	615.5
	615.5	615.5								
0148	616.7	616.6	616.6	616.6	616.5	616.5	616.4	616.3	616.2	616.2
	616.2	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
	616.0	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9
	615.9	615.9	615.8	615.8	615.8	615.8	615.8	615.8	615.8	615.8
	615.8	615.8	615.8	615.7	615.7	615.7	615.7	615.7	615.7	615.7
	615.7	615.7	615.7	615.7	615.6	615.6	615.6	615.6	615.6	615.6
	615.6	615.6	615.5	615.5	615.4	615.3	615.2	615.2	615.1	615.1
	615.0	615.0								
0149	616.2	616.2	616.2	616.2	616.1	616.0	616.0	615.9	615.8	615.8
	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.6	615.6	615.6
	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.5	615.5
	615.5	615.5	615.5	615.5	615.5	615.5	615.5	615.5	615.5	615.4
	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4
	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3
	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
	615.1	615.1	615.1	615.0	615.0	614.9	614.8	614.7	614.7	614.6
	614.6	614.6								
0150	615.8	615.8	615.8	615.7	615.7	615.6	615.5	615.5	615.4	615.3
	615.3	615.3	615.3	615.3	615.2	615.2	615.2	615.2	615.2	615.2
	615.2	615.2	615.2	615.2	615.2	615.1	615.1	615.1	615.1	615.1
	615.1	615.1	615.1	615.1	615.1	615.1	615.0	615.0	615.0	615.0
	615.0	615.0	615.0	615.0	615.0	615.0	614.9	614.9	614.9	614.9
	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.8	614.8	614.8
	614.8	614.8	614.8	614.8	614.8	614.8	614.8	614.8	614.7	614.7
	614.7	614.7	614.7	614.6	614.5	614.4	614.4	614.3	614.2	614.2
	614.2	614.1								
0151	615.4	615.4	615.4	615.3	615.3	615.2	615.1	615.0	615.0	614.9
	614.9	614.9	614.8	614.8	614.8	614.8	614.8	614.8	614.8	614.8
	614.8	614.8	614.7	614.7	614.7	614.7	614.7	614.7	614.7	614.7
	614.7	614.7	614.7	614.6	614.6	614.6	614.6	614.6	614.6	614.6
	614.6	614.6	614.6	614.5	614.5	614.5	614.5	614.5	614.5	614.5
	614.5	614.5	614.5	614.5	614.4	614.4	614.4	614.4	614.4	614.4
	614.4	614.4	614.4	614.4	614.3	614.3	614.3	614.3	614.3	614.3
	614.3	614.3	614.2	614.2	614.1	614.0	613.9	613.9	613.8	613.8
	613.7	613.7								
0152	615.0	615.0	614.9	614.9	614.8	614.8	614.7	614.6	614.5	614.5
	614.5	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.3
	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.2
	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2
	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1
	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
	614.0	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9
	613.8	613.8	613.8	613.7	613.6	613.6	613.5	613.4	613.4	613.3
	613.3	613.3								
0153	614.5	614.5	614.5	614.5	614.4	614.3	614.3	614.2	614.1	614.1
	614.0	614.0	614.0	614.0	614.0	613.9	613.9	613.9	613.9	613.9
	613.9	613.9	613.9	613.9	613.9	613.9	613.8	613.8	613.8	613.8
	613.8	613.8	613.8	613.8	613.8	613.8	613.8	613.7	613.7	613.7
	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.6	613.6	613.6
	613.6	613.6	613.6	613.6	613.6	613.6	613.6	613.5	613.5	613.5
	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.4	613.4
	613.4	613.4	613.3	613.3	613.2	613.1	613.0	613.0	612.9	612.9
	612.8	612.8								
0154	614.1	614.1	614.1	614.0	614.0	613.9	613.8	613.8	613.7	613.6
	613.6	613.6	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5
	613.5	613.5	613.5	613.4	613.4	613.4	613.4	613.4	613.4	613.4
	613.4	613.4	613.4	613.3	613.3	613.3	613.3	613.3	613.3	613.3
	613.3	613.3	613.3	613.2	613.2	613.2	613.2	613.2	613.2	613.2
	613.2	613.2	613.2	613.2	613.1	613.1	613.1	613.1	613.1	613.1
	613.1	613.1	613.1	613.1	613.0	613.0	613.0	613.0	613.0	613.0
	613.0	613.0	612.9	612.9	612.8	612.7	612.6	612.5	612.5	612.4
	612.4	612.4								
0155	613.7	613.7	613.7	613.6	613.6	613.5	613.4	613.3	613.3	613.2
	613.2	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0
	612.9	612.9	612.9	612.9	612.9	612.9	612.9	612.9	612.9	612.9
	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8
	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7
	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6
	612.5	612.5	612.5	612.4	612.3	612.2	612.2	612.1	612.0	612.0
	612.0	611.9								
0156	613.3	613.3	613.2	613.2	613.1	613.1	613.0	612.9	612.8	612.8
	612.7	612.7	612.7	612.7	612.7	612.7	612.6	612.6	612.6	612.6
	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.5	612.5	612.5
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0157	612.8	612.8	612.8	612.8	612.7	612.6	612.6	612.5	612.4	612.3
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0159	612.0	612.0	612.0	611.9	611.9	611.8	611.7	611.6	611.5	611.5
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0160	611.6	611.6	611.5	611.5	611.4	611.4	611.3	611.2	611.1	611.0
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0162	610.7	610.7	610.7	610.6	610.6	610.5	610.4	610.3	610.2	610.2
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0165	609.4	609.4	609.4	609.3	609.3	609.2	609.1	609.0	608.9	608.9
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	602.5	602.5	602.5	602.4	602.4	602.4	602.4	602.4	602.4	602.4
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	602.2	602.2	602.2	602.2	602.2	602.2	602.1	602.1	602.1	602.1
	602.1	602.1	602.1	602.1	602.0	602.0	602.0	602.0	602.0	602.0
	602.0	601.9	601.9	601.9	601.9	601.9	601.9	601.9	601.9	601.8
	601.8	601.8	601.7	601.7	601.5	601.4	601.3	601.2	601.1	601.1
	601.0	601.0								
0180	602.9	602.9	602.8	602.8	602.7	602.6	602.5	602.4	602.3	602.2
	602.2	602.2	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.0
	602.0	602.0	602.0	602.0	602.0	602.0	602.0	601.9	601.9	601.9
	601.9	601.9	601.9	601.9	601.8	601.8	601.8	601.8	601.8	601.8
	601.8	601.8	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.6
	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.5	601.5	601.5
	601.5	601.5	601.5	601.5	601.5	601.4	601.4	601.4	601.4	601.4
	601.4	601.3	601.3	601.2	601.1	601.0	600.9	600.8	600.7	600.6
	600.6	600.6								
0181	602.4	602.4	602.4	602.3	602.3	602.2	602.1	602.0	601.9	601.8
	601.7	601.7	601.7	601.7	601.7	601.6	601.6	601.6	601.6	601.6
	601.6	601.6	601.6	601.5	601.5	601.5	601.5	601.5	601.5	601.5
	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.3	601.3
	601.3	601.3	601.3	601.3	601.3	601.2	601.2	601.2	601.2	601.2
	601.2	601.2	601.2	601.1	601.1	601.1	601.1	601.1	601.1	601.1
	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	600.9	600.9
	600.9	600.9	600.8	600.7	600.6	600.5	600.4	600.3	600.2	600.2
	600.1	600.1								
0182	602.0	602.0	601.9	601.9	601.8	601.7	601.6	601.5	601.4	601.3
	601.3	601.3	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.1
	601.1	601.1	601.1	601.1	601.1	601.1	601.0	601.0	601.0	601.0
	601.0	601.0	601.0	601.0	600.9	600.9	600.9	600.9	600.9	600.9
	600.9	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.7
	600.7	600.7	600.7	600.7	600.7	600.7	600.6	600.6	600.6	600.6
	600.6	600.6	600.6	600.6	600.5	600.5	600.5	600.5	600.5	600.5
	600.4	600.4	600.4	600.3	600.2	600.0	599.9	599.8	599.7	599.7
	599.6	599.6								
0183	601.6	601.5	601.5	601.5	601.4	601.3	601.2	601.1	601.0	600.9
	600.8	600.8	600.8	600.8	600.8	600.7	600.7	600.7	600.7	600.7
	600.7	600.7	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
	600.5	600.5	600.5	600.5	600.5	600.5	600.5	600.4	600.4	600.4
	600.4	600.4	600.4	600.4	600.4	600.3	600.3	600.3	600.3	600.3
	600.3	600.3	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.1

	600.1	600.1	600.1	600.1	600.1	600.1	600.1	600.0	600.0	600.0
	600.0	600.0	599.9	599.8	599.7	599.6	599.5	599.4	599.3	599.2
	599.2	599.2								
0184	601.1	601.1	601.1	601.0	600.9	600.8	600.7	600.6	600.5	600.4
	600.4	600.4	600.3	600.3	600.3	600.3	600.3	600.3	600.2	600.2
	600.2	600.2	600.2	600.2	600.2	600.2	600.1	600.1	600.1	600.1
	600.1	600.1	600.1	600.0	600.0	600.0	600.0	600.0	600.0	600.0
	600.0	599.9	599.9	599.9	599.9	599.9	599.9	599.9	599.8	599.8
	599.8	599.8	599.8	599.8	599.8	599.7	599.7	599.7	599.7	599.7
	599.7	599.7	599.7	599.6	599.6	599.6	599.6	599.6	599.6	599.6
	599.5	599.5	599.4	599.4	599.2	599.1	599.0	598.9	598.8	598.7
	598.7	598.7								
0185	600.7	600.7	600.6	600.6	600.5	600.4	600.3	600.2	600.1	600.0
	599.9	599.9	599.9	599.9	599.8	599.8	599.8	599.8	599.8	599.8
	599.8	599.8	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.6
	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.5	599.5	599.5
	599.5	599.5	599.5	599.5	599.4	599.4	599.4	599.4	599.4	599.4
	599.4	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.2	599.2
	599.2	599.2	599.2	599.2	599.2	599.2	599.1	599.1	599.1	599.1
	599.1	599.0	599.0	598.9	598.8	598.6	598.5	598.4	598.3	598.3
	598.2	598.2								
0186	600.2	600.2	600.2	600.1	600.0	600.0	599.8	599.7	599.6	599.5
	599.5	599.5	599.4	599.4	599.4	599.4	599.4	599.4	599.3	599.3
	599.3	599.3	599.3	599.3	599.3	599.2	599.2	599.2	599.2	599.2
	599.2	599.2	599.2	599.1	599.1	599.1	599.1	599.1	599.1	599.1
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	598.9	598.9	598.9	598.9	598.8	598.8	598.8	598.8	598.8	598.8
	598.8	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.6	598.6
	598.6	598.6	598.5	598.4	598.3	598.2	598.1	598.0	597.9	597.8
	597.8	597.7								
0187	599.8	599.8	599.7	599.7	599.6	599.5	599.4	599.3	599.2	599.1
	599.0	599.0	599.0	599.0	598.9	598.9	598.9	598.9	598.9	598.9
	598.9	598.8	598.8	598.8	598.8	598.8	598.8	598.8	598.8	598.7
	598.7	598.7	598.7	598.7	598.7	598.7	598.6	598.6	598.6	598.6
	598.6	598.6	598.6	598.5	598.5	598.5	598.5	598.5	598.5	598.5
	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.3	598.3	598.3
	598.3	598.3	598.3	598.3	598.2	598.2	598.2	598.2	598.2	598.2
	598.1	598.1	598.0	598.0	597.8	597.7	597.6	597.5	597.4	597.3
	597.3	597.3								
0188	599.3	599.3	599.3	599.2	599.2	599.1	599.0	598.8	598.7	598.6
	598.6	598.5	598.5	598.5	598.5	598.5	598.5	598.4	598.4	598.4
	598.4	598.4	598.4	598.4	598.4	598.3	598.3	598.3	598.3	598.3
	598.3	598.3	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.1
	598.1	598.1	598.1	598.1	598.1	598.1	598.0	598.0	598.0	598.0
	598.0	598.0	598.0	597.9	597.9	597.9	597.9	597.9	597.9	597.9
	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.7	597.7	597.7
	597.7	597.6	597.6	597.5	597.4	597.2	597.1	597.0	596.9	596.9
	596.8	596.8								
0189	598.9	598.9	598.8	598.8	598.7	598.6	598.5	598.4	598.3	598.2
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	598.0	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.8	597.8
	597.8	597.8	597.8	597.8	597.8	597.7	597.7	597.7	597.7	597.7
	597.7	597.7	597.6	597.6	597.6	597.6	597.6	597.6	597.5	597.5
	597.5	597.5	597.5	597.5	597.5	597.4	597.4	597.4	597.4	597.4
	597.4	597.4	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.2
	597.2	597.2	597.1	597.0	596.9	596.8	596.7	596.5	596.5	596.4
	596.3	596.3								
0190	598.3	598.3	598.3	598.2	598.1	598.0	597.9	597.8	597.7	597.6
	597.6	597.5	597.5	597.5	597.5	597.5	597.4	597.4	597.4	597.4
	597.4	597.4	597.4	597.3	597.3	597.3	597.3	597.3	597.3	597.3
	597.2	597.2	597.2	597.2	597.2	597.2	597.2	597.1	597.1	597.1
	597.1	597.1	597.1	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.8	596.8	596.8
	596.8	596.8	596.8	596.8	596.7	596.7	596.7	596.7	596.7	596.7
	596.6	596.6	596.5	596.4	596.3	596.2	596.1	596.0	595.9	595.8
	595.7	595.7								
0191	597.5	597.5	597.4	597.4	597.3	597.2	597.1	597.0	596.8	596.8
	596.7	596.7	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.5
	596.5	596.5	596.5	596.5	596.5	596.5	596.4	596.4	596.4	596.4
	596.4	596.4	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.2
	596.2	596.2	596.2	596.2	596.2	596.2	596.1	596.1	596.1	596.1
	596.1	596.1	596.0	596.0	596.0	596.0	596.0	596.0	596.0	595.9
	595.9	595.9	595.9	595.9	595.9	595.9	595.8	595.8	595.8	595.8
	595.8	595.7	595.7	595.6	595.4	595.3	595.2	595.1	595.0	594.9
	594.9	594.8								
0192	596.2	596.2	596.2	596.1	596.0	595.9	595.8	595.7	595.6	595.5
	595.4	595.4	595.4	595.3	595.3	595.3	595.3	595.3	595.3	595.2
	595.2	595.2	595.2	595.2	595.2	595.2	595.1	595.1	595.1	595.1
	595.1	595.1	595.1	595.0	595.0	595.0	595.0	595.0	595.0	594.9
	594.9	594.9	594.9	594.9	594.9	594.8	594.8	594.8	594.8	594.8
	594.8	594.8	594.7	594.7	594.7	594.7	594.7	594.7	594.6	594.6
	594.6	594.6	594.6	594.6	594.6	594.5	594.5	594.5	594.5	594.5
	594.4	594.4	594.3	594.2	594.1	594.0	593.8	593.7	593.6	593.6
	593.5	593.5								
0193	594.3	594.3	594.3	594.2	594.1	594.0	593.9	593.8	593.6	593.5
	593.5	593.4	593.4	593.4	593.4	593.4	593.3	593.3	593.3	593.3
	593.3	593.3	593.3	593.2	593.2	593.2	593.2	593.2	593.2	593.1
	593.1	593.1	593.1	593.1	593.1	593.0	593.0	593.0	593.0	593.0
	593.0	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.8	592.8
	592.8	592.8	592.8	592.8	592.7	592.7	592.7	592.7	592.7	592.7
	592.6	592.6	592.6	592.6	592.6	592.6	592.5	592.5	592.5	592.5
	592.5	592.4	592.4	592.3	592.1	592.0	591.8	591.7	591.6	591.5
	591.5	591.4								
0194	591.5	591.4	591.4	591.3	591.2	591.1	591.0	590.9	590.7	590.6
	590.6	590.5	590.5	590.5	590.4	590.4	590.4	590.4	590.4	590.4
	590.3	590.3	590.3	590.3	590.3	590.3	590.2	590.2	590.2	590.2
	590.2	590.2	590.1	590.1	590.1	590.1	590.1	590.1	590.0	590.0
	590.0	590.0	590.0	589.9	589.9	589.9	589.9	589.9	589.9	589.8
	589.8	589.8	589.8	589.8	589.8	589.7	589.7	589.7	589.7	589.7
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	589.5	589.4	589.3	589.2	589.1	588.9	588.8	588.6	588.5	588.5
	588.4	588.4								
0195	587.1	587.1	587.1	587.0	586.9	586.7	586.6	586.4	586.3	586.2
	586.1	586.1	586.0	586.0	586.0	586.0	586.0	585.9	585.9	585.9
	585.9	585.9	585.8	585.8	585.8	585.8	585.8	585.7	585.7	585.7
	585.7	585.7	585.7	585.6	585.6	585.6	585.6	585.6	585.5	585.5
	585.5	585.5	585.5	585.4	585.4	585.4	585.4	585.4	585.3	585.3
	585.3	585.3	585.3	585.2	585.2	585.2	585.2	585.2	585.1	585.1
	585.1	585.1	585.1	585.1	585.0	585.0	585.0	585.0	585.0	584.9
	584.9	584.8	584.8	584.6	584.5	584.3	584.1	584.0	583.9	583.8
	583.7	583.7								
0196	581.8	581.8	581.8	581.7	581.6	581.4	581.3	581.1	580.9	580.8
	580.7	580.6	580.6	580.6	580.6	580.5	580.5	580.5	580.5	580.5
	580.4	580.4	580.4	580.4	580.3	580.3	580.3	580.3	580.3	580.2
	580.2	580.2	580.2	580.2	580.1	580.1	580.1	580.1	580.0	580.0
	580.0	580.0	580.0	579.9	579.9	579.9	579.9	579.8	579.8	579.8
	579.8	579.8	579.7	579.7	579.7	579.7	579.6	579.6	579.6	579.6
	579.6	579.5	579.5	579.5	579.5	579.5	579.4	579.4	579.4	579.4
	579.3	579.3	579.2	579.0	578.8	578.6	578.4	578.3	578.1	578.0
	577.9	577.9								
0197	576.5	576.5	576.4	576.3	576.2	576.0	575.8	575.6	575.4	575.3
	575.2	575.1	575.1	575.1	575.0	575.0	575.0	575.0	574.9	574.9

	574.9	574.9	574.9	574.8	574.8	574.8	574.8	574.7	574.7	574.7
	574.7	574.6	574.6	574.6	574.6	574.5	574.5	574.5	574.5	574.4
	574.4	574.4	574.4	574.3	574.3	574.3	574.3	574.2	574.2	574.2
	574.2	574.1	574.1	574.1	574.1	574.0	574.0	574.0	574.0	573.9
	573.9	573.9	573.9	573.8	573.8	573.8	573.8	573.7	573.7	573.7
	573.6	573.6	573.5	573.3	573.1	572.8	572.6	572.4	572.3	572.1
	572.1	572.0								
0198	571.1	571.0	571.0	570.8	570.7	570.5	570.3	570.1	569.9	569.7
	569.6	569.5	569.5	569.5	569.4	569.4	569.4	569.4	569.3	569.3
	569.3	569.3	569.2	569.2	569.2	569.1	569.1	569.1	569.1	569.0
	569.0	569.0	569.0	568.9	568.9	568.9	568.8	568.8	568.8	568.8
	568.7	568.7	568.7	568.6	568.6	568.6	568.6	568.5	568.5	568.5
	568.4	568.4	568.4	568.4	568.3	568.3	568.3	568.2	568.2	568.2
	568.2	568.1	568.1	568.1	568.0	568.0	568.0	568.0	567.9	567.9
	567.8	567.8	567.6	567.5	567.2	566.9	566.7	566.5	566.3	566.1
	566.0	566.0								
0199	565.6	565.5	565.5	565.3	565.2	565.0	564.7	564.5	564.2	564.1
	564.0	563.9	563.8	563.8	563.8	563.7	563.7	563.7	563.6	563.6
	563.6	563.5	563.5	563.5	563.5	563.4	563.4	563.4	563.3	563.3
	563.3	563.2	563.2	563.2	563.1	563.1	563.1	563.0	563.0	563.0
	563.0	562.9	562.9	562.9	562.8	562.8	562.8	562.7	562.7	562.7
	562.6	562.6	562.6	562.5	562.5	562.5	562.4	562.4	562.4	562.3
	562.3	562.3	562.2	562.2	562.2	562.1	562.1	562.1	562.0	562.0
	561.9	561.8	561.7	561.5	561.2	560.9	560.6	560.3	560.1	560.0
	559.8	559.8								
0200	560.0	560.0	559.9	559.8	559.6	559.4	559.1	558.8	558.5	558.3
	558.2	558.1	558.1	558.0	558.0	558.0	557.9	557.9	557.9	557.8
	557.8	557.8	557.7	557.7	557.7	557.6	557.6	557.5	557.5	557.5
	557.4	557.4	557.4	557.3	557.3	557.3	557.2	557.2	557.2	557.1
	557.1	557.0	557.0	557.0	556.9	556.9	556.9	556.8	556.8	556.8
	556.7	556.7	556.6	556.6	556.6	556.5	556.5	556.5	556.4	556.4
	556.3	556.3	556.3	556.2	556.2	556.2	556.1	556.1	556.1	556.0
	555.9	555.8	555.7	555.5	555.1	554.7	554.4	554.1	553.8	553.6
	553.5	553.4								
0201	554.5	554.4	554.3	554.1	553.9	553.7	553.4	553.1	552.8	552.6
	552.4	552.3	552.2	552.2	552.2	552.1	552.1	552.0	552.0	552.0
	551.9	551.9	551.8	551.8	551.8	551.7	551.7	551.7	551.6	551.6
	551.5	551.5	551.5	551.4	551.4	551.3	551.3	551.3	551.2	551.2
	551.1	551.1	551.0	551.0	551.0	550.9	550.9	550.8	550.8	550.8
	550.7	550.7	550.6	550.6	550.5	550.5	550.5	550.4	550.4	550.3
	550.3	550.3	550.2	550.2	550.1	550.1	550.0	550.0	550.0	549.9
	549.8	549.7	549.5	549.3	548.9	548.5	548.1	547.7	547.4	547.2
	547.0	546.9								
0202	548.8	548.8	548.6	548.5	548.2	548.0	547.6	547.3	546.9	546.7
	546.5	546.4	546.3	546.3	546.2	546.2	546.2	546.1	546.1	546.0
	546.0	545.9	545.9	545.9	545.8	545.8	545.7	545.7	545.6	545.6
	545.5	545.5	545.5	545.4	545.4	545.3	545.3	545.2	545.2	545.1
	545.1	545.0	545.0	544.9	544.9	544.9	544.8	544.8	544.7	544.7
	544.6	544.6	544.5	544.5	544.4	544.4	544.3	544.3	544.2	544.2
	544.1	544.1	544.0	544.0	543.9	543.9	543.9	543.8	543.8	543.7
	543.6	543.5	543.3	543.0	542.5	542.0	541.6	541.2	540.8	540.5
	540.3	540.2								
0203	543.1	543.1	542.9	542.8	542.5	542.2	541.8	541.4	541.0	540.8
	540.6	540.5	540.4	540.3	540.3	540.2	540.2	540.1	540.1	540.0
	540.0	539.9	539.9	539.8	539.8	539.7	539.7	539.6	539.6	539.5
	539.5	539.4	539.4	539.3	539.3	539.2	539.2	539.1	539.1	539.0
	539.0	538.9	538.9	538.8	538.8	538.7	538.7	538.6	538.5	538.5
	538.4	538.4	538.3	538.3	538.2	538.2	538.1	538.1	538.0	538.0
	537.9	537.8	537.8	537.7	537.7	537.6	537.6	537.5	537.5	537.4
	537.3	537.1	536.9	536.6	536.1	535.5	534.9	534.4	534.0	533.7
	533.5	533.3								
0204	537.4	537.4	537.2	537.0	536.7	536.4	536.0	535.5	535.1	534.8
	534.6	534.4	534.3	534.3	534.2	534.2	534.1	534.1	534.0	534.0
	533.9	533.8	533.8	533.7	533.7	533.6	533.6	533.5	533.5	533.4
	533.3	533.3	533.2	533.2	533.1	533.1	533.0	532.9	532.9	532.8
	532.8	532.7	532.6	532.6	532.5	532.5	532.4	532.4	532.3	532.2
	532.2	532.1	532.0	532.0	531.9	531.9	531.8	531.7	531.7	531.6
	531.6	531.5	531.4	531.4	531.3	531.2	531.2	531.1	531.1	531.0
	530.9	530.7	530.4	530.0	529.5	528.8	528.1	527.6	527.1	526.7
	526.4	526.2								
0205	531.7	531.6	531.4	531.2	530.9	530.5	530.1	529.6	529.1	528.7
	528.5	528.4	528.2	528.2	528.1	528.1	528.0	527.9	527.9	527.8
	527.8	527.7	527.6	527.6	527.5	527.5	527.4	527.3	527.3	527.2
	527.1	527.1	527.0	527.0	526.9	526.8	526.8	526.7	526.6	526.6
	526.5	526.4	526.4	526.3	526.2	526.2	526.1	526.0	526.0	525.9
	525.8	525.8	525.7	525.6	525.5	525.5	525.4	525.3	525.3	525.2
	525.1	525.1	525.0	524.9	524.9	524.8	524.7	524.6	524.6	524.5
	524.4	524.2	523.9	523.4	522.7	521.9	521.2	520.5	519.9	519.4
	519.1	518.9								
0206	525.9	525.8	525.7	525.4	525.1	524.6	524.1	523.6	523.0	522.7
	522.4	522.2	522.1	522.0	522.0	521.9	521.8	521.8	521.7	521.6
	521.6	521.5	521.4	521.4	521.3	521.2	521.2	521.1	521.0	520.9
	520.9	520.8	520.7	520.7	520.6	520.5	520.4	520.4	520.3	520.2
	520.2	520.1	520.0	519.9	519.9	519.8	519.7	519.6	519.6	519.5
	519.4	519.3	519.3	519.2	519.1	519.0	518.9	518.9	518.8	518.7
	518.6	518.5	518.5	518.4	518.3	518.2	518.2	518.1	518.0	517.9
	517.7	517.5	517.2	516.7	515.9	515.0	514.1	513.3	512.5	511.9
	511.5	511.3								
0207	520.2	520.1	519.9	519.6	519.2	518.7	518.2	517.5	517.0	516.5
	516.3	516.1	515.9	515.8	515.8	515.7	515.6	515.5	515.5	515.4
	515.3	515.2	515.2	515.1	515.0	514.9	514.9	514.8	514.7	514.6
	514.6	514.5	514.4	514.3	514.2	514.2	514.1	514.0	513.9	513.8
	513.8	513.7	513.6	513.5	513.4	513.3	513.3	513.2	513.1	513.0
	512.9	512.8	512.7	512.7	512.6	512.5	512.4	512.3	512.2	512.1
	512.0	512.0	511.9	511.8	511.7	511.6	511.5	511.4	511.3	511.2
	511.1	510.8	510.4	509.8	508.9	507.9	506.8	505.8	504.9	504.2
	503.6	503.3								
0208	514.4	514.3	514.1	513.7	513.3	512.8	512.2	511.5	510.8	510.4
	510.1	509.8	509.7	509.6	509.5	509.4	509.4	509.3	509.2	509.1
	509.0	509.0	508.9	508.8	508.7	508.6	508.5	508.4	508.4	508.3
	508.2	508.1	508.0	507.9	507.8	507.8	507.7	507.6	507.5	507.4
	507.3	507.2	507.1	507.0	506.9	506.8	506.7	506.7	506.6	506.5
	506.4	506.3	506.2	506.1	506.0	505.9	505.8	505.7	505.6	505.5
	505.4	505.3	505.2	505.1	505.0	504.9	504.8	504.7	504.6	504.5
	504.3	504.0	503.6	502.9	501.9	500.7	499.4	498.2	497.1	496.1
	495.4	495.0								
0209	508.6	508.5	508.3	507.9	507.4	506.8	506.2	505.4	504.7	504.2
	503.8	503.6	503.4	503.3	503.2	503.2	503.1	503.0	502.9	502.8
	502.7	502.6	502.5	502.4	502.3	502.3	502.2	502.1	502.0	501.9
	501.8	501.7	501.6	501.5	501.4	501.3	501.2	501.1	501.0	500.9
	500.8	500.7	500.6	500.5	500.4	500.3	500.2	500.1	500.0	499.9
	499.8	499.7	499.6	499.5	499.4	499.2	499.1	499.0	498.9	498.8
	498.7	498.6	498.5	498.4	498.3	498.2	498.0	497.9	497.8	497.7
	497.5	497.1	496.7	495.9	494.8	493.4	491.9	490.4	489.0	487.7
	486.7	486.1								
0210	502.9	502.8	502.5	502.1	501.6	500.9	500.2	499.3	498.5	498.0
	497.6	497.3	497.2	497.0	496.9	496.8	496.8	496.7	496.6	496.5
	496.4	496.3	496.2	496.1	496.0	495.9	495.8	495.6	495.5	495.4
	495.3	495.2	495.1	495.0	494.9	494.8	494.7	494.6	494.5	494.4
	494.3	494.2	494.0	493.9	493.8	493.7	493.6	493.5	493.4	493.3
	493.1	493.0	492.9	492.8	492.7	492.6	492.4	492.3	492.2	492.1
	492.0	491.8	491.7	491.6	491.5	491.4	491.2	491.1	491.0	490.8

	490.6	490.2	489.7	488.9	487.6	486.0	484.3	482.5	480.7	478.9
	477.4	476.6								
0211	497.2	497.1	496.7	496.3	495.7	495.0	494.1	493.2	492.4	491.7
	491.3	491.0	490.9	490.7	490.6	490.5	490.4	490.3	490.2	490.1
	490.0	489.9	489.8	489.7	489.5	489.4	489.3	489.2	489.1	489.0
	488.9	488.8	488.6	488.5	488.4	488.3	488.2	488.1	487.9	487.8
	487.7	487.6	487.5	487.3	487.2	487.1	487.0	486.8	486.7	486.6
	486.5	486.3	486.2	486.1	486.0	485.8	485.7	485.6	485.4	485.3
	485.2	485.0	484.9	484.8	484.7	484.5	484.4	484.2	484.1	483.9
	483.7	483.3	482.7	481.8	480.4	478.6	476.7	474.6	472.3	469.8
	467.1	466.3								
0212	491.6	491.4	491.1	490.5	489.9	489.1	488.1	487.1	486.2	485.5
	485.1	484.7	484.5	484.4	484.3	484.2	484.0	483.9	483.8	483.7
	483.6	483.5	483.3	483.2	483.1	483.0	482.9	482.7	482.6	482.5
	482.4	482.2	482.1	482.0	481.9	481.7	481.6	481.5	481.4	481.2
	481.1	481.0	480.8	480.7	480.6	480.4	480.3	480.2	480.0	479.9
	479.8	479.6	479.5	479.4	479.2	479.1	478.9	478.8	478.6	478.5
	478.4	478.2	478.1	477.9	477.8	477.7	477.5	477.4	477.2	477.0
	476.8	476.3	475.7	474.7	473.2	471.1	469.2	466.8	463.8	460.9
	455.0	455.0								
0213	486.0	485.8	485.4	484.8	484.1	483.2	482.1	481.0	480.0	479.3
	478.8	478.4	478.2	478.0	477.9	477.8	477.7	477.5	477.4	477.3
	477.2	477.0	476.9	476.8	476.7	476.5	476.4	476.3	476.1	476.0
	475.9	475.7	475.6	475.5	475.3	475.2	475.1	474.9	474.8	474.6
	474.5	474.4	474.2	474.1	473.9	473.8	473.6	473.5	473.3	473.2
	473.1	472.9	472.7	472.6	472.4	472.3	472.1	472.0	471.8	471.7
	471.5	471.4	471.2	471.0	470.9	470.7	470.6	470.4	470.3	470.1
	469.8	469.4	468.7	467.8	466.1	463.5	461.9	459.7	455.0	455.0
	1000.	1000.								
0214	480.6	480.3	479.9	479.2	478.3	477.3	476.2	474.9	473.8	473.0
	472.5	472.1	471.9	471.7	471.6	471.4	471.3	471.2	471.0	470.9
	470.7	470.6	470.4	470.3	470.2	470.0	469.9	469.7	469.6	469.5
	469.3	469.2	469.0	468.9	468.8	468.6	468.5	468.3	468.2	468.1
	467.9	467.8	467.6	467.5	467.3	467.2	467.0	466.9	466.7	466.5
	466.4	466.2	466.0	465.9	465.7	465.5	465.3	465.1	464.9	464.7
	464.5	464.3	464.2	464.0	463.8	463.6	463.4	463.3	463.1	462.9
	462.7	462.3	461.8	461.0	459.4	455.0	455.0	455.0	1000.	1000.
	1000.	1000.								
0215	475.3	475.0	474.5	473.7	472.7	471.5	470.2	468.7	467.6	466.8
	466.3	465.9	465.6	465.4	465.3	465.1	464.9	464.8	464.6	464.4
	464.3	464.1	463.9	463.7	463.5	463.4	463.2	463.0	462.9	462.7
	462.6	462.5	462.3	462.2	462.1	462.0	461.9	461.7	461.6	461.5
	461.4	461.3	461.2	461.0	460.9	460.8	460.7	460.5	460.4	460.2
	460.0	459.9	459.7	459.5	459.2	459.0	458.8	458.5	458.2	457.8
	457.5	457.1	456.6	456.1	455.6	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0216	470.2	469.8	469.2	468.2	467.0	465.8	464.3	462.3	461.4	460.8
	460.3	460.0	459.7	459.5	459.3	459.1	458.9	458.7	458.5	458.2
	457.9	457.6	457.3	456.9	456.5	456.1	455.6	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0217	465.3	464.8	464.1	463.0	461.3	460.2	458.6	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0218	460.8	460.0	459.3	458.1	455.0	455.0	455.0	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0219	457.0	455.0	455.0	455.0	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0220	455.0	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								

1 HEAD IN LAYER 3 AT END OF TIME STEP 1 IN STRESS PERIOD 1

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82								

0 1	1000.	738.6	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0 2	738.5	738.5	738.5	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.

	1000.	1000.								
0 3	738.4	738.4	738.3	738.2	738.1	738.0	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0 4	738.2	738.2	738.1	738.1	738.0	737.9	737.7	737.5	737.5	737.4
	737.4	737.3	737.3	737.3	737.3	737.3	737.3	737.3	737.3	737.3
	737.3	737.3	737.3	737.2	737.2	737.2	737.2	737.2	737.2	737.2
	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.1	737.1
	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1
	737.1	737.1	737.1	737.1	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	736.9	736.9	736.9	736.9	736.8	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0 5	738.0	738.0	737.9	737.8	737.8	737.7	737.5	737.4	737.3	737.3
	737.3	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2	737.2
	737.2	737.2	737.2	737.1	737.1	737.1	737.1	737.1	737.1	737.1
	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	736.9	736.9	736.9	736.9	736.9	736.9
	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9
	736.8	736.8	736.8	736.8	736.7	736.5	736.4	736.4	736.3	736.3
	736.3	736.2								
0 6	737.6	737.6	737.6	737.5	737.5	737.4	737.3	737.2	737.1	737.1
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	736.9	736.9	736.9	736.9	736.9	736.9	736.9
	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.9	736.8	736.8
	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8
	736.8	736.8	736.8	736.8	736.7	736.7	736.7	736.7	736.7	736.7
	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7
	736.6	736.6	736.6	736.6	736.5	736.4	736.3	736.2	736.2	736.2
	736.1	736.1								
0 7	737.2	737.2	737.2	737.1	737.1	737.0	736.9	736.9	736.8	736.8
	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7
	736.6	736.6	736.6	736.6	736.6	736.6	736.6	736.6	736.6	736.6
	736.6	736.6	736.6	736.6	736.6	736.6	736.6	736.5	736.5	736.5
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	736.5	736.5	736.5	736.5	736.4	736.4	736.4	736.4	736.4	736.4
	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4
	736.4	736.3	736.3	736.3	736.2	736.1	736.1	736.0	736.0	735.9
	735.9	735.9								
0 8	736.7	736.7	736.7	736.7	736.6	736.6	736.5	736.4	736.4	736.3
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	736.2	736.2	736.2	736.2	736.2	736.2	736.2	736.2	736.2	736.2
	736.2	736.2	736.2	736.2	736.2	736.2	736.1	736.1	736.1	736.1
	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
	736.1	736.1	736.1	736.1	736.1	736.0	736.0	736.0	736.0	736.0
	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
	736.0	735.9	735.9	735.8	735.8	735.8	735.7	735.7	735.6	735.6
	735.6	735.6								
0 9	736.2	736.1	736.1	736.1	736.0	736.0	735.9	735.9	735.8	735.8
	735.8	735.8	735.8	735.8	735.8	735.8	735.7	735.7	735.7	735.7
	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7
	735.7	735.7	735.7	735.7	735.7	735.7	735.6	735.6	735.6	735.6
	735.6	735.6	735.6	735.6	735.6	735.6	735.6	735.6	735.6	735.6
	735.6	735.6	735.6	735.6	735.6	735.6	735.5	735.5	735.5	735.5
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	735.2	735.1								
0 10	735.5	735.5	735.5	735.4	735.4	735.4	735.3	735.3	735.2	735.2
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	735.1	735.1	735.1	735.1	735.1	735.0	735.0	735.0	735.0	735.0
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	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.9
	734.9	734.9	734.9	734.8	734.8	734.8	734.7	734.7	734.6	734.6
	734.6	734.6								
0 11	734.7	734.7	734.7	734.7	734.7	734.6	734.6	734.5	734.5	734.5
	734.5	734.4	734.4	734.4	734.4	734.4	734.4	734.4	734.4	734.4
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	734.4	734.4	734.4	734.4	734.4	734.3	734.3	734.3	734.3	734.3
	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2
	734.2	734.2	734.2	734.2	734.1	734.1	734.0	734.0	734.0	734.0
	734.0	734.0								
0 12	733.9	733.9	733.9	733.8	733.8	733.8	733.8	733.7	733.7	733.7
	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
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	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5
	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5
	733.5	733.5	733.5	733.4	733.4	733.4	733.4	733.4	733.4	733.4
	733.4	733.4	733.4	733.4	733.3	733.3	733.3	733.3	733.2	733.2
	733.2	733.2								
0 13	732.9	732.9	732.9	732.9	732.9	732.9	732.8	732.8	732.8	732.8
	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7
	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7
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	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.5	732.5	732.5
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	732.3	732.3								
0 14	731.9	731.9	731.9	731.9	731.9	731.8	731.8	731.8	731.8	731.7
	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7
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	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.6	731.6	731.6
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	731.4	731.4								
0 15	730.8	730.8	730.8	730.8	730.7	730.7	730.7	730.7	730.7	730.6
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	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.5
	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
	730.5	730.5	730.5	730.4	730.4	730.4	730.4	730.4	730.3	730.3
	730.3	730.3								
0 16	729.6	729.6	729.6	729.5	729.5	729.5	729.5	729.5	729.5	729.4
	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4

	729.4	729.4	729.4	729.3	729.3	729.3	729.3	729.3	729.3	729.3
	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3	729.3
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	729.3	729.3	729.3	729.3	729.2	729.2	729.2	729.2	729.2	729.2
	729.2	729.2								
0 17	728.3	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.1
	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
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	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	727.9	727.9	727.9	727.9	727.9
	727.9	727.9								
0 18	726.8	726.8	726.8	726.8	726.8	726.8	726.8	726.8	726.8	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7	726.7
	726.7	726.7	726.7	726.7	726.7	726.6	726.6	726.6	726.6	726.6
	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.6
	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.5	726.5	726.5
	726.5	726.5								
0 19	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.2
	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
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	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
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	725.0	725.0								
0 20	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7	723.7
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	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
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	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
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	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
	723.6	723.6	723.6	723.5	723.5	723.5	723.5	723.5	723.5	723.5
	723.5	723.5								
0 21	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	721.9
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	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9	721.9
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	721.8	721.8								
0 22	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
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	720.2	720.2	720.2	720.1	720.1	720.1	720.1	720.1	720.1	720.1
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	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1
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	720.0	720.0								
0 23	718.4	718.4	718.4	718.3	718.3	718.3	718.3	718.3	718.3	718.3
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	718.2	718.2	718.2	718.2	718.2	718.2	718.2	718.2	718.2	718.2
	718.2	718.2								
0 24	716.4	716.4	716.4	716.4	716.4	716.4	716.3	716.3	716.3	716.3
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	714.2	714.2	714.2	714.2	714.2	714.1	714.1	714.1	714.1	714.1
	714.1	714.1								
0 26	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1
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	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	711.9								
0 27	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
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	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.7
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	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7
	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7
	709.7	709.7								
0 28	707.5	707.5	707.5	707.5	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
	707.4	707.4	707.4	707.3	707.3	707.3	707.3	707.3	707.3	707.3
	707.3	707.3								
0 29	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	704.9
	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
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	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.8	704.8
	704.8	704.8								

0 30	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.3	702.3
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	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
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	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
	702.3	702.3								
0 31	699.8	699.8	699.8	699.8	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
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	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
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	699.6	699.6								
0 32	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.8	696.8	696.8
	696.8	696.8								
0 33	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1
	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1
	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1
	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1	694.1
	694.1	694.1	694.1	694.1	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0								
0 34	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1	691.1
	691.1	691.1	691.1	691.0	691.0	691.0	691.0	691.0	691.0	691.0
	691.0	691.0								
0 35	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
	688.1	688.1	688.1	688.1	688.1	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	687.9	687.9
	687.9	687.9								
0 36	685.0	685.0	685.0	685.0	685.0	685.0	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
	684.9	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8
	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8
	684.8	684.8								
0 37	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7
	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6	681.6
	681.6	681.6	681.6	681.6	681.6	681.5	681.5	681.5	681.5	681.5
	681.5	681.5								
0 38	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.3	678.3	678.3
	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2
	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2
	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.1	678.1
	678.1	678.1								
0 39	675.0	675.0	674.9	674.9	674.9	674.9	674.9	674.9	674.9	674.9
	674.9	674.9	674.9	674.9	674.9	674.9	674.9	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
	674.8	674.8	674.8	674.7	674.7	674.7	674.7	674.7	674.7	674.7
	674.7	674.7								
0 40	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
	671.3	671.3	671.3	671.3	671.3	671.3	671.2	671.2	671.2	671.2
	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
	671.2	671.2	671.2	671.2	671.2	671.2	671.1	671.1	671.1	671.1
	671.1	671.1								
0 41	667.8	667.8	667.8	667.8	667.8	667.7	667.7	667.7	667.7	667.7
	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7
	667.7	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6	667.6
	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.4	667.4
	667.4	667.4								
0 42	664.1	664.1	664.1	664.0	664.0	664.0	664.0	664.0	664.0	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
	663.9	663.9	663.9	663.9	663.9	663.9	663.8	663.8	663.8	663.8
	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8
	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8
	663.8	663.8	663.8	663.8	663.7	663.7	663.7	663.7	663.7	663.7
	663.7	663.7								
0 43	660.9	660.9	660.9	660.9	660.8	660.8	660.8	660.8	660.8	660.8
	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7
	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7	660.7
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	660.6	660.6	660.6	660.5	660.5	660.5	660.5	660.5	660.5	660.4
	660.4	660.4								
0 44	658.7	658.7	658.7	658.7	658.7	658.7	658.6	658.6	658.6	658.6
	658.6	658.6	658.6	658.6	658.6	658.6	658.6	658.5	658.5	658.5
	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5
	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5
	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5
	658.5	658.5	658.5	658.5	658.4	658.4	658.4	658.4	658.4	658.4
	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4
	658.4	658.4	658.4	658.4	658.3	658.3	658.3	658.3	658.3	658.3
	658.2	658.2								
0 45	657.3	657.3	657.3	657.2	657.2	657.2	657.2	657.2	657.1	657.1
	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1
	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	656.9	656.9	656.9	656.9
	656.9	656.9	656.9	656.9	656.9	656.8	656.8	656.8	656.8	656.8
	656.8	656.8								
0 46	656.3	656.3	656.3	656.3	656.3	656.2	656.2	656.2	656.2	656.1
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	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
	656.1	656.1	656.1	656.1	656.1	656.1	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	655.9	655.9	655.9	655.9	655.9	655.9	655.8	655.8	655.8	655.8
	655.8	655.8								
0 47	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.5	655.5	655.5
	655.5	655.5	655.5	655.5	655.5	655.5	655.4	655.4	655.4	655.4
	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4
	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4
	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4
	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3
	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3
	655.3	655.3	655.3	655.2	655.2	655.2	655.2	655.2	655.1	655.1
	655.1	655.1								
0 48	655.2	655.2	655.2	655.2	655.2	655.1	655.1	655.1	655.1	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
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	655.0	655.0	655.0	655.0	655.0	655.0	654.9	654.9	654.9	654.9
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	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9
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	654.8	654.8	654.8	654.8	654.8	654.8	654.7	654.7	654.7	654.7
	654.7	654.7								
0 49	654.9	654.8	654.8	654.8	654.8	654.8	654.8	654.7	654.7	654.7
	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.6
	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
	654.6	654.6	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
	654.5	654.5	654.5	654.5	654.4	654.4	654.4	654.4	654.3	654.3
	654.3	654.3								
0 50	654.5	654.5	654.5	654.5	654.5	654.4	654.4	654.4	654.4	654.3
	654.3	654.3	654.3	654.3	654.3	654.3	654.3	654.3	654.3	654.3
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	654.1	654.1	654.1	654.1	654.1	654.0	654.0	654.0	654.0	654.0
	654.0	654.0								
0 51	654.1	654.1	654.1	654.1	654.1	654.1	654.1	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	653.9	653.9	653.9	653.9
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	653.8	653.8	653.8	653.7	653.7	653.7	653.7	653.6	653.6	653.6
	653.6	653.6								
0 52	653.8	653.8	653.8	653.8	653.8	653.7	653.7	653.7	653.7	653.6
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0 53	653.4	653.4	653.4	653.4	653.4	653.4	653.4	653.3	653.3	653.3
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	652.9	652.9								
0 54	653.1	653.1	653.1	653.1	653.0	653.0	653.0	653.0	652.9	652.9
	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9
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	652.5	652.5								
0 55	652.7	652.7	652.7	652.7	652.7	652.7	652.6	652.6	652.6	652.6
	652.6	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5	652.5
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	652.2	652.2								
0 56	652.4	652.4	652.4	652.3	652.3	652.3	652.3	652.3	652.2	652.2
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0 57	652.0	652.0	652.0	652.0	652.0	652.0	651.9	651.9	651.9	651.8

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0 58	651.7	651.7	651.6	651.6	651.6	651.6	651.6	651.5	651.5	651.5
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	650.7	650.7								
0 60	650.9	650.9	650.9	650.9	650.9	650.9	650.8	650.8	650.8	650.8
	650.8	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7
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0 61	650.6	650.6	650.6	650.6	650.5	650.5	650.5	650.5	650.4	650.4
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0 62	650.2	650.2	650.2	650.2	650.2	650.2	650.1	650.1	650.1	650.0
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	648.9	648.9								
0 65	649.1	649.1	649.1	649.1	649.1	649.1	649.0	649.0	649.0	649.0
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	648.5	648.5								
0 66	648.8	648.8	648.8	648.8	648.7	648.7	648.7	648.6	648.6	648.6
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0 67	648.4	648.4	648.4	648.4	648.4	648.3	648.3	648.3	648.2	648.2
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0 68	648.1	648.0	648.0	648.0	648.0	648.0	647.9	647.9	647.9	647.9
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	647.4	647.4								
0 69	647.7	647.7	647.7	647.7	647.6	647.6	647.6	647.5	647.5	647.5
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	646.6	646.6								
0 71	647.0	647.0	646.9	646.9	646.9	646.9	646.8	646.8	646.8	646.8
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	646.3	646.3								
0 72	646.6	646.6	646.6	646.6	646.5	646.5	646.5	646.4	646.4	646.4
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	645.5	645.5								
0 74	645.9	645.8	645.8	645.8	645.8	645.8	645.7	645.7	645.7	645.6
	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6
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	645.5	645.5	645.5	645.5	645.5	645.5	645.5	645.5	645.5	645.5
	645.5	645.5	645.5	645.5	645.4	645.4	645.4	645.4	645.4	645.4
	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4
	645.4	645.4	645.4	645.3	645.3	645.3	645.2	645.2	645.2	645.2
	645.1	645.1								
0 75	645.5	645.5	645.5	645.5	645.4	645.4	645.4	645.3	645.3	645.3
	645.3	645.3	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2
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	645.2	645.2	645.2	645.2	645.2	645.2	645.1	645.1	645.1	645.1
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	645.0	645.0	645.0	645.0	644.9	644.9	644.9	644.8	644.8	644.8
	644.8	644.8								
0 76	645.1	645.1	645.1	645.1	645.1	645.0	645.0	645.0	644.9	644.9
	644.9	644.9	644.9	644.9	644.9	644.9	644.9	644.9	644.8	644.8
	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
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	644.7	644.7	644.7	644.7	644.7	644.7	644.7	644.7	644.7	644.7
	644.7	644.7	644.7	644.7	644.7	644.7	644.7	644.6	644.6	644.6
	644.6	644.6	644.6	644.6	644.5	644.5	644.4	644.4	644.4	644.4
	644.4	644.4								
0 77	644.7	644.7	644.7	644.7	644.7	644.7	644.6	644.6	644.6	644.5
	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
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	644.3	644.2	644.2	644.2	644.2	644.1	644.1	644.1	644.0	644.0
	644.0	644.0								
0 78	644.4	644.4	644.4	644.3	644.3	644.3	644.3	644.2	644.2	644.2
	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1
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	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
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	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9
	643.9	643.9	643.8	643.8	643.8	643.8	643.7	643.7	643.7	643.6
	643.6	643.6								
0 79	644.0	644.0	644.0	644.0	643.9	643.9	643.9	643.8	643.8	643.8
	643.8	643.8	643.7	643.7	643.7	643.7	643.7	643.7	643.7	643.7
	643.7	643.7	643.7	643.7	643.7	643.7	643.7	643.7	643.7	643.7
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	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6
	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.5
	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5
	643.5	643.5	643.5	643.4	643.4	643.4	643.3	643.3	643.3	643.3
	643.3	643.2								
0 80	643.6	643.6	643.6	643.6	643.6	643.5	643.5	643.5	643.4	643.4
	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.4	643.3	643.3
	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3
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	643.1	643.1	643.1	643.1	643.0	643.0	643.0	642.9	642.9	642.9
	642.9	642.9								
0 81	643.3	643.2	643.2	643.2	643.2	643.2	643.1	643.1	643.1	643.0
	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
	643.0	643.0	643.0	643.0	642.9	642.9	642.9	642.9	642.9	642.9
	642.9	642.9	642.9	642.9	642.9	642.9	642.9	642.9	642.9	642.9
	642.9	642.9	642.9	642.9	642.9	642.9	642.9	642.8	642.8	642.8
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	642.7	642.7	642.7	642.7	642.7	642.6	642.6	642.5	642.5	642.5
	642.5	642.5								
0 82	642.9	642.9	642.9	642.8	642.8	642.8	642.8	642.7	642.7	642.7
	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6
	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.5
	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5
	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5
	642.5	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4
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	642.4	642.4	642.3	642.3	642.3	642.2	642.2	642.2	642.1	642.1
	642.1	642.1								
0 83	642.5	642.5	642.5	642.5	642.4	642.4	642.4	642.3	642.3	642.3
	642.3	642.3	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2
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	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	641.9	641.9	641.9	641.8	641.8	641.8	641.7
	641.7	641.7								
0 84	642.1	642.1	642.1	642.1	642.1	642.0	642.0	642.0	641.9	641.9
	641.9	641.9	641.9	641.9	641.9	641.9	641.8	641.8	641.8	641.8

