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ORIGINAL



May 1, 2000

Ms. Blanca S. Bayo, Director  
Division of Records and Reporting  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee FL 32399-0870

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Dear Ms. Bayo:

Enclosed are an original and fifteen copies of Gulf Power Company's 1999 Cost of Service Load Research Study which is filed pursuant to Rule 25.6.0437(7).

Sincerely,

*Susan D. Ritenour (lw)*

Susan D. Ritenour  
Assistant Secretary and Assistant Treasurer

lw

Enclosure

- AFA \_\_\_\_\_
- APP \_\_\_\_\_
- CAF \_\_\_\_\_
- CMU \_\_\_\_\_
- GTR \_\_\_\_\_
- EAG \_\_\_\_\_
- LEG I \_\_\_\_\_
- MAS \_\_\_\_\_
- OPC \_\_\_\_\_
- RRR \_\_\_\_\_
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- WAW \_\_\_\_\_
- OTH \_\_\_\_\_

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05331 MAY-18

FPSC-RECORDS/REPORTING

1999 Cost of Service  
Load Research Rule  
DOCKET NO. 820491-EU  
GULF POWER COMPANY  
April 28, 2000  
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Results of the  
1999 Cost of Service  
Load Research Study

DOCUMENT NUMBER-DATE  
05331 MAY-18  
FPSC-RECORDS/REPORTING

INTRODUCTION

The purpose of this document is to meet the filing requirements of the Cost of Service Load Research Rule, Docket No. 820491-EU, Order No. 13026, issued February 23, 1984, by the Florida Public Service Commission.

This rule requires the reporting of the results of each load research study conducted in accordance with the specifications of this rule within 120 days following completion of the study. The results reported within this report are for load research studies conducted between January 1, 1999, and December 31, 1999.

A rate data summary is provided on Tables 1A and 1B and provides a comparison of various significant variables between rate classes. The number of sample points for each rate class is provided in these tables, as well as the coincident system peak (CP) demand, summer and winter CP demands, and relative accuracies.

TABLE 1A

Rate Data Summary  
 1999

<u>Rate</u>	<u>Year End Customers</u>	<u>Annual MWh</u>	<u>% of Total</u>	<u>System CP kW (1999)</u>	<u>% of Total</u>
RS/RST	313,259	4,423,016	42.3%	1,020,301	47.0%
GS/GST	27,274	291,815	2.8%	77,618	3.6%
GSD/GSDT	13,540	2,164,644	20.7%	425,368	19.6%
LP	140	480,386	4.6%	78,644	3.6%
LPT	111	1,011,686	9.7%	223,760	10.3%
RTP	6	602,624	5.8%	19,567	0.9%
SBS	2	42,162	0.4%	0	0.0%
CISR/CSA	2	348,655	3.3%	40,221	1.9%
Others (1)	<u>9,217</u>	<u>1,087,658</u>	<u>10.4%</u>	<u>283,521</u>	<u>13.1%</u>
TOTAL	363,551	10,452,646	100.0%	2,169,000	100.0%

(1) Sales for Resale, Rates OS and PXT, unbilled, Interdepartmental, company use, losses and SEPA allocation.

TABLE 1B

Rate Data Summary  
 1999

<u>Rate</u>	<u>Sample Points</u>	<u>% of Total</u>	<u>Summer CPKW</u>	<u>Relative Accuracy (%)</u>	<u>Winter CPKW</u>	<u>Relative Accuracy (%)</u>
RS/RST	225	25.2%	1,020,301	5.27	1,161,300	6.39
GS/GST	380	42.2%	77,618	6.00	63,444	9.66
GSD/GSDT	160	17.8%	425,368	4.47	268,752	9.22
LP	58	6.4%	78,644	5.07	63,453	6.75
LPT	49	5.4%	223,760	0.85	68,063	2.87
RTP	21	2.3%	19,567	0.00	121,302	0.00
SBS	2	0.2%	0	0.00	49,711	0.00
CISR/CSA	2	0.2%	40,221	0.00	33,900	0.00
Others (1)	<u>3</u>	<u>0.3%</u>	<u>283,521</u>	N/A	<u>263,075</u>	N/A
TOTAL	900	100.0%	2,169,000	N/A	2,093,000	N/A

(1) Sales for Resale, Rate OS, unbilled, Interdepartmental, company use, losses and SEPA allocation.

SAMPLE DESIGN METHODOLOGY

The Load Research Sampling Plan that was used in this study was approved by the Commission in 1998. The results of the 1997 load research study were utilized to determine estimates of variance for each rate class. These results provided a relatively accurate estimate of the variance, which was used in the sample design of the 1999 plan.

The combined ratio estimator methodology was used for the sample size estimates. The formulas for this plan are provided in Table 2. The definitions for the variables used in these formulas are provided in Table 3.

Stratified random sampling was used within each rate class design to achieve better accuracy with fewer sample points. The actual calculations for each rate class, which provide sample size determinations for both summer and winter peaks, are provided within the Cost of Service Load Research Plan submitted to the Commission for approval. Provided on Table 4 are the strata allocation and sample design for each rate class.

TABLE 2

Formula for Sample Plan

I. Sample Size Estimates Using Combined Ratio Estimator:

$$n = \frac{\left[ \sum_{h=1}^L W_h \sqrt{F_h} \right]^2}{L} + \frac{\left[ \frac{D}{1.65} \left( \frac{\hat{T}_y}{N} \right) \right]^2 + \frac{\sum_{h=1}^L W_h F_h}{N}}{L}$$

$$F_h = S_{yh}^2 + R^2 S_{xh}^2 - 2Rr_h * S_{yh} * S_{xh}$$

$$\hat{T}_y = R * \hat{T}_x$$

$$R = \frac{\sum_{h=1}^L W_h \bar{Y}_h}{\sum_{h=1}^L W_h \bar{X}_h}$$

II. Neyman Allocation of Sample Points to Strata

$$n_h = \frac{W_h S_{yh}}{\sum_{h=1}^L W_h S_{yh}} * n$$



TABLE 3

Definitions for Formulas

- $n$  = Sample Size Estimate
- $n_h$  = Stratum Sample Size
- $W_h$  = Stratum Weight
- $\hat{D}$  = Percent Relative Accuracy (0.1)
- $T_y$  = Estimated Population CPKW
- $N$  = Population Number of Customers
- $R$  = Ratio Estimator
- $T_x$  = Population kWh
- $\bar{Y}_h$  = Stratum Average CPKW
- $S_{yh}$  = Stratum Standard Deviation of CPKW
- $\bar{x}_h$  = Stratum average monthly kWh
- $S_{xh}$  = Stratum standard deviation of monthly kWh
- $r_h$  = Stratum correlation coefficient between CPKW & Monthly kWh

Subscripts

- $h$  = Stratum number
- $y$  = CPKW variable
- $x$  = Monthly kWh variable

TABLE 4

**GULF POWER COMPANY**  
**1997 Cost of Service Load Research Rule Sample Size**

<u>Rate</u>	<u>Strata Allocation</u>	<u>Sample Size</u>	
RS	1) MF GT 900 kWh	20	
	2) MF 0-900 kWh	21	
	3) MH	28	
	4) SFD 1301-2000 kWh	47	
	5) SFD GE 2001 kWh	53	
	6) SFD 0-1300 kWh	56	
	TOTAL	225	
GS	1) 0-600 kWh	77	
	2) 601-1400 kWh	94	
	3) 1401-2600 kWh	94	
	4) over 2600 kWh	115	
	TOTAL	380	
GSD	1) 0-20.0 kW	22	
	2) 20.1-50.0 kW	46	
	3) 50.1-130.0 kW	46	
	4) over 130.0 kW	46	
	TOTAL	160	
LP	1) Less than 800 kW	30	
	2) 800 kW and greater	28	(census)
	TOTAL	58	
LPT	1) Less than 1000 kW	20	
	2) 1000 kW and greater	29	(census)
		49	
PXT	1) All customers	1	(census)
RTP	1) All customers	21	(census)
SBS	1) All customers	2	(census)
CISR/CSA	1) All customers	2	
	TOTAL	898	

DATA ANALYSIS METHODOLOGY

Load profiles for each rate schedule were estimated using the combined ratio technique. The equation used to calculate the demand estimate for each hour of the year is provided below. The definitions for the variables for these formulas are provided in Table 5.

Load profiles were balanced to territorial input as follows:

$$\begin{aligned}
 &(\text{Input kW}) - (\text{Losses}) - (\text{Rate 1 kW}) - (\text{Rate 2 kW}) - \dots \\
 &\quad - (\text{Rate } n\text{ kW}) = \text{Residual kW}
 \end{aligned}$$

This residual profile was distributed to the rate schedule profiles by allocating on the standard deviation(s) of the demand estimate, i.e.:

$$\text{Rate}_i \text{ kW} = \text{Rate}_i \text{ kW} + \text{Residual kW} \frac{S_i}{S_1 + S_2 + \dots + S_i + \dots + S_n}$$

The coincident and non-coincident demands and residential load profile shown in this report have been adjusted per this balancing process. Confidence intervals and relative accuracies are based on unadjusted estimates of demand. The average of the estimated peak demand, confidence intervals, and relative accuracies are also based on unadjusted estimates of demand.

TABLE 5

Definitions for Formulas

- $\hat{T}_y$  = Estimated Population Hourly kW
- $\hat{T}_x$  = Population Monthly kWh
- R = Ratio Estimator
- $W_h$  = Stratum Weight
- $\bar{Y}_h$  = Stratum Sample Average Hourly kWh
- $\bar{X}_h$  = Stratum Sample Average Monthly kWh
- $V(\hat{T}_y)$  = Estimated Variance of  $\hat{T}_y$
- $n_h$  = Stratum Number of Good Sample Points
- $N_h = W_h N$  ; N = Population Number of Customers
- $S_{yh}$  = Stratum Sample Standard Deviation of kW
- $S_{xh}$  = Stratum Sample Standard Deviation of kWh
- $r_h$  = Stratum Correlation Coefficient Between kW & kWh
- $S = \sqrt{\frac{\hat{\sum Y^2}}{n} - \frac{(\hat{\sum Y})^2}{n^2}}$  = Estimated Standard Deviation of  $\hat{T}_y$

Subscripts

- h = Stratum number  
 L = Total Number of Strata  
 y = kW variable  
 x = kWh variable

STUDY RESULTS

Provided on the following tables are the rate class estimated non-coincident and coincident peak kW demands for each month of the year 1999. The relative accuracy and the confidence interval at the 90% confidence level are also provided. Results for rate classes RS/RST, GS/GST, GSD/GSDT, LP, LPT, SBS, RTP, and CISR/CSA are included. Following this data are the 8760 hourly demands for rate class RS/RST for calendar year 1999. Provided also on Table 6 are the monthly coincident and non-coincident peak demands, dates and times.