	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8
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	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6
	641.6	641.6	641.6	641.5	641.5	641.5	641.4	641.4	641.4	641.4
	641.3	641.3								
0 85	641.8	641.7	641.7	641.7	641.7	641.7	641.6	641.6	641.5	641.5
	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4	641.4
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	641.2	641.2	641.2	641.2	641.1	641.1	641.0	641.0	641.0	641.0
	641.0	640.9								
0 86	641.4	641.4	641.4	641.3	641.3	641.3	641.2	641.2	641.2	641.1
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	641.0	641.0	641.0	641.0	641.0	641.0	640.9	640.9	640.9	640.9
	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
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	640.8	640.8	640.8	640.8	640.7	640.7	640.7	640.6	640.6	640.6
	640.6	640.6								
0 87	641.0	641.0	641.0	641.0	640.9	640.9	640.9	640.8	640.8	640.8
	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7
	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.6
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	640.5	640.4	640.4	640.4	640.4	640.3	640.3	640.2	640.2	640.2
	640.2	640.2								
0 88	640.6	640.6	640.6	640.6	640.6	640.5	640.5	640.4	640.4	640.4
	640.4	640.4	640.3	640.3	640.3	640.3	640.3	640.3	640.3	640.3
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	640.3	640.3	640.3	640.2	640.2	640.2	640.2	640.2	640.2	640.2
	640.2	640.2	640.2	640.2	640.2	640.2	640.2	640.2	640.2	640.2
	640.2	640.2	640.2	640.2	640.1	640.1	640.1	640.1	640.1	640.1
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	640.1	640.1	640.0	640.0	640.0	639.9	639.9	639.9	639.8	639.8
	639.8	639.8								
0 89	640.2	640.2	640.2	640.2	640.2	640.1	640.1	640.1	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	639.9	639.9	639.9	639.9	639.9
	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9
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	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.7	639.7	639.7
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	639.7	639.7	639.7	639.6	639.6	639.5	639.5	639.5	639.4	639.4
	639.4	639.4								
0 90	639.9	639.9	639.8	639.8	639.8	639.8	639.7	639.7	639.6	639.6
	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.5	639.5
	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5
	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.5	639.4
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	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4
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	639.3	639.3	639.3	639.2	639.2	639.2	639.1	639.1	639.1	639.0
	639.0	639.0								
0 91	639.5	639.5	639.5	639.4	639.4	639.4	639.3	639.3	639.3	639.2
	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2
	639.2	639.2	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
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	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	638.9	638.9	638.9	638.9	638.9	638.9	638.9
	638.9	638.9	638.9	638.8	638.8	638.8	638.7	638.7	638.7	638.6
	638.6	638.6								
0 92	639.1	639.1	639.1	639.1	639.0	639.0	639.0	638.9	638.9	638.9
	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
	638.8	638.8	638.8	638.8	638.8	638.7	638.7	638.7	638.7	638.7
	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
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	638.5	638.5	638.5	638.5	638.4	638.4	638.3	638.3	638.3	638.3
	638.2	638.2								
0 93	638.7	638.7	638.7	638.7	638.6	638.6	638.6	638.5	638.5	638.5
	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4
	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.3	638.3
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	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
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	637.8	637.8								
0 94	638.3	638.3	638.3	638.3	638.3	638.2	638.2	638.1	638.1	638.1
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	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9
	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9	637.9
	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
	637.7	637.7	637.7	637.7	637.6	637.6	637.6	637.5	637.5	637.5
	637.5	637.4								
0 95	638.0	637.9	637.9	637.9	637.9	637.8	637.8	637.8	637.7	637.7
	637.7	637.7	637.7	637.6	637.6	637.6	637.6	637.6	637.6	637.6
	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6
	637.6	637.6	637.6	637.5	637.5	637.5	637.5	637.5	637.5	637.5
	637.5	637.5	637.5	637.5	637.5	637.5	637.5	637.5	637.5	637.5
	637.5	637.5	637.5	637.4	637.4	637.4	637.4	637.4	637.4	637.4
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	637.4	637.3	637.3	637.3	637.3	637.2	637.2	637.1	637.1	637.1
	637.1	637.1								
0 96	637.6	637.6	637.5	637.5	637.5	637.5	637.4	637.4	637.3	637.3
	637.3	637.3	637.3	637.3	637.3	637.2	637.2	637.2	637.2	637.2
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	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	636.9	636.9	636.9	636.8	636.8	636.7	636.7	636.7
	636.7	636.7								
0 97	637.2	637.2	637.2	637.1	637.1	637.1	637.0	637.0	636.9	636.9
	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.8	636.8	636.8
	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.7	636.7	636.7
	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7	636.7
	636.7	636.7	636.7	636.7	636.7	636.7	636.6	636.6	636.6	636.6
	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6

	636.6	636.6	636.5	636.5	636.5	636.4	636.4	636.3	636.3	636.3
	636.3	636.3								
0 98	636.8	636.8	636.8	636.8	636.7	636.7	636.6	636.6	636.6	636.5
	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4
	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.4	636.3
	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.2	636.2
	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2
	636.2	636.2	636.1	636.1	636.1	636.0	636.0	635.9	635.9	635.9
	635.9	635.9								
0 99	636.4	636.4	636.4	636.4	636.3	636.3	636.3	636.2	636.2	636.1
	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1
	636.1	636.1	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8
	635.8	635.8	635.8	635.7	635.7	635.6	635.6	635.5	635.5	635.5
	635.5	635.5								
0100	636.0	636.0	636.0	636.0	636.0	635.9	635.9	635.8	635.8	635.8
	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7
	635.7	635.7	635.7	635.7	635.6	635.6	635.6	635.6	635.6	635.6
	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6
	635.6	635.6	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5
	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5	635.5
	635.5	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4	635.4
	635.4	635.4	635.4	635.3	635.3	635.2	635.2	635.2	635.1	635.1
	635.1	635.1								
0101	635.6	635.6	635.6	635.6	635.6	635.5	635.5	635.4	635.4	635.4
	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3	635.3
	635.3	635.3	635.3	635.3	635.3	635.2	635.2	635.2	635.2	635.2
	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2
	635.2	635.2	635.2	635.2	635.1	635.1	635.1	635.1	635.1	635.1
	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1
	635.1	635.1	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	634.9	634.9	634.8	634.8	634.8	634.7	634.7
	634.7	634.7								
0102	635.2	635.2	635.2	635.2	635.2	635.1	635.1	635.0	635.0	635.0
	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9	634.9
	634.9	634.9	634.9	634.9	634.9	634.9	634.8	634.8	634.8	634.8
	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
	634.8	634.8	634.8	634.8	634.8	634.7	634.7	634.7	634.7	634.7
	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
	634.7	634.7	634.7	634.6	634.6	634.6	634.6	634.6	634.6	634.6
	634.6	634.6	634.6	634.5	634.5	634.4	634.4	634.4	634.3	634.3
	634.3	634.3								
0103	634.9	634.9	634.8	634.8	634.8	634.7	634.7	634.7	634.6	634.6
	634.6	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5
	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.5	634.4	634.4
	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4
	634.4	634.4	634.4	634.4	634.4	634.4	634.3	634.3	634.3	634.3
	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3
	634.3	634.3	634.3	634.3	634.2	634.2	634.2	634.2	634.2	634.2
	634.2	634.2	634.2	634.1	634.1	634.0	634.0	634.0	633.9	633.9
	633.9	633.9								
0104	634.5	634.5	634.4	634.4	634.4	634.4	634.3	634.3	634.2	634.2
	634.2	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1
	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.9	633.9	633.9
	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9
	633.9	633.9	633.9	633.9	633.8	633.8	633.8	633.8	633.8	633.8
	633.8	633.8	633.8	633.7	633.7	633.6	633.6	633.6	633.5	633.5
	633.5	633.5								
0105	634.1	634.1	634.1	634.0	634.0	634.0	633.9	633.9	633.8	633.8
	633.8	633.8	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7
	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7
	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6
	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.5	633.5	633.5
	633.5	633.5	633.5	633.5	633.5	633.5	633.5	633.5	633.5	633.5
	633.5	633.5	633.5	633.5	633.5	633.4	633.4	633.4	633.4	633.4
	633.4	633.4	633.4	633.3	633.3	633.2	633.2	633.2	633.1	633.1
	633.1	633.1								
0106	633.7	633.7	633.7	633.6	633.6	633.6	633.5	633.5	633.4	633.4
	633.4	633.4	633.4	633.3	633.3	633.3	633.3	633.3	633.3	633.3
	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3
	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2
	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.2	633.1	633.1
	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1
	633.1	633.1	633.1	633.1	633.1	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	632.9	632.9	632.8	632.8	632.8	632.7	632.7
	632.7	632.7								
0107	633.3	633.3	633.3	633.2	633.2	633.2	633.1	633.1	633.0	633.0
	633.0	633.0	633.0	632.9	632.9	632.9	632.9	632.9	632.9	632.9
	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9
	632.9	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8
	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.7	632.7
	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
	632.7	632.7	632.7	632.7	632.7	632.7	632.6	632.6	632.6	632.6
	632.6	632.6	632.6	632.5	632.5	632.4	632.4	632.4	632.3	632.3
	632.3	632.3								
0108	632.9	632.9	632.9	632.9	632.8	632.8	632.7	632.7	632.6	632.6
	632.6	632.6	632.6	632.6	632.5	632.5	632.5	632.5	632.5	632.5
	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5
	632.5	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4
	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.3	632.3
	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3
	632.3	632.3	632.3	632.3	632.3	632.3	632.2	632.2	632.2	632.2
	632.2	632.2	632.2	632.1	632.1	632.0	632.0	632.0	631.9	631.9
	631.9	631.9								
0109	632.5	632.5	632.5	632.5	632.4	632.4	632.3	632.3	632.2	632.2
	632.2	632.2	632.2	632.2	632.1	632.1	632.1	632.1	632.1	632.1
	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1
	632.1	632.1	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.9
	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9	631.9
	631.9	631.9	631.9	631.9	631.9	631.9	631.8	631.8	631.8	631.8
	631.8	631.8	631.8	631.7	631.7	631.6	631.6	631.5	631.5	631.5
	631.5	631.5								
0110	632.1	632.1	632.1	632.1	632.0	632.0	631.9	631.9	631.8	631.8
	631.8	631.8	631.8	631.8	631.8	631.7	631.7	631.7	631.7	631.7
	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
	631.7	631.7	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6
	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.5
	631.5	631.5	631.5	631.5	631.5	631.5	631.5	631.5	631.5	631.5
	631.5	631.5	631.5	631.5	631.5	631.4	631.4	631.4	631.4	631.4
	631.4	631.4	631.4	631.3	631.3	631.2	631.2	631.1	631.1	631.1
	631.1	631.1								
0111	631.7	631.7	631.7	631.7	631.6	631.6	631.6	631.5	631.5	631.4
	631.4	631.4	631.4	631.4	631.4	631.3	631.3	631.3	631.3	631.3
	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3

	631.3	631.3	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.1	631.1
	631.1	631.1	631.1	631.1	631.1	631.1	631.1	631.1	631.1	631.1
	631.1	631.1	631.1	631.1	631.1	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	630.9	630.9	630.8	630.8	630.7	630.7	630.7
	630.7	630.6								
0112	631.3	631.3	631.3	631.3	631.2	631.2	631.2	631.1	631.1	631.0
	631.0	631.0	631.0	631.0	631.0	630.9	630.9	630.9	630.9	630.9
	630.9	630.9	630.9	630.9	630.9	630.9	630.9	630.9	630.9	630.9
	630.9	630.9	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8
	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.7	630.7
	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
	630.7	630.7	630.7	630.7	630.7	630.6	630.6	630.6	630.6	630.6
	630.6	630.6	630.6	630.5	630.5	630.4	630.4	630.3	630.3	630.3
	630.3	630.2								
0113	630.9	630.9	630.9	630.9	630.8	630.8	630.8	630.7	630.7	630.6
	630.6	630.6	630.6	630.6	630.6	630.5	630.5	630.5	630.5	630.5
	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5
	630.5	630.5	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.3	630.3
	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3
	630.3	630.3	630.3	630.3	630.2	630.2	630.2	630.2	630.2	630.2
	630.2	630.2	630.2	630.1	630.1	630.0	630.0	629.9	629.9	629.9
	629.8	629.8								
0114	630.5	630.5	630.5	630.5	630.4	630.4	630.4	630.3	630.3	630.2
	630.2	630.2	630.2	630.2	630.2	630.1	630.1	630.1	630.1	630.1
	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
	630.1	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.9	629.9	629.9
	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9
	629.9	629.9	629.9	629.8	629.8	629.8	629.8	629.8	629.8	629.8
	629.8	629.8	629.8	629.7	629.7	629.6	629.6	629.5	629.5	629.5
	629.4	629.4								
0115	630.1	630.1	630.1	630.1	630.1	630.0	630.0	629.9	629.9	629.8
	629.8	629.8	629.8	629.8	629.8	629.7	629.7	629.7	629.7	629.7
	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7
	629.7	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.6
	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.5	629.5	629.5
	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
	629.5	629.5	629.5	629.4	629.4	629.4	629.4	629.4	629.4	629.4
	629.4	629.4	629.4	629.3	629.3	629.2	629.2	629.1	629.1	629.0
	629.0	629.0								
0116	629.7	629.7	629.7	629.7	629.7	629.6	629.6	629.5	629.5	629.4
	629.4	629.4	629.4	629.4	629.3	629.3	629.3	629.3	629.3	629.3
	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3
	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2
	629.2	629.2	629.2	629.2	629.2	629.2	629.1	629.1	629.1	629.1
	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1
	629.1	629.1	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.9	628.9	628.9	628.8	628.7	628.7	628.7	628.6
	628.6	628.6								
0117	629.3	629.3	629.3	629.3	629.3	629.2	629.2	629.1	629.1	629.0
	629.0	629.0	629.0	629.0	628.9	628.9	628.9	628.9	628.9	628.9
	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9
	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
	628.8	628.8	628.8	628.8	628.8	628.8	628.7	628.7	628.7	628.7
	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7
	628.7	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6	628.6
	628.6	628.6	628.5	628.5	628.4	628.4	628.3	628.3	628.3	628.2
	628.2	628.2								
0118	628.9	628.9	628.9	628.9	628.9	628.8	628.8	628.7	628.6	628.6
	628.6	628.6	628.6	628.5	628.5	628.5	628.5	628.5	628.5	628.5
	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.4
	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
	628.4	628.4	628.4	628.4	628.3	628.3	628.3	628.3	628.3	628.3
	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3
	628.2	628.2	628.2	628.2	628.2	628.2	628.2	628.2	628.2	628.2
	628.2	628.2	628.1	628.1	628.0	628.0	627.9	627.9	627.8	627.8
	627.8	627.8								
0119	628.5	628.5	628.5	628.5	628.5	628.4	628.4	628.3	628.2	628.2
	628.2	628.2	628.2	628.1	628.1	628.1	628.1	628.1	628.1	628.1
	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	627.9	627.9	627.9	627.9	627.9	627.9	627.9
	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.8
	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8
	627.8	627.7	627.7	627.7	627.6	627.6	627.5	627.5	627.4	627.4
	627.4	627.4								
0120	628.1	628.1	628.1	628.1	628.0	628.0	628.0	627.9	627.8	627.8
	627.8	627.8	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7
	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.6	627.6	627.6
	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6
	627.6	627.6	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5
	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.4	627.4	627.4
	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4
	627.4	627.3	627.3	627.3	627.2	627.2	627.1	627.1	627.0	627.0
	627.0	627.0								
0121	627.7	627.7	627.7	627.7	627.6	627.6	627.5	627.5	627.4	627.4
	627.4	627.4	627.3	627.3	627.3	627.3	627.3	627.3	627.3	627.3
	627.3	627.3	627.3	627.3	627.3	627.3	627.2	627.2	627.2	627.2
	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2
	627.2	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1
	627.1	627.1	627.1	627.1	627.1	627.1	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	626.9	626.9	626.9	626.9	626.8	626.7	626.7	626.6	626.6	626.6
	626.6	626.5								
0122	627.3	627.3	627.3	627.3	627.2	627.2	627.1	627.1	627.0	627.0
	627.0	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
	626.9	626.9	626.9	626.9	626.9	626.8	626.8	626.8	626.8	626.8
	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8	626.8
	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7
	626.7	626.7	626.7	626.7	626.6	626.6	626.6	626.6	626.6	626.6
	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.5
	626.5	626.5	626.5	626.4	626.4	626.3	626.3	626.2	626.2	626.2
	626.1	626.1								
0123	626.9	626.9	626.9	626.9	626.8	626.8	626.7	626.7	626.6	626.6
	626.6	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5
	626.5	626.5	626.5	626.5	626.4	626.4	626.4	626.4	626.4	626.4
	626.4	626.4	626.4	626.4	626.4	626.4	626.4	626.4	626.4	626.3
	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3
	626.3	626.3	626.3	626.2	626.2	626.2	626.2	626.2	626.2	626.2
	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.1	626.1
	626.1	626.1	626.1	626.0	626.0	625.9	625.9	625.8	625.8	625.7
	625.7	625.7								
0124	626.5	626.5	626.5	626.5	626.4	626.4	626.3	626.3	626.2	626.2
	626.2	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1
	626.1	626.1	626.1	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.9	625.9	625.9
	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9
	625.9	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8
	625.8	625.8	625.8	625.8	625.8	625.8	625.7	625.7	625.7	625.7
	625.7	625.7	625.7	625.6	625.6	625.5	625.4	625.4	625.4	625.3

	625.3	625.3								
0125	626.1	626.1	626.1	626.1	626.0	626.0	625.9	625.9	625.8	625.8
	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
	625.7	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6
	625.6	625.6	625.6	625.6	625.6	625.6	625.5	625.5	625.5	625.5
	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4
	625.4	625.4	625.4	625.4	625.3	625.3	625.3	625.3	625.3	625.3
	625.3	625.3	625.3	625.2	625.2	625.1	625.0	625.0	624.9	624.9
	624.9	624.9								
0126	625.7	625.7	625.7	625.7	625.6	625.6	625.5	625.5	625.4	625.4
	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3
	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2
	625.2	625.2	625.2	625.2	625.1	625.1	625.1	625.1	625.1	625.1
	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9
	624.9	624.9	624.8	624.8	624.7	624.7	624.6	624.6	624.5	624.5
	624.5	624.5								
0127	625.3	625.3	625.3	625.3	625.2	625.2	625.1	625.1	625.0	625.0
	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.8	624.8
	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
	624.8	624.8	624.8	624.7	624.7	624.7	624.7	624.7	624.7	624.7
	624.7	624.7	624.7	624.7	624.7	624.7	624.6	624.6	624.6	624.6
	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6
	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5
	624.5	624.4	624.4	624.4	624.3	624.3	624.2	624.1	624.1	624.1
	624.0	624.0								
0128	624.9	624.9	624.9	624.9	624.8	624.8	624.7	624.6	624.6	624.5
	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.4	624.4	624.4
	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4
	624.4	624.3	624.3	624.3	624.3	624.3	624.3	624.3	624.3	624.3
	624.3	624.3	624.3	624.3	624.2	624.2	624.2	624.2	624.2	624.2
	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.1	624.1
	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1
	624.1	624.0	624.0	624.0	623.9	623.8	623.8	623.7	623.7	623.6
	623.6	623.6								
0129	624.5	624.5	624.5	624.4	624.4	624.4	624.3	624.2	624.2	624.1
	624.1	624.1	624.1	624.1	624.1	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.9
	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9
	623.9	623.9	623.9	623.8	623.8	623.8	623.8	623.8	623.8	623.8
	623.8	623.8	623.8	623.8	623.8	623.8	623.7	623.7	623.7	623.7
	623.7	623.7	623.7	623.7	623.7	623.7	623.7	623.7	623.7	623.7
	623.6	623.6	623.6	623.5	623.5	623.4	623.4	623.3	623.3	623.2
	623.2	623.2								
0130	624.1	624.1	624.1	624.0	624.0	623.9	623.9	623.8	623.8	623.7
	623.7	623.7	623.7	623.6	623.6	623.6	623.6	623.6	623.6	623.6
	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.5	623.5	623.5
	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5
	623.5	623.4	623.4	623.4	623.4	623.4	623.4	623.4	623.4	623.4
	623.4	623.4	623.4	623.4	623.3	623.3	623.3	623.3	623.3	623.3
	623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.2	623.2	623.2
	623.2	623.2	623.2	623.1	623.1	623.0	622.9	622.9	622.8	622.8
	622.8	622.8								
0131	623.7	623.7	623.7	623.6	623.6	623.5	623.5	623.4	623.4	623.3
	623.3	623.3	623.2	623.2	623.2	623.2	623.2	623.2	623.2	623.2
	623.2	623.2	623.2	623.2	623.2	623.1	623.1	623.1	623.1	623.1
	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
	622.9	622.9	622.9	622.9	622.9	622.8	622.8	622.8	622.8	622.8
	622.8	622.8	622.8	622.7	622.6	622.6	622.5	622.5	622.4	622.4
	622.4	622.3								
0132	623.3	623.3	623.2	623.2	623.2	623.1	623.1	623.0	622.9	622.9
	622.9	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
	622.8	622.8	622.8	622.7	622.7	622.7	622.7	622.7	622.7	622.7
	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.6	622.6	622.6
	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5
	622.5	622.5	622.5	622.4	622.4	622.4	622.4	622.4	622.4	622.4
	622.4	622.4	622.3	622.3	622.2	622.2	622.1	622.0	622.0	622.0
	621.9	621.9								
0133	622.9	622.9	622.8	622.8	622.8	622.7	622.7	622.6	622.5	622.5
	622.5	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4
	622.4	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
	622.3	622.3	622.3	622.3	622.2	622.2	622.2	622.2	622.2	622.2
	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.1	622.1	622.1
	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	621.9	621.9	621.9	621.8	621.7	621.7	621.6	621.6	621.5
	621.5	621.5								
0134	622.5	622.5	622.4	622.4	622.4	622.3	622.2	622.2	622.1	622.1
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.9
	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9	621.9
	621.9	621.9	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8
	621.8	621.8	621.8	621.8	621.8	621.7	621.7	621.7	621.7	621.7
	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.6	621.6
	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.6
	621.5	621.5	621.5	621.4	621.4	621.3	621.2	621.2	621.1	621.1
	621.1	621.1								
0135	622.1	622.0	622.0	622.0	621.9	621.9	621.8	621.8	621.7	621.7
	621.6	621.6	621.6	621.6	621.6	621.6	621.6	621.5	621.5	621.5
	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4
	621.4	621.4	621.4	621.3	621.3	621.3	621.3	621.3	621.3	621.3
	621.3	621.3	621.3	621.3	621.3	621.2	621.2	621.2	621.2	621.2
	621.2	621.2	621.2	621.2	621.2	621.2	621.2	621.2	621.1	621.1
	621.1	621.1	621.1	621.0	621.0	620.9	620.8	620.8	620.7	620.7
	620.7	620.6								
0136	621.6	621.6	621.6	621.6	621.5	621.5	621.4	621.3	621.3	621.2
	621.2	621.2	621.2	621.2	621.2	621.1	621.1	621.1	621.1	621.1
	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	620.9	620.9	620.9	620.9	620.9	620.9	620.9	620.9	620.9	620.9
	620.9	620.9	620.9	620.8	620.8	620.8	620.8	620.8	620.8	620.8
	620.8	620.8	620.8	620.8	620.8	620.7	620.7	620.7	620.7	620.7
	620.7	620.7	620.6	620.6	620.5	620.5	620.4	620.3	620.3	620.3
	620.2	620.2								
0137	621.2	621.2	621.2	621.2	621.1	621.1	621.0	620.9	620.9	620.8
	620.8	620.8	620.8	620.7	620.7	620.7	620.7	620.7	620.7	620.7
	620.7	620.7	620.7	620.7	620.7	620.6	620.6	620.6	620.6	620.6
	620.6	620.6	620.6	620.6	620.6	620.6	620.6	620.6	620.5	620.5
	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5
	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4
	620.4	620.4	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3
	620.3	620.3	620.2	620.2	620.1	620.0	620.0	619.9	619.9	619.8
	619.8	619.8								
0138	620.8	620.8	620.8	620.7	620.7	620.6	620.6	620.5	620.4	620.4
	620.4	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3
	620.3	620.3	620.3	620.2	620.2	620.2	620.2	620.2	620.2	620.2
	620.2	620.2	620.2	620.2	620.2	620.1	620.1	620.1	620.1	620.1

	620.1	620.1	620.1	620.1	620.1	620.1	620.1	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9
	619.9	619.8	619.8	619.8	619.7	619.6	619.5	619.5	619.4	619.4
	619.4	619.4								
0139	620.4	620.4	620.4	620.3	620.3	620.2	620.2	620.1	620.0	620.0
	620.0	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9
	619.9	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8
	619.8	619.8	619.8	619.7	619.7	619.7	619.7	619.7	619.7	619.7
	619.7	619.7	619.7	619.7	619.7	619.6	619.6	619.6	619.6	619.6
	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.5	619.5	619.5
	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.4
	619.4	619.4	619.4	619.3	619.3	619.2	619.1	619.1	619.0	619.0
	618.9	618.9								
0140	620.0	620.0	620.0	619.9	619.9	619.8	619.8	619.7	619.6	619.6
	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.4	619.4
	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4
	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
	619.3	619.3	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2
	619.2	619.2	619.2	619.2	619.1	619.1	619.1	619.1	619.1	619.1
	619.1	619.1	619.1	619.1	619.1	619.1	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	618.9	618.8	618.8	618.7	618.6	618.6	618.5
	618.5	618.5								
0141	619.6	619.6	619.5	619.5	619.5	619.4	619.3	619.3	619.2	619.1
	619.1	619.1	619.1	619.1	619.1	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.9	618.9
	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.8
	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8
	618.8	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7	618.7
	618.7	618.7	618.7	618.6	618.6	618.6	618.6	618.6	618.6	618.6
	618.6	618.6	618.5	618.5	618.4	618.3	618.3	618.2	618.1	618.1
	618.1	618.1								
0142	619.2	619.1	619.1	619.1	619.0	619.0	618.9	618.8	618.8	618.7
	618.7	618.7	618.7	618.6	618.6	618.6	618.6	618.6	618.6	618.6
	618.6	618.6	618.6	618.6	618.6	618.5	618.5	618.5	618.5	618.5
	618.5	618.5	618.5	618.5	618.5	618.5	618.5	618.4	618.4	618.4
	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.3	618.3
	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3
	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
	618.2	618.1	618.1	618.0	618.0	617.9	617.8	617.8	617.7	617.7
	617.7	617.6								
0143	618.7	618.7	618.7	618.7	618.6	618.6	618.5	618.4	618.4	618.3
	618.3	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
	618.2	618.2	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1
	618.1	618.1	618.1	618.1	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	617.9	617.9	617.9	617.9	617.9
	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.8	617.8	617.8
	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.7
	617.7	617.7	617.7	617.6	617.5	617.5	617.4	617.3	617.3	617.2
	617.2	617.2								
0144	618.3	618.3	618.3	618.3	618.2	618.1	618.1	618.0	617.9	617.9
	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7
	617.7	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6	617.6
	617.6	617.6	617.6	617.5	617.5	617.5	617.5	617.5	617.5	617.5
	617.5	617.5	617.5	617.5	617.4	617.4	617.4	617.4	617.4	617.4
	617.4	617.4	617.4	617.4	617.4	617.3	617.3	617.3	617.3	617.3
	617.3	617.3	617.2	617.2	617.1	617.0	617.0	616.9	616.8	616.8
	616.8	616.8								
0145	617.9	617.9	617.9	617.8	617.8	617.7	617.7	617.6	617.5	617.5
	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.3	617.3	617.3
	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.2	617.2
	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2
	617.1	617.1	617.1	617.1	617.1	617.1	617.1	617.1	617.1	617.1
	617.1	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9
	616.9	616.8	616.8	616.8	616.7	616.6	616.5	616.5	616.4	616.4
	616.3	616.3								
0146	617.5	617.5	617.5	617.4	617.4	617.3	617.2	617.2	617.1	617.0
	617.0	617.0	617.0	617.0	616.9	616.9	616.9	616.9	616.9	616.9
	616.9	616.9	616.9	616.9	616.9	616.8	616.8	616.8	616.8	616.8
	616.8	616.8	616.8	616.8	616.8	616.8	616.8	616.7	616.7	616.7
	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.7	616.6	616.6
	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.5
	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
	616.4	616.4	616.4	616.3	616.3	616.2	616.1	616.0	616.0	615.9
	615.9	615.9								
0147	617.1	617.1	617.0	617.0	616.9	616.9	616.8	616.7	616.7	616.6
	616.6	616.6	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
	616.5	616.5	616.5	616.4	616.4	616.4	616.4	616.4	616.4	616.4
	616.4	616.4	616.4	616.4	616.3	616.3	616.3	616.3	616.3	616.3
	616.3	616.3	616.3	616.3	616.3	616.2	616.2	616.2	616.2	616.2
	616.2	616.2	616.2	616.2	616.2	616.2	616.1	616.1	616.1	616.1
	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.0	616.0	616.0
	616.0	616.0	615.9	615.9	615.8	615.7	615.7	615.6	615.5	615.5
	615.5	615.5								
0148	616.6	616.6	616.6	616.6	616.5	616.5	616.4	616.3	616.2	616.2
	616.2	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
	616.0	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9	615.9
	615.9	615.9	615.8	615.8	615.8	615.8	615.8	615.8	615.8	615.8
	615.8	615.8	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7
	615.7	615.7	615.7	615.7	615.6	615.6	615.6	615.6	615.6	615.6
	615.6	615.6	615.5	615.5	615.4	615.3	615.2	615.2	615.1	615.1
	615.0	615.0								
0149	616.2	616.2	616.2	616.2	616.1	616.0	616.0	615.9	615.8	615.8
	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.6	615.6	615.6
	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.5	615.5
	615.5	615.5	615.5	615.5	615.5	615.5	615.5	615.5	615.5	615.4
	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.3
	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3
	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
	615.1	615.1	615.1	615.0	615.0	614.9	614.8	614.7	614.7	614.6
	614.6	614.6								
0150	615.8	615.8	615.8	615.7	615.7	615.6	615.5	615.5	615.4	615.3
	615.3	615.3	615.3	615.3	615.2	615.2	615.2	615.2	615.2	615.2
	615.2	615.2	615.2	615.2	615.2	615.1	615.1	615.1	615.1	615.1
	615.1	615.1	615.1	615.1	615.1	615.0	615.0	615.0	615.0	615.0
	615.0	615.0	615.0	615.0	615.0	615.0	614.9	614.9	614.9	614.9
	614.9	614.9	614.9	614.9	614.9	614.9	614.9	614.8	614.8	614.8
	614.8	614.8	614.8	614.8	614.8	614.8	614.8	614.8	614.7	614.7
	614.7	614.7	614.7	614.6	614.5	614.4	614.4	614.3	614.2	614.2
	614.2	614.1								
0151	615.4	615.4	615.3	615.3	615.3	615.2	615.1	615.0	615.0	614.9
	614.9	614.9	614.8	614.8	614.8	614.8	614.8	614.8	614.8	614.8
	614.8	614.7	614.7	614.7	614.7	614.7	614.7	614.7	614.7	614.7
	614.7	614.7	614.6	614.6	614.6	614.6	614.6	614.6	614.6	614.6
	614.6	614.6	614.6	614.5	614.5	614.5	614.5	614.5	614.5	614.5
	614.5	614.5	614.5	614.4	614.4	614.4	614.4	614.4	614.4	614.4
	614.4	614.4	614.4	614.4	614.3	614.3	614.3	614.3	614.3	614.3
	614.3	614.3	614.2	614.2	614.1	614.0	613.9	613.8	613.8	613.7
	613.7	613.7								

0152	615.0	615.0	614.9	614.9	614.8	614.8	614.7	614.6	614.5	614.5
	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.3	614.3
	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.2
	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2
	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1
	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9
	613.8	613.8	613.8	613.7	613.6	613.6	613.5	613.4	613.4	613.3
	613.3	613.3								
0153	614.5	614.5	614.5	614.5	614.4	614.3	614.3	614.2	614.1	614.1
	614.0	614.0	614.0	614.0	614.0	613.9	613.9	613.9	613.9	613.9
	613.9	613.9	613.9	613.9	613.9	613.9	613.8	613.8	613.8	613.8
	613.8	613.8	613.8	613.8	613.8	613.8	613.7	613.7	613.7	613.7
	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.6	613.6	613.6
	613.6	613.6	613.6	613.6	613.6	613.6	613.6	613.5	613.5	613.5
	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.4	613.4	613.4
	613.4	613.4	613.3	613.3	613.2	613.1	613.0	613.0	612.9	612.9
	612.8	612.8								
0154	614.1	614.1	614.1	614.0	614.0	613.9	613.8	613.8	613.7	613.6
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	613.5	613.5	613.5	613.4	613.4	613.4	613.4	613.4	613.4	613.4
	613.4	613.4	613.4	613.3	613.3	613.3	613.3	613.3	613.3	613.3
	613.3	613.3	613.3	613.2	613.2	613.2	613.2	613.2	613.2	613.2
	613.2	613.2	613.2	613.1	613.1	613.1	613.1	613.1	613.1	613.1
	613.1	613.1	613.1	613.1	613.0	613.0	613.0	613.0	613.0	613.0
	613.0	612.9	612.9	612.9	612.8	612.7	612.6	612.5	612.5	612.4
	612.4	612.4								
0155	613.7	613.7	613.7	613.6	613.6	613.5	613.4	613.3	613.3	613.2
	613.2	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.0
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	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8
	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7
	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6
	612.5	612.5	612.5	612.4	612.3	612.2	612.2	612.1	612.0	612.0
	612.0	611.9								
0156	613.3	613.3	613.2	613.2	613.1	613.1	613.0	612.9	612.8	612.8
	612.7	612.7	612.7	612.7	612.7	612.7	612.6	612.6	612.6	612.6
	612.6	612.6	612.6	612.6	612.6	612.6	612.5	612.5	612.5	612.5
	612.5	612.5	612.5	612.5	612.5	612.5	612.4	612.4	612.4	612.4
	612.4	612.4	612.4	612.4	612.4	612.4	612.3	612.3	612.3	612.3
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	612.2	612.2	612.2	612.2	612.2	612.2	612.1	612.1	612.1	612.1
	612.1	612.1	612.0	612.0	611.9	611.8	611.7	611.6	611.6	611.5
	611.5	611.5								
0157	612.8	612.8	612.8	612.8	612.7	612.6	612.6	612.5	612.4	612.3
	612.3	612.3	612.3	612.2	612.2	612.2	612.2	612.2	612.2	612.2
	612.2	612.2	612.2	612.1	612.1	612.1	612.1	612.1	612.1	612.1
	612.1	612.1	612.1	612.0	612.0	612.0	612.0	612.0	612.0	612.0
	612.0	612.0	612.0	611.9	611.9	611.9	611.9	611.9	611.9	611.9
	611.9	611.9	611.9	611.8	611.8	611.8	611.8	611.8	611.8	611.8
	611.8	611.8	611.8	611.7	611.7	611.7	611.7	611.7	611.7	611.7
	611.7	611.6	611.6	611.5	611.4	611.4	611.3	611.2	611.1	611.1
	611.1	611.0								
0158	612.4	612.4	612.4	612.3	612.3	612.2	612.1	612.0	612.0	611.9
	611.9	611.8	611.8	611.8	611.8	611.8	611.8	611.8	611.8	611.8
	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7
	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.5
	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.4
	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.3
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	611.2	611.2	611.1	611.0	610.9	610.8	610.8	610.7	610.6	
	610.6	610.6								
0159	612.0	612.0	611.9	611.9	611.9	611.8	611.7	611.6	611.5	611.5
	611.4	611.4	611.4	611.4	611.4	611.4	611.3	611.3	611.3	611.3
	611.3	611.3	611.3	611.3	611.3	611.3	611.2	611.2	611.2	611.2
	611.2	611.2	611.2	611.2	611.2	611.2	611.1	611.1	611.1	611.1
	611.1	611.1	611.1	611.1	611.1	611.0	611.0	611.0	611.0	611.0
	611.0	611.0	611.0	611.0	611.0	610.9	610.9	610.9	610.9	610.9
	610.9	610.9	610.9	610.9	610.9	610.8	610.8	610.8	610.8	610.8
	610.8	610.8	610.7	610.7	610.6	610.5	610.4	610.3	610.2	610.2
	610.2	610.2								
0160	611.6	611.5	611.5	611.5	611.4	611.4	611.3	611.2	611.1	611.0
	611.0	611.0	611.0	610.9	610.9	610.9	610.9	610.9	610.9	610.9
	610.9	610.9	610.9	610.8	610.8	610.8	610.8	610.8	610.8	610.8
	610.8	610.8	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7
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	610.3	610.3	610.3	610.2	610.1	610.0	609.9	609.9	609.8	609.8
	609.7	609.7								
0161	611.1	611.1	611.1	611.0	611.0	610.9	610.8	610.7	610.7	610.6
	610.6	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.4
	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.3
	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.3	610.2	610.2
	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.1	610.1
	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.0	610.0	610.0
	610.0	610.0	610.0	610.0	610.0	610.0	610.0	609.9	609.9	609.9
	609.9	609.9	609.8	609.8	609.7	609.6	609.5	609.4	609.4	609.3
	609.3	609.3								
0162	610.7	610.7	610.7	610.6	610.6	610.5	610.4	610.3	610.2	610.2
	610.1	610.1	610.1	610.1	610.1	610.1	610.0	610.0	610.0	610.0
	610.0	610.0	610.0	610.0	610.0	609.9	609.9	609.9	609.9	609.9
	609.9	609.9	609.9	609.9	609.9	609.8	609.8	609.8	609.8	609.8
	609.8	609.8	609.8	609.8	609.7	609.7	609.7	609.7	609.7	609.7
	609.7	609.7	609.7	609.6	609.6	609.6	609.6	609.6	609.6	609.6
	609.6	609.6	609.6	609.5	609.5	609.5	609.5	609.5	609.5	609.5
	609.5	609.4	609.4	609.3	609.2	609.1	609.0	609.0	608.9	608.9
	608.8	608.8								
0163	610.3	610.3	610.2	610.2	610.1	610.1	610.0	609.9	609.8	609.7
	609.7	609.7	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6
	609.6	609.6	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5
	609.5	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4
	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.1
	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.0	609.0
	609.0	609.0	608.9	608.9	608.8	608.7	608.6	608.5	608.5	608.4
	608.4	608.4								
0164	609.8	609.8	609.8	609.8	609.7	609.6	609.5	609.4	609.4	609.3
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0165	609.4	609.4	609.4	609.3	609.3	609.2	609.1	609.0	608.9	608.9
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	607.5	607.4								
0166	609.0	609.0	608.9	608.9	608.8	608.8	608.7	608.6	608.5	608.4
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0167	608.6	608.5	608.5	608.5	608.4	608.3	608.2	608.1	608.1	608.0
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	606.6	606.5								
0168	608.1	608.1	608.1	608.0	608.0	607.9	607.8	607.7	607.6	607.6
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	605.6	605.6								
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	604.7	604.7								
0172	606.4	606.4	606.3	606.3	606.2	606.1	606.1	606.0	605.9	605.8
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0181	602.4	602.4	602.4	602.3	602.3	602.2	602.1	602.0	601.9	601.8
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0183	601.6	601.5	601.5	601.4	601.4	601.3	601.2	601.1	601.0	600.9
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	598.9	598.8	598.8	598.8	598.8	598.8	598.8	598.8	598.7	598.7
	598.7	598.7	598.7	598.7	598.7	598.7	598.6	598.6	598.6	598.6
	598.6	598.6	598.6	598.5	598.5	598.5	598.5	598.5	598.5	598.5
	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.3	598.3	598.3
	598.3	598.3	598.3	598.3	598.2	598.2	598.2	598.2	598.2	598.2
	598.1	598.1	598.0	598.0	597.8	597.7	597.6	597.5	597.4	597.3
	597.3	597.3								
0188	599.3	599.3	599.3	599.2	599.1	599.1	598.9	598.8	598.7	598.6
	598.6	598.5	598.5	598.5	598.5	598.5	598.5	598.4	598.4	598.4
	598.4	598.4	598.4	598.4	598.3	598.3	598.3	598.3	598.3	598.3
	598.3	598.3	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.1
	598.1	598.1	598.1	598.1	598.1	598.0	598.0	598.0	598.0	598.0
	598.0	598.0	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.8
	597.8	597.8	597.8	597.8	597.8	597.8	597.7	597.7	597.7	597.7
	597.7	597.6	597.6	597.5	597.4	597.2	597.1	597.0	596.9	596.9
	596.8	596.8								
0189	598.9	598.9	598.8	598.8	598.7	598.6	598.5	598.4	598.3	598.2
	598.1	598.1	598.1	598.0	598.0	598.0	598.0	598.0	598.0	598.0
	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.8	597.8
	597.8	597.8	597.8	597.8	597.8	597.7	597.7	597.7	597.7	597.7
	597.7	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.5	597.5
	597.5	597.5	597.5	597.5	597.5	597.4	597.4	597.4	597.4	597.4
	597.4	597.4	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.2
	597.2	597.2	597.1	597.0	596.9	596.8	596.6	596.5	596.5	596.4
	596.3	596.3								
0190	598.3	598.3	598.3	598.2	598.1	598.0	597.9	597.8	597.7	597.6
	597.6	597.5	597.5	597.5	597.5	597.4	597.4	597.4	597.4	597.4
	597.4	597.4	597.4	597.3	597.3	597.3	597.3	597.3	597.3	597.2
	597.2	597.2	597.2	597.2	597.2	597.2	597.1	597.1	597.1	597.1
	597.1	597.1	597.1	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.8	596.8	596.8
	596.8	596.8	596.8	596.8	596.7	596.7	596.7	596.7	596.7	596.7
	596.6	596.6	596.5	596.4	596.3	596.2	596.1	596.0	595.9	595.8
	595.7	595.7								
0191	597.5	597.5	597.4	597.4	597.3	597.2	597.1	597.0	596.8	596.8
	596.7	596.7	596.6	596.6	596.6	596.6	596.6	596.6	596.5	596.5
	596.5	596.5	596.5	596.5	596.5	596.4	596.4	596.4	596.4	596.4
	596.4	596.4	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.2
	596.2	596.2	596.2	596.2	596.2	596.1	596.1	596.1	596.1	596.1
	596.1	596.1	596.0	596.0	596.0	596.0	596.0	596.0	596.0	595.9
	595.9	595.9	595.9	595.9	595.9	595.8	595.8	595.8	595.8	595.8
	595.8	595.7	595.7	595.6	595.4	595.3	595.2	595.1	595.0	594.9
	594.9	594.8								
0192	596.2	596.2	596.2	596.1	596.0	595.9	595.8	595.7	595.6	595.5
	595.4	595.4	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.2
	595.2	595.2	595.2	595.2	595.2	595.2	595.1	595.1	595.1	595.1
	595.1	595.1	595.0	595.0	595.0	595.0	595.0	595.0	595.0	594.9
	594.9	594.9	594.9	594.9	594.9	594.8	594.8	594.8	594.8	594.8
	594.8	594.8	594.7	594.7	594.7	594.7	594.7	594.7	594.6	594.6

	594.6	594.6	594.6	594.6	594.6	594.5	594.5	594.5	594.5	594.5
	594.4	594.4	594.3	594.2	594.1	594.0	593.8	593.7	593.6	593.6
	593.5	593.5								
0193	594.3	594.3	594.3	594.2	594.1	594.0	593.9	593.8	593.6	593.5
	593.5	593.4	593.4	593.4	593.4	593.4	593.3	593.3	593.3	593.3
	593.3	593.3	593.3	593.2	593.2	593.2	593.2	593.2	593.2	593.1
	593.1	593.1	593.1	593.1	593.1	593.0	593.0	593.0	593.0	593.0
	593.0	592.9	592.9	592.9	592.9	592.9	592.9	592.8	592.8	592.8
	592.8	592.8	592.8	592.8	592.7	592.7	592.7	592.7	592.7	592.7
	592.6	592.6	592.6	592.6	592.6	592.6	592.5	592.5	592.5	592.5
	592.5	592.4	592.3	592.3	592.1	592.0	591.8	591.7	591.6	591.5
	591.5	591.4								
0194	591.5	591.4	591.4	591.3	591.2	591.1	591.0	590.8	590.7	590.6
	590.5	590.5	590.5	590.5	590.4	590.4	590.4	590.4	590.4	590.4
	590.3	590.3	590.3	590.3	590.3	590.3	590.2	590.2	590.2	590.2
	590.2	590.2	590.1	590.1	590.1	590.1	590.1	590.0	590.0	590.0
	590.0	590.0	590.0	589.9	589.9	589.9	589.9	589.9	589.9	589.8
	589.8	589.8	589.8	589.8	589.8	589.7	589.7	589.7	589.7	589.7
	589.6	589.6	589.6	589.6	589.6	589.6	589.5	589.5	589.5	589.5
	589.5	589.4	589.3	589.2	589.1	588.9	588.8	588.6	588.5	588.4
	588.4	588.4								
0195	587.1	587.1	587.0	587.0	586.9	586.7	586.6	586.4	586.3	586.2
	586.1	586.1	586.0	586.0	586.0	586.0	586.0	585.9	585.9	585.9
	585.9	585.9	585.8	585.8	585.8	585.8	585.8	585.7	585.7	585.7
	585.7	585.7	585.7	585.6	585.6	585.6	585.6	585.6	585.5	585.5
	585.5	585.5	585.5	585.4	585.4	585.4	585.4	585.4	585.3	585.3
	585.3	585.3	585.3	585.2	585.2	585.2	585.2	585.2	585.1	585.1
	585.1	585.1	585.1	585.0	585.0	585.0	585.0	585.0	585.0	584.9
	584.9	584.8	584.8	584.6	584.5	584.3	584.1	584.0	583.9	583.8
	583.7	583.7								
0196	581.8	581.8	581.8	581.7	581.6	581.4	581.2	581.1	580.9	580.8
	580.7	580.6	580.6	580.6	580.6	580.5	580.5	580.5	580.5	580.5
	580.4	580.4	580.4	580.4	580.3	580.3	580.3	580.3	580.3	580.2
	580.2	580.2	580.2	580.2	580.1	580.1	580.1	580.1	580.0	580.0
	580.0	580.0	580.0	579.9	579.9	579.9	579.9	579.8	579.8	579.8
	579.8	579.8	579.7	579.7	579.7	579.7	579.6	579.6	579.6	579.6
	579.6	579.5	579.5	579.5	579.5	579.4	579.4	579.4	579.4	579.4
	579.3	579.3	579.2	579.0	578.8	578.6	578.4	578.3	578.1	578.0
	577.9	577.9								
0197	576.5	576.5	576.4	576.3	576.2	576.0	575.8	575.6	575.4	575.3
	575.2	575.1	575.1	575.1	575.0	575.0	575.0	575.0	574.9	574.9
	574.9	574.9	574.8	574.8	574.8	574.8	574.8	574.7	574.7	574.7
	574.7	574.6	574.6	574.6	574.6	574.5	574.5	574.5	574.5	574.4
	574.4	574.4	574.4	574.3	574.3	574.3	574.3	574.2	574.2	574.2
	574.2	574.1	574.1	574.1	574.1	574.0	574.0	574.0	574.0	573.9
	573.9	573.9	573.9	573.8	573.8	573.8	573.8	573.7	573.7	573.7
	573.6	573.6	573.5	573.3	573.1	572.8	572.6	572.4	572.3	572.1
	572.1	572.0								
0198	571.1	571.0	571.0	570.8	570.7	570.5	570.3	570.1	569.9	569.7
	569.6	569.5	569.5	569.5	569.4	569.4	569.4	569.4	569.3	569.3
	569.3	569.2	569.2	569.2	569.2	569.1	569.1	569.1	569.1	569.0
	569.0	569.0	568.9	568.9	568.9	568.9	568.8	568.8	568.8	568.8
	568.7	568.7	568.7	568.6	568.6	568.6	568.6	568.5	568.5	568.5
	568.4	568.4	568.4	568.4	568.3	568.3	568.3	568.2	568.2	568.2
	568.2	568.1	568.1	568.1	568.0	568.0	568.0	568.0	567.9	567.9
	567.8	567.8	567.6	567.5	567.2	566.9	566.7	566.5	566.3	566.1
	566.0	566.0								
0199	565.6	565.5	565.5	565.3	565.2	565.0	564.7	564.5	564.2	564.1
	564.0	563.9	563.8	563.8	563.8	563.7	563.7	563.7	563.6	563.6
	563.6	563.5	563.5	563.5	563.5	563.4	563.4	563.4	563.3	563.3
	563.3	563.2	563.2	563.2	563.1	563.1	563.1	563.0	563.0	563.0
	562.9	562.9	562.9	562.9	562.8	562.8	562.8	562.7	562.7	562.7
	562.6	562.6	562.6	562.6	562.5	562.5	562.4	562.4	562.4	562.3
	562.3	562.3	562.2	562.2	562.2	562.1	562.1	562.1	562.0	562.0
	561.9	561.8	561.7	561.5	561.2	560.9	560.6	560.3	560.1	560.0
	559.8	559.8								
0200	560.0	560.0	559.9	559.8	559.6	559.4	559.1	558.8	558.5	558.3
	558.2	558.1	558.1	558.0	558.0	558.0	557.9	557.9	557.9	557.8
	557.8	557.8	557.7	557.7	557.6	557.6	557.6	557.5	557.5	557.5
	557.4	557.4	557.4	557.3	557.3	557.3	557.2	557.2	557.2	557.1
	557.1	557.0	557.0	557.0	556.9	556.9	556.9	556.8	556.8	556.8
	556.7	556.7	556.6	556.6	556.6	556.5	556.5	556.5	556.4	556.4
	556.3	556.3	556.3	556.2	556.2	556.2	556.1	556.1	556.0	556.0
	555.9	555.8	555.7	555.4	555.1	554.7	554.4	554.1	553.8	553.6
	553.5	553.4								
0201	554.4	554.4	554.3	554.1	553.9	553.7	553.4	553.1	552.8	552.6
	552.4	552.3	552.2	552.2	552.1	552.1	552.1	552.0	552.0	552.0
	551.9	551.9	551.8	551.8	551.8	551.7	551.7	551.7	551.6	551.6
	551.5	551.5	551.5	551.4	551.4	551.3	551.3	551.2	551.2	551.2
	551.1	551.1	551.0	551.0	551.0	550.9	550.9	550.8	550.8	550.8
	550.7	550.7	550.6	550.6	550.5	550.5	550.5	550.4	550.4	550.3
	550.3	550.2	550.2	550.2	550.1	550.1	550.0	550.0	550.0	549.9
	549.8	549.7	549.5	549.3	548.9	548.5	548.1	547.7	547.4	547.2
	547.0	546.9								
0202	548.8	548.8	548.6	548.5	548.2	548.0	547.6	547.3	546.9	546.7
	546.5	546.4	546.3	546.3	546.2	546.2	546.2	546.1	546.1	546.0
	546.0	545.9	545.9	545.9	545.8	545.8	545.7	545.7	545.6	545.6
	545.5	545.5	545.5	545.4	545.4	545.3	545.3	545.2	545.2	545.1
	545.1	545.0	545.0	544.9	544.9	544.9	544.8	544.8	544.7	544.7
	544.6	544.6	544.5	544.5	544.4	544.4	544.3	544.3	544.2	544.2
	544.1	544.1	544.0	544.0	543.9	543.9	543.9	543.8	543.8	543.7
	543.6	543.5	543.3	543.0	542.5	542.0	541.6	541.1	540.8	540.5
	540.3	540.2								
0203	543.1	543.1	542.9	542.7	542.5	542.2	541.8	541.4	541.0	540.8
	540.6	540.4	540.4	540.3	540.3	540.2	540.2	540.1	540.1	540.0
	540.0	539.9	539.9	539.8	539.8	539.7	539.7	539.6	539.6	539.5
	539.5	539.4	539.4	539.3	539.3	539.2	539.2	539.1	539.1	539.0
	539.0	538.9	538.9	538.8	538.8	538.7	538.6	538.6	538.5	538.5
	538.4	538.4	538.3	538.3	538.2	538.2	538.1	538.1	538.0	537.9
	537.9	537.8	537.8	537.7	537.7	537.6	537.6	537.5	537.5	537.4
	537.3	537.1	536.9	536.6	536.1	535.5	534.9	534.4	534.0	533.7
	533.5	533.3								
0204	537.4	537.3	537.2	537.0	536.7	536.4	536.0	535.5	535.1	534.8
	534.6	534.4	534.3	534.3	534.2	534.2	534.1	534.1	534.0	534.0
	533.9	533.8	533.8	533.7	533.7	533.6	533.6	533.5	533.5	533.4
	533.3	533.3	533.2	533.2	533.1	533.1	533.0	532.9	532.9	532.8
	532.8	532.7	532.6	532.6	532.5	532.5	532.4	532.3	532.3	532.2
	532.2	532.1	532.0	532.0	531.9	531.9	531.8	531.7	531.7	531.6
	531.6	531.5	531.4	531.4	531.3	531.2	531.2	531.1	531.1	531.0
	530.9	530.7	530.4	530.0	529.5	528.8	528.1	527.6	527.1	526.7
	526.4	526.2								
0205	531.7	531.6	531.4	531.2	530.9	530.5	530.1	529.6	529.1	528.7
	528.5	528.4	528.2	528.2	528.1	528.1	528.0	527.9	527.9	527.8
	527.8	527.7	527.6	527.6	527.5	527.5	527.4	527.3	527.3	527.2
	527.1	527.1	527.0	526.9	526.9	526.8	526.8	526.7	526.6	526.6
	526.5	526.4	526.4	526.3	526.2	526.2	526.1	526.0	526.0	525.9
	525.8	525.8	525.7	525.6	525.5	525.5	525.4	525.3	525.3	525.2
	525.1	525.1	525.0	524.9	524.9	524.8	524.7	524.6	524.6	524.5
	524.3	524.1	523.8	523.4	522.7	521.9	521.2	520.5	519.9	519.4
	519.1	518.9								
0206	525.9	525.8	525.7	525.4	525.0	524.6	524.1	523.6	523.0	522.7
	522.4	522.2	522.1	522.0	522.0	521.9	521.8	521.8	521.7	521.6