**TABLE 6**  
**1999**  
**Coincident and Non-Coincident Peak Demand**  
**Days and Hours**

MONTH	Coincident Peak		Non-Coincident Peaks																	
	RS	GS	GSD	LP	LPT	PXT	RTP	SBS	CISA/CSR	RS	GS	GSD	LP	LPT	PXT	RTP	SBS	CISA/CSR		
JAN	5	0800	5	0800	5	1100	5	1100	21	1400	21	1500	22	1300	18	1100	2	1500	30	2200
FEB	22	0800	22	0700	22	1000	9	1400	9	1400	10	1400	16	2000	11	1400	22	1400	1	1300
MAR	15	0900	4	0700	15	1000	18	1400	31	1400	25	1200	2	1600	25	1000	31	2200	26	1200
APR	24	1700	25	1700	29	1200	29	1200	27	1100	26	1500	28	1000	26	1000	29	1400	2	0100
MAY	25	1700	22	1800	26	1500	26	1500	26	1400	26	1400	30	1600	18	1400	28	1100	24	1300
JUN	4	1500	30	1800	30	1500	22	1500	15	1400	22	1400	1	1400	29	1800	1	2300	16	2100
JUL	29	1700	31	1800	8	1500	29	1500	29	1400	29	1500	20	1300	22	2000	5	1400	25	0300
AUG	13	1500	13	1800	2	1400	12	1400	19	1400	12	1400	9	1800	8	0100	14	2000	18	2300
SEP	7	1600	5	1500	8	1500	8	1500	8	1400	28	1500	2	1000	28	1300	29	1100	30	2000
OCT	3	1600	3	2000	14	1600	6	1600	13	1400	12	1500	4	1100	11	1100	20	0800	31	2200
NOV	4	0700	4	0700	10	1500	23	1500	10	1400	10	1400	23	1300	12	2100	8	1600	1	1900
DEC	2	0700	28	0800	17	1100	9	1400	13	1100	9	1500	5	1000	28	1300	23	0300	7	0900

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GULF POWER COMPANY  
 LOAD RESEARCH DATA  
 RATE SCHEDULE RS/RST  
 January 1999 to December 1999

1999	Estimated NonCoincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %	Estimated Coincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %
JAN	1165854	81364	6.88	1161300	75947	6.39
FEB	931524	74152	8.22	895680	72874	8.26
MAR	763048	66472	9.12	631755	61928	10.62
APR	817841	56451	7.06	783631	53668	7.34
MAY	845712	49049	6.13	788312	45931	6.33
JUN	967132	50543	5.24	872924	52328	6.08
JUL	1106899	61381	5.58	1044576	51178	4.96
AUG	1086778	55620	5.27	1020301	57676	5.57
SEP	997529	51924	5.16	885090	38475	4.42
OCT	831430	54223	6.30	831430	54223	6.30
NOV	725348	82628	11.77	725348	82628	11.77
DEC	911276	83594	8.60	822789	72947	9.47
AVG				830127	25698	3.10



GULF POWER COMPANY  
 LOAD RESEARCH DATA  
 RATE SCHEDULE GS/GST  
 January 1999 to December 1999

1999	Estimated NonCoincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %	Estimated Coincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %
JAN	86798	9328	11.89	63444	6345	9.66
FEB	75148	9810	13.91	42788	4519	10.78
MAR	65027	7926	12.71	59053	5965	10.97
APR	66819	3824	6.13	41070	4212	10.08
MAY	74394	5161	7.63	70605	3917	6.01
JUN	79663	5610	7.18	78879	4884	6.29
JUL	85248	4877	5.98	76052	4714	6.29
AUG	85205	4809	6.03	77618	4725	6.00
SEP	75937	4583	6.34	75625	4407	5.97
OCT	66003	4180	6.54	34209	3076	8.58
NOV	55411	3628	6.85	29822	4135	14.43
DEC	55856	5478	10.13	32520	3486	11.62
AVG				53674	2267	4.22

GULF POWER COMPANY  
 LOAD RESEARCH DATA  
 RATE SCHEDULE GSD/GSDT  
 January 1999 to December 1999

1999	Estimated NonCoincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %	Estimated Coincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %
JAN	343275	25205	7.86	268752	25602	9.22
FEB	318117	15206	4.89	240470	18934	7.99
MAR	302378	19890	7.17	280287	18736	7.06
APR	362473	17954	5.26	305337	17335	5.79
MAY	408907	19734	5.24	383366	18955	5.30
JUN	408771	16143	3.99	406042	19881	4.96
JUL	450039	17659	4.08	420718	16715	4.01
AUG	442976	20979	4.81	425368	19226	4.47
SEP	427099	19415	4.72	418299	17462	4.25
OCT	362169	23055	6.58	286666	14866	5.05
NOV	329715	17385	5.71	197945	16251	8.40
DEC	298801	16405	5.71	212057	15447	7.69
AVG				308090	9274	3.01

GULF POWER COMPANY  
 LOAD RESEARCH DATA  
 RATE SCHEDULE LP  
 January 1999 to December 1999

1999	Estimated NonCoincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %	Estimated Coincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %
JAN	73351	3460	5.01	63453	4389	6.75
FEB	72565	3097	4.35	65715	4014	6.18
MAR	67805	3089	4.77	65789	3731	5.94
APR	81884	4218	5.41	62069	3177	5.27
MAY	85018	3668	4.61	76431	2264	3.09
JUN	92345	15348	17.38	78029	3045	3.94
JUL	86764	4141	5.13	79428	3633	4.63
AUG	87495	5216	6.22	78644	4038	5.07
SEP	88487	3679	4.34	80361	2156	2.71
OCT	77414	3571	4.75	55632	2953	5.16
NOV	72299	3411	5.05	52964	2467	4.72
DEC	67014	3529	5.55	56510	2594	4.75
AVG				67138	2101	3.13

GULF POWER COMPANY  
 LOAD RESEARCH DATA  
 RATE SCHEDULE LPT  
 January 1999 to December 1999

1999	Estimated NonCoincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %	Estimated Coincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %
JAN	73593	1380	1.92	68063	1974	2.87
FEB	70858	1650	2.34	62396	1564	2.52
MAR	73185	1140	1.57	67003	1334	2.02
APR	79854	1195	1.52	72161	1292	1.64
MAY	90115	1978	2.24	85148	1706	2.06
JUN	205503	1467	0.72	200350	1142	0.57
JUL	213236	1544	0.73	203831	1444	0.71
AUG	229293	2328	1.03	223760	1908	0.85
SEP	213262	1532	0.72	208087	1307	0.63
OCT	197015	1837	0.94	174008	2683	1.53
NOV	171395	1938	1.15	136518	1334	0.98
DEC	165949	1699	1.02	144304	1096	0.76
AVG				136802	849	0.62