	521.6	521.5	521.4	521.4	521.3	521.2	521.2	521.1	521.0	520.9
	520.9	520.8	520.7	520.7	520.6	520.5	520.4	520.4	520.3	520.2
	520.2	520.1	520.0	519.9	519.9	519.8	519.7	519.6	519.6	519.5
	519.4	519.3	519.2	519.2	519.1	519.0	518.9	518.9	518.8	518.7
	518.6	518.5	518.5	518.4	518.3	518.2	518.1	518.1	518.0	517.9
	517.7	517.5	517.2	516.7	515.9	515.0	514.1	513.3	512.5	511.9
	511.5	511.3								
0207	520.2	520.1	519.9	519.6	519.2	518.7	518.2	517.5	516.9	516.5
	516.2	516.1	515.9	515.8	515.8	515.7	515.6	515.5	515.5	515.4
	515.3	515.2	515.2	515.1	515.0	514.9	514.9	514.8	514.7	514.6
	514.6	514.5	514.4	514.3	514.2	514.2	514.1	514.0	513.9	513.8
	513.8	513.7	513.6	513.5	513.4	513.3	513.3	513.2	513.1	513.0
	512.9	512.8	512.7	512.7	512.6	512.5	512.4	512.3	512.2	512.1
	512.0	512.0	511.9	511.8	511.7	511.6	511.5	511.4	511.3	511.2
	511.0	510.8	510.4	509.8	508.9	507.9	506.8	505.8	504.9	504.2
	503.6	503.3								
0208	514.4	514.3	514.1	513.7	513.3	512.8	512.2	511.5	510.8	510.4
	510.1	509.8	509.7	509.6	509.5	509.4	509.4	509.3	509.2	509.1
	509.0	509.0	508.9	508.8	508.7	508.6	508.5	508.4	508.4	508.3
	508.2	508.1	508.0	507.9	507.8	507.7	507.7	507.6	507.5	507.4
	507.3	507.2	507.1	507.0	506.9	506.8	506.7	506.7	506.6	506.5
	506.4	506.3	506.2	506.1	506.0	505.9	505.8	505.7	505.6	505.5
	505.4	505.3	505.2	505.1	505.0	504.9	504.8	504.7	504.6	504.5
	504.3	504.0	503.6	502.9	501.9	500.7	499.4	498.2	497.1	496.1
	495.3	495.0								
0209	508.6	508.5	508.3	507.9	507.4	506.8	506.2	505.4	504.7	504.2
	503.8	503.6	503.4	503.3	503.2	503.2	503.1	503.0	502.9	502.8
	502.7	502.6	502.5	502.4	502.3	502.3	502.2	502.1	502.0	501.9
	501.8	501.7	501.6	501.5	501.4	501.3	501.2	501.1	501.0	500.9
	500.8	500.7	500.6	500.5	500.4	500.3	500.2	500.1	500.0	499.9
	499.8	499.7	499.6	499.5	499.3	499.2	499.1	499.0	498.9	498.8
	498.7	498.6	498.5	498.4	498.3	498.1	498.0	497.9	497.8	497.7
	497.5	497.1	496.7	495.9	494.8	493.4	491.9	490.4	489.0	487.7
	486.7	486.1								
0210	502.9	502.8	502.5	502.1	501.6	500.9	500.2	499.3	498.5	498.0
	497.6	497.3	497.2	497.0	496.9	496.8	496.7	496.7	496.6	496.5
	496.4	496.3	496.2	496.1	496.0	495.9	495.7	495.6	495.5	495.4
	495.3	495.2	495.1	495.0	494.9	494.8	494.7	494.6	494.5	494.4
	494.3	494.1	494.0	493.9	493.8	493.7	493.6	493.5	493.4	493.2
	493.1	493.0	492.9	492.8	492.7	492.6	492.4	492.3	492.2	492.1
	492.0	491.8	491.7	491.6	491.5	491.3	491.2	491.1	491.0	490.8
	490.6	490.2	489.7	488.9	487.6	486.0	484.3	482.5	480.7	478.9
	477.4	476.6								
0211	497.2	497.1	496.7	496.3	495.7	495.0	494.1	493.2	492.4	491.7
	491.3	491.0	490.8	490.7	490.6	490.5	490.4	490.3	490.2	490.1
	490.0	489.9	489.8	489.6	489.5	489.4	489.3	489.2	489.1	489.0
	488.9	488.7	488.6	488.5	488.4	488.3	488.2	488.0	487.9	487.8
	487.7	487.6	487.4	487.3	487.2	487.1	487.0	486.8	486.7	486.6
	486.5	486.3	486.2	486.1	486.0	485.8	485.7	485.6	485.4	485.3
	485.2	485.0	484.9	484.8	484.6	484.5	484.4	484.2	484.1	483.9
	483.7	483.3	482.7	481.8	480.4	478.6	476.7	474.6	472.3	469.8
	467.1	466.3								
0212	491.6	491.4	491.0	490.5	489.9	489.1	488.1	487.1	486.2	485.5
	485.1	484.7	484.5	484.4	484.3	484.2	484.0	483.9	483.8	483.7
	483.6	483.5	483.3	483.2	483.1	483.0	482.9	482.7	482.6	482.5
	482.4	482.2	482.1	482.0	481.9	481.7	481.6	481.5	481.4	481.2
	481.1	481.0	480.8	480.7	480.6	480.4	480.3	480.2	480.0	479.9
	479.8	479.6	479.5	479.3	479.2	479.1	478.9	478.8	478.6	478.5
	478.4	478.2	478.1	477.9	477.8	477.6	477.5	477.4	477.2	477.0
	476.8	476.3	475.7	474.7	473.2	471.1	469.2	466.8	463.8	460.9
	455.0	455.0								
0213	486.0	485.8	485.4	484.8	484.1	483.2	482.1	481.0	480.0	479.3
	478.8	478.4	478.2	478.0	477.9	477.8	477.7	477.5	477.4	477.3
	477.2	477.0	476.9	476.8	476.6	476.5	476.4	476.3	476.1	476.0
	475.9	475.7	475.6	475.5	475.3	475.2	475.0	474.9	474.8	474.6
	474.5	474.4	474.2	474.1	473.9	473.8	473.6	473.5	473.3	473.2
	473.0	472.9	472.7	472.6	472.4	472.3	472.1	472.0	471.8	471.7
	471.5	471.3	471.2	471.0	470.9	470.7	470.6	470.4	470.3	470.1
	469.8	469.4	468.7	467.8	466.1	463.5	461.9	459.7	455.0	455.0
	1000.	1000.								
0214	480.6	480.3	479.9	479.2	478.3	477.3	476.2	474.9	473.8	473.0
	472.5	472.1	471.9	471.7	471.6	471.4	471.3	471.2	471.0	470.9
	470.7	470.6	470.4	470.3	470.2	470.0	469.9	469.7	469.6	469.4
	469.3	469.2	469.0	468.9	468.8	468.6	468.5	468.3	468.2	468.1
	467.9	467.8	467.6	467.5	467.3	467.2	467.0	466.9	466.7	466.5
	466.4	466.2	466.0	465.9	465.7	465.5	465.3	465.1	464.9	464.7
	464.5	464.3	464.1	464.0	463.8	463.6	463.4	463.3	463.1	462.9
	462.7	462.3	461.8	461.0	459.4	455.0	455.0	455.0	1000.	1000.
	1000.	1000.								
0215	475.3	475.0	474.4	473.7	472.7	471.5	470.2	468.7	467.6	466.8
	466.3	465.9	465.6	465.4	465.3	465.1	464.9	464.8	464.6	464.4
	464.3	464.1	463.9	463.7	463.5	463.4	463.2	463.0	462.9	462.7
	462.6	462.5	462.3	462.2	462.1	462.0	461.9	461.7	461.6	461.5
	461.4	461.3	461.2	461.0	460.9	460.8	460.6	460.5	460.4	460.2
	460.0	459.9	459.7	459.5	459.2	459.0	458.7	458.5	458.2	457.8
	457.5	457.1	456.6	456.1	455.6	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0216	470.2	469.8	469.2	468.2	467.0	465.8	464.2	462.3	461.4	460.8
	460.3	460.0	459.7	459.5	459.3	459.1	458.9	458.7	458.5	458.2
	457.9	457.6	457.3	456.9	456.5	456.1	455.6	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0217	465.3	464.8	464.1	463.0	461.3	460.2	458.6	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0218	460.8	460.0	459.3	458.1	455.0	455.0	455.0	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.								
0219	457.0	455.0	455.0	455.0	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.
	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1000.

```
        1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.
        1000.       1000.
0220    455.0       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.
        1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.
        1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.
        1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.
        1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.
        1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.
        1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.       1000.
        1000.       1000.
0HEAD WILL BE SAVED ON UNIT 42 AT END OF TIME STEP  1, STRESS PERIOD  1
0


                                VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP  1 IN STRESS PERIOD  1
                                ----------------------------------------------------------------------------
0                       CUMULATIVE VOLUMES      L**3                        RATES FOR THIS TIME STEP      L**3/T
                        ------------------                                  ------------------------

                             IN:                                                 IN:
                             ---                                                 ---
                               STORAGE =    0.00000                                STORAGE =    0.00000
                          CONSTANT HEAD =    0.00000                           CONSTANT HEAD =    0.00000
                               RECHARGE =    2003.9                                RECHARGE =    2003.9
0                              TOTAL IN =    2003.9                               TOTAL IN =    2003.9
0                            OUT:                                                OUT:
                             ----                                                ----
                               STORAGE =    0.00000                                STORAGE =    0.00000
                          CONSTANT HEAD =    2004.0                           CONSTANT HEAD =    2004.0
                               RECHARGE =    0.00000                                RECHARGE =    0.00000
0                             TOTAL OUT =    2004.0                              TOTAL OUT =    2004.0
0                              IN - OUT =  -0.77393E-01                            IN - OUT =  -0.77393E-01
0                   PERCENT DISCREPANCY =                0.00                PERCENT DISCREPANCY =                0.00


0

          TIME SUMMARY AT END OF TIME STEP  1 IN STRESS PERIOD  1
                              TIME STEP LENGTH =    1.00000
                         STRESS PERIOD TIME =    1.00000
                       TOTAL SIMULATION TIME =    1.00000
1
```

APPENDIX D

MODFLOW Model Sensitivity Analysis Results

- Sensitivity of Heads to Net Recharge
- Sensitivity of Heads to K_h
- Sensitivity of Heads to K_v

- **Sensitivity of Header to Net Recharge**

Sensitivity of Heads to Net Recharge

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	0% Recharge: MODEL HEAD	1.332E-05 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	646.0	0.7	0.7
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	642.9	-2.0	2.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0.8	0.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	635.5	1.3	1.3
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624.3	0.3	0.3
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	604.0	-4.3	4.3

Statistical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03

Sensitivity of Heads to Net Recharge

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Recharge: MODEL HEAD	-5% 1.260E-05 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	720.9	-19.9	19.9
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	718.9	-19.0	19.0
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	718.2	-17.1	17.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	715.9	-15.9	15.9
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	717.9	-13.1	13.1
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	716.9	-12.9	12.9
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	714.7	-13.4	13.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	652.6	-34.2	34.2
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	649.5	-28.8	28.8
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	647.5	-26.0	26.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	647.3	-16.1	16.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	639.8	-17.3	17.3
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	639.3	-17.7	17.7
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	640.2	-15.5	15.5
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	638.3	-16.3	16.3
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	638.2	-15.6	15.6
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	639.1	-14.7	14.7
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	637.9	-13.8	13.8
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	635.9	-14.0	14.0
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	635.6	-13.0	13.0
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	632.4	-14.5	14.5
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	632.0	-13.6	13.6
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	632.0	-13.5	13.5
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	635.7	-9.6	9.6
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	632.7	-12.2	12.2
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	632.0	-12.7	12.7
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	629.9	-13.9	13.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	630.2	-10.8	10.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	630.2	-10.7	10.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	631.2	-9.0	9.0
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	629.8	-10.2	10.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	627.2	-7.9	7.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	625.5	-9.6	9.6
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	625.7	-8.5	8.5
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	623.3	-10.7	10.7
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	624.7	-8.8	8.8
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	623.3	-10.1	10.1
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	626.4	-7.0	7.0
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	625.4	-7.7	7.7
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	628.5	-3.3	3.3
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	624.7	-7.0	7.0
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	624.6	-7.0	7.0
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	624.7	-6.9	6.9
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	624.0	-7.6	7.6
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	624.7	-6.5	6.5
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	622.4	-8.6	8.6
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	624.2	-6.4	6.4
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	626.0	-4.3	4.3
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	623.2	-7.0	7.0
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	620.1	-9.0	9.0
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	620.4	-8.7	8.7
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	620.4	-8.6	8.6
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	625.5	-2.9	2.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	618.6	-8.7	8.7
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	618.6	-8.3	8.3
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	618.6	-8.3	8.3
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	615.2	-8.8	8.8
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	615.2	-8.8	8.8
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	615.2	-7.3	7.3
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	596.0	-12.3	12.3

Statistical Calculations:

Monitoring Wells	
ME=	-13.95
MAE=	13.95

Sensitivity of Heads to Net Recharge

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Recharge: MODEL HEAD	-15% 1.132E-05 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	693.9	-46.9	46.9
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	692.1	-45.8	45.8
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	691.4	-43.9	43.9
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	689.4	-42.4	42.4
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	691.2	-39.8	39.8
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	690.3	-39.5	39.5
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	688.3	-39.8	39.8
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	632.6	-54.2	54.2
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	629.7	-48.6	48.6
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	627.9	-45.6	45.6
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	627.8	-35.6	35.6
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	621.0	-36.1	36.1
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	620.6	-36.4	36.4
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	621.3	-34.4	34.4
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	619.7	-34.9	34.9
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	619.6	-34.2	34.2
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	620.4	-33.4	33.4
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	619.3	-32.4	32.4
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	617.5	-32.4	32.4
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	617.2	-31.4	31.4
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	614.4	-32.5	32.5
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	614.1	-31.5	31.5
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	614.1	-31.4	31.4
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	617.3	-28.0	28.0
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	614.7	-30.2	30.2
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	614.1	-30.6	30.6
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	612.1	-31.7	31.7
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	612.4	-28.6	28.6
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	612.4	-28.5	28.5
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	613.3	-26.9	26.9
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	612.0	-28.0	28.0
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	609.7	-25.4	25.4
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	608.2	-26.9	26.9
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	608.4	-25.8	25.8
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	606.2	-27.8	27.8
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	607.5	-26.0	26.0
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	606.2	-27.2	27.2
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	609.0	-24.4	24.4
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	608.1	-25.0	25.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	610.9	-20.9	20.9
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	607.4	-24.3	24.3
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	607.4	-24.2	24.2
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	607.4	-24.2	24.2
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	606.8	-24.8	24.8
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	607.4	-23.8	23.8
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	605.4	-25.6	25.6
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	607.0	-23.6	23.6
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	608.6	-21.7	21.7
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	606.1	-24.1	24.1
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	603.4	-25.7	25.7
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	603.6	-25.5	25.5
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	603.6	-25.4	25.4
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	608.2	-20.2	20.2
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	602.0	-25.3	25.3
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	602.0	-24.9	24.9
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	602.0	-24.9	24.9
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	598.9	-25.1	25.1
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	598.9	-25.1	25.1
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	598.9	-23.6	23.6
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	581.6	-26.7	26.7

Statistical Calculations:

Monitoring Wells	
ME=	-35.95
MAE=	35.95

Sensitivity of Heads to Net Recharge

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Recharge: MODEL HEAD	-25% 1.001E-05 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	666.2	-74.6	74.6
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	664.6	-73.3	73.3
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	664.1	-71.2	71.2
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	662.2	-69.6	69.6
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	663.9	-67.1	67.1
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	663.1	-66.7	66.7
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	661.3	-66.8	66.8
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	612.0	-74.8	74.8
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	609.5	-68.8	68.8
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	607.9	-65.6	65.6
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	607.8	-55.6	55.6
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	601.8	-55.3	55.3
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	601.4	-55.6	55.6
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	602.1	-53.6	53.6
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	600.7	-53.9	53.9
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	600.6	-53.2	53.2
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	601.2	-52.6	52.6
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	600.3	-51.4	51.4
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	598.7	-51.2	51.2
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	598.5	-50.1	50.1
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	596.0	-50.9	50.9
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	595.6	-50.0	50.0
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	595.6	-49.9	49.9
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	598.5	-46.8	46.8
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	596.2	-48.7	48.7
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	595.6	-49.1	49.1
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	594.0	-49.8	49.8
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	594.2	-46.8	46.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	594.2	-46.7	46.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	595.0	-45.2	45.2
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	593.9	-46.1	46.1
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	591.8	-43.3	43.3
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	590.4	-44.7	44.7
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	590.6	-43.6	43.6
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	588.7	-45.3	45.3
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	589.8	-43.7	43.7
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	588.7	-44.7	44.7
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	591.2	-42.2	42.2
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	590.3	-42.8	42.8
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	592.8	-39.0	39.0
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	589.8	-41.9	41.9
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	589.7	-41.9	41.9
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	589.8	-41.8	41.8
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	589.2	-42.4	42.4
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	589.8	-41.4	41.4
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	588.0	-43.0	43.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	589.4	-41.2	41.2
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	590.9	-39.4	39.4
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	588.6	-41.6	41.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	586.2	-42.9	42.9
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	586.4	-42.7	42.7
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	586.4	-42.6	42.6
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	590.5	-37.9	37.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	585.0	-42.3	42.3
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	585.0	-41.9	41.9
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	585.0	-41.9	41.9
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	582.2	-41.8	41.8
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	582.3	-41.7	41.7
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	582.2	-40.3	40.3
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	566.9	-41.4	41.4

Statistical Calculations:

Monitoring Wells	
ME=	-58.47
MAE=	58.47

Sensitivity of Heads to Net Recharge

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Recharge: MODEL HEAD	+5% 1.399E-05 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	750.2	9.4	9.4
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	748.0	10.1	10.1
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	747.2	11.9	11.9
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	744.6	12.8	12.8
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	746.9	15.9	15.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	745.8	16.0	16.0
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	743.4	15.3	15.3
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	674.5	-12.3	12.3
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	670.9	-7.4	7.4
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	668.7	-4.8	4.8
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	668.5	5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	660.2	3.1	3.1
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	659.6	2.6	2.6
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	660.6	4.9	4.9
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	658.6	4.0	4.0
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	658.5	4.7	4.7
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	659.4	5.6	5.6
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	658.1	6.4	6.4
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	655.9	6.0	6.0
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	655.5	6.9	6.9
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	652.0	5.1	5.1
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	651.6	6.0	6.0
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	651.6	6.1	6.1
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	655.6	10.3	10.3
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	652.3	7.4	7.4
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	651.6	6.9	6.9
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	649.2	5.4	5.4
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	649.5	8.5	8.5
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	649.5	8.6	8.6
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	650.7	10.5	10.5
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	649.1	9.1	9.1
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	645.0	9.9	9.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	644.3	9.2	9.2
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	644.6	10.4	10.4
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	641.9	7.9	7.9
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	643.5	10.0	10.0
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	641.9	8.5	8.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	645.3	11.9	11.9
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	644.2	11.1	11.1
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	647.7	15.9	15.9
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	643.4	11.7	11.7
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	643.3	11.7	11.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	643.4	11.8	11.8
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	642.6	11.0	11.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	643.4	12.2	12.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	640.9	9.9	9.9
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	642.9	12.3	12.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	644.9	14.6	14.6
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	641.7	11.5	11.5
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	638.3	9.2	9.2
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	638.7	9.6	9.6
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	638.7	9.7	9.7
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	644.4	16.0	16.0
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	636.6	9.3	9.3
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	636.6	9.7	9.7
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	636.6	9.7	9.7
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	632.8	8.8	8.8
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	632.8	8.8	8.8
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	632.8	10.3	10.3
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	611.5	3.2	3.2

Statistical Calculations:

Monitoring Wells	
ME=	9.92
MAE=	10.88

Sensitivity of Heads to Net Recharge

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Recharge: MODEL HEAD	+15% 1.532E-05 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	778.3	37.5	37.5
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	775.8	37.9	37.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	775.0	39.7	39.7
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	772.2	40.4	40.4
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	774.7	43.7	43.7
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	773.5	43.7	43.7
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	770.8	42.7	42.7
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	695.3	8.5	8.5
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	691.5	13.2	13.2
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	689.0	15.5	15.5
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	688.8	25.4	25.4
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	697.7	40.6	40.6
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	679.1	22.1	22.1
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	680.1	24.4	24.4
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	677.9	23.3	23.3
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	677.8	24.0	24.0
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	678.8	25.0	25.0
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	677.4	25.7	25.7
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	674.9	25.0	25.0
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	674.6	26.0	26.0
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	670.7	23.8	23.8
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	670.3	24.7	24.7
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	670.3	24.8	24.8
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	674.7	29.4	29.4
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	671.1	26.2	26.2
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	670.3	25.6	25.6
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	667.7	23.9	23.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	668.0	27.0	27.0
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	668.0	27.1	27.1
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	669.3	29.1	29.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	667.5	27.5	27.5
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	664.4	29.3	29.3
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	662.3	27.2	27.2
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	662.6	28.4	28.4
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	659.6	25.6	25.6
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	661.4	27.9	27.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	659.6	26.2	26.2
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	663.4	30.0	30.0
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	662.1	29.0	29.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	666.0	34.2	34.2
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	661.3	29.6	29.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	661.2	29.6	29.6
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	661.3	29.7	29.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	660.4	28.8	28.8
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	661.3	30.1	30.1
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	658.6	27.6	27.6
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	660.7	30.1	30.1
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	662.9	32.6	32.6
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	659.5	29.3	29.3
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	655.8	26.7	26.7
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	656.1	27.0	27.0
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	656.1	27.1	27.1
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	662.4	34.0	34.0
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	653.9	26.6	26.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	653.9	27.0	27.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	653.9	27.0	27.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	649.7	25.7	25.7
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	649.8	25.8	25.8
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	649.7	27.2	27.2
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	626.4	18.1	18.1

Statistical Calculations:

Monitoring Wells	
ME=	33.15
MAE=	33.15

Sensitivity of Heads to Net Recharge

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Recharge: MODEL HEAD	+25% 1.665E-05 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	806.4	65.6	65.6
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	803.7	65.8	65.8
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	802.8	67.5	67.5
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	799.7	67.9	67.9
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	802.4	71.4	71.4
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	801.1	71.3	71.3
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	798.2	70.1	70.1
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	716.2	29.4	29.4
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	725.3	47.0	47.0
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	709.3	35.8	35.8
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	709.1	45.7	45.7
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	699.2	42.1	42.1
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	698.5	41.5	41.5
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	699.7	44.0	44.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	697.3	42.7	42.7
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	697.1	43.3	43.3
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	698.2	44.4	44.4
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	696.7	45.0	45.0
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	694.0	44.1	44.1
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	693.6	45.0	45.0
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	689.5	42.6	42.6
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	688.9	43.3	43.3
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	688.9	43.4	43.4
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	693.7	48.4	48.4
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	689.8	44.9	44.9
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	688.9	44.2	44.2
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	686.1	42.3	42.3
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	686.5	45.5	45.5
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	686.5	45.6	45.6
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	687.9	47.7	47.7
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	686.0	46.0	46.0
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	682.6	47.5	47.5
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	680.3	45.2	45.2
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	680.6	46.4	46.4
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	677.4	43.4	43.4
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	697.3	63.8	63.8
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	677.4	44.0	44.0
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	681.5	48.1	48.1
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	680.1	47.0	47.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	684.3	52.5	52.5
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	679.2	47.5	47.5
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	679.1	47.5	47.5
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	679.2	47.6	47.6
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	678.3	46.7	46.7
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	679.2	48.0	48.0
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	676.3	45.3	45.3
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	678.6	48.0	48.0
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	681.0	50.7	50.7
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	677.2	47.0	47.0
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	673.2	44.1	44.1
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	673.6	44.5	44.5
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	673.6	44.6	44.6
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	680.4	52.0	52.0
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	671.2	43.9	43.9
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	671.2	44.3	44.3
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	671.2	44.3	44.3
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	666.7	42.7	42.7
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	666.7	42.7	42.7
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	666.7	44.2	44.2
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	641.3	33.0	33.0

Statistical Calculations:

Monitoring Wells	
ME=	56.28
MAE=	56.28

- **Sensitivity of Heads to K_h**

Sensitivity of Heads to Kh

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kh: MODEL HEAD	0% 1.0300 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	646.0	0.7	0.7
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	642.9	-2.0	2.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0.8	0.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	635.5	1.3	1.3
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624.3	0.3	0.3
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	604.0	-4.3	4.3

Statistical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03

Sensitivity of Heads to Kh

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kh: MODEL HEAD	-5% 0.9785 Difference (feet)	(ft day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	744.2	3.4	3.4
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	742.0	4.1	4.1
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	741.3	6.0	6.0
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	738.7	6.9	6.9
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	741.0	10.0	10.0
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	739.9	10.1	10.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	737.5	9.4	9.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	670.0	-16.8	16.8
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	666.5	-11.8	11.8
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	664.4	-9.1	9.1
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	664.2	0.8	0.8
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	656.0	-1.1	1.1
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	655.0	-2.0	2.0
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	656.4	0.7	0.7
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	654.4	-0.2	0.2
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	654.3	0.5	0.5
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	655.2	1.4	1.4
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	654.0	2.3	2.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	651.8	1.9	1.9
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	651.4	2.8	2.8
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	648.0	1.1	1.1
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	647.6	2.0	2.0
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	647.6	2.1	2.1
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	651.5	6.2	6.2
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	648.3	3.4	3.4
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	647.6	2.9	2.9
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	645.3	1.5	1.5
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	645.6	4.6	4.6
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	645.6	4.7	4.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	646.7	6.5	6.5
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	645.1	5.1	5.1
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	642.3	7.2	7.2
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	640.4	5.3	5.3
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	640.7	6.5	6.5
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	638.1	4.1	4.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	639.6	6.1	6.1
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	638.1	4.7	4.7
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	641.5	8.1	8.1
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	640.3	7.2	7.2
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	643.7	11.9	11.9
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	639.5	7.8	7.8
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	639.5	7.9	7.9
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	639.5	7.9	7.9
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	638.8	7.2	7.2
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	639.5	8.3	8.3
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	637.1	6.1	6.1
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	639.0	8.4	8.4
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	641.0	10.7	10.7
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	637.9	7.7	7.7
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	634.6	5.5	5.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	634.9	5.8	5.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	634.9	5.9	5.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	640.5	12.1	12.1
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	632.9	5.6	5.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	632.9	6.0	6.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	632.9	6.0	6.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	629.2	5.2	5.2
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	629.2	5.2	5.2
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	629.2	6.7	6.7
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	608.3	0.0	0.0

Statistical Calculations:

Monitoring Wells	
ME=	5.03
MAE=	6.64

Sensitivity of Heads to Kh

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kh: MODEL HEAD	-15% 0.8755 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	762.0	21.2	21.2
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	759.7	21.8	21.8
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	758.8	23.5	23.5
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	756.2	24.4	24.4
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	758.5	27.5	27.5
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	757.4	27.6	27.6
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	754.8	26.7	26.7
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	683.2	-3.6	3.6
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	679.5	1.2	1.2
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	677.2	3.7	3.7
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	677.0	13.6	13.6
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	668.4	11.3	11.3
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	667.8	10.8	10.8
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	668.8	13.1	13.1
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	666.7	12.1	12.1
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	666.6	12.8	12.8
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	667.5	13.7	13.7
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	666.2	14.5	14.5
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	663.9	14.0	14.0
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	663.5	14.9	14.9
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	659.9	13.0	13.0
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	659.4	13.8	13.8
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	659.4	13.9	13.9
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	663.6	18.3	18.3
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	660.2	15.3	15.3
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	659.4	14.7	14.7
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	656.9	13.1	13.1
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	657.3	16.3	16.3
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	657.3	16.4	16.4
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	658.4	18.2	18.2
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	656.8	16.8	16.8
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	653.8	18.7	18.7
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	651.8	16.7	16.7
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	652.1	17.9	17.9
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	649.3	15.3	15.3
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	651.0	17.5	17.5
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	649.3	15.9	15.9
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	652.9	19.5	19.5
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	651.7	18.6	18.6
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	655.3	23.5	23.5
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	650.9	19.2	19.2
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	650.8	19.2	19.2
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	650.9	19.3	19.3
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	650.1	18.5	18.5
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	650.9	19.7	19.7
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	648.3	17.3	17.3
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	650.3	19.7	19.7
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	652.4	22.1	22.1
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	649.1	18.9	18.9
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	645.6	16.5	16.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	646.0	16.9	16.9
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	646.0	17.0	17.0
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	651.9	23.5	23.5
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	643.9	16.6	16.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	643.9	17.0	17.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	643.9	17.0	17.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	639.9	15.9	15.9
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	639.9	15.9	15.9
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	639.9	17.4	17.4
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	617.7	9.4	9.4

Statistical Calculations:

Monitoring Wells	
ME=	19.52
MAE=	19.66

Sensitivity of Heads to Kh

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kh: MODEL HEAD	-25% 0.7725 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	782.1	41.3	41.3
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	779.6	41.7	41.7
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	778.7	43.4	43.4
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	775.9	44.1	44.1
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	778.4	47.4	47.4
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	777.2	47.4	47.4
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	774.5	46.4	46.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	698.1	11.3	11.3
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	694.2	15.9	15.9
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	691.8	18.3	18.3
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	691.6	28.2	28.2
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	682.3	25.2	25.2
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	681.7	24.7	24.7
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	682.8	27.1	27.1
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	680.5	25.9	25.9
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	680.4	26.6	26.6
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	681.4	27.6	27.6
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	680.0	28.3	28.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	677.5	27.6	27.6
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	677.1	28.5	28.5
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	673.3	26.4	26.4
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	672.8	27.2	27.2
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	672.8	27.3	27.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	677.2	31.9	31.9
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	673.6	28.7	28.7
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	672.8	28.1	28.1
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	670.2	26.4	26.4
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	670.5	29.5	29.5
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	670.5	29.6	29.6
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	671.8	31.6	31.6
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	670.0	30.0	30.0
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	666.8	31.7	31.7
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	664.7	29.6	29.6
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	665.0	30.8	30.8
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	662.0	28.0	28.0
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	663.8	30.3	30.3
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	662.0	28.6	28.6
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	665.9	32.5	32.5
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	664.5	31.4	31.4
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	668.4	36.6	36.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	656.2	24.5	24.5
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	663.6	32.0	32.0
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	663.7	32.1	32.1
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	662.8	31.2	31.2
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	663.7	32.5	32.5
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	661.0	30.0	30.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	663.1	32.5	32.5
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	665.4	35.1	35.1
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	661.9	31.7	31.7
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	658.1	29.0	29.0
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	658.5	29.4	29.4
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	658.5	29.5	29.5
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	664.8	36.4	36.4
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	656.2	28.9	28.9
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	656.2	29.3	29.3
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	656.2	29.3	29.3
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	652.0	28.0	28.0
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	652.0	28.0	28.0
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	652.0	29.5	29.5
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	628.4	20.1	20.1

Statistical Calculations:

Monitoring Wells	
ME=	35.73
MAE=	35.73

Sensitivity of Heads to Kh

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kh: MODEL HEAD	+5% 1.0800 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	728.6	-12.2	12.2
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	726.5	-11.4	11.4
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	725.8	-9.5	9.5
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	723.4	-8.4	8.4
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	725.6	-5.4	5.4
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	724.6	-5.2	5.2
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	722.3	-5.8	5.8
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	658.4	-28.4	28.4
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	655.1	-23.2	23.2
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	653.1	-20.4	20.4
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	652.9	-10.5	10.5
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	645.2	-11.9	11.9
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	644.6	-12.4	12.4
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	645.5	-10.2	10.2
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	643.7	-10.9	10.9
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	643.6	-10.2	10.2
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	644.4	-9.4	9.4
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	643.2	-8.5	8.5
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	641.2	-8.7	8.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	640.8	-7.8	7.8
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	637.6	-9.3	9.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	637.2	-8.4	8.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	637.2	-8.3	8.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	640.9	-4.4	4.4
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	637.9	-7.0	7.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	637.2	-7.5	7.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	635.0	-8.8	8.8
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	635.3	-5.7	5.7
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	635.3	-5.6	5.6
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	636.3	-3.9	3.9
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	634.9	-5.1	5.1
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	632.2	-2.9	2.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	630.4	-4.7	4.7
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	630.7	-3.5	3.5
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	628.2	-5.8	5.8
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	629.7	-3.8	3.8
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	628.2	-5.2	5.2
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	631.4	-2.0	2.0
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	630.3	-2.8	2.8
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	633.6	1.8	1.8
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	629.6	-2.1	2.1
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	629.5	-2.1	2.1
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	629.6	-2.0	2.0
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	628.9	-2.7	2.7
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	629.6	-1.6	1.6
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	627.3	-3.7	3.7
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	629.1	-1.5	1.5
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	631.0	0.7	0.7
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	628.0	-2.2	2.2
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	624.9	-4.2	4.2
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	625.2	-3.9	3.9
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	625.2	-3.8	3.8
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	630.5	2.1	2.1
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	623.3	-4.0	4.0
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	623.3	-3.6	3.6
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	623.3	-3.6	3.6
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	619.8	-4.2	4.2
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	619.8	-4.2	4.2
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	619.8	-2.7	2.7
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	600.1	-8.2	8.2

Statistical Calculations:

Monitoring Wells	
ME=	-7.66
MAE=	7.84

Sensitivity of Heads to Kh

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kh: MODEL HEAD	+15% 1.1845 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	714.2	-26.6	26.6
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	712.3	-25.6	25.6
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	711.6	-23.7	23.7
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	709.3	-22.5	22.5
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	711.3	-19.7	19.7
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	710.4	-19.4	19.4
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	708.2	-19.9	19.9
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	647.7	-39.1	39.1
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	644.6	-33.7	33.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	642.6	-30.9	30.9
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	642.6	-20.8	20.8
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	635.2	-21.9	21.9
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	634.7	-22.3	22.3
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	635.5	-20.2	20.2
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	633.7	-20.9	20.9
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	633.7	-20.1	20.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	634.4	-19.4	19.4
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	633.3	-18.4	18.4
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	631.4	-18.5	18.5
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	631.1	-17.5	17.5
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	628.0	-18.9	18.9
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	627.6	-18.0	18.0
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	627.6	-17.9	17.9
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	631.1	-14.2	14.2
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	628.3	-16.6	16.6
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	627.6	-17.1	17.1
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	625.5	-18.3	18.3
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	625.8	-15.2	15.2
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	625.8	-15.1	15.1
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	626.8	-13.4	13.4
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	625.4	-14.6	14.6
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	622.9	-12.2	12.2
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	621.2	-13.9	13.9
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	621.5	-12.7	12.7
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	619.1	-14.9	14.9
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	620.5	-13.0	13.0
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	619.1	-14.3	14.3
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	622.1	-11.3	11.3
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	621.1	-12.0	12.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	624.2	-7.6	7.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	620.4	-11.3	11.3
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	620.3	-11.3	11.3
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	620.4	-11.2	11.2
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	619.7	-11.9	11.9
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	620.4	-10.8	10.8
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	618.2	-12.8	12.8
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	619.9	-10.7	10.7
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	621.7	-8.6	8.6
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	618.9	-11.3	11.3
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	616.0	-13.1	13.1
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	616.3	-12.8	12.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	616.3	-12.7	12.7
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	621.3	-7.1	7.1
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	614.5	-12.8	12.8
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	614.5	-12.4	12.4
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	614.5	-12.4	12.4
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	611.2	-12.8	12.8
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	611.2	-12.8	12.8
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	611.2	-11.3	11.3
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	592.4	-15.9	15.9

Statistical Calculations:

Monitoring Wells	
ME=	-19.38
MAE=	19.38

Sensitivity of Heads to Kh

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kh: MODEL HEAD	+25% 1.2875 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	701.4	-39.4	39.4
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	699.6	-38.3	38.3
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	698.9	-36.4	36.4
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	696.8	-35.0	35.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	698.7	-32.3	32.3
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	697.8	-32.0	32.0
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	695.7	-32.4	32.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	638.2	-48.6	48.6
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	635.2	-43.1	43.1
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	633.4	-40.1	40.1
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	633.2	-30.2	30.2
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	626.3	-30.8	30.8
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	625.8	-31.2	31.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	626.6	-29.1	29.1
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	624.9	-29.7	29.7
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	624.8	-29.0	29.0
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	625.6	-28.2	28.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	624.5	-27.2	27.2
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	622.7	-27.2	27.2
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	622.4	-26.2	26.2
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	619.5	-27.4	27.4
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	619.1	-26.5	26.5
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	619.1	-26.4	26.4
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	622.4	-22.9	22.9
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	619.7	-25.2	25.2
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	619.1	-25.6	25.6
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	617.1	-26.7	26.7
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	617.4	-23.6	23.6
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	617.4	-23.5	23.5
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	618.3	-21.9	21.9
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	617.0	-23.0	23.0
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	614.6	-20.5	20.5
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	613.0	-22.1	22.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	613.3	-20.9	20.9
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	611.0	-23.0	23.0
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	612.3	-21.2	21.2
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	611.0	-22.4	22.4
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	613.9	-19.5	19.5
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	612.9	-20.2	20.2
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	615.8	-16.0	16.0
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	612.2	-19.5	19.5
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	612.2	-19.4	19.4
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	612.2	-19.4	19.4
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	611.6	-20.0	20.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	612.2	-19.0	19.0
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	610.2	-20.8	20.8
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	611.8	-18.8	18.8
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	613.5	-16.8	16.8
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	610.9	-19.3	19.3
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	608.1	-21.0	21.0
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	608.3	-20.8	20.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	608.3	-20.7	20.7
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	613.1	-15.3	15.3
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	606.6	-20.7	20.7
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	606.6	-20.3	20.3
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	606.6	-20.3	20.3
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	603.5	-20.5	20.5
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	603.5	-20.5	20.5
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	603.5	-19.0	19.0
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	585.6	-22.7	22.7

Statistical Calculations:

Monitoring Wells	
ME=	-29.80
MAE=	29.80

Sensitivity of Heads to Kv

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kv: MODEL HEAD	0% 0.0018 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	646.0	0.7	0.7
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	642.9	-2.0	2.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0.8	0.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	635.5	1.3	1.3
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624.3	0.3	0.3
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	604.0	-4.3	4.3

Statistical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03

Sensitivity of Heads to Kv

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kv: MODEL HEAD	-5% 0.0017 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	646.0	0.7	0.7
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	642.9	-2.0	2.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0.8	0.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	635.5	1.3	1.3
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624.3	0.3	0.3
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	604.0	-4.3	4.3

Statistical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03

Sensitivity of Heads to Kv

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kv: MODEL HEAD	-15% 0.0015 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	646.0	0.7	0.7
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	642.9	-2.0	2.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0.8	0.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	635.5	1.3	1.3
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624.3	0.3	0.3
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	604.0	-4.3	4.3

Statistical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03

Sensitivity of Heads to Kv

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kv: MODEL HEAD	-25% 0.0014 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	646.0	0.7	0.7
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	642.9	-2.0	2.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0.8	0.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	635.5	1.3	1.3
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624.3	0.3	0.3
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	604.0	-4.3	4.3

Statistical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03

Sensitivity of Heads to Kv

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kv: MODEL HEAD	+5% 0.0019 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	646.0	0.7	0.7
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	642.9	-2.0	2.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0.8	0.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	635.5	1.3	1.3
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624.3	0.3	0.3
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	604.0	-4.3	4.3

Statistical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03

Sensitivity of Heads to Kv

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kv: MODEL HEAD	+15% 0.0021 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	646.0	0.7	0.7
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	642.9	-2.0	2.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0.8	0.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	635.5	1.3	1.3
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624.3	0.3	0.3
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	604.0	-4.3	4.3

Statistical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03

Sensitivity of Heads to Kv

WELL	MODEL COLUMN	MODEL ROW	MODEL LAYER	MEAS. HIGH	MEAS. LOW	TARGET MEAN	TARGET HIGH	TARGET LOW	Kv: MODEL HEAD	+25% 0.0023 Difference (feet)	(ft/day) Absolute Difference
MW25-3	4	9	1	742.41	742.41	740.75	743.75	737.75	736.1	-4.7	4.7
MW64A-1	82	11	1	736.63	736.63	737.87	740.87	734.87	734.0	-3.9	3.9
MW64A-3	82	12	1	734.08	734.08	735.32	738.32	732.32	733.2	-2.1	2.1
MW17-1	4	15	1	733.47	733.47	731.81	734.81	728.81	730.8	-1.0	1.0
MW16-1	2	13	1	732.14	732.14	730.97	733.97	727.97	732.9	1.9	1.9
MW16-2	2	14	1	731.01	731.01	729.84	732.84	726.84	731.9	2.1	2.1
MW17-3	4	16	1	729.77	729.77	728.11	731.11	725.11	729.5	1.4	1.4
MW-41D	11	42	2	687.96	685.74	686.82	687.32	686.32	663.9	-22.9	22.9
MW-42D	70	43	2	680.66	674.94	678.34	678.84	677.84	660.6	-17.7	17.7
PT-10	47	44	2	677.79	670.57	673.51	674.01	673.01	658.5	-15.0	15.0
MW64D-1	77	44	1	665.03	664.36	663.37	663.87	662.87	658.3	-5.1	5.1
MW-39	17	61	1	657.99	656.37	657.12	657.62	656.62	650.4	-6.7	6.7
MW-60	72	62	1	658.13	654.83	656.99	657.49	656.49	649.8	-7.2	7.2
MW64D-4	79	59	1	657.39	655.10	655.73	656.23	655.23	650.7	-5.0	5.0
MW-40	46	65	1	656.40	652.18	654.55	655.05	654.05	648.8	-5.8	5.8
MW-59	71	65	1	654.95	651.61	653.78	654.28	653.28	648.7	-5.1	5.1
MW-43	35	63	1	655.42	652.46	653.76	654.26	653.26	649.6	-4.2	4.2
PT-11	66	66	1	654.02	648.49	651.68	652.18	651.18	648.4	-3.3	3.3
PT-18	46	72	1	651.78	646.72	649.85	650.35	649.35	646.2	-3.7	3.7
MW-44	34	73	1	648.63	646.98	648.59	649.09	648.09	645.9	-2.7	2.7
MW-45	24	82	1	648.47	644.75	646.88	647.38	646.38	642.6	-4.3	4.3
MW-46	34	83	1	647.28	642.61	645.62	646.12	645.12	642.2	-3.4	3.4
MW-49D	34	83	2	647.11	642.74	645.45	645.95	644.95	642.2	-3.3	3.3
MW64D-3	77	72	1	646.91	645.89	645.25	645.75	644.75	646.0	0.7	0.7
PT-12	44	81	1	647.25	641.73	644.90	645.40	644.40	642.9	-2.0	2.0
MW-50D	34	83	3	646.39	642.90	644.73	645.23	644.23	642.2	-2.5	2.5
MW-48	26	89	1	645.47	641.57	643.75	644.25	643.25	639.9	-3.9	3.9
PT-21	43	88	2	647.51	635.37	641.03	641.53	640.53	640.2	-0.8	0.8
PT-22	43	88	1	645.45	637.85	640.95	641.45	640.45	640.2	-0.7	0.7
PT-19	58	85	1	642.35	637.81	640.17	640.67	639.67	641.3	1.1	1.1
PT-20	51	89	1	644.21	636.11	640.02	640.52	639.52	639.8	-0.2	0.2
MW-32	58	96	1	637.84	632.40	635.11	635.61	634.61	637.0	1.9	1.9
PT-23	30	101	1	638.71	632.56	635.05	635.55	634.55	635.2	0.1	0.1
PT-17	53	100	1	636.85	630.12	634.21	634.71	633.71	635.5	1.3	1.3
MW-38D	18	107	2	634.67	632.76	633.97	634.47	633.47	632.9	-1.1	1.1
MW-27	33	103	1	635.62	630.37	633.45	633.95	632.95	634.4	0.9	0.9
PT-16	18	107	1	635.06	630.17	633.43	633.93	632.93	632.9	-0.5	0.5
MW-33	63	98	1	635.95	630.02	633.41	633.91	632.91	636.2	2.8	2.8
MW-30	56	101	1	636.37	629.73	633.13	633.63	632.63	635.1	2.0	2.0
MW64D-2	75	92	1	633.49	630.75	631.83	632.33	631.33	638.4	6.6	6.6
MW-55D	47	103	3	633.37	630.23	631.71	632.21	631.21	634.3	2.6	2.6
MW-31	61	103	1	634.60	627.21	631.64	632.14	631.14	634.3	2.7	2.7
MW-54D	47	103	2	633.29	629.88	631.63	632.13	631.13	634.3	2.7	2.7
MW-28	36	105	1	633.28	628.26	631.58	632.08	631.08	633.6	2.0	2.0
MW-53	47	103	1	632.83	630.13	631.17	631.67	630.67	634.4	3.2	3.2
PT-24	40	109	1	633.19	627.85	631.02	631.52	630.52	632.0	1.0	1.0
PT-25	64	104	1	633.66	625.45	630.56	631.06	630.06	633.9	3.3	3.3
PT-15	71	99	1	634.09	627.40	630.35	630.85	629.85	635.8	5.5	5.5
MW-29	46	107	1	631.82	626.83	630.19	630.69	629.69	632.8	2.6	2.6
MW-37	7	116	1	630.91	626.65	629.14	629.64	628.64	629.6	0.5	0.5
MW-35D	61	114	2	629.66	628.01	629.08	629.58	628.58	629.9	0.8	0.8
MW-36	61	114	1	629.94	626.43	629.02	629.52	628.52	629.9	0.9	0.9
MW-34	75	100	1	630.28	626.39	628.38	628.88	627.88	635.3	6.9	6.9
MW-56	48	119	1	627.78	626.67	627.27	627.77	626.77	627.9	0.6	0.6
MW-57D	48	119	2	628.60	627.11	626.94	627.44	626.44	627.9	1.0	1.0
MW-58D	48	119	3	628.53	625.66	626.87	627.37	626.37	627.9	1.0	1.0
MW-51D	35	128	2	625.68	621.56	624.02	624.52	623.52	624.3	0.3	0.3
MW-47	35	128	1	625.69	621.47	623.96	624.46	623.46	624.3	0.3	0.3
MW-52D	35	128	3	624.20	620.04	622.54	623.04	622.04	624.3	1.8	1.8
PT-26	73	174	1	611.82	603.10	608.28	608.78	607.78	604.0	-4.3	4.3

Statistical Calculations:

Monitoring Wells	
ME=	-1.58
MAE=	4.03

APPENDIX E

MODPATH Output File

```
MODPATH Version 3.00 (V3, Release 1, 9-94)

 FILE UNIT NUMBER  70 HAS BEEN CONNECTED TO <ASHGW2.MP>
 FILE UNIT NUMBER  36 HAS BEEN CONNECTED TO <DELROW.DAT>
 FILE UNIT NUMBER  37 HAS BEEN CONNECTED TO <DELCOL.DAT>
 SKIPPING UNRECOGNIZED FILE TYPE: GUA
 FILE UNIT NUMBER  18 HAS BEEN CONNECTED TO <ASHGW2.RCH>
 FILE UNIT NUMBER   1 HAS BEEN CONNECTED TO <ASHGW2.HED>
 FILE UNIT NUMBER   2 HAS BEEN CONNECTED TO <ASHGW2.BUD>

 MAXIMUM NUMBER OF PARTICLES IS    10000
  849220 ELEMENTS OUT OF 14000000 USED IN THE "A" ARRAY

   82 COLUMNS  220 ROWS    3 LAYERS    0 CONFINING LAYERS
 IGRID (GRID TYPE CODE) IS 0

LAYCON (LAYER TYPE CODES):
  0  0  0

NO CONFINING LAYERS.  NCON = 0 FOR ALL LAYERS.



           DELR
 READING ON UNIT  36 WITH FORMAT: (82F9.2)
   284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      189.84      126.56
   84.370      56.250      37.500      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      37.500
   56.250      84.370      126.56      189.84      284.76      284.76      284.76      284.76      284.76      284.76
   284.76      284.76



           DELC
 READING ON UNIT  37 WITH FORMAT: (F9.2)
   284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76
   284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76
   284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76
   284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76
   284.76      284.76      189.84      126.56      84.370      56.250      37.500      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000
   25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      25.000      37.500
   56.250      84.370      126.56      189.84      284.76      284.76      284.76      284.76      284.76      284.76
   284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76
   284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76      284.76

 OPENING FILE ON UNIT  99:
 TOPL1.DAT



           ZTOP (TOP ELEVATION)     FOR LAYER   1
 READING ON UNIT  99 WITH FORMAT: (82F9.0)

            1          2          3          4          5          6          7          8          9         10
           11         12         13         14         15         16         17         18         19         20
           21         22         23         24         25         26         27         28         29         30
           31         32         33         34         35         36         37         38         39         40
           41         42         43         44         45         46         47         48         49         50
           51         52         53         54         55         56         57         58         59         60
           61         62         63         64         65         66         67         68         69         70
           71         72         73         74         75         76         77         78         79         80
           81         82
 ...............................................................................................................
0  1     760.0      760.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0
         755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0
         755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0
         755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0
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         755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0
         755.0      755.0
0  2     760.0      758.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0
         755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0      755.0
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	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0								
0 3	756.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0								
0 4	754.0	753.0	753.0	753.0	753.0	754.0	755.0	755.0	755.0	755.0
	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
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	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0								
0 5	751.0	751.0	751.0	751.0	751.0	751.0	752.0	752.0	752.0	752.0
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	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0
	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0
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	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0
	753.0	753.0	753.0	753.0	754.0	755.0	755.0	755.0	755.0	755.0
	755.0	755.0								
0 6	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
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	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0
	751.0	751.0	751.0	751.0	752.0	752.0	753.0	753.0	753.0	753.0
	753.0	753.0								
0 7	747.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
	747.0	747.0	747.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
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	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
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	751.0	751.0								
0 8	744.0	744.0	744.0	744.0	744.0	743.0	743.0	743.0	743.0	743.0
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	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
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	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	747.0	747.0
	747.0	747.0	747.0	747.0	747.0	748.0	748.0	748.0	748.0	748.0
	748.0	748.0								
0 9	742.0	742.0	742.0	742.0	741.0	740.0	740.0	740.0	740.0	740.0
	742.0	742.0	742.0	743.0	743.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
	744.0	745.0	745.0	745.0	745.0	745.0	746.0	746.0	746.0	746.0
	746.0	746.0								
0 10	740.0	740.0	740.0	740.0	740.0	739.0	738.0	738.0	738.0	739.0
	740.0	740.0	740.0	740.0	741.0	742.0	743.0	741.0	741.0	741.0
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	744.0	744.0								
0 11	738.0	738.0	737.0	737.0	737.0	737.0	736.0	736.0	736.0	736.0
	737.0	737.0	737.0	738.0	738.0	738.0	738.0	737.0	738.0	739.0
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	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
	740.0	740.0	740.0	740.0	740.0	741.0	742.0	742.0	742.0	742.0
	742.0	742.0								
0 12	735.0	735.0	735.0	735.0	734.0	734.0	734.0	734.0	734.0	734.0
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	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
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	737.0	737.0	737.0	737.0	737.0	737.0	737.0	738.0	738.0	738.0
	738.0	738.0	738.0	738.0	738.0	740.0	740.0	740.0	740.0	740.0
	740.0	740.0								
0 13	733.0	733.0	733.0	732.0	732.0	732.0	731.0	731.0	731.0	731.0
	731.0	732.0	732.0	732.0	732.0	733.0	733.0	733.0	733.0	733.0
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	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
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	735.0	735.0	735.0	735.0	736.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0								
0 14	730.0	730.0	730.0	730.0	730.0	729.0	729.0	729.0	729.0	729.0
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	731.0	731.0								
0 15	728.0	728.0	728.0	728.0	727.0	727.0	726.0	726.0	726.0	726.0
	726.0	726.0	726.0	727.0	727.0	727.0	727.0	727.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	729.0	729.0	729.0	729.0	729.0
	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
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	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	729.0	728.0	727.0
	726.0	726.0								
0 16	726.0	726.0	726.0	725.0	725.0	724.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	724.0	724.0	725.0	725.0	725.0	725.0	725.0
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	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0
	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0
	726.0	726.0	726.0	726.0	726.0	726.0	726.0	726.0	727.0	727.0
	727.0	727.0	727.0	727.0	727.0	727.0	727.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	727.0	727.0	725.0	724.0	723.0
	720.0	722.0								
0 17	724.0	724.0	724.0	723.0	722.0	722.0	720.0	720.0	720.0	720.0
	720.0	720.0	720.0	721.0	722.0	723.0	722.0	721.0	722.0	722.0
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	723.0	723.0	723.0	723.0	723.0	723.0	723.0	724.0	724.0	725.0
	724.0	724.0	724.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	726.0	726.0	726.0	725.0	725.0	724.0	722.0	720.0	720.0
	720.0	720.0								
0 18	723.0	722.0	722.0	721.0	720.0	720.0	719.0	719.0	718.0	718.0
	718.0	718.0	718.0	719.0	719.0	719.0	717.0	718.0	719.0	720.0
	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
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	720.0	720.0	720.0	720.0	720.0	720.0	720.0	721.0	722.0	723.0
	721.0	721.0	722.0	722.0	722.0	722.0	722.0	723.0	723.0	723.0
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	719.0	719.0								
0 19	721.0	721.0	720.0	720.0	719.0	718.0	717.0	717.0	717.0	717.0
	716.0	716.0	717.0	717.0	717.0	717.0	716.0	716.0	717.0	717.0
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	717.0	718.0	719.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
	720.0	721.0	722.0	722.0	721.0	721.0	720.0	719.0	718.0	718.0
	717.0	717.0								
0 20	720.0	720.0	718.0	718.0	717.0	716.0	716.0	715.0	715.0	715.0
	715.0	715.0	715.0	715.0	715.0	715.0	714.0	715.0	715.0	715.0
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	719.0	720.0	720.0	720.0	720.0	720.0	718.0	717.0	716.0	716.0
	716.0	716.0								
0 21	717.0	717.0	716.0	716.0	715.0	714.0	714.0	713.0	713.0	713.0
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	714.0	714.0	714.0	715.0	715.0	715.0	715.0	716.0	716.0	716.0
	716.0	717.0	717.0	717.0	717.0	717.0	716.0	715.0	715.0	714.0
	714.0	714.0								
0 22	715.0	714.0	714.0	713.0	713.0	712.0	712.0	711.0	711.0	711.0
	711.0	711.0	711.0	710.0	710.0	710.0	710.0	711.0	711.0	711.0

	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
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	714.0	714.0	714.0	714.0	714.0	714.0	714.0	713.0	713.0	712.0
	712.0	712.0								
0 23	712.0	712.0	712.0	711.0	711.0	710.0	710.0	709.0	709.0	709.0
	709.0	709.0	708.0	708.0	708.0	708.0	708.0	708.0	709.0	709.0
	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
	709.0	710.0	710.0	710.0	710.0	710.0	711.0	711.0	711.0	711.0
	712.0	712.0	712.0	712.0	712.0	712.0	711.0	711.0	711.0	710.0
	710.0	710.0								
0 24	710.0	710.0	710.0	709.0	709.0	708.0	708.0	707.0	707.0	707.0
	707.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
	706.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0
	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0
	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0
	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0
	707.0	707.0	707.0	708.0	708.0	708.0	708.0	709.0	709.0	709.0
	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	708.0
	708.0	708.0								
0 25	708.0	708.0	708.0	707.0	706.0	706.0	705.0	705.0	705.0	705.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
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	705.0	705.0	705.0	705.0	705.0	706.0	706.0	706.0	707.0	707.0
	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	706.0	706.0
	706.0	706.0								
0 26	706.0	706.0	706.0	705.0	704.0	704.0	703.0	703.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
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	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
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	702.0	702.0	703.0	703.0	703.0	703.0	704.0	704.0	704.0	704.0
	704.0	705.0	705.0	705.0	705.0	705.0	704.0	704.0	704.0	704.0
	704.0	704.0								
0 27	705.0	704.0	704.0	703.0	702.0	701.0	700.0	700.0	700.0	700.0
	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
	700.0	700.0	700.0	700.0	700.0	701.0	702.0	703.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0								
0 28	703.0	703.0	703.0	702.0	700.0	700.0	700.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
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	699.0	699.0	699.0	699.0	699.0	699.0	700.0	700.0	698.0	699.0
	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
	700.0	700.0								
0 29	702.0	702.0	701.0	701.0	700.0	699.0	699.0	698.0	698.0	698.0
	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0
	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0
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	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0
	698.0	698.0								
0 30	701.0	701.0	701.0	700.0	699.0	698.0	698.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	696.0
	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0
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	697.0	697.0	697.0	696.0	696.0	696.0	696.0	696.0	696.0	695.0
	695.0	695.0								
0 31	701.0	700.0	700.0	699.0	698.0	697.0	697.0	696.0	696.0	696.0
	696.0	696.0	696.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
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	695.0	695.0	695.0	695.0	695.0	694.0	694.0	694.0	693.0	693.0
	693.0	693.0								
0 32	700.0	700.0	700.0	698.0	697.0	696.0	696.0	695.0	695.0	695.0
	695.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0

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	694.0	693.0	693.0	693.0	693.0	693.0	692.0	692.0	691.0	691.0
	690.0	690.0								
0 33	700.0	700.0	698.0	697.0	696.0	695.0	694.0	694.0	694.0	693.0
	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
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	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	692.0	692.0
	692.0	692.0	692.0	691.0	691.0	691.0	690.0	690.0	689.0	688.0
	688.0	687.0								
0 34	700.0	700.0	697.0	695.0	694.0	693.0	693.0	693.0	692.0	692.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
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	691.0	691.0	690.0	690.0	689.0	689.0	688.0	688.0	687.0	686.0
	685.0	684.0								
0 35	700.0	696.0	694.0	693.0	692.0	692.0	691.0	691.0	691.0	691.0
	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0
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	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	689.0	689.0	689.0	688.0	688.0	687.0	687.0	686.0	685.0	684.0
	682.0	680.0								
0 36	693.0	691.0	691.0	690.0	690.0	690.0	690.0	690.0	690.0	689.0
	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
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	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	688.0
	688.0	688.0	687.0	687.0	686.0	686.0	685.0	684.0	683.0	682.0
	680.0	680.0								
0 37	686.0	686.0	687.0	687.0	687.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
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	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	687.0	687.0
	687.0	687.0	686.0	686.0	685.0	684.0	684.0	683.0	681.0	680.0
	680.0	680.0								
0 38	680.0	680.0	683.0	684.0	685.0	686.0	686.0	686.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
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	687.0	687.0	687.0	687.0	687.0	687.0	687.0	686.0	686.0	686.0
	686.0	685.0	685.0	684.0	684.0	683.0	682.0	681.0	680.0	680.0
	680.0	680.0								
0 39	677.0	677.0	680.0	682.0	683.0	684.0	684.0	685.0	685.0	685.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
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	686.0	686.0	686.0	686.0	686.0	685.0	685.0	685.0	685.0	685.0
	685.0	684.0	684.0	683.0	683.0	682.0	681.0	680.0	680.0	679.0
	679.0	679.0								
0 40	672.0	673.0	676.0	680.0	681.0	682.0	683.0	684.0	684.0	684.0
	684.0	684.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
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	685.0	685.0	685.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	683.0	683.0	682.0	682.0	681.0	680.0	680.0	679.0	679.0
	679.0	679.0								
0 41	667.0	668.0	671.0	675.0	680.0	681.0	682.0	682.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	684.0	684.0	684.0	684.0
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	683.0	682.0	682.0	682.0	681.0	680.0	680.0	679.0	679.0	679.0
	678.0	678.0								
0 42	660.0	660.0	665.0	670.0	675.0	680.0	681.0	681.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0

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	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	681.0	681.0	681.0	680.0	680.0	679.0	679.0	678.0	678.0
	678.0	678.0								
0 43	658.0	659.0	660.0	665.0	670.0	675.0	680.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
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	681.0	681.0	680.0	680.0	680.0	679.0	678.0	678.0	677.0	677.0
	677.0	677.0								
0 44	655.0	656.0	659.0	660.0	665.0	671.0	675.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
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	680.0	680.0	679.0	679.0	678.0	678.0	677.0	677.0	677.0	676.0
	676.0	676.0								
0 45	650.0	654.0	658.0	659.0	660.0	667.0	671.0	675.0	676.0	677.0
	677.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
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	675.0	675.0								
0 46	649.0	653.0	657.0	658.0	659.0	665.0	668.0	671.0	673.0	674.0
	675.0	676.0	676.0	676.0	676.0	677.0	677.0	677.0	677.0	677.0
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	677.0	677.0	677.0	676.0	676.0	676.0	675.0	675.0	675.0	675.0
	674.0	674.0								
0 47	649.0	650.0	656.0	657.0	659.0	664.0	666.0	669.0	671.0	672.0
	673.0	673.0	674.0	674.0	675.0	675.0	675.0	675.0	675.0	675.0
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	676.0	675.0	675.0	675.0	675.0	674.0	674.0	674.0	674.0	674.0
	674.0	673.0								
0 48	648.0	649.0	655.0	656.0	659.0	662.0	665.0	668.0	668.0	670.0
	671.0	672.0	672.0	673.0	673.0	673.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	675.0	675.0
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	674.0	674.0	674.0	674.0	673.0	673.0	673.0	673.0	673.0	673.0
	672.0	672.0								
0 49	648.0	649.0	654.0	655.0	658.0	661.0	663.0	667.0	667.0	668.0
	669.0	670.0	671.0	671.0	672.0	672.0	672.0	672.0	672.0	673.0
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	673.0	673.0	673.0	672.0	672.0	672.0	672.0	672.0	672.0	671.0
	671.0	671.0								
0 50	648.0	648.0	653.0	654.0	658.0	661.0	662.0	666.0	665.0	667.0
	668.0	668.0	669.0	670.0	670.0	670.0	671.0	671.0	671.0	671.0
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	672.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	670.0	670.0
	670.0	670.0								
0 51	647.0	648.0	652.0	653.0	657.0	660.0	662.0	665.0	664.0	665.0
	666.0	667.0	668.0	668.0	669.0	669.0	669.0	669.0	670.0	670.0
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	670.0	670.0	670.0	670.0	670.0	670.0	669.0	669.0	669.0	669.0
	669.0	669.0								
0 52	647.0	647.0	650.0	653.0	657.0	660.0	661.0	665.0	663.0	664.0
	665.0	666.0	666.0	667.0	667.0	668.0	668.0	668.0	668.0	668.0

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	668.0	668.0								
0 53	646.0	647.0	649.0	652.0	656.0	659.0	660.0	664.0	662.0	663.0
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	668.0	668.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0								
0 54	646.0	646.0	649.0	652.0	656.0	659.0	659.0	663.0	662.0	662.0
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	666.0	666.0								
0 55	645.0	646.0	648.0	651.0	655.0	658.0	659.0	662.0	661.0	662.0
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	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	664.0
	664.0	664.0								
0 56	645.0	645.0	648.0	651.0	655.0	658.0	659.0	662.0	661.0	661.0
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	663.0	663.0								
0 57	644.0	645.0	647.0	650.0	654.0	657.0	660.0	661.0	660.0	661.0
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	662.0	662.0								
0 58	643.0	644.0	647.0	650.0	654.0	657.0	659.0	661.0	660.0	660.0
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	661.0	660.0								
0 59	643.0	644.0	646.0	649.0	653.0	656.0	659.0	660.0	660.0	660.0
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	660.0	660.0								
0 60	642.0	643.0	646.0	649.0	653.0	656.0	658.0	660.0	660.0	660.0
	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
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	659.0	659.0								
0 61	642.0	643.0	645.0	649.0	652.0	655.0	658.0	659.0	659.0	659.0
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	658.0	658.0								
0 62	641.0	642.0	645.0	648.0	652.0	655.0	657.0	659.0	659.0	658.0
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	657.0	657.0								
0 63	641.0	642.0	644.0	648.0	651.0	654.0	657.0	659.0	659.0	657.0
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	656.0	656.0								
0 64	640.0	642.0	644.0	648.0	651.0	654.0	656.0	658.0	658.0	656.0
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	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0								
0 65	640.0	641.0	644.0	647.0	650.0	653.0	656.0	658.0	658.0	655.0
	654.0	655.0	655.0	655.0	655.0	656.0	656.0	656.0	656.0	656.0
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	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0								
0 66	639.0	641.0	643.0	647.0	650.0	653.0	655.0	657.0	657.0	655.0
	654.0	654.0	654.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
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	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
	653.0	654.0								
0 67	639.0	641.0	643.0	647.0	649.0	652.0	655.0	657.0	657.0	654.0
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	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	653.0
	653.0	653.0								
0 68	638.0	640.0	643.0	646.0	648.0	652.0	654.0	656.0	656.0	654.0
	653.0	653.0	653.0	653.0	654.0	654.0	654.0	654.0	654.0	654.0
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	652.0	652.0								
0 69	638.0	640.0	642.0	646.0	648.0	651.0	654.0	656.0	656.0	653.0
	652.0	652.0	653.0	653.0	653.0	653.0	653.0	654.0	654.0	654.0
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	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	651.0	651.0
	651.0	651.0								
0 70	637.0	639.0	642.0	646.0	648.0	651.0	653.0	655.0	655.0	653.0
	652.0	652.0	652.0	652.0	653.0	653.0	653.0	653.0	653.0	653.0
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	649.0	649.0	649.0	649.0	649.0	650.0	650.0	650.0	650.0	650.0
	650.0	651.0								
0 71	637.0	639.0	642.0	645.0	648.0	650.0	653.0	655.0	655.0	652.0
	652.0	651.0	652.0	652.0	652.0	652.0	652.0	653.0	653.0	653.0
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	650.0	650.0								
0 72	636.0	638.0	641.0	645.0	648.0	650.0	652.0	654.0	654.0	652.0
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	650.0	650.0								
0 73	636.0	638.0	641.0	644.0	647.0	649.0	652.0	654.0	654.0	652.0
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	649.0	650.0								
0 74	636.0	638.0	641.0	644.0	647.0	648.0	651.0	653.0	653.0	651.0
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	647.0	647.0	647.0	647.0	647.0	647.0	647.0	648.0	648.0	649.0
	649.0	650.0								
0 75	635.0	637.0	640.0	643.0	646.0	647.0	651.0	653.0	653.0	651.0
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	650.0	650.0								
0 76	635.0	637.0	640.0	643.0	646.0	647.0	651.0	652.0	652.0	651.0
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	646.0	646.0	645.0	645.0	645.0	646.0	646.0	646.0	646.0	647.0
	648.0	648.0								
0 77	635.0	637.0	640.0	642.0	645.0	647.0	650.0	652.0	652.0	651.0
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	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	646.0
	646.0	646.0								
0 78	634.0	636.0	639.0	642.0	646.0	647.0	650.0	651.0	651.0	650.0
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	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	645.0	645.0								
0 79	634.0	636.0	639.0	642.0	646.0	648.0	650.0	651.0	651.0	650.0
	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	649.0	649.0
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	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
	643.0	643.0								
0 80	634.0	636.0	638.0	642.0	646.0	647.0	649.0	651.0	651.0	650.0
	650.0	650.0	650.0	650.0	650.0	649.0	649.0	649.0	649.0	649.0
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	643.0	643.0	642.0	642.0	641.0	641.0	641.0	641.0	641.0	642.0
	642.0	642.0								
0 81	634.0	636.0	638.0	641.0	646.0	647.0	648.0	650.0	650.0	650.0
	650.0	650.0	650.0	649.0	649.0	649.0	649.0	649.0	648.0	648.0
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	642.0	642.0	641.0	641.0	640.0	640.0	640.0	640.0	640.0	640.0
	641.0	641.0								
0 82	633.0	635.0	637.0	641.0	645.0	646.0	648.0	650.0	650.0	650.0
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	640.0	641.0								
0 83	633.0	635.0	637.0	641.0	644.0	646.0	647.0	650.0	650.0	649.0
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	640.0	640.0								
0 84	633.0	635.0	637.0	640.0	643.0	645.0	646.0	648.0	649.0	648.0
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	640.0	640.0	640.0	640.0	640.0	639.0	639.0	639.0	639.0	639.0
	640.0	640.0								
0 85	632.0	635.0	636.0	640.0	642.0	644.0	645.0	646.0	648.0	647.0
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	640.0	640.0	640.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0								
0 86	632.0	635.0	636.0	640.0	642.0	643.0	644.0	645.0	647.0	646.0
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	639.0	639.0								
0 87	632.0	634.0	635.0	639.0	641.0	642.0	643.0	644.0	646.0	645.0
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	639.0	639.0	639.0	639.0	639.0	639.0	638.0	638.0	638.0	638.0
	638.0	638.0								
0 88	631.0	634.0	635.0	639.0	640.0	641.0	642.0	643.0	645.0	645.0
	644.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
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	639.0	639.0	639.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0								
0 89	631.0	634.0	635.0	638.0	640.0	641.0	642.0	643.0	644.0	644.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
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	638.0	638.0								
0 90	630.0	634.0	634.0	638.0	639.0	641.0	642.0	642.0	643.0	644.0
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	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0								
0 91	630.0	634.0	634.0	638.0	639.0	641.0	641.0	642.0	642.0	643.0
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	641.0	641.0	641.0	641.0	641.0	640.0	640.0	640.0	640.0	640.0
	639.0	639.0	639.0	639.0	639.0	638.0	638.0	638.0	638.0	638.0
	638.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0								
0 92	629.0	633.0	634.0	637.0	638.0	641.0	641.0	641.0	642.0	643.0
	642.0	642.0	642.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0

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	643.0	643.0	643.0	643.0	642.0	642.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	641.0	641.0	641.0	641.0
	641.0	641.0	640.0	640.0	640.0	640.0	640.0	640.0	639.0	639.0
	639.0	639.0	638.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0
	636.0	636.0								
0 93	629.0	633.0	633.0	637.0	638.0	640.0	641.0	641.0	641.0	642.0
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	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
	642.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	640.0
	640.0	640.0	640.0	640.0	640.0	639.0	639.0	639.0	639.0	639.0
	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0								
0 94	628.0	633.0	633.0	636.0	638.0	640.0	640.0	641.0	641.0	642.0
	641.0	641.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
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	642.0	642.0	642.0	642.0	642.0	642.0	641.0	641.0	641.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	640.0	640.0	640.0
	640.0	640.0	640.0	639.0	639.0	639.0	639.0	638.0	638.0	638.0
	638.0	638.0	637.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0
	635.0	635.0								
0 95	628.0	632.0	633.0	636.0	637.0	640.0	640.0	640.0	641.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
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	641.0	641.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
	639.0	639.0	639.0	639.0	639.0	638.0	638.0	638.0	638.0	638.0
	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0								
0 96	628.0	632.0	632.0	635.0	637.0	640.0	640.0	640.0	640.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
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	641.0	641.0	641.0	641.0	641.0	641.0	641.0	640.0	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	639.0	639.0
	639.0	639.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0
	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0								
0 97	628.0	632.0	632.0	635.0	636.0	639.0	640.0	640.0	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
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	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0	637.0
	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0								
0 98	627.0	631.0	632.0	634.0	636.0	639.0	639.0	640.0	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
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	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0								
0 99	627.0	631.0	631.0	634.0	635.0	638.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	635.0
	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0								
0100	627.0	630.0	631.0	633.0	635.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0	637.0
	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0
	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0								
0101	626.0	630.0	631.0	633.0	634.0	637.0	637.0	637.0	637.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
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	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0
	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0								
0102	626.0	629.0	630.0	632.0	634.0	636.0	636.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0

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	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0
	631.0	631.0								
0103	626.0	628.0	630.0	632.0	633.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0
	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0104	625.0	628.0	630.0	632.0	633.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0
	630.0	630.0								
0105	625.0	627.0	629.0	631.0	632.0	634.0	634.0	634.0	634.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0								
0106	625.0	627.0	628.0	631.0	632.0	633.0	633.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0								
0107	625.0	626.0	628.0	631.0	631.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0
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	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0
	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0								
0108	624.0	626.0	627.0	630.0	631.0	632.0	632.0	632.0	632.0	632.0
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	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0109	624.0	625.0	627.0	630.0	630.0	631.0	631.0	631.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
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	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0
	627.0	627.0								
0110	624.0	625.0	626.0	630.0	630.0	630.0	630.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
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	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0
	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0111	624.0	624.0	626.0	629.0	629.0	630.0	630.0	630.0	630.0	630.0
	630.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
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	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0
	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0112	623.0	624.0	625.0	628.0	629.0	629.0	629.0	629.0	629.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	631.0	631.0	631.0

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	630.0	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0
	627.0	627.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0
	625.0	625.0								
0113	623.0	623.0	625.0	627.0	628.0	628.0	628.0	628.0	629.0	629.0
	629.0	629.0	629.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	626.0
	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0
	624.0	624.0								
0114	623.0	623.0	624.0	627.0	627.0	627.0	628.0	628.0	628.0	628.0
	628.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
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	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0								
0115	623.0	623.0	624.0	626.0	626.0	626.0	627.0	627.0	627.0	628.0
	628.0	628.0	628.0	628.0	628.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	625.0
	625.0	625.0	625.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0116	622.0	623.0	623.0	625.0	625.0	626.0	626.0	626.0	627.0	627.0
	627.0	627.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
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	625.0	624.0	624.0	624.0	623.0	623.0	622.0	622.0	622.0	622.0
	622.0	622.0								
0117	622.0	623.0	623.0	624.0	625.0	625.0	626.0	626.0	626.0	626.0
	627.0	627.0	627.0	627.0	627.0	627.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0
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	624.0	624.0	623.0	623.0	623.0	622.0	622.0	621.0	620.0	621.0
	621.0	621.0								
0118	622.0	622.0	622.0	624.0	624.0	625.0	625.0	625.0	626.0	626.0
	626.0	626.0	626.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
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	621.0	621.0								
0119	622.0	622.0	622.0	623.0	624.0	624.0	624.0	625.0	625.0	625.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0
	623.0	623.0	623.0	622.0	622.0	621.0	621.0	620.0	620.0	620.0
	621.0	621.0								
0120	621.0	622.0	622.0	623.0	623.0	624.0	624.0	624.0	625.0	625.0
	625.0	625.0	625.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0
	623.0	622.0	622.0	622.0	621.0	621.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0121	621.0	621.0	622.0	622.0	623.0	623.0	624.0	624.0	624.0	624.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	626.0	626.0	626.0
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	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
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	622.0	622.0	622.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0122	621.0	621.0	621.0	622.0	622.0	623.0	623.0	623.0	624.0	624.0
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	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
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	622.0	622.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0123	621.0	621.0	621.0	622.0	622.0	622.0	623.0	623.0	623.0	624.0
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	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
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	622.0	622.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0124	620.0	620.0	621.0	621.0	622.0	622.0	622.0	623.0	623.0	623.0
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	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
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	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0
	622.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0125	620.0	620.0	621.0	621.0	621.0	622.0	622.0	622.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	624.0	624.0	624.0	624.0	624.0
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	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0
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	620.0	620.0								
0126	620.0	620.0	620.0	621.0	621.0	621.0	622.0	622.0	622.0	622.0
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	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
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	620.0	620.0								
0127	620.0	620.0	620.0	621.0	621.0	621.0	621.0	622.0	622.0	622.0
	622.0	622.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0
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	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
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	620.0	620.0								
0128	620.0	620.0	620.0	620.0	621.0	621.0	621.0	621.0	622.0	622.0
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	620.0	620.0								
0129	620.0	620.0	620.0	620.0	621.0	621.0	621.0	621.0	621.0	622.0
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	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0130	620.0	620.0	620.0	620.0	620.0	621.0	621.0	621.0	621.0	621.0
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	620.0	620.0								
0131	620.0	620.0	620.0	620.0	620.0	620.0	621.0	621.0	621.0	621.0
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	620.0	620.0								
0132	620.0	620.0	620.0	620.0	620.0	620.0	620.0	621.0	621.0	621.0
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	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0133	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
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	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0
	619.0	619.0								
0134	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0
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	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
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	619.0	619.0								
0135	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
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0136	619.0	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
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0137	619.0	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
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0138	619.0	619.0	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
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0146	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
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	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
	604.0	604.0								
0183	600.0	600.0	600.0	600.0	600.0	600.0	601.0	601.0	601.0	602.0
	602.0	602.0	602.0	602.0	602.0	602.0	603.0	603.0	603.0	603.0
	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
	603.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
	604.0	604.0								
0184	600.0	600.0	600.0	600.0	600.0	600.0	601.0	601.0	601.0	601.0
	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	603.0
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	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
	603.0	603.0								
0185	600.0	600.0	600.0	600.0	600.0	600.0	600.0	601.0	601.0	601.0
	601.0	601.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
	602.0	602.0	602.0	602.0	603.0	603.0	603.0	603.0	603.0	603.0
	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
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	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
	603.0	603.0								
0186	599.0	599.0	599.0	599.0	600.0	600.0	600.0	600.0	601.0	601.0
	601.0	601.0	601.0	601.0	602.0	602.0	602.0	602.0	602.0	602.0
	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
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	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0	603.0
	603.0	603.0								
0187	599.0	599.0	599.0	599.0	599.0	600.0	600.0	600.0	600.0	601.0
	601.0	601.0	601.0	601.0	601.0	601.0	601.0	602.0	602.0	602.0
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	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
	602.0	602.0								
0188	598.0	598.0	598.0	598.0	599.0	599.0	600.0	600.0	600.0	601.0
	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
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	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
	602.0	602.0								
0189	597.0	597.0	597.0	598.0	598.0	599.0	600.0	600.0	600.0	600.0
	600.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
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	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
	602.0	602.0								
0190	596.0	596.0	596.0	597.0	597.0	598.0	600.0	600.0	600.0	600.0
	600.0	600.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
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	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
	601.0	601.0								
0191	595.0	595.0	595.0	596.0	596.0	597.0	598.0	600.0	600.0	600.0
	600.0	600.0	600.0	600.0	600.0	600.0	601.0	601.0	601.0	601.0
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	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
	601.0	601.0								
0192	594.0	594.0	594.0	594.0	595.0	595.0	596.0	597.0	598.0	600.0
	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0

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	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
	601.0	601.0								
0193	592.0	592.0	592.0	593.0	593.0	594.0	594.0	595.0	596.0	598.0
	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
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	601.0	601.0	601.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
	600.0	600.0								
0194	591.0	591.0	591.0	591.0	591.0	592.0	592.0	593.0	593.0	594.0
	595.0	596.0	596.0	596.0	596.0	596.0	597.0	598.0	600.0	600.0
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	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
	600.0	600.0								
0195	589.0	589.0	589.0	589.0	589.0	590.0	590.0	590.0	590.0	591.0
	591.0	592.0	592.0	592.0	592.0	592.0	593.0	593.0	594.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
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	595.0	595.0	595.0	595.0	595.0	595.0	596.0	597.0	600.0	600.0
	600.0	600.0	600.0	600.0	597.0	596.0	595.0	595.0	594.0	594.0
	594.0	593.0								
0196	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0
	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	590.0
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	590.0	590.0	590.0	590.0	590.0	590.0	591.0	592.0	593.0	593.0
	593.0	593.0	593.0	593.0	591.0	591.0	590.0	589.0	589.0	587.0
	587.0	587.0								
0197	586.0	586.0	586.0	586.0	586.0	585.0	585.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	585.0	585.0	585.0
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	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	586.0	586.0	586.0
	587.0	587.0	586.0	586.0	586.0	585.0	585.0	584.0	583.0	580.0
	580.0	580.0								
0198	585.0	585.0	585.0	584.0	584.0	583.0	582.0	582.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
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	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	577.0
	576.0	575.0								
0199	584.0	584.0	583.0	583.0	582.0	581.0	580.0	580.0	578.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
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	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	574.0	574.0	573.0	572.0
	571.0	571.0								
0200	583.0	582.0	582.0	582.0	581.0	580.0	578.0	577.0	575.0	574.0
	574.0	574.0	574.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
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	573.0	573.0	573.0	573.0	573.0	573.0	572.0	572.0	572.0	572.0
	572.0	572.0	571.0	571.0	571.0	571.0	572.0	572.0	571.0	571.0
	571.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	569.0	568.0	567.0	566.0
	566.0	565.0								
0201	582.0	581.0	581.0	581.0	580.0	577.0	575.0	573.0	572.0	571.0
	571.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
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	569.0	570.0	570.0	570.0	569.0	569.0	568.0	568.0	568.0	568.0
	568.0	567.0	567.0	567.0	567.0	567.0	568.0	568.0	567.0	567.0
	566.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	564.0	563.0	560.0	560.0
	560.0	560.0								
0202	581.0	581.0	580.0	580.0	576.0	573.0	571.0	569.0	568.0	568.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0

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	566.0	567.0	567.0	566.0	566.0	565.0	564.0	564.0	564.0	564.0
	564.0	563.0	563.0	562.0	562.0	562.0	565.0	564.0	564.0	562.0
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	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	556.0	554.0
	554.0	554.0								
0203	580.0	580.0	576.0	573.0	571.0	568.0	566.0	565.0	564.0	564.0
	564.0	564.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
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	560.0	559.0	558.0	557.0	556.0	555.0	558.0	558.0	558.0	558.0
	557.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0
	556.0	556.0	555.0	555.0	555.0	554.0	554.0	553.0	550.0	548.0
	547.0	547.0								
0204	574.0	573.0	570.0	567.0	565.0	563.0	560.0	560.0	560.0	560.0
	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0
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	555.0	558.0	558.0	558.0	557.0	557.0	556.0	556.0	555.0	555.0
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	552.0	551.0	551.0	550.0	550.0	549.0	548.0	546.0	544.0	540.0
	540.0	540.0								
0205	568.0	567.0	564.0	560.0	560.0	560.0	557.0	556.0	556.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
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	549.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	547.0	546.0	545.0	545.0	544.0	543.0	540.0	540.0	536.0
	535.0	534.0								
0206	564.0	563.0	560.0	558.0	556.0	555.0	554.0	552.0	551.0	551.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	549.0	549.0	549.0	548.0
	548.0	548.0	547.0	547.0	548.0	548.0	548.0	547.0	546.0	546.0
	545.0	545.0	545.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	544.0	543.0	542.0	540.0	540.0	540.0	540.0	535.0	533.0	530.0
	528.0	527.0								
0207	561.0	560.0	557.0	554.0	553.0	551.0	549.0	548.0	546.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	545.0	544.0	544.0	544.0
	543.0	543.0	542.0	542.0	542.0	545.0	544.0	543.0	542.0	541.0
	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	540.0	540.0	540.0	535.0	533.0	531.0	530.0	528.0	526.0	524.0
	520.0	520.0								
0208	560.0	556.0	553.0	551.0	549.0	547.0	545.0	543.0	540.0	540.0
	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	539.0	538.0	537.0	536.0	535.0	537.0	538.0	538.0	537.0	537.0
	536.0	535.0	535.0	535.0	534.0	534.0	534.0	534.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	532.0	532.0	532.0	532.0	532.0
	531.0	531.0	530.0	527.0	525.0	520.0	520.0	520.0	520.0	520.0
	513.0	511.0								
0209	552.0	550.0	548.0	547.0	545.0	543.0	540.0	540.0	536.0	534.0
	534.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	532.0	531.0	530.0	530.0	531.0	532.0	533.0	533.0	532.0
	531.0	531.0	530.0	529.0	529.0	528.0	527.0	527.0	527.0	527.0
	527.0	527.0	526.0	526.0	525.0	525.0	524.0	524.0	525.0	524.0
	523.0	522.0	521.0	520.0	520.0	513.0	511.0	510.0	509.0	507.0
	500.0	500.0								
0210	546.0	545.0	544.0	543.0	540.0	540.0	535.0	532.0	529.0	528.0
	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0
	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0
	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	527.0	526.0
	526.0	526.0	525.0	524.0	524.0	524.0	525.0	530.0	529.0	528.0
	527.0	526.0	525.0	524.0	523.0	522.0	521.0	520.0	520.0	520.0
	520.0	520.0	520.0	519.0	518.0	517.0	516.0	515.0	515.0	514.0
	513.0	512.0	511.0	510.0	507.0	500.0	500.0	500.0	500.0	500.0
	480.0	480.0								
0211	540.0	540.0	540.0	540.0	535.0	532.0	528.0	525.0	520.0	520.0
	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
	520.0	520.0	519.0	518.0	517.0	516.0	515.0	518.0	519.0	518.0
	517.0	516.0	515.0	514.0	513.0	512.0	511.0	510.0	510.0	510.0
	510.0	510.0	510.0	509.0	509.0	508.0	507.0	506.0	505.0	504.0
	503.0	502.0	501.0	500.0	500.0	493.0	490.0	488.0	480.0	480.0
	460.0	460.0								
0212	533.0	533.0	532.0	530.0	527.0	525.0	520.0	520.0	515.0	513.0
	512.0	512.0	511.0	511.0	510.0	510.0	510.0	510.0	510.0	510.0

	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0
	510.0	510.0	510.0	510.0	510.0	510.0	510.0	509.0	509.0	508.0
	508.0	507.0	506.0	506.0	505.0	504.0	505.0	510.0	509.0	508.0
	507.0	506.0	505.0	504.0	503.0	502.0	501.0	500.0	500.0	500.0
	500.0	500.0	500.0	500.0	500.0	499.0	498.0	497.0	496.0	495.0
	492.0	491.0	488.0	480.0	480.0	480.0	480.0	480.0	460.0	460.0
	455.0	455.0								
0213	526.0	526.0	524.0	520.0	520.0	520.0	512.0	510.0	506.0	505.0
	504.0	503.0	502.0	501.0	500.0	500.0	500.0	500.0	500.0	500.0
	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0
	500.0	500.0	500.0	500.0	500.0	500.0	500.0	499.0	498.0	497.0
	496.0	495.0	494.0	493.0	492.0	491.0	490.0	490.0	489.0	488.0
	487.0	486.0	485.0	484.0	483.0	482.0	481.0	480.0	480.0	480.0
	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
	480.0	480.0	480.0	470.0	460.0	460.0	460.0	460.0	455.0	455.0
	455.0	455.0								
0214	520.0	520.0	520.0	513.0	510.0	508.0	500.0	500.0	495.0	485.0
	484.0	483.0	482.0	481.0	480.0	480.0	480.0	480.0	480.0	480.0
	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
	480.0	480.0	480.0	480.0	480.0	480.0	480.0	479.0	478.0	477.0
	476.0	475.0	474.0	473.0	472.0	471.0	470.0	470.0	469.0	468.0
	467.0	466.0	465.0	464.0	463.0	462.0	461.0	460.0	460.0	460.0
	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
	460.0	460.0	460.0	460.0	458.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0215	509.0	507.0	500.0	500.0	500.0	500.0	480.0	480.0	478.0	473.0
	470.0	465.0	464.0	463.0	462.0	461.0	460.0	460.0	460.0	460.0
	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
	460.0	460.0	460.0	460.0	459.0	458.0	457.0	461.0	462.0	461.0
	461.0	460.0	460.0	460.0	459.0	459.0	458.0	458.0	458.0	458.0
	457.0	457.0	457.0	457.0	457.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0216	500.0	500.0	492.0	488.0	480.0	480.0	470.0	460.0	460.0	458.0
	457.0	459.0	459.0	459.0	458.0	458.0	458.0	458.0	458.0	458.0
	458.0	457.0	457.0	457.0	457.0	457.0	457.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0217	480.0	480.0	480.0	480.0	460.0	460.0	460.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0218	467.0	460.0	460.0	460.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0219	460.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								
0220	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
	455.0	455.0								

OPENING FILE ON UNIT 99:
BOTL1.DAT

ZBOT (BOTTOM ELEVATION) FOR LAYER 1
READING ON UNIT 99 WITH FORMAT: (8F9.0)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48	49	50
	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70
	71	72	73	74	75	76	77	78	79	80
	81	82								
0 1	748.0	748.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0								
0 2	748.0	746.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0								
0 3	744.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0								
0 4	742.0	741.0	741.0	741.0	741.0	742.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0								
0 5	739.0	739.0	739.0	739.0	739.0	739.0	740.0	740.0	740.0	740.0
	740.0	740.0	740.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
	741.0	741.0	741.0	741.0	742.0	743.0	743.0	743.0	743.0	743.0
	743.0	743.0								
0 6	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
	739.0	739.0	739.0	739.0	740.0	740.0	741.0	741.0	741.0	741.0
	741.0	741.0								
0 7	735.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	735.0	735.0	735.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0	736.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
	737.0	737.0	737.0	737.0	738.0	738.0	738.0	738.0	738.0	739.0
	739.0	739.0								
0 8	732.0	732.0	732.0	732.0	732.0	731.0	731.0	731.0	731.0	731.0
	732.0	733.0	733.0	733.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	735.0	735.0
	735.0	735.0	735.0	735.0	735.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0								
0 9	730.0	730.0	730.0	730.0	729.0	728.0	728.0	728.0	728.0	728.0
	730.0	730.0	730.0	731.0	731.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	733.0	733.0	733.0	733.0	733.0	734.0	734.0	734.0	734.0
	734.0	734.0								
0 10	728.0	728.0	728.0	728.0	728.0	727.0	726.0	726.0	726.0	727.0

	728.0	728.0	728.0	728.0	729.0	730.0	731.0	729.0	729.0	729.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	731.0	731.0	732.0	732.0	732.0	732.0
	732.0	732.0								
0 11	726.0	726.0	725.0	725.0	725.0	725.0	724.0	724.0	724.0	724.0
	725.0	725.0	725.0	726.0	726.0	726.0	726.0	725.0	726.0	727.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	729.0	730.0	730.0	730.0	730.0
	730.0	730.0								
0 12	723.0	723.0	723.0	723.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	723.0	723.0	723.0	723.0	723.0	723.0	724.0	724.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	726.0	726.0	726.0
	726.0	726.0	726.0	726.0	726.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0								
0 13	721.0	721.0	721.0	720.0	720.0	720.0	719.0	719.0	719.0	719.0
	719.0	720.0	720.0	720.0	720.0	721.0	721.0	721.0	721.0	721.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	724.0	724.0	724.0	724.0	724.0	724.0
	724.0	724.0								
0 14	718.0	718.0	718.0	718.0	718.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	718.0	718.0	718.0	718.0	718.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
	720.0	720.0	720.0	720.0	720.0	720.0	720.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	720.0	720.0	719.0
	719.0	719.0								
0 15	716.0	716.0	716.0	716.0	715.0	715.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	715.0	715.0	715.0	715.0	715.0	716.0	716.0
	716.0	716.0	716.0	716.0	716.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
-	718.0	718.0	718.0	718.0	718.0	718.0	718.0	717.0	716.0	715.0
	714.0	714.0								
0 16	714.0	714.0	714.0	713.0	713.0	712.0	711.0	711.0	711.0	711.0
	711.0	711.0	711.0	712.0	712.0	713.0	713.0	713.0	713.0	713.0
	713.0	713.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	715.0	715.0
	715.0	715.0	715.0	715.0	715.0	715.0	715.0	716.0	716.0	716.0
	716.0	716.0	716.0	716.0	716.0	715.0	715.0	713.0	712.0	711.0
	708.0	710.0								
0 17	712.0	712.0	712.0	711.0	710.0	710.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	709.0	710.0	711.0	710.0	709.0	710.0	710.0
	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
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	711.0	711.0	711.0	711.0	711.0	711.0	711.0	712.0	712.0	713.0
	712.0	712.0	712.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
	713.0	714.0	714.0	714.0	713.0	713.0	712.0	710.0	708.0	708.0
	708.0	708.0								
0 18	711.0	710.0	710.0	709.0	708.0	708.0	707.0	707.0	706.0	706.0
	706.0	706.0	706.0	707.0	707.0	707.0	705.0	706.0	707.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
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	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	709.0	710.0	711.0
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	711.0	711.0	711.0	711.0	711.0	711.0	710.0	708.0	707.0	707.0
	707.0	707.0								
0 19	709.0	709.0	708.0	708.0	707.0	706.0	705.0	705.0	705.0	705.0
	704.0	704.0	705.0	705.0	705.0	705.0	704.0	704.0	705.0	705.0
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	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
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	706.0	706.0	706.0	706.0	706.0	706.0	706.0	707.0	707.0	707.0
	705.0	706.0	707.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	709.0	710.0	710.0	709.0	709.0	708.0	707.0	706.0	706.0
	705.0	705.0								
0 20	708.0	708.0	706.0	706.0	705.0	704.0	704.0	703.0	703.0	703.0

	703.0	703.0	703.0	703.0	703.0	703.0	702.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
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	704.0	704.0	705.0	705.0	705.0	706.0	706.0	706.0	706.0	706.0
	707.0	708.0	708.0	708.0	708.0	708.0	706.0	705.0	704.0	704.0
	704.0	704.0								
0 21	705.0	705.0	704.0	704.0	703.0	702.0	702.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	700.0	700.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	703.0	703.0	703.0	703.0	704.0	704.0	704.0
	704.0	705.0	705.0	705.0	705.0	705.0	704.0	703.0	703.0	702.0
	702.0	702.0								
0 22	703.0	702.0	702.0	701.0	701.0	700.0	700.0	699.0	699.0	699.0
	699.0	699.0	699.0	698.0	698.0	698.0	698.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	700.0	700.0
	700.0	700.0	700.0	700.0	701.0	701.0	701.0	701.0	701.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	701.0	701.0	700.0
	700.0	700.0								
0 23	700.0	700.0	700.0	699.0	699.0	698.0	698.0	697.0	697.0	697.0
	697.0	697.0	696.0	696.0	696.0	696.0	696.0	696.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	698.0	698.0	698.0	698.0	698.0	699.0	699.0	699.0	699.0
	700.0	700.0	700.0	700.0	700.0	700.0	699.0	699.0	699.0	698.0
	698.0	698.0								
0 24	698.0	698.0	698.0	697.0	697.0	696.0	696.0	695.0	695.0	695.0
	695.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	696.0	696.0	696.0	696.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	696.0
	696.0	696.0								
0 25	696.0	696.0	696.0	695.0	694.0	694.0	693.0	693.0	693.0	693.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
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	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
	692.0	692.0	692.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
	693.0	693.0	693.0	693.0	693.0	694.0	694.0	694.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	694.0	694.0
	694.0	694.0								
0 26	694.0	694.0	694.0	693.0	692.0	692.0	691.0	691.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	691.0	691.0	691.0	691.0	692.0	692.0	692.0	692.0
	692.0	693.0	693.0	693.0	693.0	693.0	692.0	692.0	692.0	692.0
	692.0	692.0								
0 27	693.0	692.0	692.0	691.0	690.0	689.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
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	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
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	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0								
0 28	691.0	691.0	691.0	690.0	688.0	688.0	688.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
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	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0								