GULF POWER COMPANY  
 LOAD RESEARCH DATA  
 RATE SCHEDULE RTP  
 January 1999 to December 1999

1999	Estimated NonCoincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %	Estimated Coincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %
JAN	138283	0	0.00	121302	0	0.00
FEB	148065	0	0.00	109250	0	0.00
MAR	144522	0	0.00	112342	0	0.00
APR	165819	0	0.00	137273	0	0.00
MAY	173200	0	0.00	125793	0	0.00
JUN	64409	0	0.00	30503	0	0.00
JUL	49887	0	0.00	25402	0	0.00
AUG	49742	0	0.00	19567	0	0.00
SEP	55124	0	0.00	18960	0	0.00
OCT	57903	0	0.00	33921	0	0.00
NOV	61858	0	0.00	19287	0	0.00
DEC	52728	0	0.00	14033	0	0.00
AVG				63969	0	0.00

GULF POWER COMPANY  
 LOAD RESEARCH DATA  
 RATE SCHEDULE SBS  
 January 1999 to December 1999

1999	Estimated NonCoincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %	Estimated Coincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %
JAN	55453	0	0.00	49711	0	0.00
FEB	25986	0	0.00	0	0	0.00
MAR	59731	0	0.00	0	0	0.00
APR	38093	0	0.00	0	0	0.00
MAY	60984	0	0.00	0	0	0.00
JUN	59071	0	0.00	0	0	0.00
JUL	350	0	0.00	0	0	0.00
AUG	1225	0	0.00	0	0	0.00
SEP	58588	0	0.00	0	0	0.00
OCT	56925	0	0.00	400	0	0.00
NOV	53916	0	0.00	0	0	0.00
DEC	300	0	0.00	0	0	0.00
AVG				4176	0	0.00

Gulf Power Company  
 Load Research Data  
 Rate Schedule CSA  
 January 1999 to December 1999

1999	Estimated NonCoincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %	Estimated Coincident Peak (KW)	90% Confidence Interval (KW)	Relative Accuracy %
JAN	39594	0	0.00	33900	0	0.00
FEB	39530	0	0.00	26712	0	0.00
MAR	39318	0	0.00	34664	0	0.00
APR	40056	0	0.00	38368	0	0.00
MAY	42871	0	0.00	36928	0	0.00
JUN	50430	0	0.00	45896	0	0.00
JUL	53879	0	0.00	39921	0	0.00
AUG	41371	0	0.00	40221	0	0.00
SEP	41064	0	0.00	37751	0	0.00
OCT	54339	0	0.00	41152	0	0.00
NOV	54366	0	0.00	52605	0	0.00
DEC	46286	0	0.00	44985	0	0.00
AVG				39425	0	0.00

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 RATE SCHEDULE RS/RST  
 JANUARY 1, 1999 TO DECEMBER 31, 1999  
 HOURLY DEMANDS(KW)