0 29	690.0	690.0	689.0	689.0	688.0	687.0	687.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
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	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	606.0	686.0
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	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0								
0 30	689.0	689.0	689.0	688.0	687.0	686.0	686.0	685.0	685.0	685.0

	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
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	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0	684.0	685.0	685.0	685.0	685.0	685.0	684.0	684.0
	685.0	685.0	685.0	684.0	684.0	684.0	684.0	684.0	684.0	683.0
	683.0	683.0								
0 31	689.0	688.0	688.0	687.0	686.0	685.0	685.0	684.0	684.0	684.0
	684.0	684.0	684.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	682.0	682.0	682.0	681.0	681.0
	681.0	681.0								
0 32	688.0	688.0	688.0	686.0	685.0	684.0	684.0	683.0	683.0	683.0
	683.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	681.0	681.0	681.0	681.0	681.0	680.0	680.0	679.0	679.0
	678.0	678.0								
0 33	688.0	688.0	686.0	685.0	684.0	683.0	682.0	682.0	682.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	680.0	680.0
	680.0	680.0	680.0	679.0	679.0	679.0	678.0	678.0	677.0	676.0
	676.0	675.0								
0 34	688.0	688.0	685.0	683.0	682.0	681.0	681.0	681.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
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	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
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	680.0	680.0	680.0	680.0	680.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	678.0	678.0	677.0	677.0	676.0	676.0	675.0	674.0
	673.0	672.0								
0 35	688.0	684.0	682.0	681.0	680.0	680.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
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	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	677.0	677.0	677.0	676.0	676.0	675.0	675.0	674.0	673.0	672.0
	670.0	668.0								
0 36	681.0	679.0	679.0	678.0	678.0	678.0	678.0	678.0	678.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
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	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	676.0
	676.0	676.0	675.0	675.0	674.0	674.0	673.0	672.0	671.0	670.0
	668.0	668.0								
0 37	674.0	674.0	675.0	675.0	675.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	675.0	675.0
	675.0	675.0	674.0	674.0	673.0	672.0	672.0	671.0	669.0	668.0
	668.0	668.0								
0 38	668.0	668.0	671.0	672.0	673.0	674.0	674.0	674.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
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	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	674.0	674.0	674.0
	674.0	673.0	673.0	672.0	672.0	671.0	670.0	669.0	668.0	668.0
	668.0	668.0								
0 39	665.0	665.0	668.0	670.0	671.0	672.0	672.0	673.0	673.0	673.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
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	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	673.0	673.0	673.0	673.0	673.0
	673.0	672.0	672.0	671.0	671.0	670.0	669.0	668.0	668.0	667.0
	667.0	667.0								
0 40	660.0	661.0	664.0	668.0	669.0	670.0	671.0	672.0	672.0	672.0

	672.0	672.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
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	673.0	673.0	673.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	671.0	671.0	670.0	670.0	669.0	668.0	668.0	667.0	667.0
	667.0	667.0								
0 41	655.0	656.0	659.0	663.0	668.0	669.0	670.0	670.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	672.0	672.0	672.0	672.0
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	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	670.0	670.0	670.0	669.0	668.0	668.0	667.0	667.0	667.0
	666.0	666.0								
0 42	648.0	648.0	653.0	658.0	663.0	668.0	669.0	669.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
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	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	669.0	669.0	669.0	668.0	668.0	667.0	667.0	666.0	666.0
	666.0	666.0								
0 43	646.0	647.0	648.0	653.0	658.0	663.0	668.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
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	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	668.0	668.0	668.0	667.0	666.0	666.0	665.0	665.0
	665.0	665.0								
0 44	643.0	644.0	647.0	648.0	653.0	659.0	663.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
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	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	667.0	667.0	666.0	666.0	665.0	665.0	665.0	664.0
	664.0	664.0								
0 45	638.0	642.0	646.0	647.0	648.0	655.0	659.0	663.0	664.0	665.0
	665.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
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	666.0	666.0	666.0	666.0	665.0	665.0	664.0	664.0	664.0	664.0
	663.0	663.0								
0 46	637.0	641.0	645.0	646.0	647.0	653.0	656.0	659.0	661.0	662.0
	663.0	664.0	664.0	664.0	664.0	665.0	665.0	665.0	665.0	665.0
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	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
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	665.0	665.0	665.0	664.0	664.0	664.0	663.0	663.0	663.0	663.0
	662.0	662.0								
0 47	637.0	638.0	644.0	645.0	647.0	652.0	654.0	657.0	659.0	660.0
	661.0	661.0	662.0	662.0	663.0	663.0	663.0	663.0	663.0	663.0
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	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	663.0	663.0	663.0	663.0	662.0	662.0	662.0	662.0	662.0
	662.0	661.0								
0 48	636.0	637.0	643.0	644.0	647.0	650.0	653.0	656.0	656.0	658.0
	659.0	660.0	660.0	661.0	661.0	661.0	662.0	662.0	662.0	662.0
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	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	663.0	663.0
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	662.0	662.0	662.0	662.0	661.0	661.0	661.0	661.0	661.0	661.0
	660.0	660.0								
0 49	636.0	637.0	642.0	643.0	646.0	649.0	651.0	655.0	655.0	656.0
	657.0	658.0	659.0	659.0	660.0	660.0	660.0	660.0	660.0	661.0
	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
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	662.0	662.0	662.0	662.0	661.0	661.0	661.0	661.0	661.0	661.0
	661.0	661.0	661.0	660.0	660.0	660.0	660.0	660.0	660.0	659.0
	659.0	659.0								
0 50	636.0	636.0	641.0	642.0	646.0	649.0	650.0	654.0	653.0	655.0

	656.0	656.0	657.0	658.0	658.0	658.0	659.0	659.0	659.0	659.0
	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
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	660.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	658.0	658.0
	658.0	658.0								
0 51	635.0	636.0	640.0	641.0	645.0	648.0	650.0	653.0	652.0	653.0
	654.0	655.0	656.0	656.0	657.0	657.0	657.0	657.0	658.0	658.0
	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
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	658.0	658.0	658.0	658.0	658.0	658.0	657.0	657.0	657.0	657.0
	657.0	657.0								
0 52	635.0	635.0	638.0	641.0	645.0	648.0	649.0	653.0	651.0	652.0
	653.0	654.0	654.0	655.0	655.0	656.0	656.0	656.0	656.0	656.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
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	657.0	657.0	657.0	657.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0								
0 53	634.0	635.0	637.0	640.0	644.0	647.0	648.0	652.0	650.0	651.0
	652.0	653.0	653.0	654.0	654.0	654.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	657.0	657.0
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	657.0	657.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0								
0 54	634.0	634.0	637.0	640.0	644.0	647.0	647.0	651.0	650.0	650.0
	651.0	652.0	652.0	653.0	653.0	653.0	653.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0								
0 55	633.0	634.0	636.0	639.0	643.0	646.0	647.0	650.0	649.0	650.0
	650.0	651.0	651.0	652.0	652.0	652.0	652.0	652.0	653.0	653.0
	653.0	653.0	653.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
	652.0	652.0	652.0	652.0	652.0	652.0	653.0	653.0	653.0	653.0
	653.0	653.0	653.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	653.0
	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	652.0
	652.0	652.0								
0 56	633.0	633.0	636.0	639.0	643.0	646.0	647.0	650.0	649.0	649.0
	650.0	650.0	650.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
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	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
	653.0	653.0	653.0	653.0	653.0	653.0	653.0	652.0	652.0	652.0
	652.0	652.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
	651.0	651.0								
0 57	632.0	633.0	635.0	638.0	642.0	645.0	648.0	649.0	648.0	649.0
	649.0	649.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	650.0	650.0	650.0	650.0	649.0	649.0	649.0	649.0	649.0
	649.0	649.0	649.0	649.0	649.0	649.0	650.0	650.0	650.0	650.0
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	652.0	652.0	652.0	652.0	652.0	651.0	651.0	651.0	651.0	651.0
	651.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	650.0								
0 58	631.0	632.0	635.0	638.0	642.0	645.0	647.0	649.0	648.0	648.0
	648.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
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	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	649.0	648.0	648.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	648.0								
0 59	631.0	632.0	634.0	637.0	641.0	644.0	647.0	648.0	648.0	648.0
	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	648.0	648.0	648.0	648.0	647.0	647.0	647.0	647.0	647.0
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	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	648.0								
0 60	630.0	631.0	634.0	637.0	641.0	644.0	646.0	648.0	648.0	648.0

	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
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	648.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	647.0								
0 61	630.0	631.0	633.0	637.0	640.0	643.0	646.0	647.0	647.0	647.0
	646.0	646.0	646.0	646.0	646.0	646.0	647.0	647.0	647.0	647.0
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	647.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
	646.0	646.0								
0 62	629.0	630.0	633.0	636.0	640.0	643.0	645.0	647.0	647.0	646.0
	645.0	645.0	645.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
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	645.0	645.0								
0 63	629.0	630.0	632.0	636.0	639.0	642.0	645.0	647.0	647.0	645.0
	644.0	644.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
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	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	644.0	644.0								
0 64	628.0	630.0	632.0	636.0	639.0	642.0	644.0	646.0	646.0	644.0
	643.0	644.0	644.0	644.0	644.0	644.0	644.0	645.0	645.0	645.0
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	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
	643.0	643.0								
0 65	628.0	629.0	632.0	635.0	638.0	641.0	644.0	646.0	646.0	643.0
	642.0	643.0	643.0	643.0	643.0	644.0	644.0	644.0	644.0	644.0
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	643.0	643.0	643.0	643.0	643.0	643.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
	642.0	642.0								
0 66	627.0	629.0	631.0	635.0	638.0	641.0	643.0	645.0	645.0	643.0
	642.0	642.0	642.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
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	642.0	642.0	642.0	642.0	642.0	641.0	641.0	641.0	641.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
	641.0	642.0								
0 67	627.0	629.0	631.0	635.0	637.0	640.0	643.0	645.0	645.0	642.0
	641.0	641.0	642.0	642.0	642.0	642.0	643.0	643.0	643.0	643.0
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	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	641.0
	641.0	641.0								
0 68	626.0	628.0	631.0	634.0	636.0	640.0	642.0	644.0	644.0	642.0
	641.0	641.0	641.0	641.0	642.0	642.0	642.0	642.0	642.0	642.0
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	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	640.0
	640.0	640.0								
0 69	626.0	628.0	630.0	634.0	636.0	639.0	642.0	644.0	644.0	641.0
	640.0	640.0	641.0	641.0	641.0	641.0	641.0	642.0	642.0	642.0
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	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	639.0	639.0
	639.0	639.0								
0 70	625.0	627.0	630.0	634.0	636.0	639.0	641.0	643.0	643.0	641.0

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	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
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	637.0	637.0	637.0	637.0	637.0	638.0	638.0	638.0	638.0	638.0
	638.0	639.0								
0 71	625.0	627.0	630.0	633.0	636.0	638.0	641.0	643.0	643.0	640.0
	640.0	639.0	640.0	640.0	640.0	640.0	640.0	641.0	641.0	641.0
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	638.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	638.0	638.0
	638.0	638.0								
0 72	624.0	626.0	629.0	633.0	636.0	638.0	640.0	642.0	642.0	640.0
	640.0	639.0	639.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
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	636.0	636.0	636.0	636.0	636.0	636.0	637.0	637.0	637.0	637.0
	638.0	638.0								
0 73	624.0	626.0	629.0	632.0	635.0	637.0	640.0	642.0	642.0	640.0
	639.0	639.0	639.0	639.0	639.0	639.0	640.0	640.0	640.0	640.0
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	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	637.0	637.0
	637.0	638.0								
0 74	624.0	626.0	629.0	632.0	635.0	636.0	639.0	641.0	641.0	639.0
	639.0	638.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	635.0	635.0	635.0	635.0	635.0	635.0	635.0	636.0	636.0	637.0
	637.0	638.0								
0 75	623.0	625.0	628.0	631.0	634.0	635.0	639.0	641.0	641.0	639.0
	639.0	638.0	638.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	635.0	635.0	635.0	636.0
	638.0	638.0								
0 76	623.0	625.0	628.0	631.0	634.0	635.0	639.0	640.0	640.0	639.0
	639.0	638.0	638.0	638.0	638.0	639.0	639.0	639.0	638.0	638.0
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	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0
	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0
	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	634.0	634.0	634.0	634.0	635.0
	636.0	636.0								
0 77	623.0	625.0	628.0	630.0	633.0	635.0	638.0	640.0	640.0	639.0
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	637.0	637.0	637.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0
	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	634.0
	634.0	634.0								
0 78	622.0	624.0	627.0	630.0	634.0	635.0	638.0	639.0	639.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0
	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0
	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	633.0	633.0								
0 79	622.0	624.0	627.0	630.0	634.0	636.0	638.0	639.0	639.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0
	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0 80	622.0	624.0	626.0	630.0	634.0	635.0	637.0	639.0	639.0	638.0

	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0
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	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0
	635.0	635.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0
	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0
	631.0	631.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	630.0
	630.0	630.0								
0 81	622.0	624.0	626.0	629.0	634.0	635.0	636.0	638.0	638.0	638.0
	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
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	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0
	629.0	629.0								
0 82	621.0	623.0	625.0	629.0	633.0	634.0	636.0	638.0	638.0	638.0
	638.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0
	632.0	632.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0
	630.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	629.0								
0 83	621.0	623.0	625.0	629.0	632.0	634.0	635.0	638.0	638.0	637.0
	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
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	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0
	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0 84	621.0	623.0	625.0	628.0	631.0	633.0	634.0	636.0	637.0	636.0
	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0
	631.0	631.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	628.0	628.0								
0 85	620.0	623.0	624.0	628.0	630.0	632.0	633.0	634.0	636.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
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	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	628.0	628.0
	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0 86	620.0	623.0	624.0	628.0	630.0	631.0	632.0	633.0	635.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0
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	632.0	632.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0
	630.0	630.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0 87	620.0	622.0	623.0	627.0	629.0	630.0	631.0	632.0	634.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
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	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0 88	619.0	622.0	623.0	627.0	628.0	629.0	630.0	631.0	633.0	633.0
	632.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0
	629.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0 89	619.0	622.0	623.0	626.0	628.0	629.0	630.0	631.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0 90	618.0	622.0	622.0	626.0	627.0	629.0	630.0	630.0	631.0	632.0

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	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
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	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0
	628.0	628.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0 91	618.0	622.0	622.0	626.0	627.0	629.0	629.0	630.0	630.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0
	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0 92	617.0	621.0	622.0	625.0	626.0	629.0	629.0	629.0	630.0	631.0
	630.0	630.0	630.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
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	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0
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	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0
	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0								
0 93	617.0	621.0	621.0	625.0	626.0	628.0	629.0	629.0	629.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0								
0 94	616.0	621.0	621.0	624.0	626.0	628.0	628.0	629.0	629.0	630.0
	629.0	629.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0
	628.0	628.0	628.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0
	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0								
0 95	616.0	620.0	621.0	624.0	625.0	628.0	628.0	628.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0
	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0								
0 96	616.0	620.0	620.0	623.0	625.0	628.0	628.0	628.0	628.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0
	627.0	627.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0
	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0 97	616.0	620.0	620.0	623.0	624.0	627.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
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	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0
	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0								
0 98	615.0	619.0	620.0	622.0	624.0	627.0	627.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0								
0 99	615.0	619.0	619.0	622.0	623.0	626.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
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	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0								
0100	615.0	618.0	619.0	621.0	623.0	626.0	626.0	626.0	626.0	626.0

	626.0	626.0	626.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0
	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0
	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0								
0101	614.0	618.0	619.0	621.0	622.0	625.0	625.0	625.0	625.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0
	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0102	614.0	617.0	618.0	620.0	622.0	624.0	624.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0
	622.0	622.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0
	619.0	619.0								
0103	614.0	616.0	618.0	620.0	621.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
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	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0
	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0								
0104	613.0	616.0	618.0	620.0	621.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
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	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0
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	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0
	618.0	618.0								
0105	613.0	615.0	617.0	619.0	620.0	622.0	622.0	622.0	622.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
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	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0								
0106	613.0	615.0	616.0	619.0	620.0	621.0	621.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	623.0
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	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0								
0107	613.0	614.0	616.0	619.0	619.0	621.0	621.0	621.0	621.0	621.0
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	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0
	619.0	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0								
0108	612.0	614.0	615.0	618.0	619.0	620.0	620.0	620.0	620.0	620.0
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	620.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	618.0	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0	616.0
	616.0	616.0								
0109	612.0	613.0	615.0	618.0	618.0	619.0	619.0	619.0	620.0	620.0
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	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0	617.0	617.0
	616.0	616.0	616.0	616.0	616.0	616.0	616.0	615.0	615.0	615.0
	615.0	615.0								
0110	612.0	613.0	614.0	618.0	618.0	618.0	618.0	619.0	619.0	619.0

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	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	617.0	617.0	617.0	616.0	616.0	616.0
	616.0	616.0	616.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0								
0111	612.0	612.0	614.0	617.0	617.0	618.0	618.0	618.0	618.0	618.0
	618.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0	616.0
	615.0	615.0	615.0	615.0	615.0	614.0	614.0	614.0	614.0	614.0
	614.0	614.0								
0112	611.0	612.0	613.0	616.0	617.0	617.0	617.0	617.0	617.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0
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	618.0	618.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	616.0	616.0	616.0	616.0	616.0	616.0	615.0	615.0	615.0
	615.0	615.0	614.0	614.0	614.0	614.0	614.0	613.0	613.0	613.0
	613.0	613.0								
0113	611.0	611.0	613.0	615.0	616.0	616.0	616.0	616.0	617.0	617.0
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	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	617.0	617.0	616.0	616.0	616.0
	616.0	616.0	616.0	616.0	615.0	615.0	615.0	615.0	615.0	614.0
	614.0	614.0	614.0	613.0	613.0	613.0	613.0	613.0	612.0	612.0
	612.0	612.0								
0114	611.0	611.0	612.0	615.0	615.0	615.0	616.0	616.0	616.0	616.0
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	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
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	616.0	615.0	615.0	615.0	615.0	615.0	615.0	614.0	614.0	614.0
	614.0	613.0	613.0	613.0	613.0	612.0	612.0	612.0	612.0	612.0
	612.0	612.0								
0115	611.0	611.0	612.0	614.0	614.0	614.0	615.0	615.0	615.0	616.0
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	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
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	613.0	613.0	613.0	612.0	612.0	612.0	611.0	611.0	611.0	611.0
	611.0	611.0								
0116	610.0	611.0	611.0	613.0	613.0	614.0	614.0	614.0	615.0	615.0
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	615.0	614.0	614.0	614.0	614.0	614.0	614.0	613.0	613.0	613.0
	613.0	612.0	612.0	612.0	611.0	611.0	610.0	610.0	610.0	610.0
	610.0	610.0								
0117	610.0	611.0	611.0	612.0	613.0	613.0	614.0	614.0	614.0	614.0
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	609.0	609.0								
0118	610.0	610.0	610.0	612.0	612.0	613.0	613.0	613.0	614.0	614.0
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	609.0	609.0								
0119	610.0	610.0	610.0	611.0	612.0	612.0	612.0	613.0	613.0	613.0
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	609.0	609.0								
0120	609.0	610.0	610.0	611.0	611.0	612.0	612.0	612.0	613.0	613.0

	613.0	613.0	613.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
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	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0								
0168	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	597.0	597.0
	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0								
0169	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
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	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0								
0170	594.0	594.0	594.0	594.0	594.0	594.0	594.0	595.0	595.0	595.0

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	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0								
0171	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	595.0	595.0	595.0	595.0	595.0	595.0
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	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0								
0172	593.0	593.0	593.0	593.0	593.0	593.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
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	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0								
0173	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
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	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0								
0174	592.0	592.0	592.0	592.0	592.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
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	595.0	595.0								
0175	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
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	594.0	594.0								
0176	591.0	591.0	591.0	591.0	591.0	591.0	592.0	592.0	592.0	592.0
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	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0								
0177	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	593.0	593.0	593.0
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	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0								
0178	590.0	590.0	590.0	590.0	590.0	590.0	591.0	591.0	591.0	591.0
	591.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
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	593.0	593.0								
0179	590.0	589.0	589.0	589.0	590.0	590.0	590.0	590.0	591.0	591.0
	591.0	591.0	591.0	591.0	592.0	592.0	592.0	592.0	592.0	592.0
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	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
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	593.0	593.0								
0180	589.0	589.0	589.0	588.0	589.0	589.0	590.0	590.0	590.0	590.0

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	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0								
0181	589.0	589.0	588.0	588.0	589.0	589.0	589.0	590.0	590.0	590.0
	590.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
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	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0								
0182	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	590.0	590.0
	590.0	590.0	590.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
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	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0								
0183	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	591.0	591.0	591.0	591.0
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	592.0	592.0								
0184	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0
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	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0								
0185	588.0	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0
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	591.0	591.0								
0186	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0	589.0	589.0
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	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0								
0187	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	590.0	590.0	590.0
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	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0								
0188	586.0	586.0	586.0	586.0	587.0	587.0	588.0	588.0	588.0	589.0
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	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0								
0189	585.0	585.0	585.0	586.0	586.0	587.0	588.0	588.0	588.0	588.0
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	590.0	590.0								
0190	584.0	584.0	584.0	585.0	585.0	586.0	588.0	588.0	588.0	588.0

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	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0								
0191	583.0	583.0	583.0	584.0	584.0	585.0	586.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0								
0192	582.0	582.0	582.0	582.0	583.0	583.0	584.0	585.0	586.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0								
0193	580.0	580.0	580.0	581.0	581.0	582.0	582.0	583.0	584.0	586.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0194	579.0	579.0	579.0	579.0	579.0	580.0	580.0	581.0	581.0	582.0
	583.0	584.0	584.0	584.0	584.0	584.0	585.0	586.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0195	577.0	577.0	577.0	577.0	577.0	578.0	578.0	578.0	578.0	579.0
	579.0	580.0	580.0	580.0	580.0	580.0	581.0	581.0	582.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	584.0	585.0	588.0	588.0
	588.0	588.0	588.0	588.0	585.0	584.0	583.0	583.0	582.0	582.0
	582.0	581.0								
0196	576.0	576.0	576.0	576.0	576.0	575.0	575.0	575.0	575.0	575.0
	576.0	576.0	576.0	576.0	576.0	576.0	577.0	577.0	577.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	579.0	580.0	581.0	581.0
	581.0	581.0	581.0	581.0	579.0	579.0	578.0	577.0	577.0	575.0
	575.0	575.0								
0197	574.0	574.0	574.0	574.0	574.0	573.0	573.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	574.0	574.0	574.0
	575.0	575.0	574.0	574.0	574.0	573.0	573.0	572.0	571.0	568.0
	568.0	568.0								
0198	573.0	573.0	573.0	572.0	572.0	571.0	570.0	570.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	565.0
	564.0	563.0								
0199	572.0	572.0	571.0	571.0	570.0	569.0	568.0	568.0	566.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	564.0	564.0	564.0	564.0
	564.0	565.0	565.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	562.0	562.0	561.0	560.0
	559.0	559.0								
0200	571.0	570.0	570.0	570.0	569.0	568.0	566.0	565.0	563.0	562.0

	562.0	562.0	562.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
	561.0	561.0	561.0	561.0	561.0	561.0	560.0	560.0	560.0	560.0
	560.0	560.0	559.0	559.0	559.0	559.0	560.0	560.0	559.0	559.0
	559.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	557.0	556.0	555.0	554.0
	554.0	553.0								
0201	570.0	569.0	569.0	569.0	568.0	565.0	563.0	561.0	560.0	559.0
	559.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	557.0	557.0	557.0	557.0
	557.0	558.0	558.0	558.0	557.0	557.0	556.0	556.0	556.0	556.0
	556.0	555.0	555.0	555.0	555.0	555.0	556.0	556.0	555.0	555.0
	554.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	552.0	551.0	548.0	548.0
	548.0	548.0								
0202	569.0	569.0	568.0	568.0	564.0	561.0	559.0	557.0	556.0	556.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	554.0	554.0	554.0	554.0	553.0	553.0
	554.0	555.0	555.0	554.0	554.0	553.0	552.0	552.0	552.0	552.0
	552.0	551.0	551.0	550.0	550.0	550.0	553.0	552.0	552.0	550.0
	549.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	544.0	542.0
	542.0	542.0								
0203	568.0	568.0	564.0	561.0	559.0	556.0	554.0	553.0	552.0	552.0
	552.0	552.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	550.0	550.0	549.0	549.0
	550.0	553.0	552.0	551.0	550.0	549.0	548.0	548.0	548.0	548.0
	548.0	547.0	546.0	545.0	544.0	543.0	546.0	546.0	546.0	546.0
	545.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	544.0	544.0	543.0	543.0	543.0	542.0	542.0	541.0	538.0	536.0
	535.0	535.0								
0204	562.0	561.0	558.0	555.0	553.0	551.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	547.0	546.0	545.0	544.0
	543.0	546.0	546.0	546.0	545.0	545.0	544.0	544.0	543.0	543.0
	543.0	542.0	542.0	541.0	540.0	540.0	541.0	541.0	541.0	541.0
	541.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	540.0	539.0	539.0	538.0	538.0	537.0	536.0	534.0	532.0	528.0
	528.0	528.0								
0205	556.0	555.0	552.0	548.0	548.0	548.0	545.0	544.0	544.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	542.0	541.0	541.0	540.0
	540.0	540.0	541.0	541.0	540.0	540.0	540.0	539.0	539.0	539.0
	538.0	538.0	537.0	537.0	536.0	536.0	537.0	537.0	537.0	537.0
	537.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
	536.0	535.0	534.0	533.0	533.0	532.0	531.0	528.0	528.0	524.0
	523.0	522.0								
0206	552.0	551.0	548.0	546.0	544.0	543.0	542.0	540.0	539.0	539.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	537.0	537.0	537.0	536.0
	536.0	536.0	535.0	535.0	536.0	536.0	536.0	535.0	534.0	534.0
	533.0	533.0	533.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
	532.0	531.0	530.0	528.0	528.0	528.0	528.0	523.0	521.0	518.0
	516.0	515.0								
0207	549.0	548.0	545.0	542.0	541.0	539.0	537.0	536.0	534.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	532.0	532.0	532.0
	531.0	531.0	530.0	530.0	530.0	533.0	532.0	531.0	530.0	529.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	523.0	521.0	519.0	518.0	516.0	514.0	512.0
	508.0	508.0								
0208	548.0	544.0	541.0	539.0	537.0	535.0	533.0	531.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	527.0	526.0	525.0	524.0	523.0	525.0	526.0	526.0	525.0	525.0
	524.0	523.0	523.0	523.0	522.0	522.0	522.0	522.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	520.0	520.0	520.0	520.0	520.0
	519.0	519.0	518.0	515.0	513.0	508.0	508.0	508.0	508.0	508.0
	501.0	499.0								
0209	540.0	538.0	536.0	535.0	533.0	531.0	528.0	528.0	524.0	522.0
	522.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	520.0	519.0	518.0	518.0	519.0	520.0	521.0	521.0	520.0
	519.0	519.0	518.0	517.0	517.0	516.0	515.0	515.0	515.0	515.0
	515.0	515.0	514.0	514.0	513.0	513.0	512.0	512.0	513.0	512.0
	511.0	510.0	509.0	508.0	508.0	501.0	499.0	498.0	497.0	495.0
	488.0	488.0								
0210	534.0	533.0	532.0	531.0	528.0	528.0	523.0	520.0	517.0	516.0

	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	514.0
	514.0	514.0	513.0	512.0	512.0	512.0	513.0	518.0	517.0	516.0
	515.0	514.0	513.0	512.0	511.0	510.0	509.0	508.0	508.0	508.0
	508.0	508.0	508.0	507.0	506.0	505.0	504.0	503.0	503.0	502.0
	501.0	500.0	499.0	498.0	495.0	488.0	488.0	488.0	488.0	488.0
	468.0	468.0								
0211	528.0	528.0	528.0	528.0	523.0	520.0	516.0	513.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	507.0	506.0	505.0	504.0	503.0	506.0	507.0	506.0
	505.0	504.0	503.0	502.0	501.0	500.0	499.0	498.0	498.0	498.0
	498.0	498.0	498.0	497.0	497.0	496.0	495.0	494.0	493.0	492.0
	491.0	490.0	489.0	488.0	488.0	481.0	478.0	476.0	468.0	468.0
	448.0	448.0								
0212	521.0	521.0	520.0	518.0	515.0	513.0	508.0	508.0	503.0	501.0
	500.0	500.0	499.0	499.0	498.0	498.0	498.0	498.0	498.0	498.0
	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
	498.0	498.0	498.0	498.0	498.0	498.0	498.0	497.0	497.0	496.0
	496.0	495.0	494.0	494.0	493.0	492.0	493.0	498.0	497.0	496.0
	495.0	494.0	493.0	492.0	491.0	490.0	489.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	487.0	486.0	485.0	484.0	483.0
	480.0	479.0	476.0	468.0	468.0	468.0	468.0	468.0	448.0	448.0
	443.0	443.0								
0213	514.0	514.0	512.0	508.0	508.0	508.0	500.0	498.0	494.0	493.0
	492.0	491.0	490.0	489.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	487.0	486.0	485.0
	484.0	483.0	482.0	481.0	480.0	479.0	478.0	478.0	477.0	476.0
	475.0	474.0	473.0	472.0	471.0	470.0	469.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	458.0	448.0	448.0	448.0	448.0	443.0	443.0
	443.0	443.0								
0214	508.0	508.0	508.0	501.0	498.0	496.0	488.0	488.0	483.0	473.0
	472.0	471.0	470.0	469.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	467.0	466.0	465.0
	464.0	463.0	462.0	461.0	460.0	459.0	458.0	458.0	457.0	456.0
	455.0	454.0	453.0	452.0	451.0	450.0	449.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	446.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								
0215	497.0	495.0	488.0	488.0	488.0	488.0	468.0	468.0	466.0	461.0
	458.0	453.0	452.0	451.0	450.0	449.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	447.0	446.0	445.0	449.0	450.0	449.0
	449.0	448.0	448.0	448.0	447.0	447.0	446.0	446.0	446.0	446.0
	445.0	445.0	445.0	445.0	445.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								
0216	488.0	488.0	480.0	476.0	468.0	468.0	458.0	448.0	448.0	446.0
	445.0	447.0	447.0	447.0	446.0	446.0	446.0	446.0	446.0	446.0
	446.0	445.0	445.0	445.0	445.0	445.0	445.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								
0217	468.0	468.0	468.0	468.0	448.0	448.0	448.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								
0218	455.0	448.0	448.0	448.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								
0219	448.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								
0220	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0

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      443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
      443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
      443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
      443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
      443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
      443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
      443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
      443.0     443.0

OPENING FILE ON UNIT  99:
BOTL1.DAT


          ZTOP (TOP ELEVATION)     FOR LAYER   2
READING ON UNIT  99 WITH FORMAT: (82F9.0)

        1         2         3         4         5         6         7         8         9        10
       11        12        13        14        15        16        17        18        19        20
       21        22        23        24        25        26        27        28        29        30
       31        32        33        34        35        36        37        38        39        40
       41        42        43        44        45        46        47        48        49        50
       51        52        53        54        55        56        57        58        59        60
       61        62        63        64        65        66        67        68        69        70
       71        72        73        74        75        76        77        78        79        80
       81        82
-------------------------------------------------------------------------------------------------------
0  1  748.0     748.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0
0  2  748.0     746.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0
0  3  744.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0
0  4  742.0     741.0     741.0     741.0     741.0     742.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0
0  5  739.0     739.0     739.0     739.0     739.0     739.0     740.0     740.0     740.0     740.0
      740.0     740.0     740.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0
      741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0
      741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0
      741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0
      741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0
      741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0     741.0
      741.0     741.0     741.0     741.0     742.0     743.0     743.0     743.0     743.0     743.0
      743.0     743.0
0  6  737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0
      738.0     738.0     738.0     738.0     738.0     738.0     738.0     738.0     739.0     739.0
      739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0
      739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0
      739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0
      739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0
      739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0     739.0
      739.0     739.0     739.0     739.0     740.0     740.0     741.0     741.0     741.0     741.0
      741.0     741.0
0  7  735.0     734.0     734.0     734.0     734.0     734.0     734.0     734.0     734.0     734.0
      735.0     735.0     735.0     736.0     736.0     736.0     736.0     736.0     736.0     736.0
      736.0     736.0     736.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0
      737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0
      737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0
      737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0
      737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0     737.0
      737.0     737.0     737.0     737.0     738.0     738.0     738.0     738.0     738.0     739.0
      739.0     739.0
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0 8	732.0	732.0	732.0	732.0	732.0	731.0	731.0	731.0	731.0	731.0
	732.0	733.0	733.0	733.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	735.0	735.0
	735.0	735.0	735.0	735.0	735.0	736.0	736.0	736.0	736.0	736.0
	736.0	736.0								
0 9	730.0	730.0	730.0	730.0	729.0	728.0	728.0	728.0	728.0	728.0
	730.0	730.0	730.0	731.0	731.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
	732.0	733.0	733.0	733.0	733.0	733.0	734.0	734.0	734.0	734.0
	734.0	734.0								
0 10	728.0	728.0	728.0	728.0	728.0	727.0	726.0	726.0	726.0	727.0
	728.0	728.0	728.0	728.0	729.0	730.0	731.0	729.0	729.0	729.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
	730.0	730.0	730.0	730.0	731.0	731.0	732.0	732.0	732.0	732.0
	732.0	732.0								
0 11	726.0	726.0	725.0	725.0	725.0	725.0	724.0	724.0	724.0	724.0
	725.0	725.0	725.0	726.0	726.0	726.0	726.0	725.0	726.0	727.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0	728.0	728.0	728.0	729.0	730.0	730.0	730.0	730.0
	730.0	730.0								
0 12	723.0	723.0	723.0	723.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	723.0	723.0	723.0	723.0	723.0	723.0	724.0	724.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
	725.0	725.0	725.0	725.0	725.0	725.0	725.0	726.0	726.0	726.0
	726.0	726.0	726.0	726.0	726.0	728.0	728.0	728.0	728.0	728.0
	728.0	728.0								
0 13	721.0	721.0	721.0	720.0	720.0	720.0	719.0	719.0	719.0	719.0
	719.0	720.0	720.0	720.0	720.0	721.0	721.0	721.0	721.0	721.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0	722.0
	722.0	722.0	722.0	722.0	722.0	722.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	724.0	724.0	724.0	724.0	724.0	724.0
	724.0	724.0								
0 14	718.0	718.0	718.0	718.0	718.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	718.0	718.0	718.0	718.0	718.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	720.0	720.0	720.0	720.0	720.0	720.0	720.0
	720.0	720.0	720.0	720.0	720.0	720.0	720.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	720.0	720.0	719.0
	719.0	719.0								
0 15	716.0	716.0	716.0	716.0	715.0	715.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	715.0	715.0	715.0	715.0	715.0	716.0	716.0
	716.0	716.0	716.0	716.0	716.0	717.0	717.0	717.0	717.0	717.0
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	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
	718.0	718.0	718.0	718.0	718.0	718.0	718.0	717.0	716.0	715.0
	714.0	714.0								
0 16	714.0	714.0	714.0	713.0	713.0	712.0	711.0	711.0	711.0	711.0
	711.0	711.0	711.0	712.0	712.0	713.0	713.0	713.0	713.0	713.0
	713.0	713.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	715.0	715.0
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	716.0	716.0	716.0	716.0	716.0	715.0	715.0	713.0	712.0	711.0
	708.0	710.0								
0 17	712.0	712.0	712.0	711.0	710.0	710.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	709.0	710.0	711.0	710.0	709.0	710.0	710.0
	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
	711.0	711.0	711.0	711.0	711.0	711.0	711.0	712.0	712.0	713.0
	712.0	712.0	712.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
	713.0	714.0	714.0	714.0	713.0	713.0	712.0	710.0	708.0	708.0
	708.0	708.0								

0 18	711.0	710.0	710.0	709.0	708.0	708.0	707.0	707.0	706.0	706.0
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	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	709.0	710.0	711.0
	709.0	709.0	710.0	710.0	710.0	710.0	710.0	711.0	711.0	711.0
	711.0	711.0	711.0	711.0	711.0	711.0	710.0	708.0	707.0	707.0
	707.0	707.0								
0 19	709.0	709.0	708.0	708.0	707.0	706.0	705.0	705.0	705.0	705.0
	704.0	704.0	705.0	705.0	705.0	705.0	704.0	704.0	705.0	705.0
	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
	706.0	706.0	706.0	706.0	706.0	706.0	706.0	707.0	707.0	707.0
	705.0	706.0	707.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	709.0	710.0	710.0	709.0	709.0	708.0	707.0	706.0	706.0
	705.0	705.0								
0 20	708.0	708.0	706.0	706.0	705.0	704.0	704.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	702.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0	705.0	705.0	705.0	706.0	706.0	706.0	706.0	706.0
	707.0	708.0	708.0	708.0	708.0	708.0	706.0	705.0	704.0	704.0
	704.0	704.0								
0 21	705.0	705.0	704.0	704.0	703.0	702.0	702.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	700.0	700.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	703.0	703.0	703.0	703.0	704.0	704.0	704.0
	704.0	705.0	705.0	705.0	705.0	705.0	704.0	703.0	703.0	702.0
	702.0	702.0								
0 22	703.0	702.0	702.0	701.0	701.0	700.0	700.0	699.0	699.0	699.0
	699.0	699.0	699.0	698.0	698.0	698.0	698.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	700.0	700.0
	700.0	700.0	700.0	700.0	701.0	701.0	701.0	701.0	701.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	701.0	701.0	700.0
	700.0	700.0								
0 23	700.0	700.0	700.0	699.0	699.0	698.0	698.0	697.0	697.0	697.0
	697.0	697.0	696.0	696.0	696.0	696.0	696.0	696.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	698.0	698.0	698.0	698.0	698.0	699.0	699.0	699.0	699.0
	700.0	700.0	700.0	700.0	700.0	700.0	699.0	699.0	699.0	698.0
	698.0	698.0								
0 24	698.0	698.0	698.0	697.0	697.0	696.0	696.0	695.0	695.0	695.0
	695.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0
	695.0	695.0	695.0	696.0	696.0	696.0	696.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	696.0
	696.0	696.0								
0 25	696.0	696.0	696.0	695.0	694.0	694.0	693.0	693.0	693.0	693.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
	692.0	692.0	692.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
	693.0	693.0	693.0	693.0	693.0	694.0	694.0	694.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	694.0	694.0
	694.0	694.0								
0 26	694.0	694.0	694.0	693.0	692.0	692.0	691.0	691.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	691.0	691.0	691.0	691.0	692.0	692.0	692.0	692.0
	692.0	693.0	693.0	693.0	693.0	693.0	692.0	692.0	692.0	692.0
	692.0	692.0								
0 27	693.0	692.0	692.0	691.0	690.0	689.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
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	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	689.0	690.0	691.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0								

0 28	691.0	691.0	691.0	690.0	688.0	688.0	688.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0
	687.0	687.0	687.0	687.0	687.0	687.0	688.0	688.0	686.0	687.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0								
0 29	690.0	690.0	689.0	689.0	688.0	687.0	687.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
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	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0								
0 30	689.0	689.0	689.0	688.0	687.0	686.0	686.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	684.0
	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
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	685.0	685.0	685.0	684.0	684.0	684.0	684.0	684.0	684.0	683.0
	683.0	683.0								
0 31	689.0	688.0	688.0	687.0	686.0	685.0	685.0	684.0	684.0	684.0
	684.0	684.0	684.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
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	683.0	683.0	683.0	683.0	683.0	682.0	682.0	682.0	681.0	681.0
	681.0	681.0								
0 32	688.0	688.0	688.0	686.0	685.0	684.0	684.0	683.0	683.0	683.0
	683.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
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	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0
	682.0	681.0	681.0	681.0	681.0	681.0	680.0	680.0	679.0	679.0
	678.0	678.0								
0 33	688.0	688.0	686.0	685.0	684.0	683.0	682.0	682.0	682.0	681.0
	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
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	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	680.0	680.0
	680.0	680.0	680.0	679.0	679.0	679.0	678.0	678.0	677.0	676.0
	676.0	675.0								
0 34	688.0	688.0	685.0	683.0	682.0	681.0	681.0	681.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
	680.0	680.0	680.0	680.0	680.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	678.0	678.0	677.0	677.0	676.0	676.0	675.0	674.0
	673.0	672.0								
0 35	688.0	684.0	682.0	681.0	680.0	680.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
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	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	678.0
	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
	677.0	677.0	677.0	676.0	676.0	675.0	675.0	674.0	673.0	672.0
	670.0	668.0								
0 36	681.0	679.0	679.0	678.0	678.0	678.0	678.0	678.0	678.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
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	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	676.0
	676.0	676.0	675.0	675.0	674.0	674.0	673.0	672.0	671.0	670.0
	668.0	668.0								
0 37	674.0	674.0	675.0	675.0	675.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	675.0	675.0
	675.0	675.0	674.0	674.0	673.0	672.0	672.0	671.0	669.0	668.0
	668.0	668.0								

0 38	668.0	668.0	671.0	672.0	673.0	674.0	674.0	674.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	674.0	674.0	674.0
	674.0	673.0	673.0	672.0	672.0	671.0	670.0	669.0	668.0	668.0
	668.0	668.0								
0 39	665.0	665.0	668.0	670.0	671.0	672.0	672.0	673.0	673.0	673.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	673.0	673.0	673.0	673.0	673.0
	673.0	672.0	672.0	671.0	671.0	670.0	669.0	668.0	668.0	667.0
	667.0	667.0								
0 40	660.0	661.0	664.0	668.0	669.0	670.0	671.0	672.0	672.0	672.0
	672.0	672.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	671.0	671.0	670.0	670.0	669.0	668.0	668.0	667.0	667.0
	667.0	667.0								
0 41	655.0	656.0	659.0	663.0	668.0	669.0	670.0	670.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	671.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
	671.0	670.0	670.0	670.0	669.0	668.0	668.0	667.0	667.0	667.0
	666.0	666.0								
0 42	648.0	648.0	653.0	658.0	663.0	668.0	669.0	669.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	669.0	669.0	669.0	668.0	668.0	667.0	667.0	666.0	666.0
	666.0	666.0								
0 43	646.0	647.0	648.0	653.0	658.0	663.0	668.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
	669.0	669.0	668.0	668.0	668.0	667.0	666.0	666.0	665.0	665.0
	665.0	665.0								
0 44	643.0	644.0	647.0	648.0	653.0	659.0	663.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	667.0	667.0	666.0	666.0	665.0	665.0	665.0	664.0
	664.0	664.0								
0 45	638.0	642.0	646.0	647.0	648.0	655.0	659.0	663.0	664.0	665.0
	665.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	666.0	666.0	666.0	666.0	665.0	665.0	664.0	664.0	664.0	664.0
	663.0	663.0								
0 46	637.0	641.0	645.0	646.0	647.0	653.0	656.0	659.0	661.0	662.0
	663.0	664.0	664.0	664.0	664.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0
	665.0	665.0	665.0	664.0	664.0	664.0	663.0	663.0	663.0	663.0
	662.0	662.0								
0 47	637.0	638.0	644.0	645.0	647.0	652.0	654.0	657.0	659.0	660.0
	661.0	661.0	662.0	662.0	663.0	663.0	663.0	663.0	663.0	663.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	663.0	663.0	663.0	663.0	662.0	662.0	662.0	662.0	662.0
	662.0	661.0								

0 48	636.0	637.0	643.0	644.0	647.0	650.0	653.0	656.0	656.0	658.0
	659.0	660.0	660.0	661.0	661.0	661.0	662.0	662.0	662.0	662.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	662.0	662.0
	662.0	662.0	662.0	662.0	661.0	661.0	661.0	661.0	661.0	661.0
	660.0	660.0								
0 49	636.0	637.0	642.0	643.0	646.0	649.0	651.0	655.0	655.0	656.0
	657.0	658.0	659.0	659.0	660.0	660.0	660.0	660.0	660.0	661.0
	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
	661.0	661.0	661.0	661.0	661.0	661.0	662.0	662.0	662.0	662.0
	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
	662.0	662.0	662.0	662.0	661.0	661.0	661.0	661.0	661.0	661.0
	661.0	661.0	661.0	660.0	660.0	660.0	660.0	660.0	660.0	659.0
	659.0	659.0								
0 50	636.0	636.0	641.0	642.0	646.0	649.0	650.0	654.0	653.0	655.0
	656.0	656.0	657.0	658.0	658.0	658.0	659.0	659.0	659.0	659.0
	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
	659.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
	660.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	658.0	658.0
	658.0	658.0								
0 51	635.0	636.0	640.0	641.0	645.0	648.0	650.0	653.0	652.0	653.0
	654.0	655.0	656.0	656.0	657.0	657.0	657.0	657.0	658.0	658.0
	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	658.0
	658.0	658.0	658.0	658.0	658.0	658.0	657.0	657.0	657.0	657.0
	657.0	657.0								
0 52	635.0	635.0	638.0	641.0	645.0	648.0	649.0	653.0	651.0	652.0
	653.0	654.0	654.0	655.0	655.0	656.0	656.0	656.0	656.0	656.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	658.0	658.0	658.0	658.0	658.0	658.0
	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
	658.0	658.0	658.0	658.0	658.0	658.0	657.0	657.0	657.0	657.0
	657.0	657.0	657.0	657.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0								
0 53	634.0	635.0	637.0	640.0	644.0	647.0	648.0	652.0	650.0	651.0
	652.0	653.0	653.0	654.0	654.0	654.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	657.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
	657.0	657.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0								
0 54	634.0	634.0	637.0	640.0	644.0	647.0	647.0	651.0	650.0	650.0
	651.0	652.0	652.0	653.0	653.0	653.0	653.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0								
0 55	633.0	634.0	636.0	639.0	643.0	646.0	647.0	650.0	649.0	650.0
	650.0	651.0	651.0	652.0	652.0	652.0	652.0	652.0	653.0	653.0
	653.0	653.0	653.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
	652.0	652.0	652.0	652.0	652.0	652.0	653.0	653.0	653.0	653.0
	653.0	653.0	653.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	653.0
	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	652.0
	652.0	652.0								
0 56	633.0	633.0	636.0	639.0	643.0	646.0	647.0	650.0	649.0	649.0
	650.0	650.0	650.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
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	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
	653.0	653.0	653.0	653.0	653.0	653.0	653.0	652.0	652.0	652.0
	652.0	652.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
	651.0	651.0								
0 57	632.0	633.0	635.0	638.0	642.0	645.0	648.0	649.0	648.0	649.0
	649.0	649.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	650.0	650.0	650.0	650.0	649.0	649.0	649.0	649.0	649.0
	649.0	649.0	649.0	649.0	649.0	649.0	650.0	650.0	650.0	650.0
	650.0	651.0	651.0	651.0	651.0	651.0	651.0	652.0	652.0	652.0
	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
	652.0	652.0	652.0	652.0	652.0	651.0	651.0	651.0	651.0	651.0
	651.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	650.0								

0 58	631.0	632.0	635.0	638.0	642.0	645.0	647.0	649.0	648.0	648.0
	648.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	649.0	649.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	649.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	649.0	648.0	648.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	648.0								
0 59	631.0	632.0	634.0	637.0	641.0	644.0	647.0	648.0	648.0	648.0
	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
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	647.0	647.0	647.0	647.0	647.0	647.0	648.0	648.0	648.0	648.0
	648.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	648.0								
0 60	630.0	631.0	634.0	637.0	641.0	644.0	646.0	648.0	648.0	648.0
	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
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	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	647.0								
0 61	630.0	631.0	633.0	637.0	640.0	643.0	646.0	647.0	647.0	647.0
	646.0	646.0	646.0	646.0	646.0	646.0	647.0	647.0	647.0	647.0
	647.0	647.0	647.0	647.0	646.0	646.0	646.0	646.0	646.0	646.0
	646.0	646.0	646.0	646.0	646.0	646.0	646.0	647.0	647.0	647.0
	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
	646.0	646.0								
0 62	629.0	630.0	633.0	636.0	640.0	643.0	645.0	647.0	647.0	646.0
	645.0	645.0	645.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
	646.0	646.0	646.0	647.0	647.0	647.0	647.0	647.0	646.0	646.0
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	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
	646.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0								
0 63	629.0	630.0	632.0	636.0	639.0	642.0	645.0	647.0	647.0	645.0
	644.0	644.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	646.0	646.0
	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
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	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	644.0	644.0								
0 64	628.0	630.0	632.0	636.0	639.0	642.0	644.0	646.0	646.0	644.0
	643.0	644.0	644.0	644.0	644.0	644.0	644.0	645.0	645.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
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	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	643.0	643.0
	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
	643.0	643.0								
0 65	628.0	629.0	632.0	635.0	638.0	641.0	644.0	646.0	646.0	643.0
	642.0	643.0	643.0	643.0	643.0	644.0	644.0	644.0	644.0	644.0
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	643.0	643.0	643.0	643.0	643.0	643.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
	642.0	642.0								
0 66	627.0	629.0	631.0	635.0	638.0	641.0	643.0	645.0	645.0	643.0
	642.0	642.0	642.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
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	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
	641.0	642.0								
0 67	627.0	629.0	631.0	635.0	637.0	640.0	643.0	645.0	645.0	642.0
	641.0	641.0	642.0	642.0	642.0	642.0	643.0	643.0	643.0	643.0
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	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	641.0
	641.0	641.0								

0 68	626.0	628.0	631.0	634.0	636.0	640.0	642.0	644.0	644.0	642.0
	641.0	641.0	641.0	641.0	642.0	642.0	642.0	642.0	642.0	642.0
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	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	640.0
	640.0	640.0								
0 69	626.0	628.0	630.0	634.0	636.0	639.0	642.0	644.0	644.0	641.0
	640.0	640.0	641.0	641.0	641.0	641.0	641.0	642.0	642.0	642.0
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	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	639.0	639.0
	639.0	639.0								
0 70	625.0	627.0	630.0	634.0	636.0	639.0	641.0	643.0	643.0	641.0
	640.0	640.0	640.0	640.0	641.0	641.0	641.0	641.0	641.0	641.0
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	637.0	637.0	637.0	637.0	637.0	638.0	638.0	638.0	638.0	638.0
	638.0	639.0								
0 71	625.0	627.0	630.0	633.0	636.0	638.0	641.0	643.0	643.0	640.0
	640.0	639.0	640.0	640.0	640.0	640.0	640.0	641.0	641.0	641.0
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	638.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	638.0	638.0
	638.0	638.0								
0 72	624.0	626.0	629.0	633.0	636.0	638.0	640.0	642.0	642.0	640.0
	640.0	639.0	639.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
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	637.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	637.0	637.0	637.0	637.0
	638.0	638.0								
0 73	624.0	626.0	629.0	632.0	635.0	637.0	640.0	642.0	642.0	640.0
	639.0	639.0	639.0	639.0	639.0	639.0	640.0	640.0	640.0	640.0
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	639.0	639.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0
	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	637.0	637.0
	637.0	638.0								
0 74	624.0	626.0	629.0	632.0	635.0	636.0	639.0	641.0	641.0	639.0
	639.0	638.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	638.0	638.0
	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	636.0	636.0	637.0
	637.0	638.0								
0 75	623.0	625.0	628.0	631.0	634.0	635.0	639.0	641.0	641.0	639.0
	639.0	638.0	638.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
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	638.0	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0
	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	635.0	635.0	635.0	636.0
	638.0	638.0								
0 76	623.0	625.0	628.0	631.0	634.0	635.0	639.0	640.0	640.0	639.0
	639.0	638.0	638.0	638.0	638.0	639.0	639.0	639.0	638.0	638.0
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	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0
	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	634.0	634.0	634.0	634.0	635.0
	636.0	636.0								
0 77	623.0	625.0	628.0	630.0	633.0	635.0	638.0	640.0	640.0	639.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
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	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	634.0
	634.0	634.0								

0 78	622.0	624.0	627.0	630.0	634.0	635.0	638.0	639.0	639.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
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	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0
	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	633.0	633.0								
0 79	622.0	624.0	627.0	630.0	634.0	636.0	638.0	639.0	639.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0
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	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0 80	622.0	624.0	626.0	630.0	634.0	635.0	637.0	639.0	639.0	638.0
	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0	635.0
	635.0	635.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0
	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0
	631.0	631.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	630.0
	630.0	630.0								
0 81	622.0	624.0	626.0	629.0	634.0	635.0	636.0	638.0	638.0	638.0
	638.0	638.0	638.0	637.0	637.0	637.0	637.0	637.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0
	629.0	629.0								
0 82	621.0	623.0	625.0	629.0	633.0	634.0	636.0	638.0	638.0	638.0
	638.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0
	634.0	634.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0
	632.0	632.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0
	630.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	629.0								
0 83	621.0	623.0	625.0	629.0	632.0	634.0	635.0	638.0	638.0	637.0
	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0
	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0
	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0 84	621.0	623.0	625.0	628.0	631.0	633.0	634.0	636.0	637.0	636.0
	636.0	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0
	631.0	631.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	628.0	628.0								
0 85	620.0	623.0	624.0	628.0	630.0	632.0	633.0	634.0	636.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0
	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	628.0	628.0
	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0 86	620.0	623.0	624.0	628.0	630.0	631.0	632.0	633.0	635.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0
	630.0	630.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0 87	620.0	622.0	623.0	627.0	629.0	630.0	631.0	632.0	634.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	631.0
	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0
	626.0	626.0								

0 88	619.0	622.0	623.0	627.0	628.0	629.0	630.0	631.0	633.0	633.0
	632.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0
	629.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0 89	619.0	622.0	623.0	626.0	628.0	629.0	630.0	631.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	630.0
	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0 90	618.0	622.0	622.0	626.0	627.0	629.0	630.0	630.0	631.0	632.0
	631.0	631.0	631.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0
	628.0	628.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0 91	618.0	622.0	622.0	626.0	627.0	629.0	629.0	630.0	630.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	629.0
	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0
	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0 92	617.0	621.0	622.0	625.0	626.0	629.0	629.0	629.0	630.0	631.0
	630.0	630.0	630.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0
	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0								
0 93	617.0	621.0	621.0	625.0	626.0	628.0	629.0	629.0	629.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0								
0 94	616.0	621.0	621.0	624.0	626.0	628.0	628.0	629.0	629.0	630.0
	629.0	629.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0
	628.0	628.0	628.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0
	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0								
0 95	616.0	620.0	621.0	624.0	625.0	628.0	628.0	628.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0
	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0 96	616.0	620.0	620.0	623.0	625.0	628.0	628.0	628.0	628.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0
	627.0	627.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0	625.0
	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0 97	616.0	620.0	620.0	623.0	624.0	627.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	626.0
	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0
	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0								

0 98	615.0	619.0	620.0	622.0	624.0	627.0	627.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0
	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0								
0 99	615.0	619.0	619.0	622.0	623.0	626.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0								
0100	615.0	618.0	619.0	621.0	623.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0
	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0
	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0								
0101	614.0	618.0	619.0	621.0	622.0	625.0	625.0	625.0	625.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0
	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0								
0102	614.0	617.0	618.0	620.0	622.0	624.0	624.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0
	622.0	622.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0
	619.0	619.0								
0103	614.0	616.0	618.0	620.0	621.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0
	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0								
0104	613.0	616.0	618.0	620.0	621.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0
	618.0	618.0								
0105	613.0	615.0	617.0	619.0	620.0	622.0	622.0	622.0	622.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0								
0106	613.0	615.0	616.0	619.0	620.0	621.0	621.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0								
0107	613.0	614.0	616.0	619.0	619.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0	619.0
	619.0	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0								

0108	612.0	614.0	615.0	618.0	619.0	620.0	620.0	620.0	620.0	620.0
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	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	618.0	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0	616.0
	616.0	616.0								
0109	612.0	613.0	615.0	618.0	618.0	619.0	619.0	619.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0
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	615.0	615.0								
0110	612.0	613.0	614.0	618.0	618.0	618.0	618.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	617.0	617.0	617.0	616.0	616.0	616.0
	616.0	616.0	616.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0								
0111	612.0	612.0	614.0	617.0	617.0	618.0	618.0	618.0	618.0	618.0
	618.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
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	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0	616.0
	615.0	615.0	615.0	615.0	615.0	614.0	614.0	614.0	614.0	614.0
	614.0	614.0								
0112	611.0	612.0	613.0	616.0	617.0	617.0	617.0	617.0	617.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0
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	613.0	613.0								
0113	611.0	611.0	613.0	615.0	616.0	616.0	616.0	616.0	617.0	617.0
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0114	611.0	611.0	612.0	615.0	615.0	615.0	616.0	616.0	616.0	616.0
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	616.0	615.0	615.0	615.0	615.0	615.0	615.0	614.0	614.0	614.0
	614.0	613.0	613.0	613.0	613.0	612.0	612.0	612.0	612.0	612.0
	612.0	612.0								
0115	611.0	611.0	612.0	614.0	614.0	614.0	615.0	615.0	615.0	616.0
	616.0	616.0	616.0	616.0	616.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
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	611.0	611.0								
0116	610.0	611.0	611.0	613.0	613.0	614.0	614.0	614.0	615.0	615.0
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	613.0	612.0	612.0	612.0	611.0	611.0	610.0	610.0	610.0	610.0
	610.0	610.0								
0117	610.0	611.0	611.0	612.0	613.0	613.0	614.0	614.0	614.0	614.0
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0118	610.0	610.0	610.0	612.0	612.0	613.0	613.0	613.0	614.0	614.0
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	612.0	611.0	611.0	611.0	610.0	610.0	609.0	608.0	608.0	609.0
	609.0	609.0								
0119	610.0	610.0	610.0	611.0	612.0	612.0	612.0	613.0	613.0	613.0
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	611.0	611.0	611.0	610.0	610.0	609.0	609.0	608.0	608.0	608.0
	609.0	609.0								
0120	609.0	610.0	610.0	611.0	611.0	612.0	612.0	612.0	613.0	613.0
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	608.0	608.0								
0121	609.0	609.0	610.0	610.0	611.0	611.0	612.0	612.0	612.0	612.0
	613.0	613.0	613.0	613.0	613.0	613.0	613.0	614.0	614.0	614.0
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	608.0	608.0								
0122	609.0	609.0	609.0	610.0	610.0	611.0	611.0	611.0	612.0	612.0
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	608.0	608.0								
0123	609.0	609.0	609.0	610.0	610.0	610.0	611.0	611.0	611.0	612.0
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	608.0	608.0								
0124	608.0	608.0	609.0	609.0	610.0	610.0	610.0	611.0	611.0	611.0
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0125	608.0	608.0	609.0	609.0	609.0	610.0	610.0	610.0	611.0	611.0
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0127	608.0	608.0	608.0	609.0	609.0	609.0	609.0	610.0	610.0	610.0
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0176	591.0	591.0	591.0	591.0	591.0	591.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0								
0177	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0								

0178	590.0	590.0	590.0	590.0	590.0	590.0	591.0	591.0	591.0	591.0
	591.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0								
0179	590.0	589.0	589.0	589.0	590.0	590.0	590.0	590.0	591.0	591.0
	591.0	591.0	591.0	591.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0								
0180	589.0	589.0	589.0	588.0	589.0	589.0	590.0	590.0	590.0	590.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0								
0181	589.0	589.0	588.0	588.0	589.0	589.0	589.0	590.0	590.0	590.0
	590.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0								
0182	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	590.0	590.0
	590.0	590.0	590.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0								
0183	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0								
0184	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0								
0185	588.0	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0
	589.0	589.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0								
0186	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0	589.0	589.0
	589.0	589.0	589.0	589.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0								
0187	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0								

0188	586.0	586.0	586.0	586.0	587.0	587.0	588.0	588.0	588.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0								
0189	585.0	585.0	585.0	586.0	586.0	587.0	588.0	588.0	588.0	588.0
	588.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0								
0190	584.0	584.0	584.0	585.0	585.0	586.0	588.0	588.0	588.0	588.0
	588.0	588.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0								
0191	583.0	583.0	583.0	584.0	584.0	585.0	586.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0								
0192	582.0	582.0	582.0	582.0	583.0	583.0	584.0	585.0	586.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0								
0193	580.0	580.0	580.0	581.0	581.0	582.0	582.0	583.0	584.0	586.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0194	579.0	579.0	579.0	579.0	579.0	580.0	580.0	581.0	581.0	582.0
	583.0	584.0	584.0	584.0	584.0	584.0	585.0	586.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0195	577.0	577.0	577.0	577.0	577.0	578.0	578.0	578.0	578.0	579.0
	579.0	580.0	580.0	580.0	580.0	580.0	581.0	581.0	582.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	584.0	585.0	588.0	588.0
	588.0	588.0	588.0	588.0	585.0	584.0	583.0	583.0	582.0	582.0
	582.0	581.0								
0196	576.0	576.0	576.0	576.0	576.0	575.0	575.0	575.0	575.0	575.0
	576.0	576.0	576.0	576.0	576.0	576.0	577.0	577.0	577.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	579.0	580.0	581.0	581.0
	581.0	581.0	581.0	581.0	579.0	579.0	578.0	577.0	577.0	575.0
	575.0	575.0								
0197	574.0	574.0	574.0	574.0	574.0	573.0	573.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	574.0	574.0	574.0
	575.0	575.0	574.0	574.0	574.0	573.0	573.0	572.0	571.0	568.0
	568.0	568.0								

0198	573.0	573.0	573.0	572.0	572.0	571.0	570.0	570.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	565.0
	564.0	563.0								
0199	572.0	572.0	571.0	571.0	570.0	569.0	568.0	568.0	566.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	564.0	564.0	564.0	564.0
	564.0	565.0	565.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	562.0	562.0	561.0	560.0
	559.0	559.0								
0200	571.0	570.0	570.0	570.0	569.0	568.0	566.0	565.0	563.0	562.0
	562.0	562.0	562.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
	561.0	561.0	561.0	561.0	561.0	561.0	560.0	560.0	560.0	560.0
	560.0	560.0	559.0	559.0	559.0	559.0	560.0	560.0	559.0	559.0
	559.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	557.0	556.0	555.0	554.0
	554.0	553.0								
0201	570.0	569.0	569.0	569.0	568.0	565.0	563.0	561.0	560.0	559.0
	559.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	557.0	557.0	557.0	557.0
	557.0	558.0	558.0	558.0	557.0	557.0	556.0	556.0	556.0	556.0
	556.0	555.0	555.0	555.0	555.0	555.0	556.0	556.0	555.0	555.0
	554.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	552.0	551.0	548.0	548.0
	548.0	548.0								
0202	569.0	569.0	568.0	568.0	564.0	561.0	559.0	557.0	556.0	556.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	554.0	554.0	554.0	554.0	553.0	553.0
	554.0	555.0	555.0	554.0	554.0	553.0	552.0	552.0	552.0	552.0
	552.0	551.0	551.0	550.0	550.0	550.0	553.0	552.0	552.0	550.0
	549.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	544.0	542.0
	542.0	542.0								
0203	568.0	568.0	564.0	561.0	559.0	556.0	554.0	553.0	552.0	552.0
	552.0	552.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	550.0	550.0	549.0	549.0
	550.0	553.0	552.0	551.0	550.0	549.0	548.0	548.0	548.0	548.0
	548.0	547.0	546.0	545.0	544.0	543.0	546.0	546.0	546.0	546.0
	545.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	544.0	544.0	543.0	543.0	543.0	542.0	542.0	541.0	538.0	536.0
	535.0	535.0								
0204	562.0	561.0	558.0	555.0	553.0	551.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	547.0	546.0	545.0	544.0
	543.0	546.0	546.0	546.0	545.0	545.0	544.0	544.0	543.0	543.0
	543.0	542.0	542.0	541.0	540.0	540.0	541.0	541.0	541.0	541.0
	541.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0
	540.0	539.0	539.0	538.0	538.0	537.0	536.0	534.0	532.0	528.0
	528.0	528.0								
0205	556.0	555.0	552.0	548.0	548.0	548.0	545.0	544.0	544.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	542.0	541.0	541.0	540.0
	540.0	540.0	541.0	541.0	540.0	540.0	540.0	539.0	539.0	539.0
	538.0	538.0	537.0	537.0	536.0	536.0	537.0	537.0	537.0	537.0
	537.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
	536.0	535.0	534.0	533.0	533.0	532.0	531.0	528.0	528.0	524.0
	523.0	522.0								
0206	552.0	551.0	548.0	546.0	544.0	543.0	542.0	540.0	539.0	539.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	537.0	537.0	537.0	536.0
	536.0	536.0	535.0	535.0	536.0	536.0	536.0	535.0	534.0	534.0
	533.0	533.0	533.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
	532.0	531.0	530.0	528.0	528.0	528.0	528.0	523.0	521.0	518.0
	516.0	515.0								
0207	549.0	548.0	545.0	542.0	541.0	539.0	537.0	536.0	534.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	532.0	532.0	532.0
	531.0	531.0	530.0	530.0	530.0	533.0	532.0	531.0	530.0	529.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	523.0	521.0	519.0	518.0	516.0	514.0	512.0
	508.0	508.0								

0208	548.0	544.0	541.0	539.0	537.0	535.0	533.0	531.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	527.0	526.0	525.0	524.0	523.0	525.0	526.0	526.0	525.0	525.0
	524.0	523.0	523.0	523.0	522.0	522.0	522.0	522.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	520.0	520.0	520.0	520.0	520.0
	519.0	519.0	518.0	515.0	513.0	508.0	508.0	508.0	508.0	508.0
	501.0	499.0								
0209	540.0	538.0	536.0	535.0	533.0	531.0	528.0	528.0	524.0	522.0
	522.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	520.0	519.0	518.0	518.0	519.0	520.0	521.0	521.0	520.0
	519.0	519.0	518.0	517.0	517.0	516.0	515.0	515.0	515.0	515.0
	515.0	515.0	514.0	514.0	513.0	513.0	512.0	512.0	513.0	512.0
	511.0	510.0	509.0	508.0	508.0	501.0	499.0	498.0	497.0	495.0
	488.0	488.0								
0210	534.0	533.0	532.0	531.0	528.0	528.0	523.0	520.0	517.0	516.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	514.0
	514.0	514.0	513.0	512.0	512.0	512.0	513.0	518.0	517.0	516.0
	515.0	514.0	513.0	512.0	511.0	510.0	509.0	508.0	508.0	508.0
	508.0	508.0	508.0	507.0	506.0	505.0	504.0	503.0	503.0	502.0
	501.0	500.0	499.0	498.0	495.0	488.0	488.0	488.0	488.0	488.0
	468.0	468.0								
0211	528.0	528.0	528.0	528.0	523.0	520.0	516.0	513.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	507.0	506.0	505.0	504.0	503.0	506.0	507.0	506.0
	505.0	504.0	503.0	502.0	501.0	500.0	499.0	498.0	498.0	498.0
	498.0	498.0	498.0	497.0	497.0	496.0	495.0	494.0	493.0	492.0
	491.0	490.0	489.0	488.0	488.0	481.0	478.0	476.0	468.0	468.0
	448.0	448.0								
0212	521.0	521.0	520.0	518.0	515.0	513.0	508.0	508.0	503.0	501.0
	500.0	500.0	499.0	499.0	498.0	498.0	498.0	498.0	498.0	498.0
	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
	498.0	498.0	498.0	498.0	498.0	498.0	498.0	497.0	497.0	496.0
	496.0	495.0	494.0	494.0	493.0	492.0	493.0	498.0	497.0	496.0
	495.0	494.0	493.0	492.0	491.0	490.0	489.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	487.0	486.0	485.0	484.0	483.0
	480.0	479.0	476.0	468.0	468.0	468.0	468.0	468.0	448.0	448.0
	443.0	443.0								
0213	514.0	514.0	512.0	508.0	508.0	508.0	500.0	498.0	494.0	493.0
	492.0	491.0	490.0	489.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	487.0	486.0	485.0
	484.0	483.0	482.0	481.0	480.0	479.0	478.0	478.0	477.0	476.0
	475.0	474.0	473.0	472.0	471.0	470.0	469.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	458.0	448.0	448.0	448.0	448.0	443.0	443.0
	443.0	443.0								
0214	508.0	508.0	508.0	501.0	498.0	496.0	488.0	488.0	483.0	473.0
	472.0	471.0	470.0	469.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	467.0	466.0	465.0
	464.0	463.0	462.0	461.0	460.0	459.0	458.0	458.0	457.0	456.0
	455.0	454.0	453.0	452.0	451.0	450.0	449.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	446.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								
0215	497.0	495.0	488.0	488.0	488.0	488.0	468.0	468.0	466.0	461.0
	458.0	453.0	452.0	451.0	450.0	449.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	447.0	446.0	445.0	449.0	450.0	449.0
	449.0	448.0	448.0	448.0	447.0	447.0	446.0	446.0	446.0	446.0
	445.0	445.0	445.0	445.0	445.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								
0216	488.0	488.0	480.0	476.0	468.0	468.0	458.0	448.0	448.0	446.0
	445.0	447.0	447.0	447.0	446.0	446.0	446.0	446.0	446.0	446.0
	446.0	445.0	445.0	445.0	445.0	445.0	445.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								
0217	468.0	468.0	468.0	468.0	448.0	448.0	448.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
	443.0	443.0								

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0218    455.0     448.0     448.0     448.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0
0219    448.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0
0220    443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0     443.0
        443.0     443.0

 OPENING FILE ON UNIT  99:
 BOTL2.DAT


          ZBOT (BOTTOM ELEVATION)  FOR LAYER   2
 READING ON UNIT  99 WITH FORMAT: (82F9.0)

           1         2         3         4         5         6         7         8         9        10
          11        12        13        14        15        16        17        18        19        20
          21        22        23        24        25        26        27        28        29        30
          31        32        33        34        35        36        37        38        39        40
          41        42        43        44        45        46        47        48        49        50
          51        52        53        54        55        56        57        58        59        60
          61        62        63        64        65        66        67        68        69        70
          71        72        73        74        75        76        77        78        79        80
          81        82
 ..............................................................................................................
0  1    728.0     728.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0
0  2    728.0     726.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
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        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
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        723.0     723.0
0  3    724.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
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        723.0     723.0
0  4    722.0     721.0     721.0     721.0     721.0     722.0     723.0     723.0     723.0     723.0
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        723.0     723.0
0  5    719.0     719.0     719.0     719.0     719.0     719.0     720.0     720.0     720.0     720.0
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        721.0     721.0     721.0     721.0     722.0     723.0     723.0     723.0     723.0     723.0
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	719.0	719.0	719.0	719.0	720.0	720.0	721.0	721.0	721.0	721.0
	721.0	721.0								
0 7	715.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	715.0	715.0	715.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
	716.0	716.0	716.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
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	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
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	719.0	719.0								
0 8	712.0	712.0	712.0	712.0	712.0	711.0	711.0	711.0	711.0	711.0
	712.0	713.0	713.0	713.0	714.0	714.0	714.0	714.0	714.0	714.0
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	716.0	716.0								
0 9	710.0	710.0	710.0	710.0	709.0	708.0	708.0	708.0	708.0	708.0
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	714.0	714.0								
0 10	708.0	708.0	708.0	708.0	708.0	707.0	706.0	706.0	706.0	707.0
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	712.0	712.0								
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	710.0	710.0								
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	708.0	708.0								
0 13	701.0	701.0	701.0	700.0	700.0	700.0	699.0	699.0	699.0	699.0
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	699.0	699.0								
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	694.0	694.0								
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	680.0	680.0	680.0	680.0	680.0	680.0	679.0	679.0	679.0	678.0
	678.0	678.0								
0 24	678.0	678.0	678.0	677.0	677.0	676.0	676.0	675.0	675.0	675.0
	675.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	676.0	676.0	676.0	676.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	676.0
	676.0	676.0								
0 25	676.0	676.0	676.0	675.0	674.0	674.0	673.0	673.0	673.0	673.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
	672.0	672.0	672.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	673.0	673.0	673.0	674.0	674.0	674.0	675.0	675.0
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	674.0	674.0								
0 26	674.0	674.0	674.0	673.0	672.0	672.0	671.0	671.0	670.0	670.0
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	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0	671.0	671.0	671.0	671.0	672.0	672.0	672.0	672.0
	672.0	673.0	673.0	673.0	673.0	673.0	672.0	672.0	672.0	672.0
	672.0	672.0								
0 27	673.0	672.0	672.0	671.0	670.0	669.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
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	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
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	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0								
0 28	671.0	671.0	671.0	670.0	668.0	668.0	668.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
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	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	668.0	668.0	666.0	667.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0								
0 29	670.0	670.0	669.0	669.0	668.0	667.0	667.0	666.0	666.0	666.0
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	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0								
0 30	669.0	669.0	669.0	668.0	667.0	666.0	666.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
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	664.0	664.0	664.0	665.0	665.0	665.0	665.0	665.0	664.0	664.0
	665.0	665.0	665.0	664.0	664.0	664.0	664.0	664.0	664.0	663.0
	663.0	663.0								
0 31	669.0	668.0	668.0	667.0	666.0	665.0	665.0	664.0	664.0	664.0
	664.0	664.0	664.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
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	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
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	663.0	663.0	663.0	663.0	663.0	662.0	662.0	662.0	661.0	661.0
	661.0	661.0								
0 32	668.0	668.0	668.0	666.0	665.0	664.0	664.0	663.0	663.0	663.0
	663.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
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	662.0	661.0	661.0	661.0	661.0	661.0	660.0	660.0	659.0	659.0
	658.0	658.0								
0 33	668.0	668.0	666.0	665.0	664.0	663.0	662.0	662.0	662.0	661.0
	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
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	660.0	660.0	660.0	659.0	659.0	659.0	658.0	658.0	657.0	656.0
	656.0	655.0								
0 34	668.0	668.0	665.0	663.0	662.0	661.0	661.0	661.0	660.0	660.0
	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
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	659.0	659.0	658.0	658.0	657.0	657.0	656.0	656.0	655.0	654.0
	653.0	652.0								
0 35	668.0	664.0	662.0	661.0	660.0	660.0	659.0	659.0	659.0	659.0
	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
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	657.0	657.0	657.0	656.0	656.0	655.0	655.0	654.0	653.0	652.0

	650.0	648.0								
0 36	661.0	659.0	659.0	658.0	658.0	658.0	658.0	658.0	658.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
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	656.0	656.0	655.0	655.0	654.0	654.0	653.0	652.0	651.0	650.0
	648.0	648.0								
0 37	654.0	654.0	655.0	655.0	655.0	656.0	656.0	656.0	656.0	656.0
	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
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	655.0	655.0	654.0	654.0	653.0	652.0	652.0	651.0	649.0	648.0
	648.0	648.0								
0 38	648.0	648.0	651.0	652.0	653.0	654.0	654.0	654.0	655.0	655.0
	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
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	655.0	655.0	655.0	655.0	655.0	655.0	655.0	654.0	654.0	654.0
	654.0	653.0	653.0	652.0	652.0	651.0	650.0	649.0	648.0	648.0
	648.0	648.0								
0 39	645.0	645.0	648.0	650.0	651.0	652.0	652.0	653.0	653.0	653.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
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	653.0	652.0	652.0	651.0	651.0	650.0	649.0	648.0	648.0	647.0
	647.0	647.0								
0 40	640.0	641.0	644.0	648.0	649.0	650.0	651.0	652.0	652.0	652.0
	652.0	652.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
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	653.0	653.0	653.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
	652.0	651.0	651.0	650.0	650.0	649.0	648.0	648.0	647.0	647.0
	647.0	647.0								
0 41	635.0	636.0	639.0	643.0	648.0	649.0	650.0	650.0	651.0	651.0
	651.0	651.0	651.0	651.0	651.0	651.0	652.0	652.0	652.0	652.0
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	651.0	650.0	650.0	650.0	649.0	648.0	648.0	647.0	647.0	647.0
	646.0	646.0								
0 42	628.0	628.0	633.0	638.0	643.0	648.0	649.0	649.0	650.0	650.0
	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
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	650.0	649.0	649.0	649.0	648.0	648.0	647.0	647.0	646.0	646.0
	646.0	646.0								
0 43	626.0	627.0	628.0	633.0	638.0	643.0	648.0	649.0	649.0	649.0
	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
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	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
	649.0	649.0	648.0	648.0	648.0	647.0	646.0	646.0	645.0	645.0
	645.0	645.0								
0 44	623.0	624.0	627.0	628.0	633.0	639.0	643.0	648.0	648.0	648.0
	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
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	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
	648.0	648.0	647.0	647.0	646.0	646.0	645.0	645.0	645.0	644.0
	644.0	644.0								
0 45	618.0	622.0	626.0	627.0	628.0	635.0	639.0	643.0	644.0	645.0
	645.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
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	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
	646.0	646.0	646.0	646.0	645.0	645.0	644.0	644.0	644.0	644.0

	643.0	643.0								
0 46	617.0	621.0	625.0	626.0	627.0	633.0	636.0	639.0	641.0	642.0
	643.0	644.0	644.0	644.0	644.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
	645.0	645.0	645.0	644.0	644.0	644.0	643.0	643.0	643.0	643.0
	642.0	642.0								
0 47	617.0	618.0	624.0	625.0	627.0	632.0	634.0	637.0	639.0	640.0
	641.0	641.0	642.0	642.0	643.0	643.0	643.0	643.0	643.0	643.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
	644.0	643.0	643.0	643.0	643.0	642.0	642.0	642.0	642.0	642.0
	642.0	641.0								
0 48	616.0	617.0	623.0	624.0	627.0	630.0	633.0	636.0	636.0	638.0
	639.0	640.0	640.0	641.0	641.0	641.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	643.0	643.0
	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	642.0	642.0
	642.0	642.0	642.0	642.0	641.0	641.0	641.0	641.0	641.0	641.0
	640.0	640.0								
0 49	616.0	617.0	622.0	623.0	626.0	629.0	631.0	635.0	635.0	636.0
	637.0	638.0	639.0	639.0	640.0	640.0	640.0	640.0	640.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	642.0	641.0	641.0	641.0	641.0	641.0	641.0
	641.0	641.0	641.0	640.0	640.0	640.0	640.0	640.0	640.0	639.0
	639.0	639.0								
0 50	616.0	616.0	621.0	622.0	626.0	629.0	630.0	634.0	633.0	635.0
	636.0	636.0	637.0	638.0	638.0	638.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
	640.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	638.0	638.0
	638.0	638.0								
0 51	615.0	616.0	620.0	621.0	625.0	628.0	630.0	633.0	632.0	633.0
	634.0	635.0	636.0	636.0	637.0	637.0	637.0	637.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
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	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0
	637.0	637.0								
0 52	615.0	615.0	618.0	621.0	625.0	628.0	629.0	633.0	631.0	632.0
	633.0	634.0	634.0	635.0	635.0	636.0	636.0	636.0	636.0	636.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0								
0 53	614.0	615.0	617.0	620.0	624.0	627.0	628.0	632.0	630.0	631.0
	632.0	633.0	633.0	634.0	634.0	634.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0								
0 54	614.0	614.0	617.0	620.0	624.0	627.0	627.0	631.0	630.0	630.0
	631.0	632.0	632.0	633.0	633.0	633.0	633.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0								
0 55	613.0	614.0	616.0	619.0	623.0	626.0	627.0	630.0	629.0	630.0
	630.0	631.0	631.0	632.0	632.0	632.0	632.0	632.0	633.0	633.0
	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0

	632.0	632.0								
0 56	613.0	613.0	616.0	619.0	623.0	626.0	627.0	630.0	629.0	629.0
	630.0	630.0	630.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
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	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0
	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0 57	612.0	613.0	615.0	618.0	622.0	625.0	628.0	629.0	628.0	629.0
	629.0	629.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	630.0	630.0	630.0	630.0
	630.0	631.0	631.0	631.0	631.0	631.0	631.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0
	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0								
0 58	611.0	612.0	615.0	618.0	622.0	625.0	627.0	629.0	628.0	628.0
	628.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	629.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	629.0	628.0	628.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	628.0								
0 59	611.0	612.0	614.0	617.0	621.0	624.0	627.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	628.0	628.0	628.0	628.0
	628.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0 60	610.0	611.0	614.0	617.0	621.0	624.0	626.0	628.0	628.0	628.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0 61	610.0	611.0	613.0	617.0	620.0	623.0	626.0	627.0	627.0	627.0
	626.0	626.0	626.0	626.0	626.0	626.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0 62	609.0	610.0	613.0	616.0	620.0	623.0	625.0	627.0	627.0	626.0
	625.0	625.0	625.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0 63	609.0	610.0	612.0	616.0	619.0	622.0	625.0	627.0	627.0	625.0
	624.0	624.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0								
0 64	608.0	610.0	612.0	616.0	619.0	622.0	624.0	626.0	626.0	624.0
	623.0	624.0	624.0	624.0	624.0	624.0	624.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0 65	608.0	609.0	612.0	615.0	618.0	621.0	624.0	626.0	626.0	623.0
	622.0	623.0	623.0	623.0	623.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0

	622.0	622.0								
0 66	607.0	609.0	611.0	615.0	618.0	621.0	623.0	625.0	625.0	623.0
	622.0	622.0	622.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	622.0								
0 67	607.0	609.0	611.0	615.0	617.0	620.0	623.0	625.0	625.0	622.0
	621.0	621.0	622.0	622.0	622.0	622.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0
	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	621.0
	621.0	621.0								
0 68	606.0	608.0	611.0	614.0	616.0	620.0	622.0	624.0	624.0	622.0
	621.0	621.0	621.0	621.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0
	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	620.0
	620.0	620.0								
0 69	606.0	608.0	610.0	614.0	616.0	619.0	622.0	624.0	624.0	621.0
	620.0	620.0	621.0	621.0	621.0	621.0	621.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0
	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	619.0	619.0
	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	619.0	619.0
	619.0	619.0								
0 70	605.0	607.0	610.0	614.0	616.0	619.0	621.0	623.0	623.0	621.0
	620.0	620.0	620.0	620.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	618.0	618.0	618.0	618.0	618.0
	618.0	619.0								
0 71	605.0	607.0	610.0	613.0	616.0	618.0	621.0	623.0	623.0	620.0
	620.0	619.0	620.0	620.0	620.0	620.0	620.0	621.0	621.0	621.0
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	621.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0
	620.0	620.0	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	618.0	618.0
	618.0	618.0								
0 72	604.0	606.0	609.0	613.0	616.0	618.0	620.0	622.0	622.0	620.0
	620.0	619.0	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
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	619.0	619.0	619.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0
	616.0	616.0	616.0	616.0	616.0	616.0	617.0	617.0	617.0	617.0
	618.0	618.0								
0 73	604.0	606.0	609.0	612.0	615.0	617.0	620.0	622.0	622.0	620.0
	619.0	619.0	619.0	619.0	619.0	619.0	620.0	620.0	620.0	620.0
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	619.0	619.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0	617.0
	617.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	617.0	617.0
	617.0	618.0								
0 74	604.0	606.0	609.0	612.0	615.0	616.0	619.0	621.0	621.0	619.0
	619.0	618.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
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	615.0	615.0	615.0	615.0	615.0	615.0	615.0	616.0	616.0	617.0
	617.0	618.0								
0 75	603.0	605.0	608.0	611.0	614.0	615.0	619.0	621.0	621.0	619.0
	619.0	618.0	618.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
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	618.0	618.0								
0 76	603.0	605.0	608.0	611.0	614.0	615.0	619.0	620.0	620.0	619.0
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	614.0	614.0	613.0	613.0	613.0	614.0	614.0	614.0	614.0	615.0
	616.0	616.0								
0 77	603.0	605.0	608.0	610.0	613.0	615.0	618.0	620.0	620.0	619.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
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	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	614.0
	614.0	614.0								
0 78	602.0	604.0	607.0	610.0	614.0	615.0	618.0	619.0	619.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
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	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
	613.0	613.0								
0 79	602.0	604.0	607.0	610.0	614.0	616.0	618.0	619.0	619.0	618.0
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	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0
	611.0	611.0								
0 80	602.0	604.0	606.0	610.0	614.0	615.0	617.0	619.0	619.0	618.0
	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0	617.0
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	611.0	611.0	610.0	610.0	609.0	609.0	609.0	609.0	609.0	610.0
	610.0	610.0								
0 81	602.0	604.0	606.0	609.0	614.0	615.0	616.0	618.0	618.0	618.0
	618.0	618.0	618.0	617.0	617.0	617.0	617.0	617.0	616.0	616.0
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	610.0	610.0	609.0	609.0	608.0	608.0	608.0	608.0	608.0	608.0
	609.0	609.0								
0 82	601.0	603.0	605.0	609.0	613.0	614.0	616.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0	616.0
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	610.0	609.0	609.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0
	608.0	609.0								
0 83	601.0	603.0	605.0	609.0	612.0	614.0	615.0	618.0	618.0	617.0
	617.0	617.0	616.0	616.0	616.0	616.0	616.0	616.0	615.0	615.0
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	608.0	608.0								
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	608.0	608.0								
0 85	600.0	603.0	604.0	608.0	610.0	612.0	613.0	614.0	616.0	615.0
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	607.0	607.0								
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	608.0	608.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0
	607.0	607.0								
0 87	600.0	602.0	603.0	607.0	609.0	610.0	611.0	612.0	614.0	613.0
	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0
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	607.0	607.0	607.0	607.0	607.0	607.0	606.0	606.0	606.0	606.0
	606.0	606.0								
0 88	599.0	602.0	603.0	607.0	608.0	609.0	610.0	611.0	613.0	613.0
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	606.0	606.0								
0 89	599.0	602.0	603.0	606.0	608.0	609.0	610.0	611.0	612.0	612.0
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	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0
	606.0	606.0								
0 90	598.0	602.0	602.0	606.0	607.0	609.0	610.0	610.0	611.0	612.0
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	606.0	606.0	606.0	606.0	606.0	605.0	605.0	605.0	605.0	605.0
	605.0	605.0								
0 91	598.0	602.0	602.0	606.0	607.0	609.0	609.0	610.0	610.0	611.0
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	604.0	604.0								
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	604.0	604.0								
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	594.0	593.0	593.0	593.0	593.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0								
0115	591.0	591.0	592.0	594.0	594.0	594.0	595.0	595.0	595.0	596.0
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	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0
	597.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	595.0	595.0	595.0
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	591.0	591.0								
0116	590.0	591.0	591.0	593.0	593.0	594.0	594.0	594.0	595.0	595.0
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	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
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	590.0	590.0								
0117	590.0	591.0	591.0	592.0	593.0	593.0	594.0	594.0	594.0	594.0
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	596.0	596.0	596.0	596.0	596.0	596.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	593.0	593.0	593.0	593.0	592.0
	592.0	592.0	591.0	591.0	591.0	590.0	590.0	589.0	588.0	589.0
	589.0	589.0								
0118	590.0	590.0	590.0	592.0	592.0	593.0	593.0	593.0	594.0	594.0
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	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	593.0	593.0	593.0	593.0	593.0	592.0	592.0	592.0
	592.0	591.0	591.0	591.0	590.0	590.0	589.0	588.0	588.0	589.0
	589.0	589.0								
0119	590.0	590.0	590.0	591.0	592.0	592.0	592.0	593.0	593.0	593.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	595.0	595.0	595.0
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	595.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	592.0	592.0	592.0	592.0
	591.0	591.0	591.0	590.0	590.0	589.0	589.0	588.0	588.0	588.0
	589.0	589.0								
0120	589.0	590.0	590.0	591.0	591.0	592.0	592.0	592.0	593.0	593.0
	593.0	593.0	593.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	592.0	592.0	592.0	592.0	592.0	591.0	591.0
	591.0	590.0	590.0	590.0	589.0	589.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0121	589.0	589.0	590.0	590.0	591.0	591.0	592.0	592.0	592.0	592.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	593.0	593.0
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	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
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	590.0	590.0	590.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0122	589.0	589.0	589.0	590.0	590.0	591.0	591.0	591.0	592.0	592.0
	592.0	592.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	592.0	592.0	592.0	592.0	592.0	592.0
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	592.0	592.0	592.0	592.0	592.0	591.0	591.0	591.0	591.0	590.0
	590.0	590.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0123	589.0	589.0	589.0	590.0	590.0	590.0	591.0	591.0	591.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	592.0	592.0	592.0
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	592.0	592.0	591.0	591.0	591.0	591.0	591.0	591.0	590.0	590.0
	590.0	590.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0124	588.0	588.0	589.0	589.0	590.0	590.0	590.0	591.0	591.0	591.0
	591.0	591.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
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	591.0	591.0	591.0	592.0	592.0	591.0	591.0	591.0	591.0	591.0
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	590.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0125	588.0	588.0	589.0	589.0	589.0	590.0	590.0	590.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	590.0	590.0	590.0	590.0	590.0
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	588.0	588.0								
0126	588.0	588.0	588.0	589.0	589.0	589.0	590.0	590.0	590.0	590.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0127	588.0	588.0	588.0	589.0	589.0	589.0	589.0	590.0	590.0	590.0
	590.0	590.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	589.0	589.0
	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0128	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	591.0	591.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	589.0	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
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	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0129	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0	589.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	589.0	589.0	589.0
	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0
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	590.0	590.0	590.0	590.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0130	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0
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	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0131	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0	588.0	588.0
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	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0132	588.0	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
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	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0133	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
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	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0
	587.0	587.0								
0134	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0
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	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0
	587.0	587.0								
0135	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
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	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0

	587.0	587.0								
0136	587.0	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
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	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0
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	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0								
0137	587.0	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
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	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0								
0138	587.0	587.0	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	586.0	586.0
	586.0	586.0								
0139	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0	588.0
	588.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0								
0140	587.0	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0								
0141	587.0	587.0	587.0	587.0	587.0	587.0	587.0	588.0	588.0	587.0
	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0								
0142	586.0	586.0	586.0	586.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0	585.0	585.0
	585.0	585.0								
0143	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0
	584.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0								
0144	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0								
0145	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0	584.0	584.0

	584.0	584.0								
0146	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0								
0147	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0								
0148	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0								
0149	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0								
0150	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0								
0151	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0								
0152	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0								
0153	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0								
0154	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0								
0155	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0

	581.0	581.0								
0156	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0								
0157	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0								
0158	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0								
0159	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0								
0160	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0								
0161	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0								
0162	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0								
0163	577.0	577.0	577.0	577.0	577.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0								
0164	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0								
0165	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0

	578.0	578.0								
0166	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
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	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0								
0167	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0								
0168	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0								
0169	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0								
0170	574.0	574.0	574.0	574.0	574.0	574.0	574.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0								
0171	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0								
0172	573.0	573.0	573.0	573.0	573.0	573.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0								
0173	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0								
0174	572.0	572.0	572.0	572.0	572.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0								
0175	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
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	574.0	574.0								
0176	571.0	571.0	571.0	571.0	571.0	571.0	572.0	572.0	572.0	572.0
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	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0								
0177	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	573.0	573.0	573.0
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	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
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	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0								
0178	570.0	570.0	570.0	570.0	570.0	570.0	571.0	571.0	571.0	571.0
	571.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
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	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0								
0179	570.0	569.0	569.0	569.0	570.0	570.0	570.0	570.0	571.0	571.0
	571.0	571.0	571.0	571.0	572.0	572.0	572.0	572.0	572.0	572.0
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	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0								
0180	569.0	569.0	569.0	568.0	569.0	569.0	570.0	570.0	570.0	570.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	572.0	572.0	572.0
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	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
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	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0								
0181	569.0	569.0	568.0	568.0	569.0	569.0	569.0	570.0	570.0	570.0
	570.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0								
0182	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	570.0	570.0
	570.0	570.0	570.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0								
0183	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0								
0184	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0								
0185	568.0	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0
	569.0	569.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0

	571.0	571.0								
0186	567.0	567.0	567.0	567.0	568.0	568.0	568.0	568.0	569.0	569.0
	569.0	569.0	569.0	569.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0								
0187	567.0	567.0	567.0	567.0	567.0	568.0	568.0	568.0	568.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0								
0188	566.0	566.0	566.0	566.0	567.0	567.0	568.0	568.0	568.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0								
0189	565.0	565.0	565.0	566.0	566.0	567.0	568.0	568.0	568.0	568.0
	568.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0								
0190	564.0	564.0	564.0	565.0	565.0	566.0	568.0	568.0	568.0	568.0
	568.0	568.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0								
0191	563.0	563.0	563.0	564.0	564.0	565.0	566.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0								
0192	562.0	562.0	562.0	562.0	563.0	563.0	564.0	565.0	566.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0								
0193	560.0	560.0	560.0	561.0	561.0	562.0	562.0	563.0	564.0	566.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0194	559.0	559.0	559.0	559.0	559.0	560.0	560.0	561.0	561.0	562.0
	563.0	564.0	564.0	564.0	564.0	564.0	565.0	566.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0195	557.0	557.0	557.0	557.0	557.0	558.0	558.0	558.0	558.0	559.0
	559.0	560.0	560.0	560.0	560.0	560.0	561.0	561.0	562.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	564.0	565.0	568.0	568.0
	568.0	568.0	568.0	568.0	565.0	564.0	563.0	563.0	562.0	562.0

	562.0	561.0								
0196	556.0	556.0	556.0	556.0	556.0	555.0	555.0	555.0	555.0	555.0
	556.0	556.0	556.0	556.0	556.0	556.0	557.0	557.0	557.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	559.0	560.0	561.0	561.0
	561.0	561.0	561.0	561.0	559.0	559.0	558.0	557.0	557.0	555.0
	555.0	555.0								
0197	554.0	554.0	554.0	554.0	554.0	553.0	553.0	552.0	552.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	554.0	554.0	554.0