O10199	445804	435432	422933	422526	429956	446488	491776	536207	545912	540125	517759	499621
	464779	426988	404347	396518	432982	487880	515658	500839	478476	455461	399363	345897
O10299	320146	282742	269750	266744	257928	269877	322230	360679	398646	434547	453626	457278
	453179	437903	427152	418545	474013	514158	522514	516721	489525	467656	440462	410586
O10399	394909	385763	404467	439154	473766	521278	602190	712284	777526	777054	736820	696783
	687523	656024	624424	625533	685656	803128	850443	867167	888403	877300	800436	756844
O10499	747771	760336	773463	796402	836562	954676	1073881	1051377	972962	885081	790409	777681
	690359	697452	757761	825450	987658	1062208	1065346	1052281	1017177	970867	904373	858022
O10599	859530	886522	896545	925856	963884	1041523	1165854	1161300	1052272	952076	885574	782717
	762105	700493	673116	657695	768603	940976	1020969	1019975	1019168	1010501	919483	855285
O10699	832843	840713	822052	829308	869178	959901	1085801	1021602	916833	788500	676323	588022
	536166	491399	462184	471014	534140	658482	714055	721340	705667	664504	573850	503603
O10799	467746	451857	436929	441272	463031	566926	688615	671908	588953	531725	434553	385148
	354102	331669	310498	332660	395833	504282	555610	557488	534369	504518	437805	379760
O10899	330359	323995	318229	329253	339041	423779	530180	536031	459303	418580	376364	344100
	326566	311912	300788	314140	366845	436403	471992	449772	415228	391272	352617	296870
O10999	269039	248830	231293	227278	231643	245708	277593	340223	391117	438986	454240	475394
	507726	535372	564009	600612	635392	719720	776586	788464	792502	802913	787606	771075
O11099	754308	759362	775969	800013	818776	864901	922928	1018907	1024065	974112	855496	784217
	736567	679733	614921	595704	657880	764247	824012	835487	828309	812320	763520	712448
O11199	681991	701550	719068	740522	762111	883570	1006012	953495	803717	715379	599028	529307
	478746	432926	403502	415125	495337	642056	713678	751189	737241	716613	661645	602908
O11299	578796	572815	580647	600594	617740	718443	842298	810499	664182	540996	452546	391071
	351299	337648	322871	349463	412294	517397	578865	557397	540220	504873	437100	352138
O11399	319475	301969	297323	295301	309561	394550	499808	475393	422952	384101	347649	333901
	332348	315108	305453	307323	370176	469012	513999	502927	480890	438211	361537	283485
O11499	248493	235392	251986	238585	255086	332461	434499	433065	389599	372609	357332	352585
	351354	325543	322057	340142	376606	467103	505282	502763	489211	449340	390902	320197
O11599	279435	270404	293031	302885	333322	438161	583110	595325	531107	471112	439223	386540
	380070	344694	339198	339943	393101	497642	565856	570034	573579	570509	536496	504657
O11699	483649	482369	482432	498389	509577	547966	599354	656474	634741	579584	513126	454527
	414764	391654	376117	356062	403896	468595	492120	485240	450152	463139	397973	346372
O11799	311988	288663	273838	272878	266945	279214	319564	377647	426272	424676	395913	400513
	409895	392260	386788	383431	405661	469816	482016	466152	440240	400749	355943	291479
O11899	251663	234159	224523	215352	211713	247191	3748067	3748067	3748067	3748067	403468	390172
	391482	381732	367292	371080	397764	471092	506107	493155	467034	425862	358846	285077
O11999	254079	255047	278807	313319	419654	545494	552906	480383	416378	363092	323468	323468
	300866	291248	298268	293954	338836	441217	500027	508526	484590	453975	386683	325794
O12099	282745	272737	262754	259745	273874	350068	442727	426024	364637	332689	315807	305506
	282808	279936	299527	311413	361675	443215	498485	479884	468518	434474	364190	288367
O12199	235314	221332	217244	210132	220838	288157	376047	379774	340119	332208	334335	314378
	336007	311832	327754	339134	384935	469670	512756	495056	479737	420964	362945	327856
O12299	241728	220151	215610	216354	216478	275965	368829	378237	342452	342988	338951	322222
	321987	318471	305922	342527	383970	453789	480563	458117	425595	408202	374236	324916
O12399	270411	249936	230278	227269	218735	218587	249005	290648	333350	406300	424223	426132
	419650	406883	390562	372948	403605	448596	481287	454090	414037	394167	363317	339491
O12499	304931	289344	286912	288952	301070	312220	382001	476361	537855	527197	478479	437217
	429863	408842	387677	382291	419388	496907	539775	558010	561071	542966	485191	423967
O12599	406361	416508	422270	435231	460728	581104	710180	660244	508265	447366	386629	358486
	333323	335601	315653	309297	358604	465067	540210	522446	533752	477786	437257	369251
O12699	334273	328451	334423	354864	382096	493401	628210	601864	487271	404331	349997	314347
	294628	286040	268849	282247	327907	415152	505943	488855	467845	441015	390488	307490
O12799	301167	298809	296940	310702	330909	433756	562521	524212	435966	366791	329602	310195
	301551	296481	294012	297843	340687	431638	497553	477075	455420	410847	349981	283824
O12899	241819	233076	222115	230072	235833	325633	427776	420814	371270	334796	310312	299941
	302950	289369	303933	318459	366752	432678	497383	481439	470328	409186	347309	268115
O12999	241515	222147	220626	221526	225606	288656	394831	410717	366430	340153	320989	314048
	311132	302414	317125	322153	354486	426411	462017	451185	433796	387223	341003	285935
O13099	253472	230426	222333	219415	211185	225563	252830	324387	365814	407208	403257	415667
	416403	393817	383412	389034	420499	472163	491436	467275	431462	408064	363486	306466
O13199	271499	241589	229266	220635	222834	230453	252420	323887	393902	423268	416877	416375
	437981	442440	418553	432443	449320	474070	464902	462079	448510	415514	360530	282638
O20199	235597	218991	215620	216018	222042	294714	392480	392480	349002	323967	326680	337170
	342543	309983	303507	324062	346555	426435	491792	493309	475252	445009	381954	301709
O20299	261170	247016	245105	246855	261122	261170	464513	450102	397099	362226	352354	321206
	306530	280835	291238	312043	357166	463925	508762	518128	477192	423600	374647	294539
O20399	247266	236753	235924	236428	252855	332630	443903	432086	378037	352043	328082	314924
	310312	311001	320599	340484	387187	452677	502407	486803	465272	429925	358302	287637
O20499	252582	237802	233674	224367	229687	297042	391831	400584	347505	328107	324373	333769
	331145	322009	340482	357236	369178	439404	503498	493621	469242	427994	364178	288672



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020599	260601	247808	244378	255991	286937	391933	533677	525002	448788	394667	339027	308760
	294951	302680	313614	325966	350148	400138	468447	467466	433854	432100	413335	359711
020699	344331	336099	326774	334119	346587	370833	432229	495185	494354	471449	443702	410725
	391759	370487	368689	367558	380152	412970	466365	444414	418617	390988	351445	309823
020799	280040	258373	235973	225233	242951	264935	309668	371653	429123	411954	392888	397164
	409830	406635	407092	408265	419527	483751	525097	504887	475725	426497	370842	282934
020899	239410	224290	212261	209760	212277	282248	374221	379104	340533	327142	324274	332688
	344902	352876	363621	369146	397361	463780	525343	501748	486997	438147	378399	284592
020999	245314	222943	209863	209053	210838	270128	366752	362513	345425	324985	336085	341910
	354318	348744	348016	355219	403676	457327	522330	517838	484472	440322	374039	282434
021099	246068	225010	217351	210201	215349	282032	365609	362553	348201	336976	339305	355933
	369354	383182	390742	395520	434733	477645	529806	522042	491401	446680	375330	306443
021199	252586	230575	221411	216250	219487	272369	375061	369392	338880	338980	348261	357211
	369151	368903	379404	390385	405354	455892	525974	497412	474597	438956	361949	289926
021299	247847	218914	213224	209428	212085	272532	376276	390256	361893	337592	335698	324731
	324852	336525	357996	391225	437432	531365	615994	613650	617213	608672	582372	541471
021399	534979	530336	531163	554108	574307	620044	700489	749886	742718	681691	593825	531389
	486367	443763	404231	394042	446269	514011	594765	611992	596930	592007	587511	540737
021499	541300	534165	556502	579102	599851	649788	734801	811790	805871	726900	623450	571504
	520044	470718	432461	406489	430783	518439	597880	619584	636162	623718	592581	536695
021599	528267	537251	495573	569891	596948	677358	782625	766990	662032	561385	498459	426551
	387088	350357	350450	349306	380612	465051	562416	561959	550996	511428	453858	383140
021699	350149	329557	331485	336870	361495	448639	563052	545242	447814	380254	332131	303564
	310150	295820	295515	310566	348906	419184	492612	471927	474255	417779	341344	272683
021799	244204	230493	224000	226419	242772	309816	416945	409931	340988	325882	307623	301228
	305953	294829	296453	309451	340078	440104	486433	484652	462293	431733	353700	284068
021899	240094	229215	226982	225136	231918	316346	418099	428716	364395	334310	345733	299082
	302371	287874	279295	299771	325667	410690	488996	513819	483080	445105	391985	312143
021999	267134	264193	259264	261564	268469	333813	462393	455911	385869	344640	312742	281805
	300799	282931	281452	303707	350948	424606	506043	488057	470920	478711	445117	400540
022099	381674	364897	373134	386753	398361	438757	516522	583867	588241	539886	490478	427510
	393193	375572	360558	350145	368792	433842	486265	473080	457193	430491	394384	330647
022199	314994	324345	321921	314681	338483	362558	430634	513438	540755	504978	458106	424233
	429795	415732	407192	425749	475334	580980	642037	674037	691811	696255	642224	573694
022299	565928	583280	605472	626723	675078	784932	931524	895680	757769	678186	581876	521179
	469586	398132	386167	384213	446324	578869	699698	750902	762393	719355	657151	589409
022399	570177	573672	581161	597254	609987	703889	827680	768655	648263	539243	456492	406688
	394035	365776	368108	360858	402908	515426	583080	567055	539704	501469	442524	373426
022499	350706	351399	365622	380294	418462	542725	683105	633724	514616	449206	409593	361750
	323433	302613	285599	294502	330086	441859	542445	537199	538252	540527	489411	419877
022599	416791	409095	432292	455529	484908	610969	743428	679700	528280	454031	392918	332239
	317234	284960	277694	282235	321098	421687	507461	503256	484289	464877	419009	343776
022699	310903	304439	311519	323951	348471	451157	592362	552073	445316	362729	306766	283374
	291100	290305	291448	318620	351866	382936	451008	435625	404448	376240	339969	298185
022799	271917	253763	254240	252092	261055	283289	337570	397611	414387	427133	418512	403701
	390253	385760	379137	367204	383423	428005	482397	474589	431701	405736	361894	322657
022899	267810	228056	212443	212635	214426	262395	263070	328297	389804	419509	403632	406156
	393773	393197	367682	360371	395299	438283	495241	516176	479086	443710	381897	300945
030199	269665	264072	273564	282662	308829	436374	589374	528268	441011	371343	352268	315663
	309283	289786	301235	312412	333319	401890	501478	502105	480596	438980	352650	282668
030299	250086	237804	241918	242502	275726	390781	530366	468717	372941	332561	309017	287243
	292949	297945	307584	317418	343555	409365	492647	471555	455274	413476	348577	262756
030399	236349	217314	202270	205364	214438	294985	396919	401364	373541	343864	323170	321455
	310718	293345	297603	301501	347536	433609	533801	541346	544667	527584	478153	413930
030499	390216	398057	416571	437253	469265	614837	763048	685139	559687	487728	417730	358212
	341214	311294	307738	315882	350918	453133	567082	576820	572778	570180	485861	443683
030599	417324	416806	429829	444357	485049	577842	702594	614908	488080	409223	304499	304499
	310278	297212	279091	293753	339876	395238	472540	464145	426936	412268	373896	320304
030699	278784	255701	245579	239667	249397	277215	315498	374129	417732	452525	437839	430776
	409121	399433	370883	389850	406743	428103	475126	479852	441395	413375	383579	322946
030799	270314	243405	226158	225305	226603	251298	311426	387971	469538	477716	447376	413933
	403281	383352	369641	365191	395631	457812	517313	527060	516792	472184	404929	336109
030899	305781	299459	303418	310272	330817	438602	587416	535787	456587	404815	399982	378397
	358783	333335	326847	344587	397166	488196	555499	544041	496900	453820	369219	293620
030999	255538	233111	228445	221230	231865	299375	401584	398426	354878	353034	329648	312774
	315542	304631	309745	326848	348285	423666	501506	512291	483650	415884	362275	266629
031099	232707	212830	214242	224270	252692	354277	500882	479604	381922	345545	326019	312953
	298417	289005	291294	313756	344176	411187	485475	496887	477394	445839	377630	293911
031199	260400	246909	255155	256930	284580	388744	531917	500254	423578	357475	335652	291593