	555.0	555.0	554.0	554.0	554.0	553.0	553.0	552.0	551.0	548.0
	548.0	548.0								
0198	553.0	553.0	553.0	552.0	552.0	551.0	550.0	550.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	545.0
	544.0	543.0								
0199	552.0	552.0	551.0	551.0	550.0	549.0	548.0	548.0	546.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	544.0	544.0	544.0	544.0
	544.0	545.0	545.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	542.0	542.0	541.0	540.0
	539.0	539.0								
0200	551.0	550.0	550.0	550.0	549.0	548.0	546.0	545.0	543.0	542.0
	542.0	542.0	542.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
	541.0	541.0	541.0	541.0	541.0	541.0	540.0	540.0	540.0	540.0
	540.0	540.0	539.0	539.0	539.0	539.0	540.0	540.0	539.0	539.0
	539.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	537.0	536.0	535.0	534.0
	534.0	533.0								
0201	550.0	549.0	549.0	549.0	548.0	545.0	543.0	541.0	540.0	539.0
	539.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	537.0	537.0	537.0	537.0
	537.0	538.0	538.0	538.0	537.0	537.0	536.0	536.0	536.0	536.0
	536.0	535.0	535.0	535.0	535.0	535.0	536.0	536.0	535.0	535.0
	534.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	532.0	531.0	528.0	528.0
	528.0	528.0								
0202	549.0	549.0	548.0	548.0	544.0	541.0	539.0	537.0	536.0	536.0
	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
	535.0	535.0	535.0	535.0	534.0	534.0	534.0	534.0	533.0	533.0
	534.0	535.0	535.0	534.0	534.0	533.0	532.0	532.0	532.0	532.0
	532.0	531.0	531.0	530.0	530.0	530.0	533.0	532.0	532.0	530.0
	529.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	524.0	522.0
	522.0	522.0								
0203	548.0	548.0	544.0	541.0	539.0	536.0	534.0	533.0	532.0	532.0
	532.0	532.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
	531.0	531.0	531.0	531.0	531.0	531.0	530.0	530.0	529.0	529.0
	530.0	533.0	532.0	531.0	530.0	529.0	528.0	528.0	528.0	528.0
	528.0	527.0	526.0	525.0	524.0	523.0	526.0	526.0	526.0	526.0
	525.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0
	524.0	524.0	523.0	523.0	523.0	522.0	522.0	521.0	518.0	516.0
	515.0	515.0								
0204	542.0	541.0	538.0	535.0	533.0	531.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	527.0	526.0	525.0	524.0
	523.0	526.0	526.0	526.0	525.0	525.0	524.0	524.0	523.0	523.0
	523.0	522.0	522.0	521.0	520.0	520.0	521.0	521.0	521.0	521.0
	521.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
	520.0	519.0	519.0	518.0	518.0	517.0	516.0	514.0	512.0	508.0
	508.0	508.0								
0205	536.0	535.0	532.0	528.0	528.0	528.0	525.0	524.0	524.0	523.0
	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
	523.0	523.0	523.0	523.0	523.0	523.0	522.0	521.0	521.0	520.0
	520.0	520.0	521.0	521.0	520.0	520.0	520.0	519.0	519.0	519.0
	518.0	518.0	517.0	517.0	516.0	516.0	517.0	517.0	517.0	517.0
	517.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0
	516.0	515.0	514.0	513.0	513.0	512.0	511.0	508.0	508.0	504.0

	503.0	502.0								
0206	532.0	531.0	528.0	526.0	524.0	523.0	522.0	520.0	519.0	519.0
	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
	518.0	518.0	518.0	518.0	518.0	518.0	517.0	517.0	517.0	516.0
	516.0	516.0	515.0	515.0	516.0	516.0	516.0	515.0	514.0	514.0
	513.0	513.0	513.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
	512.0	511.0	510.0	508.0	508.0	508.0	508.0	503.0	501.0	498.0
	496.0	495.0								
0207	529.0	528.0	525.0	522.0	521.0	519.0	517.0	516.0	514.0	513.0
	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
	513.0	513.0	513.0	513.0	513.0	513.0	513.0	512.0	512.0	512.0
	511.0	511.0	510.0	510.0	510.0	513.0	512.0	511.0	510.0	509.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	503.0	501.0	499.0	498.0	496.0	494.0	492.0
	488.0	488.0								
0208	529.0	524.0	521.0	519.0	517.0	515.0	513.0	511.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	507.0	506.0	505.0	504.0	503.0	505.0	506.0	506.0	505.0	505.0
	504.0	503.0	503.0	503.0	502.0	502.0	502.0	502.0	501.0	501.0
	501.0	501.0	501.0	501.0	501.0	500.0	500.0	500.0	500.0	500.0
	499.0	499.0	498.0	495.0	493.0	488.0	488.0	488.0	488.0	488.0
	481.0	479.0								
0209	520.0	518.0	516.0	515.0	513.0	511.0	508.0	508.0	504.0	502.0
	502.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0
	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0
	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0
	501.0	500.0	499.0	498.0	498.0	499.0	500.0	501.0	501.0	500.0
	499.0	499.0	498.0	497.0	497.0	496.0	495.0	495.0	495.0	495.0
	495.0	495.0	494.0	494.0	493.0	493.0	492.0	492.0	493.0	492.0
	491.0	490.0	489.0	488.0	488.0	481.0	479.0	478.0	477.0	475.0
	468.0	468.0								
0210	514.0	513.0	512.0	511.0	508.0	508.0	503.0	500.0	497.0	496.0
	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0
	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0
	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	494.0
	494.0	494.0	493.0	492.0	492.0	492.0	493.0	498.0	497.0	496.0
	495.0	494.0	493.0	492.0	491.0	490.0	489.0	488.0	488.0	488.0
	488.0	488.0	488.0	487.0	486.0	485.0	484.0	483.0	483.0	482.0
	481.0	480.0	479.0	478.0	475.0	468.0	468.0	468.0	468.0	468.0
	448.0	448.0								
0211	508.0	508.0	508.0	508.0	503.0	500.0	496.0	493.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	487.0	486.0	485.0	484.0	483.0	486.0	487.0	486.0
	485.0	484.0	483.0	482.0	481.0	480.0	479.0	478.0	478.0	478.0
	478.0	478.0	478.0	477.0	477.0	476.0	475.0	474.0	473.0	472.0
	471.0	470.0	469.0	468.0	468.0	461.0	458.0	456.0	448.0	448.0
	428.0	428.0								
0212	501.0	501.0	500.0	498.0	495.0	493.0	488.0	488.0	483.0	481.0
	480.0	480.0	479.0	479.0	478.0	478.0	478.0	478.0	478.0	478.0
	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0
	478.0	478.0	478.0	478.0	478.0	478.0	478.0	477.0	477.0	476.0
	476.0	475.0	474.0	474.0	473.0	472.0	473.0	478.0	477.0	476.0
	475.0	474.0	473.0	472.0	471.0	470.0	469.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	467.0	466.0	465.0	464.0	463.0
	460.0	459.0	456.0	448.0	448.0	448.0	448.0	448.0	428.0	428.0
	423.0	423.0								
0213	494.0	494.0	492.0	488.0	488.0	488.0	480.0	478.0	474.0	473.0
	472.0	471.0	470.0	469.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	467.0	466.0	465.0
	464.0	463.0	462.0	461.0	460.0	459.0	458.0	458.0	457.0	456.0
	455.0	454.0	453.0	452.0	451.0	450.0	449.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	438.0	428.0	428.0	428.0	428.0	423.0	423.0
	423.0	423.0								
0214	488.0	488.0	488.0	481.0	478.0	476.0	468.0	468.0	463.0	453.0
	452.0	451.0	450.0	449.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	447.0	446.0	445.0
	444.0	443.0	442.0	441.0	440.0	439.0	438.0	438.0	437.0	436.0
	435.0	434.0	433.0	432.0	431.0	430.0	429.0	428.0	428.0	428.0
	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
	428.0	428.0	428.0	428.0	426.0	423.0	423.0	423.0	423.0	423.0
	423.0	423.0								
0215	477.0	475.0	468.0	468.0	468.0	468.0	448.0	448.0	446.0	441.0
	438.0	433.0	432.0	431.0	430.0	429.0	428.0	428.0	428.0	428.0
	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
	428.0	428.0	428.0	428.0	427.0	426.0	425.0	429.0	430.0	429.0
	429.0	428.0	428.0	428.0	427.0	427.0	426.0	426.0	426.0	426.0
	425.0	425.0	425.0	425.0	425.0	423.0	423.0	423.0	423.0	423.0
	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0

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        423.0     423.0
0216    468.0     468.0     460.0     456.0     448.0     448.0     438.0     428.0     428.0     426.0
        425.0     427.0     427.0     427.0     426.0     426.0     426.0     426.0     426.0     426.0
        426.0     425.0     425.0     425.0     425.0     425.0     425.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0217    448.0     448.0     448.0     448.0     428.0     428.0     428.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0218    435.0     428.0     428.0     428.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0219    428.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0220    423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0

OPENING FILE ON UNIT  99:
BOTL2.DAT


          ZTOP (TOP ELEVATION)     FOR LAYER   3
READING ON UNIT  99 WITH FORMAT: (82F9.0)

          1         2         3         4         5         6         7         8         9        10
         11        12        13        14        15        16        17        18        19        20
         21        22        23        24        25        26        27        28        29        30
         31        32        33        34        35        36        37        38        39        40
         41        42        43        44        45        46        47        48        49        50
         51        52        53        54        55        56        57        58        59        60
         61        62        63        64        65        66        67        68        69        70
         71        72        73        74        75        76        77        78        79        80
         81        82
 ..............................................................................................................
0  1    728.0     728.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0
0  2    728.0     726.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0
0  3    724.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
        723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0     723.0
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	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0								
0 4	722.0	721.0	721.0	721.0	721.0	722.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0								
0 5	719.0	719.0	719.0	719.0	719.0	719.0	720.0	720.0	720.0	720.0
	720.0	720.0	720.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
	721.0	721.0	721.0	721.0	722.0	723.0	723.0	723.0	723.0	723.0
	723.0	723.0								
0 6	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	719.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
	719.0	719.0	719.0	719.0	720.0	720.0	721.0	721.0	721.0	721.0
	721.0	721.0								
0 7	715.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	715.0	715.0	715.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
	716.0	716.0	716.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
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	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0
	717.0	717.0	717.0	717.0	718.0	718.0	718.0	718.0	718.0	719.0
	719.0	719.0								
0 8	712.0	712.0	712.0	712.0	712.0	711.0	711.0	711.0	711.0	711.0
	712.0	713.0	713.0	713.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	715.0	715.0
	715.0	715.0	715.0	715.0	715.0	716.0	716.0	716.0	716.0	716.0
	716.0	716.0								
0 9	710.0	710.0	710.0	710.0	709.0	708.0	708.0	708.0	708.0	708.0
	710.0	710.0	710.0	711.0	711.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
	712.0	713.0	713.0	713.0	713.0	713.0	714.0	714.0	714.0	714.0
	714.0	714.0								
0 10	708.0	708.0	708.0	708.0	708.0	707.0	706.0	706.0	706.0	707.0
	708.0	708.0	708.0	708.0	709.0	710.0	711.0	709.0	709.0	709.0
	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0
	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0
	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0
	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0
	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0	710.0
	710.0	710.0	710.0	710.0	711.0	711.0	712.0	712.0	712.0	712.0
	712.0	712.0								
0 11	706.0	706.0	705.0	705.0	705.0	705.0	704.0	704.0	704.0	704.0
	705.0	705.0	705.0	706.0	706.0	706.0	706.0	705.0	706.0	707.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0	708.0	708.0	708.0	709.0	710.0	710.0	710.0	710.0
	710.0	710.0								
0 12	703.0	703.0	703.0	703.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	703.0	703.0	703.0	703.0	703.0	703.0	704.0	704.0
	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
	705.0	705.0	705.0	705.0	705.0	705.0	705.0	706.0	706.0	706.0
	706.0	706.0	706.0	706.0	706.0	708.0	708.0	708.0	708.0	708.0
	708.0	708.0								
0 13	701.0	701.0	701.0	700.0	700.0	700.0	699.0	699.0	699.0	699.0
	699.0	700.0	700.0	700.0	700.0	701.0	701.0	701.0	701.0	701.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
	702.0	702.0	702.0	702.0	702.0	702.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0

	703.0	703.0	703.0	703.0	704.0	704.0	704.0	704.0	704.0	704.0
	704.0	704.0								
0 14	698.0	698.0	698.0	698.0	698.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	698.0	698.0	698.0	698.0	698.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
	700.0	700.0	700.0	700.0	700.0	700.0	700.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	700.0	700.0	699.0
	699.0	699.0								
0 15	696.0	696.0	696.0	696.0	695.0	695.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	695.0	695.0	695.0	695.0	695.0	696.0	696.0
	696.0	696.0	696.0	696.0	696.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0
	698.0	698.0	698.0	698.0	698.0	698.0	698.0	697.0	696.0	695.0
	694.0	694.0								
0 16	694.0	694.0	694.0	693.0	693.0	692.0	691.0	691.0	691.0	691.0
	691.0	691.0	691.0	692.0	692.0	693.0	693.0	693.0	693.0	693.0
	693.0	693.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	695.0	695.0	696.0	696.0	696.0
	696.0	696.0	696.0	696.0	696.0	695.0	695.0	693.0	692.0	691.0
	688.0	690.0								
0 17	692.0	692.0	692.0	691.0	690.0	690.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	689.0	690.0	691.0	690.0	689.0	690.0	690.0
	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0
	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0
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	692.0	692.0	692.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
	693.0	694.0	694.0	694.0	693.0	693.0	692.0	690.0	688.0	688.0
	688.0	688.0								
0 18	691.0	690.0	690.0	689.0	688.0	688.0	687.0	687.0	686.0	686.0
	686.0	686.0	686.0	687.0	687.0	687.0	685.0	686.0	687.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
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	689.0	689.0	690.0	690.0	690.0	690.0	690.0	691.0	691.0	691.0
	691.0	691.0	691.0	691.0	691.0	691.0	690.0	688.0	687.0	687.0
	687.0	687.0								
0 19	689.0	689.0	688.0	688.0	687.0	686.0	685.0	685.0	685.0	685.0
	684.0	684.0	685.0	685.0	685.0	685.0	684.0	684.0	685.0	685.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	686.0	686.0	687.0	687.0	687.0
	685.0	686.0	687.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	689.0	690.0	690.0	689.0	689.0	688.0	687.0	686.0	686.0
	685.0	685.0								
0 20	688.0	688.0	686.0	686.0	685.0	684.0	684.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	682.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	684.0	684.0	684.0	684.0	684.0	684.0
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	684.0	684.0	685.0	685.0	685.0	686.0	686.0	686.0	686.0	686.0
	687.0	688.0	688.0	688.0	688.0	688.0	686.0	685.0	684.0	684.0
	684.0	684.0								
0 21	685.0	685.0	684.0	684.0	683.0	682.0	682.0	681.0	681.0	681.0
	681.0	681.0	681.0	681.0	681.0	680.0	680.0	681.0	681.0	681.0
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	682.0	682.0	682.0	683.0	683.0	683.0	683.0	684.0	684.0	684.0
	684.0	685.0	685.0	685.0	685.0	685.0	684.0	683.0	683.0	682.0
	682.0	682.0								
0 22	683.0	682.0	682.0	681.0	681.0	680.0	680.0	679.0	679.0	679.0
	679.0	679.0	679.0	678.0	678.0	678.0	678.0	679.0	679.0	679.0
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	682.0	682.0	682.0	682.0	682.0	682.0	682.0	681.0	681.0	680.0
	680.0	680.0								
0 23	680.0	680.0	680.0	679.0	679.0	678.0	678.0	677.0	677.0	677.0
	677.0	677.0	676.0	676.0	676.0	676.0	676.0	676.0	677.0	677.0
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	677.0	678.0	678.0	678.0	678.0	678.0	679.0	679.0	679.0	679.0

	680.0	680.0	680.0	680.0	680.0	680.0	679.0	679.0	679.0	678.0
	678.0	678.0								
0 24	678.0	678.0	678.0	677.0	677.0	676.0	676.0	675.0	675.0	675.0
	675.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
	675.0	675.0	675.0	676.0	676.0	676.0	676.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	676.0
	676.0	676.0								
0 25	676.0	676.0	676.0	675.0	674.0	674.0	673.0	673.0	673.0	673.0
	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0	672.0
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	673.0	673.0	673.0	673.0	673.0	674.0	674.0	674.0	675.0	675.0
	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	674.0	674.0
	674.0	674.0								
0 26	674.0	674.0	674.0	673.0	672.0	672.0	671.0	671.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
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	670.0	670.0	671.0	671.0	671.0	671.0	672.0	672.0	672.0	672.0
	672.0	673.0	673.0	673.0	673.0	673.0	672.0	672.0	672.0	672.0
	672.0	672.0								
0 27	673.0	672.0	672.0	671.0	670.0	669.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
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	668.0	668.0	668.0	668.0	668.0	669.0	670.0	671.0	670.0	670.0
	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.0
	670.0	670.0								
0 28	671.0	671.0	671.0	670.0	668.0	668.0	668.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
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	667.0	667.0	667.0	667.0	667.0	667.0	668.0	668.0	666.0	667.0
	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
	668.0	668.0								
0 29	670.0	670.0	669.0	669.0	668.0	667.0	667.0	666.0	666.0	666.0
	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
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	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0	666.0
	666.0	666.0								
0 30	669.0	669.0	669.0	668.0	667.0	666.0	666.0	665.0	665.0	665.0
	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	665.0	664.0
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	665.0	665.0	665.0	664.0	664.0	664.0	664.0	664.0	664.0	663.0
	663.0	663.0								
0 31	669.0	668.0	668.0	667.0	666.0	665.0	665.0	664.0	664.0	664.0
	664.0	664.0	664.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
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	663.0	663.0	663.0	663.0	663.0	662.0	662.0	662.0	661.0	661.0
	661.0	661.0								
0 32	668.0	668.0	668.0	666.0	665.0	664.0	664.0	663.0	663.0	663.0
	663.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
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	662.0	661.0	661.0	661.0	661.0	661.0	660.0	660.0	659.0	659.0
	658.0	658.0								
0 33	668.0	668.0	666.0	665.0	664.0	663.0	662.0	662.0	662.0	661.0
	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
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	660.0	660.0	660.0	659.0	659.0	659.0	658.0	658.0	657.0	656.0
	656.0	655.0								
0 34	668.0	668.0	665.0	663.0	662.0	661.0	661.0	661.0	660.0	660.0
	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
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	659.0	659.0	658.0	658.0	657.0	657.0	656.0	656.0	655.0	654.0
	653.0	652.0								
0 35	668.0	664.0	662.0	661.0	660.0	660.0	659.0	659.0	659.0	659.0
	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
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	657.0	657.0	657.0	656.0	656.0	655.0	655.0	654.0	653.0	652.0
	650.0	648.0								
0 36	661.0	659.0	659.0	658.0	658.0	658.0	658.0	658.0	658.0	657.0
	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
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	656.0	656.0	655.0	655.0	654.0	654.0	653.0	652.0	651.0	650.0
	648.0	648.0								
0 37	654.0	654.0	655.0	655.0	655.0	656.0	656.0	656.0	656.0	656.0
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	655.0	655.0	654.0	654.0	653.0	652.0	652.0	651.0	649.0	648.0
	648.0	648.0								
0 38	648.0	648.0	651.0	652.0	653.0	654.0	654.0	654.0	655.0	655.0
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	654.0	653.0	653.0	652.0	652.0	651.0	650.0	649.0	648.0	648.0
	648.0	648.0								
0 39	645.0	645.0	648.0	650.0	651.0	652.0	652.0	653.0	653.0	653.0
	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
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	653.0	652.0	652.0	651.0	651.0	650.0	649.0	648.0	648.0	647.0
	647.0	647.0								
0 40	640.0	641.0	644.0	648.0	649.0	650.0	651.0	652.0	652.0	652.0
	652.0	652.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
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	652.0	651.0	651.0	650.0	650.0	649.0	648.0	648.0	647.0	647.0
	647.0	647.0								
0 41	635.0	636.0	639.0	643.0	648.0	649.0	650.0	650.0	651.0	651.0
	651.0	651.0	651.0	651.0	651.0	651.0	652.0	652.0	652.0	652.0
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	651.0	650.0	650.0	650.0	649.0	648.0	648.0	647.0	647.0	647.0
	646.0	646.0								
0 42	628.0	628.0	633.0	638.0	643.0	648.0	649.0	649.0	650.0	650.0
	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0
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	650.0	649.0	649.0	649.0	648.0	648.0	647.0	647.0	646.0	646.0
	646.0	646.0								
0 43	626.0	627.0	628.0	633.0	638.0	643.0	648.0	649.0	649.0	649.0
	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
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	649.0	649.0	648.0	648.0	648.0	647.0	646.0	646.0	645.0	645.0
	645.0	645.0								
0 44	623.0	624.0	627.0	628.0	633.0	639.0	643.0	648.0	648.0	648.0
	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
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	648.0	648.0	647.0	647.0	646.0	646.0	645.0	645.0	645.0	644.0
	644.0	644.0								
0 45	618.0	622.0	626.0	627.0	628.0	635.0	639.0	643.0	644.0	645.0
	645.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
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	646.0	646.0	646.0	646.0	645.0	645.0	644.0	644.0	644.0	644.0
	643.0	643.0								
0 46	617.0	621.0	625.0	626.0	627.0	633.0	636.0	639.0	641.0	642.0
	643.0	644.0	644.0	644.0	644.0	645.0	645.0	645.0	645.0	645.0
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	645.0	645.0	645.0	644.0	644.0	644.0	643.0	643.0	643.0	643.0
	642.0	642.0								
0 47	617.0	618.0	624.0	625.0	627.0	632.0	634.0	637.0	639.0	640.0
	641.0	641.0	642.0	642.0	643.0	643.0	643.0	643.0	643.0	643.0
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	644.0	643.0	643.0	643.0	643.0	642.0	642.0	642.0	642.0	642.0
	642.0	641.0								
0 48	616.0	617.0	623.0	624.0	627.0	630.0	633.0	636.0	636.0	638.0
	639.0	640.0	640.0	641.0	641.0	641.0	642.0	642.0	642.0	642.0
	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
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	642.0	642.0	642.0	642.0	641.0	641.0	641.0	641.0	641.0	641.0
	640.0	640.0								
0 49	616.0	617.0	622.0	623.0	626.0	629.0	631.0	635.0	635.0	636.0
	637.0	638.0	639.0	639.0	640.0	640.0	640.0	640.0	640.0	641.0
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	641.0	641.0	641.0	640.0	640.0	640.0	640.0	640.0	640.0	639.0
	639.0	639.0								
0 50	616.0	616.0	621.0	622.0	626.0	629.0	630.0	634.0	633.0	635.0
	636.0	636.0	637.0	638.0	638.0	638.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
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	640.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	638.0	638.0
	638.0	638.0								
0 51	615.0	616.0	620.0	621.0	625.0	628.0	630.0	633.0	632.0	633.0
	634.0	635.0	636.0	636.0	637.0	637.0	637.0	637.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0
	637.0	637.0								
0 52	615.0	615.0	618.0	621.0	625.0	628.0	629.0	633.0	631.0	632.0
	633.0	634.0	634.0	635.0	635.0	636.0	636.0	636.0	636.0	636.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0								
0 53	614.0	615.0	617.0	620.0	624.0	627.0	628.0	632.0	630.0	631.0
	632.0	633.0	633.0	634.0	634.0	634.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0

	636.0	636.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0								
0 54	614.0	614.0	617.0	620.0	624.0	627.0	627.0	631.0	630.0	630.0
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	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0								
0 55	613.0	614.0	616.0	619.0	623.0	626.0	627.0	630.0	629.0	630.0
	630.0	631.0	631.0	632.0	632.0	632.0	632.0	632.0	633.0	633.0
	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0
	632.0	632.0								
0 56	613.0	613.0	616.0	619.0	623.0	626.0	627.0	630.0	629.0	629.0
	630.0	630.0	630.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	632.0	632.0	632.0	632.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	632.0	632.0	632.0
	632.0	632.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	631.0								
0 57	612.0	613.0	615.0	618.0	622.0	625.0	628.0	629.0	628.0	629.0
	629.0	629.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	630.0	630.0	630.0	630.0
	630.0	631.0	631.0	631.0	631.0	631.0	631.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0
	631.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0								
0 58	611.0	612.0	615.0	618.0	622.0	625.0	627.0	629.0	628.0	628.0
	628.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	629.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	629.0	628.0	628.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	628.0								
0 59	611.0	612.0	614.0	617.0	621.0	624.0	627.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	628.0	628.0	628.0	628.0
	628.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0								
0 60	610.0	611.0	614.0	617.0	621.0	624.0	626.0	628.0	628.0	628.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0								
0 61	610.0	611.0	613.0	617.0	620.0	623.0	626.0	627.0	627.0	627.0
	626.0	626.0	626.0	626.0	626.0	626.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0								
0 62	609.0	610.0	613.0	616.0	620.0	623.0	625.0	627.0	627.0	626.0
	625.0	625.0	625.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	627.0	627.0	627.0	627.0	627.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0								
0 63	609.0	610.0	612.0	616.0	619.0	622.0	625.0	627.0	627.0	625.0
	624.0	624.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	626.0	626.0
	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	626.0	626.0	626.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0

	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0								
0 64	608.0	610.0	612.0	616.0	619.0	622.0	624.0	626.0	626.0	624.0
	623.0	624.0	624.0	624.0	624.0	624.0	624.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
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	625.0	625.0	625.0	625.0	625.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0								
0 65	608.0	609.0	612.0	615.0	618.0	621.0	624.0	626.0	626.0	623.0
	622.0	623.0	623.0	623.0	623.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0								
0 66	607.0	609.0	611.0	615.0	618.0	621.0	623.0	625.0	625.0	623.0
	622.0	622.0	622.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	622.0								
0 67	607.0	609.0	611.0	615.0	617.0	620.0	623.0	625.0	625.0	622.0
	621.0	621.0	622.0	622.0	622.0	622.0	623.0	623.0	623.0	623.0
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	623.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0	621.0	621.0
	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	621.0
	621.0	621.0								
0 68	606.0	608.0	611.0	614.0	616.0	620.0	622.0	624.0	624.0	622.0
	621.0	621.0	621.0	621.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
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	623.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0
	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	620.0
	620.0	620.0								
0 69	606.0	608.0	610.0	614.0	616.0	619.0	622.0	624.0	624.0	621.0
	620.0	620.0	621.0	621.0	621.0	621.0	621.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	621.0
	621.0	621.0	621.0	621.0	620.0	620.0	620.0	620.0	619.0	619.0
	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	619.0	619.0
	619.0	619.0								
0 70	605.0	607.0	610.0	614.0	616.0	619.0	621.0	623.0	623.0	621.0
	620.0	620.0	620.0	620.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	618.0	618.0	618.0	618.0	618.0
	618.0	619.0								
0 71	605.0	607.0	610.0	613.0	616.0	618.0	621.0	623.0	623.0	620.0
	620.0	619.0	620.0	620.0	620.0	620.0	620.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
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	621.0	621.0	621.0	621.0	621.0	621.0	621.0	620.0	620.0	620.0
	620.0	620.0	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	618.0	618.0
	618.0	618.0								
0 72	604.0	606.0	609.0	613.0	616.0	618.0	620.0	622.0	622.0	620.0
	620.0	619.0	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0
	619.0	619.0	619.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0
	616.0	616.0	616.0	616.0	616.0	616.0	617.0	617.0	617.0	617.0
	618.0	618.0								
0 73	604.0	606.0	609.0	612.0	615.0	617.0	620.0	622.0	622.0	620.0
	619.0	619.0	619.0	619.0	619.0	619.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
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0 74	604.0	606.0	609.0	612.0	615.0	616.0	619.0	621.0	621.0	619.0
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	616.0	616.0	616.0	616.0	616.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0	615.0	615.0	615.0	615.0	615.0	616.0	616.0	617.0
	617.0	618.0								
0 75	603.0	605.0	608.0	611.0	614.0	615.0	619.0	621.0	621.0	619.0
	619.0	618.0	618.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	618.0	618.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0
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	614.0	614.0	614.0	614.0	614.0	614.0	615.0	615.0	615.0	616.0
	618.0	618.0								
0 76	603.0	605.0	608.0	611.0	614.0	615.0	619.0	620.0	620.0	619.0
	619.0	618.0	618.0	618.0	618.0	619.0	619.0	619.0	618.0	618.0
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	615.0	615.0	615.0	615.0	614.0	614.0	614.0	614.0	614.0	614.0
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	616.0	616.0								
0 77	603.0	605.0	608.0	610.0	613.0	615.0	618.0	620.0	620.0	619.0
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	614.0	614.0	614.0	614.0	614.0	614.0	614.0	613.0	613.0	613.0
	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	614.0
	614.0	614.0								
0 78	602.0	604.0	607.0	610.0	614.0	615.0	618.0	619.0	619.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
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	614.0	614.0	614.0	613.0	613.0	613.0	613.0	613.0	613.0	612.0
	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
	613.0	613.0								
0 79	602.0	604.0	607.0	610.0	614.0	616.0	618.0	619.0	619.0	618.0
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	611.0	611.0								
0 80	602.0	604.0	606.0	610.0	614.0	615.0	617.0	619.0	619.0	618.0
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	610.0	610.0								
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	609.0	609.0								
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	608.0	609.0								
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	608.0	608.0								
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	607.0	607.0								
0 86	600.0	603.0	604.0	608.0	610.0	611.0	612.0	613.0	615.0	614.0
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	607.0	607.0								
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	606.0	606.0								
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	606.0	606.0								
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	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0
	606.0	606.0								
0 90	598.0	602.0	602.0	606.0	607.0	609.0	610.0	610.0	611.0	612.0
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	606.0	606.0	606.0	606.0	606.0	605.0	605.0	605.0	605.0	605.0
	605.0	605.0								
0 91	598.0	602.0	602.0	606.0	607.0	609.0	609.0	610.0	610.0	611.0
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	606.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0
	605.0	605.0								
0 92	597.0	601.0	602.0	605.0	606.0	609.0	609.0	609.0	610.0	611.0
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	604.0	604.0								
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	604.0	604.0								
0 94	596.0	601.0	601.0	604.0	606.0	608.0	608.0	609.0	609.0	610.0
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	603.0	603.0								
0 95	596.0	600.0	601.0	604.0	605.0	608.0	608.0	608.0	609.0	609.0
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	603.0	603.0								
0 96	596.0	600.0	600.0	603.0	605.0	608.0	608.0	608.0	608.0	609.0
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	602.0	602.0								
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0102	594.0	597.0	598.0	600.0	602.0	604.0	604.0	605.0	605.0	605.0
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0103	594.0	596.0	598.0	600.0	601.0	604.0	604.0	604.0	604.0	604.0
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0104	593.0	596.0	598.0	600.0	601.0	603.0	603.0	603.0	603.0	603.0
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0105	593.0	595.0	597.0	599.0	600.0	602.0	602.0	602.0	602.0	603.0
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0106	593.0	595.0	596.0	599.0	600.0	601.0	601.0	602.0	602.0	602.0
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0107	593.0	594.0	596.0	599.0	599.0	601.0	601.0	601.0	601.0	601.0
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0108	592.0	594.0	595.0	598.0	599.0	600.0	600.0	600.0	600.0	600.0
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0109	592.0	593.0	595.0	598.0	598.0	599.0	599.0	599.0	600.0	600.0
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0110	592.0	593.0	594.0	598.0	598.0	598.0	598.0	599.0	599.0	599.0
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0111	592.0	592.0	594.0	597.0	597.0	598.0	598.0	598.0	598.0	598.0
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0117	590.0	591.0	591.0	592.0	593.0	593.0	594.0	594.0	594.0	594.0
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	589.0	589.0								
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	589.0	589.0								
0119	590.0	590.0	590.0	591.0	592.0	592.0	592.0	593.0	593.0	593.0
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	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
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	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	592.0	592.0	592.0	592.0
	591.0	591.0	591.0	590.0	590.0	589.0	589.0	588.0	588.0	588.0
	589.0	589.0								
0120	589.0	590.0	590.0	591.0	591.0	592.0	592.0	592.0	593.0	593.0
	593.0	593.0	593.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	592.0	592.0	592.0	592.0	592.0	591.0	591.0
	591.0	590.0	590.0	590.0	589.0	589.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0121	589.0	589.0	590.0	590.0	591.0	591.0	592.0	592.0	592.0	592.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	591.0	591.0	591.0
	590.0	590.0	590.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0122	589.0	589.0	589.0	590.0	590.0	591.0	591.0	591.0	592.0	592.0
	592.0	592.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	591.0	591.0	591.0	591.0	590.0
	590.0	590.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0123	589.0	589.0	589.0	590.0	590.0	590.0	591.0	591.0	591.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	591.0	591.0	591.0	591.0	591.0	591.0	590.0	590.0

	590.0	590.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0124	588.0	588.0	589.0	589.0	590.0	590.0	590.0	591.0	591.0	591.0
	591.0	591.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	592.0	592.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	590.0	590.0	590.0
	590.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0125	588.0	588.0	589.0	589.0	589.0	590.0	590.0	590.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	590.0	590.0	590.0	590.0	590.0
	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0126	588.0	588.0	588.0	589.0	589.0	589.0	590.0	590.0	590.0	590.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0127	588.0	588.0	588.0	589.0	589.0	589.0	589.0	590.0	590.0	590.0
	590.0	590.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	589.0	589.0
	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0128	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	591.0	591.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	589.0	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0129	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0	589.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	589.0	589.0	589.0
	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0130	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0131	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0132	588.0	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0133	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0	588.0

	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0
	587.0	587.0								
0134	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0
	587.0	587.0								
0135	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
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	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0								
0136	587.0	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0
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	587.0	587.0	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0								
0137	587.0	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
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	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0								
0138	587.0	587.0	587.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
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	587.0	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	586.0	586.0
	586.0	586.0								
0139	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0	588.0
	588.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
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	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
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	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0								
0140	587.0	587.0	587.0	587.0	587.0	587.0	588.0	588.0	588.0	588.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	586.0	586.0
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	587.0	587.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0								
0141	587.0	587.0	587.0	587.0	587.0	587.0	587.0	588.0	588.0	587.0
	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0	585.0
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	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0								
0142	586.0	586.0	586.0	586.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0	585.0	585.0
	585.0	585.0								
0143	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0
	584.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0

	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0								
0144	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0								
0145	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0	584.0	584.0
	584.0	584.0								
0146	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0								
0147	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0								
0148	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0								
0149	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0								
0150	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0								
0151	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0								
0152	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0								
0153	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0

	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0								
0154	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0								
0155	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0								
0156	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0								
0157	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0								
0158	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0								
0159	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0								
0160	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0								
0161	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0								
0162	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0								
0163	577.0	577.0	577.0	577.0	577.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0

	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0								
0164	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0								
0165	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0								
0166	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0								
0167	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0								
0168	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0								
0169	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0								
0170	574.0	574.0	574.0	574.0	574.0	574.0	574.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0								
0171	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0								
0172	573.0	573.0	573.0	573.0	573.0	573.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0								
0173	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0

	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0								
0174	572.0	572.0	572.0	572.0	572.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0								
0175	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0								
0176	571.0	571.0	571.0	571.0	571.0	571.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0								
0177	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0								
0178	570.0	570.0	570.0	570.0	570.0	570.0	571.0	571.0	571.0	571.0
	571.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0								
0179	570.0	569.0	569.0	569.0	570.0	570.0	570.0	570.0	571.0	571.0
	571.0	571.0	571.0	571.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0								
0180	569.0	569.0	569.0	568.0	569.0	569.0	570.0	570.0	570.0	570.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
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	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0								
0181	569.0	569.0	568.0	568.0	569.0	569.0	569.0	570.0	570.0	570.0
	570.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
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	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
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	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	573.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0								
0182	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	570.0	570.0
	570.0	570.0	570.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
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	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0								
0183	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	571.0	571.0	571.0	571.0
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	571.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0

	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0								
0184	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	571.0
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	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0								
0185	568.0	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0
	569.0	569.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	571.0	571.0	571.0	571.0	571.0	571.0
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	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0								
0186	567.0	567.0	567.0	567.0	568.0	568.0	568.0	568.0	569.0	569.0
	569.0	569.0	569.0	569.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0								
0187	567.0	567.0	567.0	567.0	567.0	568.0	568.0	568.0	568.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0								
0188	566.0	566.0	566.0	566.0	567.0	567.0	568.0	568.0	568.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0								
0189	565.0	565.0	565.0	566.0	566.0	567.0	568.0	568.0	568.0	568.0
	568.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0								
0190	564.0	564.0	564.0	565.0	565.0	566.0	568.0	568.0	568.0	568.0
	568.0	568.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0								
0191	563.0	563.0	563.0	564.0	564.0	565.0	566.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0								
0192	562.0	562.0	562.0	562.0	563.0	563.0	564.0	565.0	566.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0								
0193	560.0	560.0	560.0	561.0	561.0	562.0	562.0	563.0	564.0	566.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0

	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0194	559.0	559.0	559.0	559.0	559.0	560.0	560.0	561.0	561.0	562.0
	563.0	564.0	564.0	564.0	564.0	564.0	565.0	566.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0195	557.0	557.0	557.0	557.0	557.0	558.0	558.0	558.0	558.0	559.0
	559.0	560.0	560.0	560.0	560.0	560.0	561.0	561.0	562.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
	563.0	563.0	563.0	563.0	563.0	563.0	564.0	565.0	568.0	568.0
	568.0	568.0	568.0	568.0	565.0	564.0	563.0	563.0	562.0	562.0
	562.0	561.0								
0196	556.0	556.0	556.0	556.0	556.0	555.0	555.0	555.0	555.0	555.0
	556.0	556.0	556.0	556.0	556.0	556.0	557.0	557.0	557.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
	558.0	558.0	558.0	558.0	558.0	558.0	559.0	560.0	561.0	561.0
	561.0	561.0	561.0	561.0	559.0	559.0	558.0	557.0	557.0	555.0
	555.0	555.0								
0197	554.0	554.0	554.0	554.0	554.0	553.0	553.0	552.0	552.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	554.0	554.0	554.0
	555.0	555.0	554.0	554.0	554.0	553.0	553.0	552.0	551.0	548.0
	548.0	548.0								
0198	553.0	553.0	553.0	552.0	552.0	551.0	550.0	550.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	545.0
	544.0	543.0								
0199	552.0	552.0	551.0	551.0	550.0	549.0	548.0	548.0	546.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
	545.0	545.0	545.0	545.0	545.0	545.0	544.0	544.0	544.0	544.0
	544.0	545.0	545.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	542.0	542.0	541.0	540.0
	539.0	539.0								
0200	551.0	550.0	550.0	550.0	549.0	548.0	546.0	545.0	543.0	542.0
	542.0	542.0	542.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
	541.0	541.0	541.0	541.0	541.0	541.0	540.0	540.0	540.0	540.0
	540.0	540.0	539.0	539.0	539.0	539.0	540.0	540.0	539.0	539.0
	539.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	537.0	536.0	535.0	534.0
	534.0	533.0								
0201	550.0	549.0	549.0	549.0	548.0	545.0	543.0	541.0	540.0	539.0
	539.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	537.0	537.0	537.0	537.0
	537.0	538.0	538.0	538.0	537.0	537.0	536.0	536.0	536.0	536.0
	536.0	535.0	535.0	535.0	535.0	535.0	536.0	536.0	535.0	535.0
	534.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	532.0	531.0	528.0	528.0
	528.0	528.0								
0202	549.0	549.0	548.0	548.0	544.0	541.0	539.0	537.0	536.0	536.0
	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
	535.0	535.0	535.0	535.0	534.0	534.0	534.0	534.0	533.0	533.0
	534.0	535.0	535.0	534.0	534.0	533.0	532.0	532.0	532.0	532.0
	532.0	531.0	531.0	530.0	530.0	530.0	533.0	532.0	532.0	530.0
	529.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	524.0	522.0
	522.0	522.0								
0203	548.0	548.0	544.0	541.0	539.0	536.0	534.0	533.0	532.0	532.0
	532.0	532.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
	531.0	531.0	531.0	531.0	531.0	531.0	530.0	530.0	529.0	529.0
	530.0	533.0	532.0	531.0	530.0	529.0	528.0	528.0	528.0	528.0
	528.0	527.0	526.0	525.0	524.0	523.0	526.0	526.0	526.0	526.0
	525.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0

	524.0	524.0	523.0	523.0	523.0	522.0	522.0	521.0	518.0	516.0
	515.0	515.0								
0204	542.0	541.0	538.0	535.0	533.0	531.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	527.0	526.0	525.0	524.0
	523.0	526.0	526.0	526.0	525.0	525.0	524.0	524.0	523.0	523.0
	523.0	522.0	522.0	521.0	520.0	520.0	521.0	521.0	521.0	521.0
	521.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0
	520.0	519.0	519.0	518.0	518.0	517.0	516.0	514.0	512.0	508.0
	508.0	508.0								
0205	536.0	535.0	532.0	528.0	528.0	528.0	525.0	524.0	524.0	523.0
	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
	523.0	523.0	523.0	523.0	523.0	523.0	522.0	521.0	521.0	520.0
	520.0	520.0	521.0	521.0	520.0	520.0	520.0	519.0	519.0	519.0
	518.0	518.0	517.0	517.0	516.0	516.0	517.0	517.0	517.0	517.0
	517.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0
	516.0	515.0	514.0	513.0	513.0	512.0	511.0	508.0	508.0	504.0
	503.0	502.0								
0206	532.0	531.0	528.0	526.0	524.0	523.0	522.0	520.0	519.0	519.0
	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
	518.0	518.0	518.0	518.0	518.0	518.0	517.0	517.0	517.0	516.0
	516.0	516.0	515.0	515.0	516.0	516.0	516.0	515.0	514.0	514.0
	513.0	513.0	513.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
	512.0	511.0	510.0	508.0	508.0	508.0	508.0	503.0	501.0	498.0
	496.0	495.0								
0207	529.0	528.0	525.0	522.0	521.0	519.0	517.0	516.0	514.0	513.0
	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
	513.0	513.0	513.0	513.0	513.0	513.0	513.0	512.0	512.0	512.0
	511.0	511.0	510.0	510.0	510.0	513.0	512.0	511.0	510.0	509.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	503.0	501.0	499.0	498.0	496.0	494.0	492.0
	488.0	488.0								
0208	528.0	524.0	521.0	519.0	517.0	515.0	513.0	511.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	507.0	506.0	505.0	504.0	503.0	505.0	506.0	506.0	505.0	505.0
	504.0	503.0	503.0	503.0	502.0	502.0	502.0	502.0	501.0	501.0
	501.0	501.0	501.0	501.0	501.0	500.0	500.0	500.0	500.0	500.0
	499.0	499.0	498.0	495.0	493.0	488.0	488.0	488.0	488.0	488.0
	481.0	479.0								
0209	520.0	518.0	516.0	515.0	513.0	511.0	508.0	508.0	504.0	502.0
	502.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0
	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0
	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0	501.0
	501.0	500.0	499.0	498.0	498.0	499.0	500.0	501.0	501.0	500.0
	499.0	499.0	498.0	497.0	497.0	496.0	495.0	495.0	495.0	495.0
	495.0	495.0	494.0	494.0	493.0	493.0	492.0	492.0	493.0	492.0
	491.0	490.0	489.0	488.0	488.0	481.0	479.0	478.0	477.0	475.0
	468.0	468.0								
0210	514.0	513.0	512.0	511.0	508.0	508.0	503.0	500.0	497.0	496.0
	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0
	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0
	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	494.0
	494.0	494.0	493.0	492.0	492.0	492.0	493.0	498.0	497.0	496.0
	495.0	494.0	493.0	492.0	491.0	490.0	489.0	488.0	488.0	488.0
	488.0	488.0	488.0	487.0	486.0	485.0	484.0	483.0	483.0	482.0
	481.0	480.0	479.0	478.0	475.0	468.0	468.0	468.0	468.0	468.0
	448.0	448.0								
0211	508.0	508.0	508.0	508.0	503.0	500.0	496.0	493.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	487.0	486.0	485.0	484.0	483.0	486.0	487.0	486.0
	485.0	484.0	483.0	482.0	481.0	480.0	479.0	478.0	478.0	478.0
	478.0	478.0	478.0	477.0	477.0	476.0	475.0	474.0	473.0	472.0
	471.0	470.0	469.0	468.0	468.0	461.0	458.0	456.0	448.0	448.0
	428.0	428.0								
0212	501.0	501.0	500.0	498.0	495.0	493.0	488.0	488.0	483.0	481.0
	480.0	480.0	479.0	479.0	478.0	478.0	478.0	478.0	478.0	478.0
	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0
	478.0	478.0	478.0	478.0	478.0	478.0	478.0	477.0	477.0	476.0
	476.0	475.0	474.0	474.0	473.0	472.0	473.0	478.0	477.0	476.0
	475.0	474.0	473.0	472.0	471.0	470.0	469.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	467.0	466.0	465.0	464.0	463.0
	460.0	459.0	456.0	448.0	448.0	448.0	448.0	448.0	428.0	428.0
	423.0	423.0								
0213	494.0	494.0	492.0	488.0	488.0	488.0	480.0	478.0	474.0	473.0
	472.0	471.0	470.0	469.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	467.0	466.0	465.0
	464.0	463.0	462.0	461.0	460.0	459.0	458.0	458.0	457.0	456.0
	455.0	454.0	453.0	452.0	451.0	450.0	449.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0

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        448.0     448.0     448.0     438.0     428.0     428.0     428.0     428.0     423.0     423.0
        423.0     423.0
0214    488.0     488.0     488.0     481.0     478.0     476.0     468.0     468.0     463.0     453.0
        452.0     451.0     450.0     449.0     448.0     448.0     448.0     448.0     448.0     448.0
        448.0     448.0     448.0     448.0     448.0     448.0     448.0     448.0     448.0     448.0
        448.0     448.0     448.0     448.0     448.0     448.0     448.0     447.0     446.0     445.0
        444.0     443.0     442.0     441.0     440.0     439.0     438.0     438.0     437.0     436.0
        435.0     434.0     433.0     432.0     431.0     430.0     429.0     428.0     428.0     428.0
        428.0     428.0     428.0     428.0     428.0     428.0     428.0     428.0     428.0     428.0
        428.0     428.0     428.0     428.0     426.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0215    477.0     475.0     468.0     468.0     468.0     468.0     448.0     448.0     446.0     441.0
        438.0     433.0     432.0     431.0     430.0     429.0     428.0     428.0     428.0     428.0
        428.0     428.0     428.0     428.0     428.0     428.0     428.0     428.0     428.0     428.0
        428.0     428.0     428.0     428.0     428.0     428.0     428.0     428.0     428.0     428.0
        428.0     428.0     428.0     428.0     427.0     426.0     425.0     429.0     430.0     429.0
        429.0     428.0     428.0     428.0     427.0     427.0     426.0     426.0     426.0     426.0
        425.0     425.0     425.0     425.0     425.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0216    468.0     468.0     460.0     456.0     448.0     448.0     438.0     428.0     428.0     426.0
        425.0     427.0     427.0     427.0     426.0     426.0     426.0     426.0     426.0     426.0
        426.0     425.0     425.0     425.0     425.0     425.0     425.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0217    448.0     448.0     448.0     448.0     428.0     428.0     428.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0218    435.0     428.0     428.0     428.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0219    428.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0
0220    423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0     423.0
        423.0     423.0

 OPENING FILE ON UNIT  99:
 BOTL3.DAT


           ZBOT (BOTTOM ELEVATION)  FOR LAYER   3
 READING ON UNIT  99 WITH FORMAT: (82F9.0)

             1         2         3         4         5         6         7         8         9        10
            11        12        13        14        15        16        17        18        19        20
            21        22        23        24        25        26        27        28        29        30
            31        32        33        34        35        36        37        38        39        40
            41        42        43        44        45        46        47        48        49        50
            51        52        53        54        55        56        57        58        59        60
            61        62        63        64        65        66        67        68        69        70
            71        72        73        74        75        76        77        78        79        80
            81        82
 ..........................................................................................................
0  1    708.0     708.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0
        703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0
        703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0
        703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0
        703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0
        703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0     703.0
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	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0								
0 2	708.0	706.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0								
0 3	704.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0								
0 4	702.0	701.0	701.0	701.0	701.0	702.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0								
0 5	699.0	699.0	699.0	699.0	699.0	699.0	700.0	700.0	700.0	700.0
	700.0	700.0	700.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
	701.0	701.0	701.0	701.0	702.0	703.0	703.0	703.0	703.0	703.0
	703.0	703.0								
0 6	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	698.0	698.0	698.0	698.0	698.0	698.0	698.0	698.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
	699.0	699.0	699.0	699.0	700.0	700.0	701.0	701.0	701.0	701.0
	701.0	701.0								
0 7	695.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
	695.0	695.0	695.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0
	696.0	696.0	696.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
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	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
	697.0	697.0	697.0	697.0	698.0	698.0	698.0	698.0	698.0	699.0
	699.0	699.0								
0 8	692.0	692.0	692.0	692.0	692.0	691.0	691.0	691.0	691.0	691.0
	692.0	693.0	693.0	693.0	694.0	694.0	694.0	694.0	694.0	694.0
	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0
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	694.0	694.0	694.0	694.0	694.0	694.0	694.0	694.0	695.0	695.0
	695.0	695.0	695.0	695.0	695.0	696.0	696.0	696.0	696.0	696.0
	696.0	696.0								
0 9	690.0	690.0	690.0	690.0	689.0	688.0	688.0	688.0	688.0	688.0
	690.0	690.0	690.0	691.0	691.0	692.0	692.0	692.0	692.0	692.0
	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0	692.0
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	692.0	693.0	693.0	693.0	693.0	693.0	694.0	694.0	694.0	694.0
	694.0	694.0								
0 10	688.0	688.0	688.0	688.0	688.0	687.0	686.0	686.0	686.0	687.0
	688.0	688.0	688.0	688.0	689.0	690.0	691.0	689.0	689.0	689.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
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	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0
	690.0	690.0	690.0	690.0	691.0	691.0	692.0	692.0	692.0	692.0
	692.0	692.0								
0 11	686.0	686.0	685.0	685.0	685.0	685.0	684.0	684.0	684.0	684.0