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	285059	283178	284050	314473	341996	408121	490789	501745	482445	439449	373607	309753
031299	271630	257692	252992	261360	292660	391545	535388	526525	456078	390649	360801	329985
	335462	316247	320525	330826	380353	465695	508488	502202	483491	449802	410190	333347
031399	304862	286372	287720	273700	293253	318289	372848	443226	457212	447680	426771	410267
	389174	381548	382832	384032	422411	475382	479520	456690	430824	393261	346630	301006
031499	263833	223487	215151	208456	211791	227081	280736	368311	444911	485432	459453	454345
	448172	445352	426050	433638	479036	553793	592592	599958	599477	576318	505365	437897
031599	412118	407947	409877	425042	465082	568236	718888	687682	631755	602453	524535	453386
	401232	359439	345309	335275	381956	477778	587574	612210	618728	587142	517423	460695
031699	413307	434881	439371	460866	511513	621398	749402	656557	502689	392223	354233	318480
	300036	289498	292669	301989	336034	405478	506606	529581	512040	463988	426699	345985
031799	334536	316901	326073	347462	384834	500429	635478	557417	410099	355497	326604	297898
	297024	266855	284617	297601	324465	398727	479504	495980	468675	440365	363539	285651
031899	259492	244274	242837	243121	270009	368422	486643	461557	364906	339746	310699	309401
	298634	301320	317057	340235	364686	419035	483308	500724	475266	442520	349424	277751
031999	244897	209982	212045	214131	225477	313675	422567	411809	351462	330219	315186	333643
	330754	328103	340514	369314	388023	462159	470340	460386	433815	411800	365980	291742
032099	252048	227146	223111	212181	220923	259923	319466	382797	414037	400460	384110	372912
	385344	382849	390970	405619	410680	433927	478355	474736	438766	405082	351693	306290
032199	264052	230564	215312	209815	212624	236995	291738	370217	430856	430810	403478	403174
	398601	384555	376404	366675	387460	414483	478740	510011	489374	434443	370978	298811
032299	283472	258744	266129	270028	305058	425080	561160	493309	401739	355694	319753	323935
	319824	285994	285004	319238	345405	401041	486885	496029	473888	442170	374632	308436
032399	270802	269728	279508	288548	325287	445980	559360	496673	393195	329257	308821	289991
	307098	293748	301782	314838	331166	408412	489617	492128	453810	415181	335912	264979
032499	237473	213373	222250	226800	255634	355319	466165	424822	362475	310171	301053	297843
	294781	309877	324574	334998	372162	414520	490890	503950	461647	425795	348065	275693
032599	228262	216675	197462	197663	209076	282842	393423	382505	341334	308770	331321	312209
	310789	312990	307749	325427	363594	431465	477461	483704	450459	420062	345077	272153
032699	240648	224212	222130	227725	252623	363294	483656	467648	382244	347404	320084	293871
	302286	289554	285230	309042	345462	399787	449671	447017	450641	432974	390902	345051
032799	327166	325061	329539	343872	371699	414996	502352	526742	524235	472570	427980	394899
	378077	355720	333708	365200	381792	408209	477707	489255	451509	434594	417258	367599
032899	337981	322479	324776	330565	348500	388065	447620	489185	488474	467942	417740	395107
	372914	363254	378226	382966	407727	447099	499408	506984	488693	424493	365226	296358
032999	258316	234859	230777	238230	255889	352275	459187	436040	374055	340163	339904	339560
	340048	346771	340901	366385	397309	460513	509883	514066	467824	429097	365098	296270
033099	232197	210912	209130	209377	226201	299403	401967	393776	365430	358939	339199	332351
	336471	315107	309623	331487	380205	450088	498033	488628	463441	424808	356928	284056
033199	248341	231063	218763	214715	227346	293827	401541	386771	379708	364942	372327	352575
	355129	333580	337313	354312	394930	440511	487613	487361	464191	447815	405701	313192
040199	256737	229781	220938	218709	237495	299584	400128	399038	366791	354807	354212	365181
	363749	362481	412429	437787	464451	496519	515083	524648	497985	479066	396200	310369
040299	258389	232322	239045	218214	223079	249901	336843	361089	386440	405668	414070	417945
	437191	431153	461541	495492	513495	519814	563384	523893	496739	456310	411994	341975
040399	284355	263188	248032	226745	240242	245056	273853	347744	430632	453533	460313	470198
	468589	467353	466096	486823	505920	518998	575000	546697	507449	469115	424258	357852
040499	312124	270994	.	236552	245571	262188	280034	335004	399703	441178	492865	515896
	548085	574469	575045	578226	586289	576122	550813	566230	578268	526845	468954	395148
040599	313261	279426	281958	263588	255683	293038	364558	385366	382071	403534	432941	469399
	515751	524564	518290	547949	587139	648167	648844	626057	612713	556855	485284	398531
040699	318866	290344	260168	254259	252399	293568	360509	392121	379778	412081	431386	469700
	491753	499228	474734	515109	567386	586574	611325	621132	618470	553418	473455	377587
040799	326847	281826	255824	246510	256297	287039	358190	381167	373573	407318	435532	455232
	485853	514748	514441	565876	618613	684475	645201	634668	613724	559641	476531	398069
040899	322668	287842	263567	261575	258524	296842	354297	379429	385872	408898	437689	476377
	497933	526766	564243	607840	625583	650971	641498	621346	615617	581404	522033	428055
040999	376692	344820	308082	309765	309780	343003	397785	420418	427921	432050	463695	477031
	514086	546994	560515	588299	609858	616622	604566	600654	596141	537338	490477	419275
041099	371751	331317	306969	293922	293803	300763	325441	363100	435599	502430	543450	576348
	621729	661933	671888	699493	717319	710839	684657	649179	636094	577205	540120	459068
041199	391606	345925	311723	299785	293309	304433	320992	377586	471097	514898	544296	590626
	658444	695760	726445	753597	780143	770362	742702	733430	718668	639392	552934	437364
041299	341688	294659	261650	240148	237431	290259	374112	365970	337771	345013	366813	401660
	416591	456960	497917	545398	585172	629316	616915	603637	582998	518888	426061	329109
041399	259249	231671	209058	199231	209693	261373	335985	351853	322319	307999	320424	339994
	347147	389688	427030	459728	498894	542604	539887	534803	557316	485100	397269	304585
041499	245468	214460	201641	200082	204796	268233	367719	354088	322190	311023	322283	342817
	366423	401011	440217	487040	517867	560866	543336	546760	539425	529823	450764	343409