	685.0	685.0	685.0	686.0	686.0	686.0	686.0	685.0	686.0	687.0
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	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0

	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0	688.0	688.0	688.0	689.0	690.0	690.0	690.0	690.0
	690.0	690.0								
0 12	683.0	683.0	683.0	683.0	682.0	682.0	682.0	682.0	682.0	682.0
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	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0	685.0
	685.0	685.0	685.0	685.0	685.0	685.0	685.0	686.0	686.0	686.0
	686.0	686.0	686.0	686.0	686.0	688.0	688.0	688.0	688.0	688.0
	688.0	688.0								
0 13	681.0	681.0	681.0	680.0	680.0	680.0	679.0	679.0	679.0	679.0
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	682.0	682.0	682.0	682.0	682.0	682.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
	683.0	683.0	683.0	683.0	684.0	684.0	684.0	684.0	684.0	684.0
	684.0	684.0								
0 14	678.0	678.0	678.0	678.0	678.0	677.0	677.0	677.0	677.0	677.0
	677.0	677.0	677.0	677.0	678.0	678.0	678.0	678.0	678.0	679.0
	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0	679.0
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	681.0	681.0	681.0	681.0	681.0	681.0	681.0	680.0	680.0	679.0
	679.0	679.0								
0 15	676.0	676.0	676.0	676.0	675.0	675.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	675.0	675.0	675.0	675.0	675.0	676.0	676.0
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	678.0	678.0	678.0	678.0	678.0	678.0	678.0	677.0	676.0	675.0
	674.0	674.0								
0 16	674.0	674.0	674.0	673.0	673.0	672.0	671.0	671.0	671.0	671.0
	671.0	671.0	671.0	672.0	672.0	673.0	673.0	673.0	673.0	673.0
	673.0	673.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
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	676.0	676.0	676.0	676.0	676.0	675.0	675.0	673.0	672.0	671.0
	668.0	670.0								
0 17	672.0	672.0	672.0	671.0	670.0	670.0	668.0	668.0	668.0	668.0
	668.0	668.0	668.0	669.0	670.0	671.0	670.0	669.0	670.0	670.0
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	673.0	674.0	674.0	674.0	673.0	673.0	672.0	670.0	668.0	668.0
	668.0	668.0								
0 18	671.0	670.0	670.0	669.0	668.0	668.0	667.0	667.0	666.0	666.0
	666.0	666.0	666.0	667.0	667.0	667.0	665.0	666.0	667.0	668.0
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	671.0	671.0	671.0	671.0	671.0	671.0	670.0	668.0	667.0	667.0
	667.0	667.0								
0 19	669.0	669.0	668.0	668.0	667.0	666.0	665.0	665.0	665.0	665.0
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	668.0	669.0	670.0	670.0	669.0	669.0	668.0	667.0	666.0	666.0
	665.0	665.0								
0 20	668.0	668.0	666.0	666.0	665.0	664.0	664.0	663.0	663.0	663.0
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	667.0	668.0	668.0	668.0	668.0	668.0	666.0	665.0	664.0	664.0
	664.0	664.0								
0 21	665.0	665.0	664.0	664.0	663.0	662.0	662.0	661.0	661.0	661.0
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	660.0	660.0								
0 23	660.0	660.0	660.0	659.0	659.0	658.0	658.0	657.0	657.0	657.0
	657.0	657.0	656.0	656.0	656.0	656.0	656.0	656.0	657.0	657.0
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	660.0	660.0	660.0	660.0	660.0	660.0	659.0	659.0	659.0	658.0
	658.0	658.0								
0 24	658.0	658.0	658.0	657.0	657.0	656.0	656.0	655.0	655.0	655.0
	655.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0	654.0
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	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	656.0
	656.0	656.0								
0 25	656.0	656.0	656.0	655.0	654.0	654.0	653.0	653.0	653.0	653.0
	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
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	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	654.0	654.0
	654.0	654.0								
0 26	654.0	654.0	654.0	653.0	652.0	652.0	651.0	651.0	650.0	650.0
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	652.0	653.0	653.0	653.0	653.0	653.0	652.0	652.0	652.0	652.0
	652.0	652.0								
0 27	653.0	652.0	652.0	651.0	650.0	649.0	648.0	648.0	648.0	648.0
	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0
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0 28	651.0	651.0	651.0	650.0	648.0	648.0	648.0	647.0	647.0	647.0
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0 29	650.0	650.0	649.0	649.0	648.0	647.0	647.0	646.0	646.0	646.0
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	646.0	646.0								
0 30	649.0	649.0	649.0	648.0	647.0	646.0	646.0	645.0	645.0	645.0
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0 31	649.0	648.0	648.0	647.0	646.0	645.0	645.0	644.0	644.0	644.0
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	641.0	641.0								
0 32	648.0	648.0	648.0	646.0	645.0	644.0	644.0	643.0	643.0	643.0
	643.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
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	642.0	641.0	641.0	641.0	641.0	641.0	640.0	640.0	639.0	639.0
	638.0	638.0								
0 33	648.0	648.0	646.0	645.0	644.0	643.0	642.0	642.0	642.0	641.0
	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0	641.0
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	636.0	635.0								
0 34	648.0	648.0	645.0	643.0	642.0	641.0	641.0	641.0	640.0	640.0
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	639.0	639.0	638.0	638.0	637.0	637.0	636.0	636.0	635.0	634.0
	633.0	632.0								
0 35	648.0	644.0	642.0	641.0	640.0	640.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	638.0
	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
	637.0	637.0	637.0	636.0	636.0	635.0	635.0	634.0	633.0	632.0
	630.0	628.0								
0 36	641.0	639.0	639.0	638.0	638.0	638.0	638.0	638.0	638.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	636.0
	636.0	636.0	635.0	635.0	634.0	634.0	633.0	632.0	631.0	630.0
	628.0	628.0								
0 37	634.0	634.0	635.0	635.0	635.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	635.0	635.0
	635.0	635.0	634.0	634.0	633.0	632.0	632.0	631.0	629.0	628.0
	628.0	628.0								
0 38	628.0	628.0	631.0	632.0	633.0	634.0	634.0	634.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
	635.0	635.0	635.0	635.0	635.0	635.0	635.0	634.0	634.0	634.0
	634.0	633.0	633.0	632.0	632.0	631.0	630.0	629.0	628.0	628.0
	628.0	628.0								
0 39	625.0	625.0	628.0	630.0	631.0	632.0	632.0	633.0	633.0	633.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0	634.0
	634.0	634.0	634.0	634.0	634.0	633.0	633.0	633.0	633.0	633.0
	633.0	632.0	632.0	631.0	631.0	630.0	629.0	628.0	628.0	627.0
	627.0	627.0								
0 40	620.0	621.0	624.0	628.0	629.0	630.0	631.0	632.0	632.0	632.0
	632.0	632.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
	633.0	633.0	633.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	631.0	631.0	630.0	630.0	629.0	628.0	628.0	627.0	627.0
	627.0	627.0								
0 41	615.0	616.0	619.0	623.0	628.0	629.0	630.0	630.0	631.0	631.0
	631.0	631.0	631.0	631.0	631.0	631.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
	632.0	632.0	632.0	632.0	632.0	631.0	631.0	631.0	631.0	631.0

	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
	631.0	630.0	630.0	630.0	629.0	628.0	628.0	627.0	627.0	627.0
	626.0	626.0								
0 42	608.0	608.0	613.0	618.0	623.0	628.0	629.0	629.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
	630.0	629.0	629.0	629.0	628.0	628.0	627.0	627.0	626.0	626.0
	626.0	626.0								
0 43	606.0	607.0	608.0	613.0	618.0	623.0	628.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0
	629.0	629.0	628.0	628.0	628.0	627.0	626.0	626.0	625.0	625.0
	625.0	625.0								
0 44	603.0	604.0	607.0	608.0	613.0	619.0	623.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
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	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0	628.0
	628.0	628.0	627.0	627.0	626.0	626.0	625.0	625.0	625.0	624.0
	624.0	624.0								
0 45	598.0	602.0	606.0	607.0	608.0	615.0	619.0	623.0	624.0	625.0
	625.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0	627.0
	626.0	626.0	626.0	626.0	625.0	625.0	624.0	624.0	624.0	624.0
	623.0	623.0								
0 46	597.0	601.0	605.0	606.0	607.0	613.0	616.0	619.0	621.0	622.0
	623.0	624.0	624.0	624.0	624.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
	625.0	625.0	625.0	624.0	624.0	624.0	623.0	623.0	623.0	623.0
	622.0	622.0								
0 47	597.0	598.0	604.0	605.0	607.0	612.0	614.0	617.0	619.0	620.0
	621.0	621.0	622.0	622.0	623.0	623.0	623.0	623.0	623.0	623.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
	624.0	623.0	623.0	623.0	623.0	622.0	622.0	622.0	622.0	622.0
	622.0	621.0								
0 48	596.0	597.0	603.0	604.0	607.0	610.0	613.0	616.0	616.0	618.0
	619.0	620.0	620.0	621.0	621.0	621.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	622.0	622.0
	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0	621.0
	620.0	620.0								
0 49	596.0	597.0	602.0	603.0	606.0	609.0	611.0	615.0	615.0	616.0
	617.0	618.0	619.0	619.0	620.0	620.0	620.0	620.0	620.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	621.0	621.0	621.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
	622.0	622.0	622.0	622.0	621.0	621.0	621.0	621.0	621.0	621.0
	621.0	621.0	621.0	620.0	620.0	620.0	620.0	620.0	620.0	619.0
	619.0	619.0								
0 50	596.0	596.0	601.0	602.0	606.0	609.0	610.0	614.0	613.0	615.0
	616.0	616.0	617.0	618.0	618.0	618.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0
	620.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0	618.0
	618.0	618.0								
0 51	595.0	596.0	600.0	601.0	605.0	608.0	610.0	613.0	612.0	613.0
	614.0	615.0	616.0	616.0	617.0	617.0	617.0	617.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0

	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0
	617.0	617.0								
0 52	595.0	595.0	598.0	601.0	605.0	608.0	609.0	613.0	611.0	612.0
	613.0	614.0	614.0	615.0	615.0	616.0	616.0	616.0	616.0	616.0
	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
	618.0	618.0	618.0	618.0	618.0	618.0	617.0	617.0	617.0	617.0
	617.0	617.0	617.0	617.0	616.0	616.0	616.0	616.0	616.0	616.0
	616.0	616.0								
0 53	594.0	595.0	597.0	600.0	604.0	607.0	608.0	612.0	610.0	611.0
	612.0	613.0	613.0	614.0	614.0	614.0	615.0	615.0	615.0	615.0
	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	616.0	616.0
	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	617.0	617.0
	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
	617.0	617.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
	616.0	616.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0								
0 54	594.0	594.0	597.0	600.0	604.0	607.0	607.0	611.0	610.0	610.0
	611.0	612.0	612.0	613.0	613.0	613.0	613.0	614.0	614.0	614.0
	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
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	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
	614.0	614.0								
0 55	593.0	594.0	596.0	599.0	603.0	606.0	607.0	610.0	609.0	610.0
	610.0	611.0	611.0	612.0	612.0	612.0	612.0	612.0	613.0	613.0
	613.0	613.0	613.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
	612.0	612.0	612.0	612.0	612.0	612.0	613.0	613.0	613.0	613.0
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	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	612.0
	612.0	612.0								
0 56	593.0	593.0	596.0	599.0	603.0	606.0	607.0	610.0	609.0	609.0
	610.0	610.0	610.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0
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	612.0	612.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0
	611.0	611.0								
0 57	592.0	593.0	595.0	598.0	602.0	605.0	608.0	609.0	608.0	609.0
	609.0	609.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0
	610.0	610.0	610.0	610.0	610.0	609.0	609.0	609.0	609.0	609.0
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	610.0	610.0								
0 58	591.0	592.0	595.0	598.0	602.0	605.0	607.0	609.0	608.0	608.0
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	609.0	608.0								
0 59	591.0	592.0	594.0	597.0	601.0	604.0	607.0	608.0	608.0	608.0
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0 61	590.0	591.0	593.0	597.0	600.0	603.0	606.0	607.0	607.0	607.0
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0 65	588.0	589.0	592.0	595.0	598.0	601.0	604.0	606.0	606.0	603.0
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0 71	585.0	587.0	590.0	593.0	596.0	598.0	601.0	603.0	603.0	600.0
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0 72	584.0	586.0	589.0	593.0	596.0	598.0	600.0	602.0	602.0	600.0
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0 73	584.0	586.0	589.0	592.0	595.0	597.0	600.0	602.0	602.0	600.0
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0 74	584.0	586.0	589.0	592.0	595.0	596.0	599.0	601.0	601.0	599.0
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0 75	583.0	585.0	588.0	591.0	594.0	595.0	599.0	601.0	601.0	599.0
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0 77	583.0	585.0	588.0	590.0	593.0	595.0	598.0	600.0	600.0	599.0
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0 78	582.0	584.0	587.0	590.0	594.0	595.0	598.0	599.0	599.0	598.0
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0 79	582.0	584.0	587.0	590.0	594.0	596.0	598.0	599.0	599.0	598.0
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0 80	582.0	584.0	586.0	590.0	594.0	595.0	597.0	599.0	599.0	598.0
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	596.0	596.0	596.0	596.0	596.0	596.0	596.0	595.0	595.0	595.0
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	593.0	593.0	593.0	592.0	592.0	592.0	592.0	592.0	591.0	591.0
	591.0	591.0	590.0	590.0	589.0	589.0	589.0	589.0	589.0	590.0
	590.0	590.0								
0 81	582.0	584.0	586.0	589.0	594.0	595.0	596.0	598.0	598.0	598.0
	598.0	598.0	598.0	597.0	597.0	597.0	597.0	597.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	594.0	594.0	594.0	594.0	594.0	593.0	593.0	593.0	593.0	593.0

	592.0	592.0	592.0	592.0	592.0	591.0	591.0	591.0	591.0	590.0
	590.0	590.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0
	589.0	589.0								
0 82	581.0	583.0	585.0	589.0	593.0	594.0	596.0	598.0	598.0	598.0
	598.0	597.0	597.0	597.0	596.0	596.0	596.0	596.0	596.0	596.0
	596.0	596.0	596.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	594.0	594.0	594.0	594.0
	594.0	594.0	593.0	593.0	593.0	593.0	593.0	592.0	592.0	592.0
	592.0	592.0	591.0	591.0	591.0	591.0	591.0	590.0	590.0	590.0
	590.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	589.0								
0 83	581.0	583.0	585.0	589.0	592.0	594.0	595.0	598.0	598.0	597.0
	597.0	597.0	596.0	596.0	596.0	596.0	596.0	596.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	593.0
	593.0	593.0	593.0	593.0	593.0	592.0	592.0	592.0	592.0	592.0
	591.0	591.0	591.0	591.0	590.0	590.0	590.0	590.0	589.0	589.0
	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0								
0 84	581.0	583.0	585.0	588.0	591.0	593.0	594.0	596.0	597.0	596.0
	596.0	596.0	596.0	595.0	595.0	595.0	595.0	595.0	595.0	595.0
	595.0	595.0	595.0	595.0	595.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	592.0	592.0	592.0	592.0	592.0	591.0	591.0	591.0
	591.0	591.0	590.0	590.0	590.0	590.0	589.0	589.0	589.0	589.0
	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0
	588.0	588.0								
0 85	580.0	583.0	584.0	588.0	590.0	592.0	593.0	594.0	596.0	595.0
	595.0	595.0	595.0	595.0	595.0	595.0	595.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	592.0
	592.0	592.0	592.0	592.0	591.0	591.0	591.0	591.0	591.0	590.0
	590.0	590.0	590.0	590.0	589.0	589.0	589.0	589.0	588.0	588.0
	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0								
0 86	580.0	583.0	584.0	588.0	590.0	591.0	592.0	593.0	595.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
	594.0	594.0	594.0	594.0	594.0	594.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	591.0	591.0	591.0	591.0	591.0	590.0	590.0	590.0
	590.0	590.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0								
0 87	580.0	582.0	583.0	587.0	589.0	590.0	591.0	592.0	594.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	591.0
	591.0	591.0	591.0	591.0	590.0	590.0	590.0	590.0	590.0	589.0
	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0
	586.0	586.0								
0 88	579.0	582.0	583.0	587.0	588.0	589.0	590.0	591.0	593.0	593.0
	592.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	590.0	590.0	590.0	590.0	590.0	589.0	589.0	589.0
	589.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0								
0 89	579.0	582.0	583.0	586.0	588.0	589.0	590.0	591.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	590.0
	590.0	590.0	590.0	590.0	589.0	589.0	589.0	589.0	589.0	588.0
	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0								
0 90	578.0	582.0	582.0	586.0	587.0	589.0	590.0	590.0	591.0	592.0
	591.0	591.0	591.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
	592.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	589.0	589.0	589.0	589.0	589.0	588.0	588.0	588.0
	588.0	588.0	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0								
0 91	578.0	582.0	582.0	586.0	587.0	589.0	589.0	590.0	590.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	589.0
	589.0	589.0	589.0	589.0	589.0	588.0	588.0	588.0	588.0	588.0

	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0
	586.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0								
0 92	577.0	581.0	582.0	585.0	586.0	589.0	589.0	589.0	590.0	591.0
	590.0	590.0	590.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
	591.0	591.0	591.0	591.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	589.0	589.0	589.0	589.0
	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0
	587.0	587.0	586.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0	584.0
	584.0	584.0								
0 93	577.0	581.0	581.0	585.0	586.0	588.0	589.0	589.0	589.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0
	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0	587.0	587.0
	586.0	586.0	586.0	586.0	586.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0								
0 94	576.0	581.0	581.0	584.0	586.0	588.0	588.0	589.0	589.0	590.0
	589.0	589.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0
	590.0	590.0	590.0	590.0	590.0	590.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0	588.0	588.0
	588.0	588.0	588.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0
	586.0	586.0	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	583.0
	583.0	583.0								
0 95	576.0	580.0	581.0	584.0	585.0	588.0	588.0	588.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0
	585.0	585.0	585.0	585.0	585.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0								
0 96	576.0	580.0	580.0	583.0	585.0	588.0	588.0	588.0	588.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
	589.0	589.0	589.0	589.0	589.0	589.0	589.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0
	587.0	587.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0	585.0
	585.0	585.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0								
0 97	576.0	580.0	580.0	583.0	584.0	587.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	586.0
	586.0	586.0	586.0	586.0	585.0	585.0	585.0	585.0	585.0	585.0
	584.0	584.0	584.0	584.0	584.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0								
0 98	575.0	579.0	580.0	582.0	584.0	587.0	587.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
	588.0	588.0	588.0	588.0	588.0	588.0	588.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0
	586.0	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0	584.0
	584.0	584.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0								
0 99	575.0	579.0	579.0	582.0	583.0	586.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0
	585.0	585.0	585.0	585.0	584.0	584.0	584.0	584.0	584.0	583.0
	583.0	583.0	583.0	583.0	583.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0								
0100	575.0	578.0	579.0	581.0	583.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
	587.0	587.0	587.0	587.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	585.0	585.0	585.0	585.0	585.0	585.0
	584.0	584.0	584.0	584.0	584.0	584.0	583.0	583.0	583.0	583.0
	583.0	583.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0								
0101	574.0	578.0	579.0	581.0	582.0	585.0	585.0	585.0	585.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	583.0	583.0	583.0	583.0	583.0	583.0	582.0

	582.0	582.0	582.0	582.0	582.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0								
0102	574.0	577.0	578.0	580.0	582.0	584.0	584.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	582.0	582.0	582.0	582.0
	582.0	582.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	579.0
	579.0	579.0								
0103	574.0	576.0	578.0	580.0	581.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	585.0	585.0
	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	585.0	585.0	585.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	581.0
	581.0	581.0	581.0	581.0	581.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0								
0104	573.0	576.0	578.0	580.0	581.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	580.0	580.0	580.0	580.0	580.0	580.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	578.0	578.0	578.0
	578.0	578.0								
0105	573.0	575.0	577.0	579.0	580.0	582.0	582.0	582.0	582.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0								
0106	573.0	575.0	576.0	579.0	580.0	581.0	581.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	583.0
	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0
	583.0	583.0	583.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0								
0107	573.0	574.0	576.0	579.0	579.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	579.0	579.0
	579.0	579.0	579.0	579.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0								
0108	572.0	574.0	575.0	578.0	579.0	580.0	580.0	580.0	580.0	580.0
	580.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	578.0	578.0	578.0	578.0	578.0	578.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0								
0109	572.0	573.0	575.0	578.0	578.0	579.0	579.0	579.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
	581.0	581.0	581.0	581.0	581.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	577.0	577.0	577.0	577.0	577.0	577.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	575.0	575.0	575.0
	575.0	575.0								
0110	572.0	573.0	574.0	578.0	578.0	578.0	578.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
	580.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	577.0	577.0	577.0	577.0	577.0	577.0	576.0	576.0	576.0
	576.0	576.0	576.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0								
0111	572.0	572.0	574.0	577.0	577.0	578.0	578.0	578.0	578.0	578.0
	578.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	577.0	577.0	577.0

	577.0	577.0	577.0	577.0	576.0	576.0	576.0	576.0	576.0	576.0
	575.0	575.0	575.0	575.0	575.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0								
0112	571.0	572.0	573.0	576.0	577.0	577.0	577.0	577.0	577.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	576.0	576.0	576.0	576.0	576.0	576.0	575.0	575.0	575.0
	575.0	575.0	574.0	574.0	574.0	574.0	574.0	573.0	573.0	573.0
	573.0	573.0								
0113	571.0	571.0	573.0	575.0	576.0	576.0	576.0	576.0	577.0	577.0
	577.0	577.0	577.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	578.0	578.0	578.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	575.0	575.0	575.0	575.0	575.0	574.0
	574.0	574.0	574.0	573.0	573.0	573.0	573.0	573.0	572.0	572.0
	572.0	572.0								
0114	571.0	571.0	572.0	575.0	575.0	575.0	576.0	576.0	576.0	576.0
	576.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
	578.0	578.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	575.0	575.0	575.0	575.0	575.0	575.0	574.0	574.0	574.0
	574.0	573.0	573.0	573.0	573.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0								
0115	571.0	571.0	572.0	574.0	574.0	574.0	575.0	575.0	575.0	576.0
	576.0	576.0	576.0	576.0	576.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
	577.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	574.0	574.0	574.0	574.0	574.0	573.0
	573.0	573.0	573.0	572.0	572.0	572.0	571.0	571.0	571.0	571.0
	571.0	571.0								
0116	570.0	571.0	571.0	573.0	573.0	574.0	574.0	574.0	575.0	575.0
	575.0	575.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	574.0	574.0	574.0	574.0	574.0	574.0	573.0	573.0	573.0
	573.0	572.0	572.0	572.0	571.0	571.0	570.0	570.0	570.0	570.0
	570.0	570.0								
0117	570.0	571.0	571.0	572.0	573.0	573.0	574.0	574.0	574.0	574.0
	575.0	575.0	575.0	575.0	575.0	575.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
	576.0	576.0	576.0	576.0	576.0	576.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	573.0	573.0	573.0	573.0	572.0
	572.0	572.0	571.0	571.0	571.0	570.0	570.0	569.0	568.0	569.0
	569.0	569.0								
0118	570.0	570.0	570.0	572.0	572.0	573.0	573.0	573.0	574.0	574.0
	574.0	574.0	574.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	573.0	573.0	573.0	573.0	573.0	572.0	572.0	572.0
	572.0	571.0	571.0	571.0	570.0	570.0	569.0	568.0	568.0	569.0
	569.0	569.0								
0119	570.0	570.0	570.0	571.0	572.0	572.0	572.0	573.0	573.0	573.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	575.0	575.0	575.0
	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0	575.0
	575.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	572.0	572.0	572.0	572.0
	571.0	571.0	571.0	570.0	570.0	569.0	569.0	568.0	568.0	568.0
	569.0	569.0								
0120	569.0	570.0	570.0	571.0	571.0	572.0	572.0	572.0	573.0	573.0
	573.0	573.0	573.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	572.0	572.0	572.0	572.0	572.0	571.0	571.0
	571.0	570.0	570.0	570.0	569.0	569.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0121	569.0	569.0	570.0	570.0	571.0	571.0	572.0	572.0	572.0	572.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	574.0	574.0	574.0
	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0

	572.0	572.0	572.0	572.0	572.0	572.0	572.0	571.0	571.0	571.0
	570.0	570.0	570.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0122	569.0	569.0	569.0	570.0	570.0	571.0	571.0	571.0	572.0	572.0
	572.0	572.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	571.0	571.0	571.0	571.0	570.0
	570.0	570.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0123	569.0	569.0	569.0	570.0	570.0	570.0	571.0	571.0	571.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	573.0	573.0	573.0	573.0
	573.0	573.0	573.0	573.0	573.0	573.0	573.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	571.0	571.0	571.0	571.0	571.0	571.0	570.0	570.0
	570.0	570.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0124	568.0	568.0	569.0	569.0	570.0	570.0	570.0	571.0	571.0	571.0
	571.0	571.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	572.0	572.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	570.0	570.0	570.0
	570.0	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0125	568.0	568.0	569.0	569.0	569.0	570.0	570.0	570.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	572.0	572.0	572.0	572.0	572.0
	572.0	572.0	572.0	572.0	572.0	572.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	570.0	570.0	570.0	570.0	570.0
	569.0	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0126	568.0	568.0	568.0	569.0	569.0	569.0	570.0	570.0	570.0	570.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	569.0	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0127	568.0	568.0	568.0	569.0	569.0	569.0	569.0	570.0	570.0	570.0
	570.0	570.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
	571.0	571.0	571.0	571.0	571.0	571.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	569.0	569.0
	569.0	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0128	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	571.0	571.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	569.0	569.0	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	569.0	569.0
	569.0	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0129	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0	569.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	570.0	570.0	570.0	569.0	569.0	569.0
	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	570.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0130	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
	570.0	570.0	570.0	569.0	569.0	569.0	569.0	569.0	569.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0131	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0

	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0132	568.0	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0								
0133	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	569.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0
	569.0	569.0	569.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	569.0
	569.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	567.0	567.0
	567.0	567.0								
0134	567.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	569.0	569.0	569.0	569.0	569.0	569.0	569.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	567.0	567.0	567.0	567.0
	567.0	567.0								
0135	567.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0								
0136	567.0	567.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0								
0137	567.0	567.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0								
0138	567.0	567.0	567.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
	568.0	568.0	568.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	568.0	568.0	568.0	568.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	566.0	566.0
	566.0	566.0								
0139	567.0	567.0	567.0	567.0	567.0	568.0	568.0	568.0	568.0	568.0
	568.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	567.0	567.0	567.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0								
0140	567.0	567.0	567.0	567.0	567.0	567.0	568.0	568.0	568.0	568.0
	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	567.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0								
0141	567.0	567.0	567.0	567.0	567.0	567.0	567.0	568.0	568.0	567.0
	567.0	567.0	567.0	567.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0

	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0								
0142	566.0	566.0	566.0	566.0	567.0	567.0	567.0	567.0	567.0	567.0
	567.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	565.0	565.0	565.0	565.0
	565.0	565.0								
0143	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	566.0	566.0	566.0	566.0	566.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	564.0	564.0
	564.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0								
0144	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0	566.0
	566.0	566.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0								
0145	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	565.0	565.0	564.0	564.0	564.0	564.0
	564.0	564.0								
0146	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0
	565.0	565.0	565.0	565.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
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	564.0	564.0								
0147	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
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	564.0	564.0								
0148	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	563.0	563.0
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	563.0	563.0								
0149	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
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	563.0	563.0								
0150	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
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	563.0	563.0								
0151	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0
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0152	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0
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0153	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0
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0154	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
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0155	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0
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0156	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0
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0158	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0
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0159	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0
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0161	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0
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	559.0	559.0								
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	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0
	556.0	556.0								
0171	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
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	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0

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	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0	556.0
	556.0	556.0								
0172	553.0	553.0	553.0	553.0	553.0	553.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
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	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0								
0173	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
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	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0								
0174	552.0	552.0	552.0	552.0	552.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	555.0	555.0	555.0	555.0
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	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0
	555.0	555.0								
0175	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
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	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0								
0176	551.0	551.0	551.0	551.0	551.0	551.0	552.0	552.0	552.0	552.0
	552.0	552.0	552.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
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	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0								
0177	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	553.0	553.0	553.0
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	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
	554.0	554.0								
0178	550.0	550.0	550.0	550.0	550.0	550.0	551.0	551.0	551.0	551.0
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	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0								
0179	550.0	549.0	549.0	549.0	550.0	550.0	550.0	550.0	551.0	551.0
	551.0	551.0	551.0	551.0	552.0	552.0	552.0	552.0	552.0	552.0
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	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0								
0180	549.0	549.0	549.0	548.0	549.0	549.0	550.0	550.0	550.0	550.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	552.0	552.0	552.0
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	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0	553.0
	553.0	553.0								
0181	549.0	549.0	548.0	548.0	549.0	549.0	549.0	550.0	550.0	550.0
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	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0

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	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0								
0182	548.0	548.0	548.0	548.0	548.0	549.0	549.0	549.0	550.0	550.0
	550.0	550.0	550.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
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	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0								
0183	548.0	548.0	548.0	548.0	548.0	548.0	549.0	549.0	549.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
	552.0	552.0								
0184	548.0	548.0	548.0	548.0	548.0	548.0	549.0	549.0	549.0	549.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	551.0
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	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0								
0185	548.0	548.0	548.0	548.0	548.0	548.0	548.0	549.0	549.0	549.0
	549.0	549.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
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	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
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	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0								
0186	547.0	547.0	547.0	547.0	548.0	548.0	548.0	548.0	549.0	549.0
	549.0	549.0	549.0	549.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	551.0	551.0	551.0
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	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0
	551.0	551.0								
0187	547.0	547.0	547.0	547.0	547.0	548.0	548.0	548.0	548.0	549.0
	549.0	549.0	549.0	549.0	549.0	549.0	549.0	550.0	550.0	550.0
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	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
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	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0								
0188	546.0	546.0	546.0	546.0	547.0	547.0	548.0	548.0	548.0	549.0
	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
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	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0								
0189	545.0	545.0	545.0	546.0	546.0	547.0	548.0	548.0	548.0	548.0
	548.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
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	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
	550.0	550.0								
0190	544.0	544.0	544.0	545.0	545.0	546.0	548.0	548.0	548.0	548.0
	548.0	548.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
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	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
	549.0	549.0								
0191	543.0	543.0	543.0	544.0	544.0	545.0	546.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	549.0	549.0	549.0	549.0
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	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
	549.0	549.0								
0192	542.0	542.0	542.0	542.0	543.0	543.0	544.0	545.0	546.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
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	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
	549.0	549.0								
0193	540.0	540.0	540.0	541.0	541.0	542.0	542.0	543.0	544.0	546.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
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	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	549.0	549.0	549.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0								
0194	539.0	539.0	539.0	539.0	539.0	540.0	540.0	541.0	541.0	542.0
	543.0	544.0	544.0	544.0	544.0	544.0	545.0	546.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0	548.0
	548.0	548.0								
0195	537.0	537.0	537.0	537.0	537.0	538.0	538.0	538.0	538.0	539.0
	539.0	540.0	540.0	540.0	540.0	540.0	541.0	541.0	542.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
	543.0	543.0	543.0	543.0	543.0	543.0	544.0	545.0	548.0	548.0
	548.0	548.0	548.0	548.0	545.0	544.0	543.0	543.0	542.0	542.0
	542.0	541.0								
0196	536.0	536.0	536.0	536.0	536.0	535.0	535.0	535.0	535.0	535.0
	536.0	536.0	536.0	536.0	536.0	536.0	537.0	537.0	537.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0
	538.0	538.0	538.0	538.0	538.0	538.0	539.0	540.0	541.0	541.0
	541.0	541.0	541.0	541.0	539.0	539.0	538.0	537.0	537.0	535.0
	535.0	535.0								
0197	534.0	534.0	534.0	534.0	534.0	533.0	533.0	532.0	532.0	532.0
	532.0	532.0	532.0	532.0	532.0	532.0	532.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
	533.0	533.0	533.0	533.0	533.0	533.0	533.0	534.0	534.0	534.0
	535.0	535.0	534.0	534.0	534.0	533.0	533.0	532.0	531.0	528.0
	528.0	528.0								
0198	533.0	533.0	533.0	532.0	532.0	531.0	530.0	530.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	525.0
	524.0	523.0								
0199	532.0	532.0	531.0	531.0	530.0	529.0	528.0	528.0	526.0	525.0
	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0
	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0
	525.0	525.0	525.0	525.0	525.0	525.0	524.0	524.0	524.0	524.0
	524.0	525.0	525.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0
	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0
	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
	523.0	523.0	523.0	523.0	523.0	523.0	522.0	522.0	521.0	520.0
	519.0	519.0								
0200	531.0	530.0	530.0	530.0	529.0	528.0	526.0	525.0	523.0	522.0
	522.0	522.0	522.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
	521.0	521.0	521.0	521.0	521.0	521.0	520.0	520.0	520.0	520.0
	520.0	520.0	519.0	519.0	519.0	519.0	520.0	520.0	519.0	519.0
	519.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
	518.0	518.0	518.0	518.0	518.0	518.0	517.0	516.0	515.0	514.0
	514.0	513.0								
0201	530.0	529.0	529.0	529.0	528.0	525.0	523.0	521.0	520.0	519.0
	519.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
	518.0	518.0	518.0	518.0	518.0	518.0	517.0	517.0	517.0	517.0
	517.0	518.0	518.0	518.0	517.0	517.0	516.0	516.0	516.0	516.0
	516.0	515.0	515.0	515.0	515.0	515.0	516.0	516.0	515.0	515.0

	514.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
	513.0	513.0	513.0	513.0	513.0	513.0	512.0	511.0	508.0	508.0
	508.0	508.0								
0202	529.0	529.0	528.0	528.0	524.0	521.0	519.0	517.0	516.0	516.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
	515.0	515.0	515.0	515.0	514.0	514.0	514.0	514.0	513.0	513.0
	514.0	515.0	515.0	514.0	514.0	513.0	512.0	512.0	512.0	512.0
	512.0	511.0	511.0	510.0	510.0	510.0	513.0	512.0	512.0	510.0
	509.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	504.0	502.0
	502.0	502.0								
0203	528.0	528.0	524.0	521.0	519.0	516.0	514.0	513.0	512.0	512.0
	512.0	512.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0
	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0
	511.0	511.0	511.0	511.0	511.0	511.0	510.0	510.0	509.0	509.0
	510.0	513.0	512.0	511.0	510.0	509.0	508.0	508.0	508.0	508.0
	508.0	507.0	506.0	505.0	504.0	503.0	506.0	506.0	506.0	506.0
	505.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
	504.0	504.0	503.0	503.0	503.0	502.0	502.0	501.0	498.0	496.0
	495.0	495.0								
0204	522.0	521.0	518.0	515.0	513.0	511.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
	508.0	508.0	508.0	508.0	508.0	508.0	507.0	506.0	505.0	504.0
	503.0	506.0	506.0	506.0	505.0	505.0	504.0	504.0	503.0	503.0
	503.0	502.0	502.0	501.0	500.0	500.0	501.0	501.0	501.0	501.0
	501.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0
	500.0	499.0	499.0	498.0	498.0	497.0	496.0	494.0	492.0	488.0
	488.0	488.0								
0205	516.0	515.0	512.0	508.0	508.0	508.0	505.0	504.0	504.0	503.0
	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0
	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0
	503.0	503.0	503.0	503.0	503.0	503.0	502.0	501.0	501.0	500.0
	500.0	500.0	501.0	501.0	500.0	500.0	500.0	499.0	499.0	499.0
	498.0	498.0	497.0	497.0	496.0	496.0	497.0	497.0	497.0	497.0
	497.0	496.0	496.0	496.0	496.0	496.0	496.0	496.0	496.0	496.0
	496.0	495.0	494.0	493.0	493.0	492.0	491.0	488.0	488.0	484.0
	483.0	482.0								
0206	512.0	511.0	508.0	506.0	504.0	503.0	502.0	500.0	499.0	499.0
	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
	498.0	498.0	498.0	498.0	498.0	498.0	497.0	497.0	497.0	496.0
	496.0	496.0	495.0	495.0	496.0	496.0	496.0	495.0	494.0	494.0
	493.0	493.0	493.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0
	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0
	492.0	491.0	490.0	488.0	488.0	488.0	488.0	483.0	481.0	478.0
	476.0	475.0								
0207	509.0	508.0	505.0	502.0	501.0	499.0	497.0	496.0	494.0	493.0
	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0
	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0
	493.0	493.0	493.0	493.0	493.0	493.0	493.0	492.0	492.0	492.0
	491.0	491.0	490.0	490.0	490.0	493.0	492.0	491.0	490.0	489.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	483.0	481.0	479.0	478.0	476.0	474.0	472.0
	468.0	468.0								
0208	508.0	504.0	501.0	499.0	497.0	495.0	493.0	491.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
	487.0	486.0	485.0	484.0	483.0	485.0	486.0	486.0	485.0	485.0
	484.0	483.0	483.0	483.0	482.0	482.0	482.0	482.0	481.0	481.0
	481.0	481.0	481.0	481.0	481.0	480.0	480.0	480.0	480.0	480.0
	479.0	479.0	478.0	475.0	473.0	468.0	468.0	468.0	468.0	468.0
	461.0	459.0								
0209	500.0	498.0	496.0	495.0	493.0	491.0	488.0	488.0	484.0	482.0
	482.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
	481.0	480.0	479.0	478.0	478.0	479.0	480.0	481.0	481.0	480.0
	479.0	479.0	478.0	477.0	477.0	476.0	475.0	475.0	475.0	475.0
	475.0	475.0	474.0	474.0	473.0	473.0	472.0	472.0	473.0	472.0
	471.0	470.0	469.0	468.0	468.0	461.0	459.0	458.0	457.0	455.0
	448.0	448.0								
0210	494.0	493.0	492.0	491.0	488.0	488.0	483.0	480.0	477.0	476.0
	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	474.0
	474.0	474.0	473.0	472.0	472.0	472.0	473.0	478.0	477.0	476.0
	475.0	474.0	473.0	472.0	471.0	470.0	469.0	468.0	468.0	468.0
	468.0	468.0	468.0	467.0	466.0	465.0	464.0	463.0	463.0	462.0
	461.0	460.0	459.0	458.0	455.0	448.0	448.0	448.0	448.0	448.0
	428.0	428.0								
0211	488.0	488.0	488.0	488.0	483.0	480.0	476.0	473.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
	468.0	468.0	467.0	466.0	465.0	464.0	463.0	466.0	467.0	466.0
	465.0	464.0	463.0	462.0	461.0	460.0	459.0	458.0	458.0	458.0

	458.0	458.0	458.0	457.0	457.0	456.0	455.0	454.0	453.0	452.0
	451.0	450.0	449.0	448.0	448.0	441.0	438.0	436.0	428.0	428.0
	408.0	408.0								
0212	481.0	481.0	480.0	478.0	475.0	473.0	468.0	468.0	463.0	461.0
	460.0	460.0	459.0	459.0	458.0	458.0	458.0	458.0	458.0	458.0
	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0
	458.0	458.0	458.0	458.0	458.0	458.0	458.0	457.0	457.0	456.0
	456.0	455.0	454.0	454.0	453.0	452.0	453.0	458.0	457.0	456.0
	455.0	454.0	453.0	452.0	451.0	450.0	449.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	447.0	446.0	445.0	444.0	443.0
	440.0	439.0	436.0	428.0	428.0	428.0	428.0	428.0	408.0	408.0
	403.0	403.0								
0213	474.0	474.0	472.0	468.0	468.0	468.0	460.0	458.0	454.0	453.0
	452.0	451.0	450.0	449.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
	448.0	448.0	448.0	448.0	448.0	448.0	448.0	447.0	446.0	445.0
	444.0	443.0	442.0	441.0	440.0	439.0	438.0	438.0	437.0	436.0
	435.0	434.0	433.0	432.0	431.0	430.0	429.0	428.0	428.0	428.0
	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
	428.0	428.0	428.0	418.0	408.0	408.0	408.0	408.0	403.0	403.0
	403.0	403.0								
0214	468.0	468.0	468.0	461.0	458.0	456.0	448.0	448.0	443.0	433.0
	432.0	431.0	430.0	429.0	428.0	428.0	428.0	428.0	428.0	428.0
	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
	428.0	428.0	428.0	428.0	428.0	428.0	428.0	427.0	426.0	425.0
	424.0	423.0	422.0	421.0	420.0	419.0	418.0	418.0	417.0	416.0
	415.0	414.0	413.0	412.0	411.0	410.0	409.0	408.0	408.0	408.0
	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0
	408.0	408.0	408.0	408.0	406.0	403.0	403.0	403.0	403.0	403.0
	403.0	403.0								
0215	457.0	455.0	448.0	448.0	448.0	448.0	428.0	428.0	426.0	421.0
	418.0	413.0	412.0	411.0	410.0	409.0	408.0	408.0	408.0	408.0
	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0
	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0
	408.0	408.0	408.0	408.0	407.0	406.0	405.0	409.0	410.0	409.0
	409.0	408.0	408.0	408.0	407.0	407.0	406.0	406.0	406.0	406.0
	405.0	405.0	405.0	405.0	405.0	403.0	403.0	403.0	403.0	403.0
	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0
	403.0	403.0								
0216	448.0	448.0	440.0	436.0	428.0	428.0	418.0	408.0	408.0	406.0
	405.0	407.0	407.0	407.0	406.0	406.0	406.0	406.0	406.0	406.0
	406.0	405.0	405.0	405.0	405.0	405.0	405.0	403.0	403.0	403.0
	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0
	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0
	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0
	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0
	403.0	403.0								
0217	428.0	428.0	428.0	428.0	408.0	408.0	408.0	403.0	403.0	403.0
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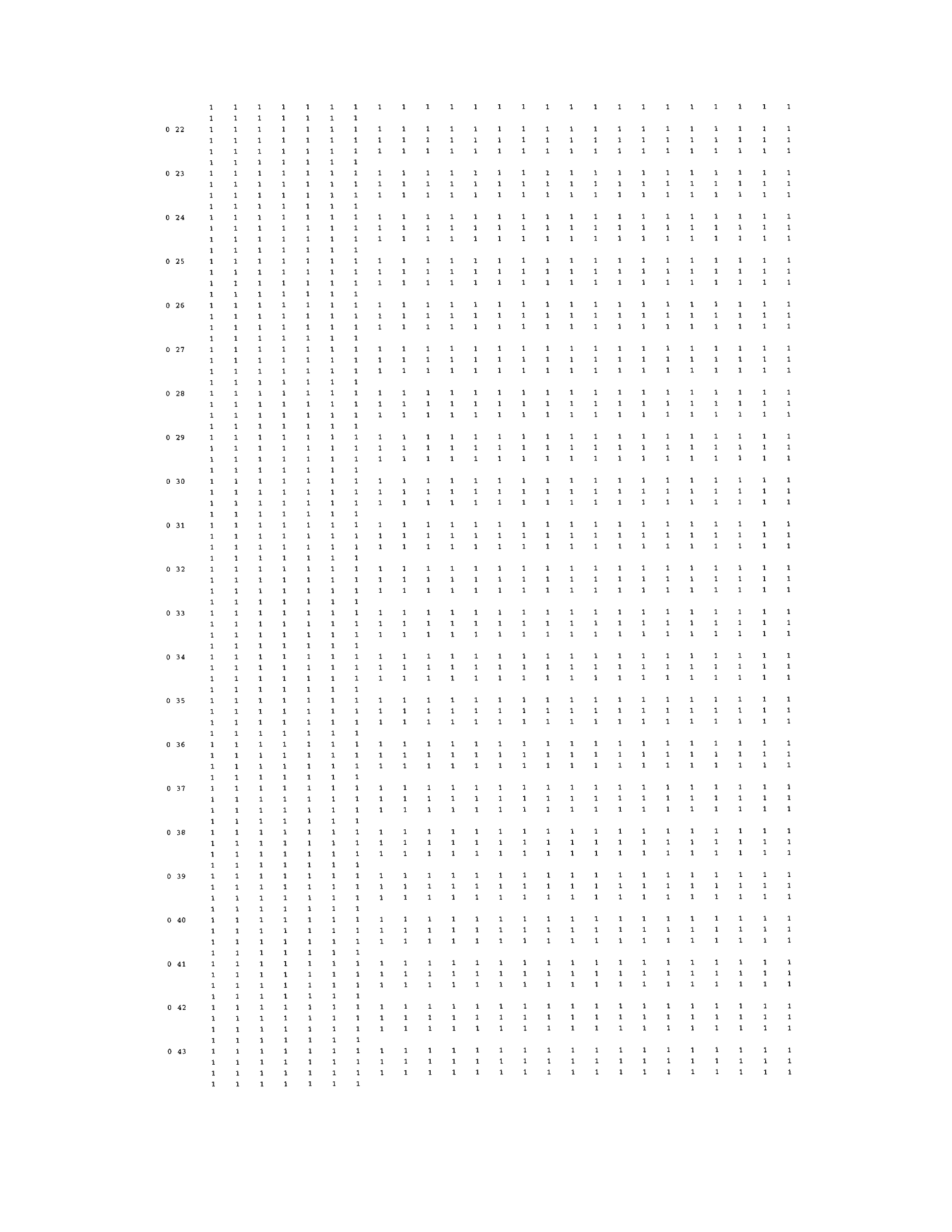

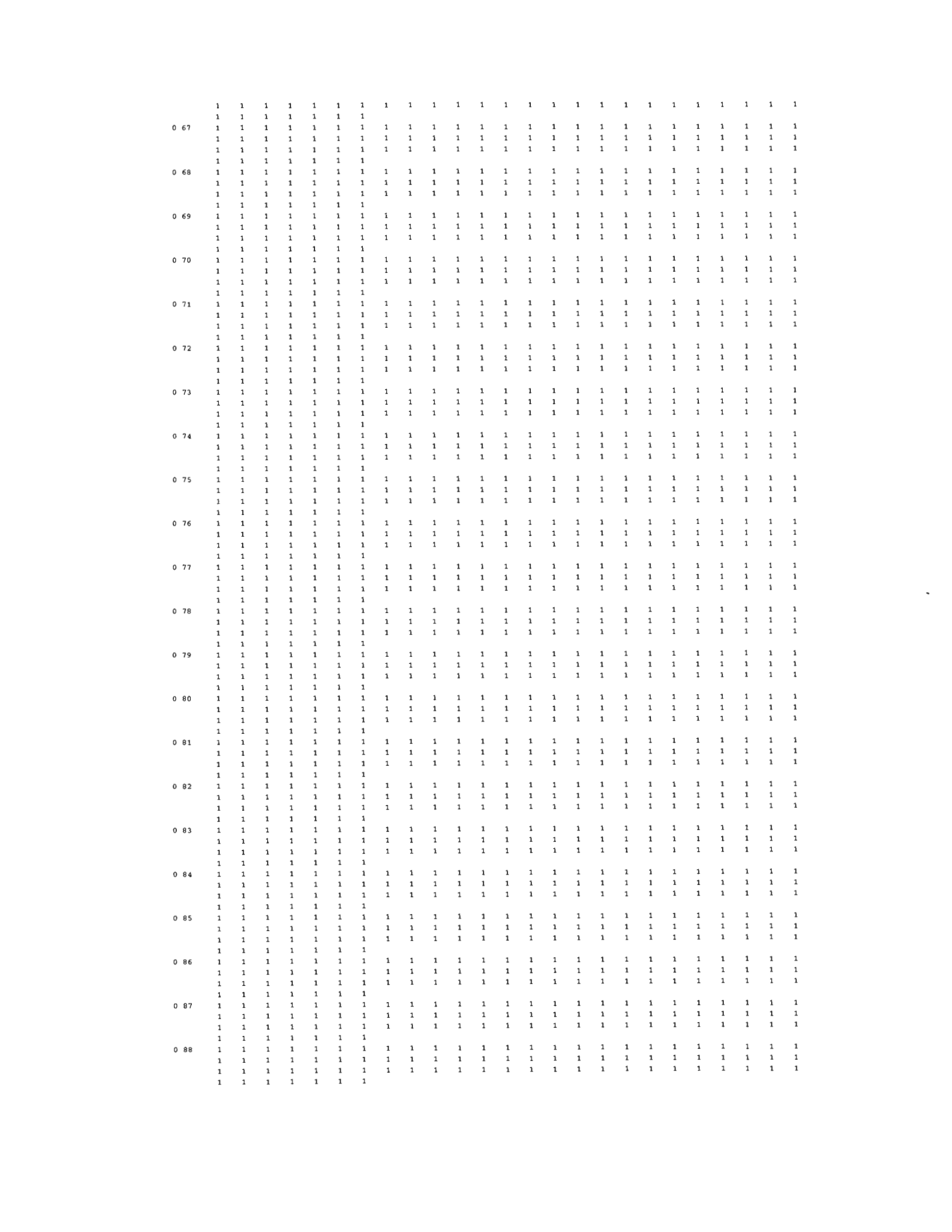

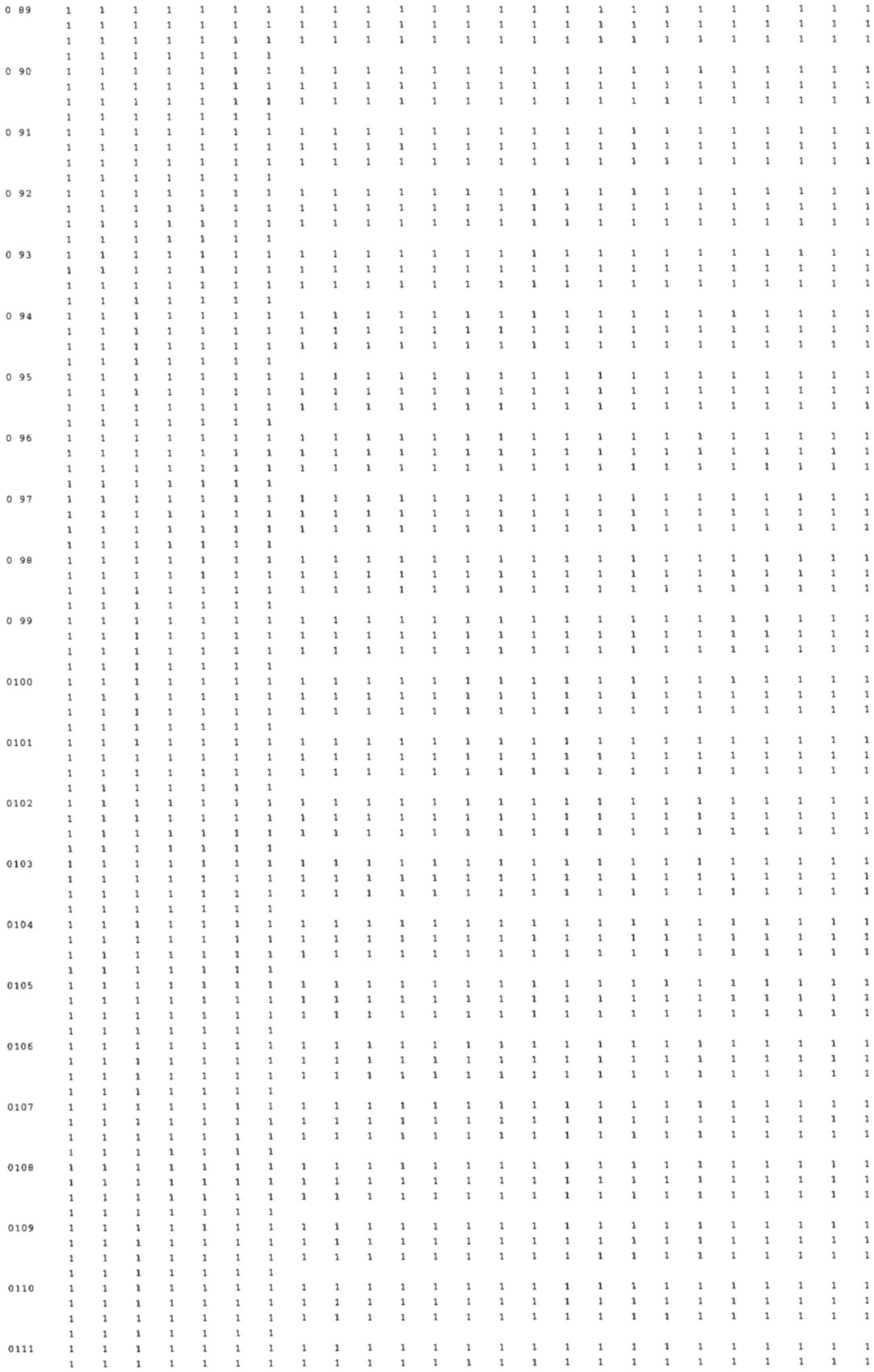

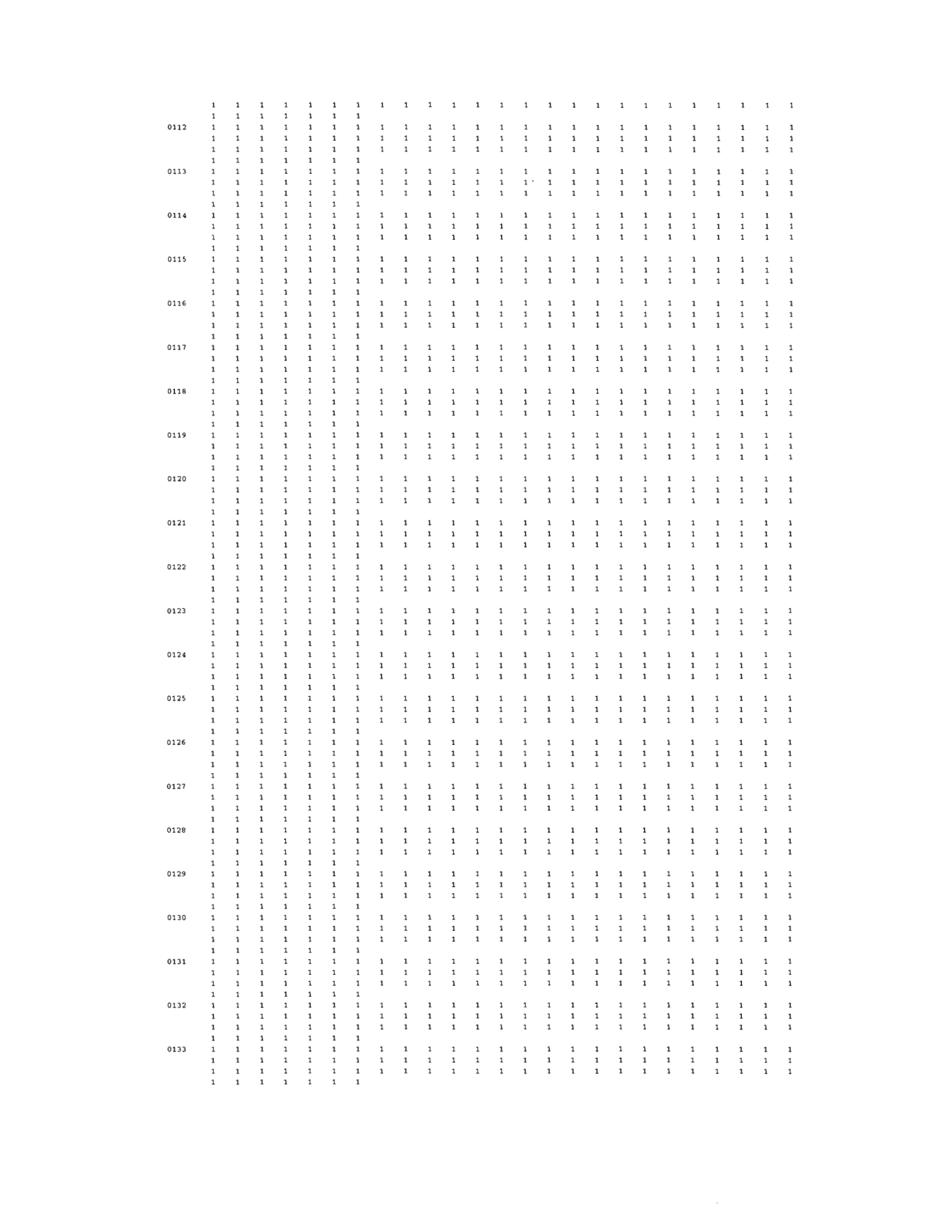

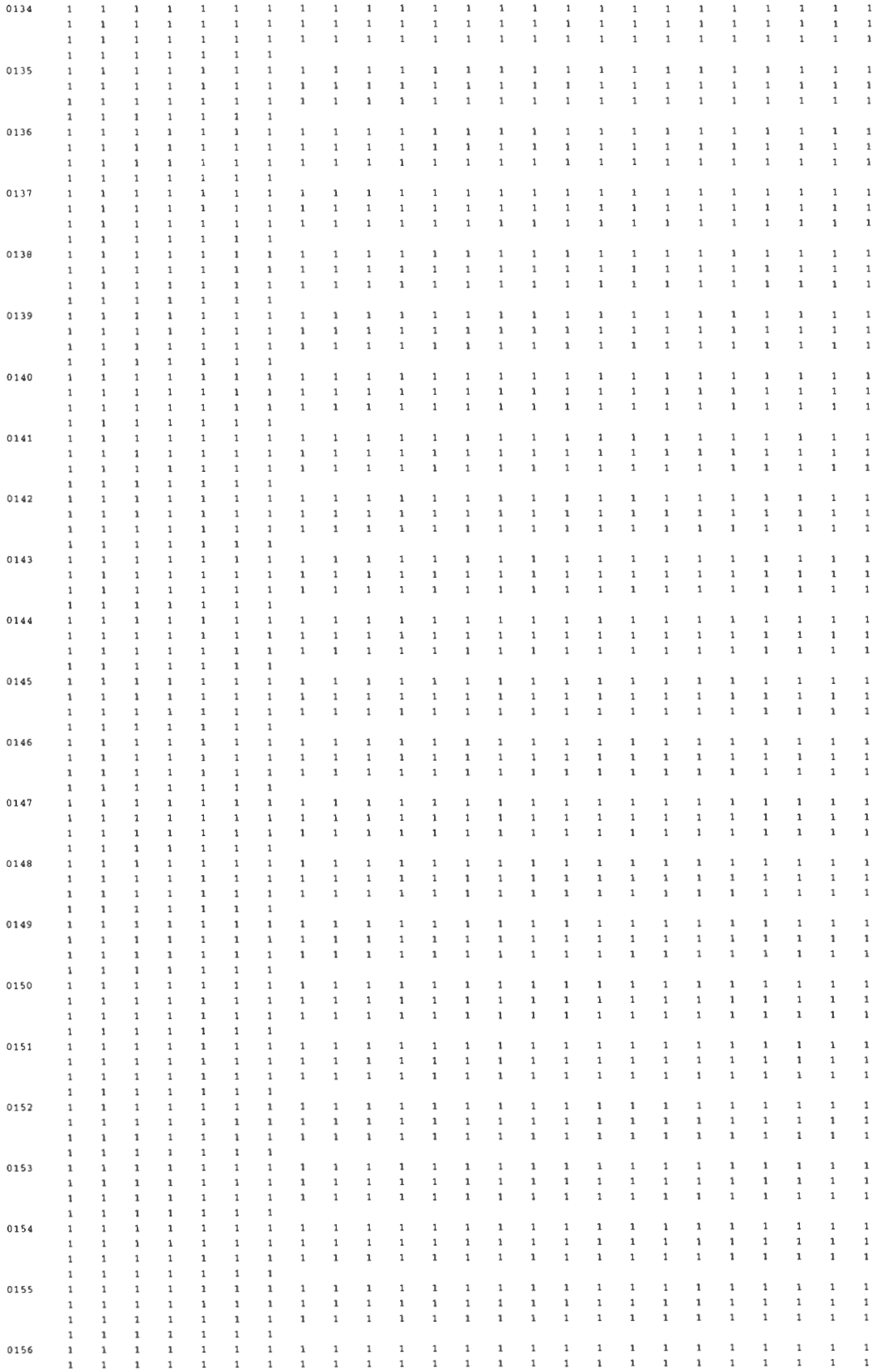

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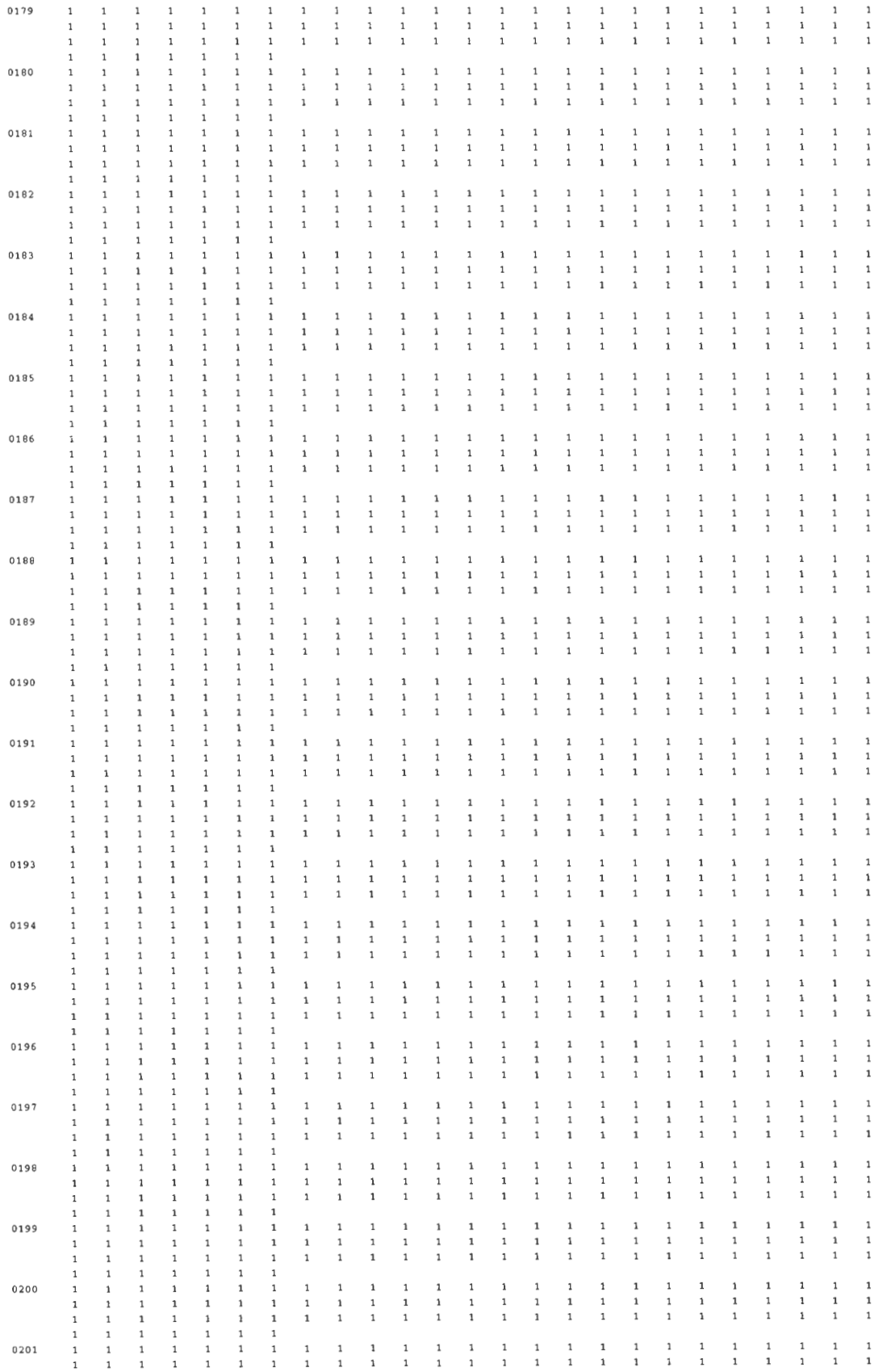

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      0   0   0   0   0   0   0
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0218  1   1   1   1  -1  -1  -1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
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0219  1  -1  -1  -1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
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0220 -1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
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 OPENING FILE ON UNIT  99:
 IBMPL2.DAT


          IBOUND                  FOR LAYER   2
 READING ON UNIT  99 WITH FORMAT: (8I9)

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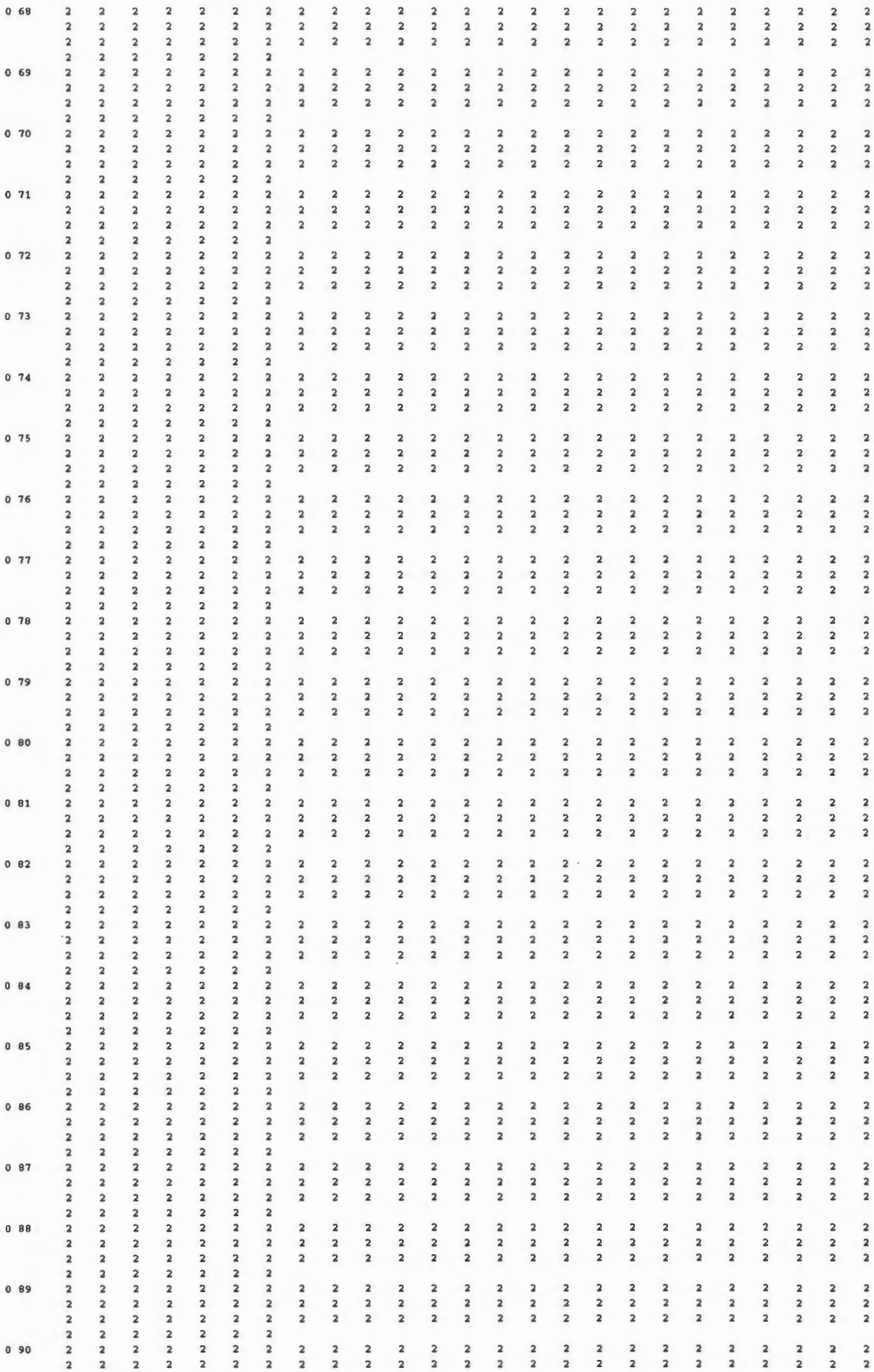

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 OPENING FILE ON UNIT  99:
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 HEADS WERE READ FOR LAYER    2, STRESS PERIOD    1 TIME STEP    1
 HEADS WERE READ FOR LAYER    3, STRESS PERIOD    1 TIME STEP    1
HEADS HAVE BEEN READ
 READING BCF BUDGET DATA FOR STRESS PERIOD     1 , TIME STEP     1 ...
  BCF FLOW RATES HAVE BEEN READ
 RECHARGE DATA BEING READ FOR STRESS PERIOD     1 , TIME STEP     1

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    243 CELLS HAD ERRORS >    1.0000
   MAXIMUM ERROR =     6.8706% IN ROW     1 COL     2 LAYER     3
 CELL-BY-CELL ERROR SUMMARY:  ROW  COLUMN  LAYER  ERROR(%)  ERROR(ABSOLUTE)
    1     2     1  -2.6473   -0.28977E-01
    2     1     1  -2.9195   -0.33533E-01
    2     2     1  -1.8689   -0.31848E-01
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2	3	1	-1.8678	-0.26445E-01
3	1	1	-1.6787	-0.29498E-01
3	2	1	-1.3247	-0.27356E-01
3	3	1	-1.1328	-0.27546E-01
3	4	1	-1.4237	-0.27483E-01
3	5	1	-1.6417	-0.28150E-01
3	6	1	-1.7526	-0.26775E-01
4	1	1	-1.3420	-0.30015E-01
4	2	1	-1.0962	-0.26502E-01
4	3	1	-1.0337	-0.26399E-01
4	4	1	-1.0932	-0.26979E-01
4	5	1	-1.0675	-0.26466E-01
4	7	1	-1.3663	-0.29847E-01
4	8	1	-1.6325	-0.31139E-01
4	9	1	-1.5569	-0.21768E-01
4	10	1	-1.3729	-0.14998E-01
4	11	1	-1.0695	-0.96084E-02
4	74	1	-1.0723	-0.11826E-01
4	75	1	-1.5892	-0.22201E-01
5	1	1	-1.0157	-0.27313E-01
5	7	1	-1.0626	-0.28863E-01
5	8	1	-1.1552	-0.29197E-01
5	9	1	-1.1087	-0.20022E-01
5	76	1	-1.2047	-0.23787E-01
5	77	1	-1.3692	-0.23293E-01
5	78	1	-1.6370	-0.25153E-01
5	79	1	-1.7793	-0.25254E-01
5	80	1	-1.9513	-0.25854E-01
5	81	1	-2.1178	-0.26319E-01
5	82	1	-2.2844	-0.26664E-01
6	18	1	1.1152	0.75489E-02
6	77	1	-1.0284	-0.24309E-01
6	78	1	-1.0838	-0.24010E-01
6	79	1	-1.1835	-0.24839E-01
6	80	1	-1.2101	-0.24231E-01
6	81	1	-1.3141	-0.25222E-01
6	82	1	-1.3580	-0.25051E-01
7	23	1	1.1327	0.77884E-02
7	82	1	-1.0091	-0.25400E-01
8	14	1	1.1904	0.85092E-02
8	68	1	1.2200	0.82695E-02
10	14	1	1.0077	0.74989E-02
10	17	1	-3.4377	-0.25654E-01
10	20	1	1.2946	0.95977E-02
11	17	1	-1.5691	-0.12079E-01
11	18	1	1.3408	0.10299E-01
12	18	1	1.0134	0.79321E-02
12	67	1	1.0683	0.81515E-02
13	15	1	1.0870	0.87765E-02
13	20	1	1.0169	0.82086E-02
13	56	1	1.0459	0.83513E-02
14	14	1	1.0922	0.91148E-02
14	19	1	1.0285	0.85899E-02
14	53	1	1.0704	0.88887E-02
16	58	1	1.0489	0.93681E-02
17	16	1	-1.7424	-0.16293E-01
17	17	1	-1.1590	-0.10978E-01
17	18	1	1.4442	0.13620E-01
17	60	1	-1.4800	-0.13769E-01
18	16	1	-2.2075	-0.21716E-01
18	17	1	1.4083	0.13867E-01
18	60	1	-2.6237	-0.25525E-01
18	62	1	1.3667	0.13271E-01
19	18	1	1.0218	0.10358E-01
19	60	1	-1.9720	-0.20122E-01
19	61	1	1.4955	0.15254E-01
20	16	1	-1.0309	-0.10944E-01
20	17	1	1.1967	0.12671E-01
27	68	1	-1.1816	-0.16366E-01
28	68	1	-1.5395	-0.22246E-01
1	2	2	4.5729	0.22399E-01
2	1	2	4.4312	0.23274E-01
2	2	2	2.8309	0.25168E-01
2	3	2	3.3515	0.23449E-01
3	1	2	2.6113	0.24127E-01
3	2	2	2.1864	0.24604E-01
3	3	2	1.5155	0.20687E-01
3	4	2	2.1267	0.22051E-01
3	5	2	2.4330	0.21788E-01
3	6	2	2.9381	0.22715E-01
4	1	2	1.8119	0.22422E-01
4	2	2	1.7139	0.23242E-01
4	3	2	1.5224	0.22003E-01
4	4	2	1.6002	0.22227E-01
4	5	2	1.5644	0.21847E-01
4	6	2	1.3638	0.22059E-01
4	7	2	1.9086	0.22981E-01
4	8	2	2.2551	0.23059E-01
4	9	2	2.0304	0.15526E-01
4	10	2	1.6580	0.10191E-01

4	11	2	1.2881	0.67070E-02
4	74	2	1.7084	0.97200E-02
4	75	2	2.9083	0.19939E-01
5	1	2	1.4723	0.22586E-01
5	2	2	1.3266	0.21438E-01
5	3	2	1.3424	0.22437E-01
5	4	2	1.3026	0.21845E-01
5	5	2	1.2912	0.21752E-01
5	6	2	1.3379	0.22751E-01
5	7	2	1.4940	0.23193E-01
5	8	2	1.6785	0.23981E-01
5	9	2	1.5191	0.15671E-01
5	10	2	1.3272	0.10449E-01
5	11	2	1.0000	0.63097E-02
5	12	2	1.2291	0.64940E-02
5	74	2	1.1093	0.10472E-01
5	75	2	1.1572	0.16643E-01
5	76	2	1.6063	0.17088E-01
5	77	2	2.3283	0.20624E-01
5	78	2	2.4718	0.19224E-01
5	79	2	2.8883	0.20252E-01
5	80	2	3.2213	0.20598E-01
5	81	2	3.5537	0.20818E-01
5	82	2	4.1691	0.22371E-01
6	1	2	1.1336	0.20858E-01
6	2	2	1.1394	0.21694E-01
6	3	2	1.1722	0.22820E-01
6	4	2	1.1496	0.22572E-01
6	5	2	1.1649	0.22893E-01
6	6	2	1.1601	0.22590E-01
6	7	2	1.2626	0.23684E-01
6	8	2	1.2816	0.23031E-01
6	9	2	1.2181	0.15534E-01
6	75	2	1.0004	0.15888E-01
6	76	2	1.3218	0.19117E-01
6	77	2	1.4161	0.18687E-01
6	78	2	1.6774	0.20509E-01
6	79	2	1.8176	0.20835E-01
6	80	2	1.9723	0.21369E-01
6	81	2	2.0044	0.20627E-01
6	82	2	2.3355	0.22900E-01
7	2	2	1.0517	0.23271E-01
7	7	2	1.0469	0.23090E-01
7	8	2	1.0771	0.23204E-01
7	76	2	1.0771	0.19521E-01
7	77	2	1.0853	0.18715E-01
7	78	2	1.2089	0.19892E-01
7	79	2	1.2847	0.20261E-01
7	80	2	1.3051	0.19815E-01
7	81	2	1.4622	0.21455E-01
7	82	2	1.6425	0.23340E-01
8	80	2	1.0618	0.20669E-01
8	81	2	1.0899	0.20701E-01
8	82	2	1.2054	0.22380E-01
10	16	2	-1.8659	-0.87105E-02
10	18	2	2.0817	0.98221E-02
11	17	2	1.1508	0.55648E-02
11	18	2	1.7154	0.81966E-02
17	15	2	-1.1477	-0.67852E-02
17	17	2	1.4871	0.89126E-02
18	17	2	1.8912	0.11697E-01
18	59	2	-1.5450	-0.95068E-02
18	61	2	1.9457	0.12038E-01
19	17	2	1.1983	0.77314E-02
19	61	2	1.7157	0.11011E-01
21	16	2	1.1090	0.77702E-02
1	2	3	6.8706	0.53189E-02
2	1	3	5.3275	0.44583E-02
2	2	3	2.7465	0.41676E-02
2	3	3	3.9682	0.46244E-02
3	1	3	3.1029	0.49215E-02
3	2	3	2.4659	0.48423E-02
3	3	3	1.6036	0.38705E-02
3	4	3	2.4849	0.44697E-02
3	5	3	2.8445	0.43614E-02
3	6	3	3.6245	0.47269E-02
4	1	3	1.8051	0.39224E-02
4	2	3	1.9494	0.46739E-02
4	3	3	1.6654	0.42715E-02
4	4	3	1.7862	0.43927E-02
4	5	3	1.8407	0.45542E-02
4	6	3	1.5855	0.45801E-02
4	7	3	2.3609	0.49889E-02
4	8	3	2.7871	0.49388E-02
4	9	3	2.4257	0.32415E-02
4	10	3	1.7317	0.18808E-02
4	74	3	1.5545	0.15077E-02
4	75	3	2.3750	0.26986E-02
5	1	3	1.6859	0.46056E-02
5	2	3	1.5101	0.43575E-02

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   5     3     3   1.5574    0.46565E-02
   5     4     3   1.4751    0.44253E-02
   5     5     3   1.4168    0.42703E-02
   5     6     3   1.6689    0.50828E-02
   5     7     3   1.7841    0.49356E-02
   5     8     3   1.9720    0.49967E-02
   5     9     3   1.7262    0.31711E-02
   5    10     3   1.3245    0.18679E-02
   5    11     3   1.0060    0.11440E-02
   5    74     3   1.0625    0.17790E-02
   5    75     3   1.1369    0.29017E-02
   5    76     3   1.1341    0.20943E-02
   5    77     3   2.5744    0.39002E-02
   5    78     3   2.6162    0.34316E-02
   5    79     3   3.1952    0.37322E-02
   5    80     3   3.6081    0.37965E-02
   5    81     3   4.2724    0.40680E-02
   5    82     3   5.0924    0.43767E-02
   6     1     3   1.3743    0.45443E-02
   6     2     3   1.2074    0.41353E-02
   6     3     3   1.2993    0.45553E-02
   6     4     3   1.2605    0.44586E-02
   6     5     3   1.2794    0.45298E-02
   6     6     3   1.3413    0.47043E-02
   6     7     3   1.4627    0.49339E-02
   6     8     3   1.4347    0.46263E-02
   6     9     3   1.1794    0.27044E-02
   6    10     3   1.0508    0.17898E-02
   6    76     3   1.3155    0.33770E-02
   6    77     3   1.3808    0.32148E-02
   6    78     3   1.6408    0.35209E-02
   6    79     3   1.7019    0.34072E-02
   6    80     3   2.1982    0.41461E-02
   6    81     3   2.2711    0.40521E-02
   6    82     3   2.6050    0.44086E-02
   7     2     3   1.1402    0.45662E-02
   7     3     3   1.0402    0.42331E-02
   7     4     3   1.0005    0.41035E-02
   7     5     3   1.1528    0.47316E-02
   7     6     3   1.1050    0.44974E-02
   7     7     3   1.1481    0.45823E-02
   7     8     3   1.2116    0.47193E-02
   7    76     3   1.1387    0.37051E-02
   7    78     3   1.0818    0.31793E-02
   7    79     3   1.3782    0.38761E-02
   7    80     3   1.3012    0.35149E-02
   7    81     3   1.5274    0.39798E-02
   7    82     3   1.7047    0.42928E-02
   8    80     3   1.0456    0.36647E-02
   8    81     3   1.1213    0.38308E-02
   8    82     3   1.1662    0.38895E-02
  10    15     3  -1.5818   -0.13634E-02
  10    18     3   2.2029    0.19048E-02
  11    19     3  -1.3141   -0.11525E-02
  17    17     3   1.3329    0.14723E-02
  18    17     3   1.2581    0.14336E-02
  18    18     3  -1.1949   -0.13582E-02
  18    58     3  -1.2475   -0.14215E-02
  18    61     3   1.3610    0.15519E-02
  19    62     3  -1.4187   -0.16739E-02

******** PARTICLE TERMINATION INFORMATION
PARTICLE      1  WAS STOPPED IN ROW 210, COL  62, LAY   2  TIME=  1.1876E+05

TRAVEL TIME SUMMARY FOR ALL PARTICLES:
MINIMUM TRAVEL TIME =   1.18759E+05
MAXIMUM TRAVEL TIME =   1.18759E+05
AVERAGE TRAVEL TIME =   1.18759E+05
 100.0% OF THE PARTICLES HAD TRAVEL TIMES LESS THAN THE AVERAGE TRAVEL TIME

      0 PARTICLES REMAIN ACTIVE
      0 PARTICLES STOPPED AT INTERNAL SINKS/SOURCES OR BOUNDARIES
      1 PARTICLES STOPPED IN AN AUTOMATIC TERMINATION ZONE
      0 PARTICLES WERE STRANDED IN INACTIVE CELLS
      0 PARTICLES WERE NOT RELEASED
-----
      1 PARTICLES ACCOUNTED FOR OUT OF A TOTAL OF       1
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APPENDIX F

MT3D Output File

Scenario 3

Scenario 3

Available Upon Request