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041599	304363	283311	274431	284569	278795	345164	423951	430799	409989	432504	436058	469903
	497610	517665	537871	592387	609152	635060	620717	608551	593619	529444	434843	329684
041699	257319	227765	212895	199613	204281	264067	363310	370083	359684	331395	327325	305571
	301600	295436	296775	324596	347042	378890	387541	404027	413922	379584	332243	291327
041799	251583	223997	214937	210329	208791	239036	289288	332895	390070	403630	387067	367735
	365306	353296	361747	360608	377686	407431	403154	413208	409274	377873	343275	287573
041899	264075	243577	210403	222799	237501	279045	338719	418747	441994	416803	384407	362976
	351182	350529	353483	361101	392568	411304	427734	444782	468502	436187	364691	282498
041999	237340	218853	222569	226290	243486	330323	472133	464467	386042	347177	332981	315869
	316229	304525	327392	354385	379888	424698	447307	467202	492253	437576	364919	276056
042099	227502	207580	204133	198727	214161	281527	375041	371797	330167	320206	337033	348727
	371333	402180	433800	477307	502776	551568	540015	529408	551099	489578	406352	325085
042199	251860	228314	213952	207255	208708	271150	369561	367028	337392	339998	349193	384616
	401897	420590	468981	507087	531897	576005	555584	541627	534445	481174	397087	301646
042299	264701	235060	225642	218746	224362	281289	365270	375535	353077	353353	380588	402114
	426999	454270	473666	531766	557762	602943	576294	570399	587650	542126	449206	364782
042399	317405	279605	264923	262184	262058	317715	412798	423151	388952	383792	384023	422006
	458031	495163	536690	590924	625738	645064	612852	601467	587951	536947	469445	396775
042499	346518	306622	291089	276358	280430	296650	335691	369724	432253	478788	513575	568688
	621190	671647	723033	758793	783631	788780	742423	720038	690611	632600	559745	489558
042599	423591	373265	345584	331639	316366	309926	332414	391634	485019	532735	584138	657026
	709966	773766	785371	798149	817841	787384	750686	743790	726111	664020	554822	455465
042699	405244	356204	333778	324008	315474	376242	458075	446934	429188	417085	469701	498270
	538735	575893	592577	637596	680876	694064	700804	691561	679596	617984	513658	432343
042799	369055	339379	318111	312235	323416	371131	465094	474327	442231	426834	438098	457939
	491392	494115	512773	540371	582965	617235	636601	642864	650935	605868	514474	428421
042899	369106	338960	318460	308689	312730	358186	448888	435515	414501	420219	443081	462944
	508117	528546	553886	564218	584913	620664	603105	601376	619815	581504	497054	383162
042999	342706	303056	279315	264336	271319	322632	424760	418617	406123	422581	472407	513344
	534792	477330	447344	450643	462690	512528	513254	518624	511637	466801	380757	298314
043099	255950	225071	206181	200394	201853	264168	360160	378379	339613	304508	303599	299857
	286722	296348	309795	320779	340710	391521	393284	417093	426519	386433	363671	317221
050199	276685	251193	250492	238806	236553	265464	310082	354815	381907	394746	384747	370620
	368996	374426	381613	421827	431017	464967	454189	440656	451947	420759	376983	300661
050299	268349	236045	223053	218079	218037	234674	329165	329165	375227	409052	400794	391101
	425268	447861	467068	501692	539203	554677	564438	558701	570149	505761	412803	317067
050399	256357	226856	213680	208561	216022	208561	273701	393701	364556	327627	349516	372546
	412616	432766	476882	507919	555577	590715	588854	562609	572988	513175	413135	330400
050499	265525	230410	227520	210228	223525	283280	375140	366703	348361	345297	367919	393283
	417961	449033	456262	475534	488281	530118	552728	557431	557431	476385	399448	338228
050599	295486	265946	253701	246397	258505	308594	402255	423927	388591	396102	406527	430025
	447557	461975	473045	513730	553782	600394	609441	621414	658694	622947	537814	458434
050699	395117	366577	350211	339872	330193	386058	482953	485316	430105	437985	473336	498393
	526716	561790	570711	600956	623721	651020	677207	663549	679278	640290	552617	446959
050799	368844	367301	351699	320854	305120	325852	429179	410806	394155	389431	400570	428386
	412972	416438	419861	442571	472032	510962	515767	520753	519837	522344	464604	397343
050899	322993	277497	263831	246411	236579	251576	284358	351933	414143	472923	506905	548215
	584873	609723	634641	665253	674055	688507	655615	598866	573085	509843	452678	378003
050999	343771	288866	256645	240042	232020	228250	268169	333862	411046	472392	489797	518652
	586673	628263	653507	703184	728506	727284	712634	675869	679937	599354	489680	386013
051099	321785	278818	251636	242995	246692	295570	380199	395746	381307	407124	438358	502533
	549217	596307	637817	683908	726814	757397	732168	697601	692804	615802	506269	401681
051199	337229	300971	274696	267587	266202	316155	399497	429867	391643	391863	412464	419841
	453371	480110	492541	529013	527790	550588	577636	579097	577294	531036	449865	362697
051299	301196	271449	256709	246019	244292	302904	397774	406822	381009	402451	426059	467179
	498864	512991	517961	525017	536585	571110	572213	595195	609584	570597	476261	387372
051399	315951	279505	260105	249292	250592	312777	407581	424476	413137	434113	482549	537259
	572666	604863	635342	676173	694891	724410	710337	698573	703087	664513	582956	459258
051499	385421	345398	309923	285378	277897	311714	401759	415222	409877	415436	453830	493880
	532217	558215	609356	656226	685333	711106	672549	628389	615733	555648	489142	400382
051599	336443	289189	273658	242779	238827	246670	287265	338007	412294	473704	515617	573331
	613323	660049	665650	699215	728461	739359	709626	651056	634416	579280	512807	432027
051699	357880	314011	282334	266508	259314	260300	292723	355098	412798	498804	544401	573570
	629782	669560	695931	738225	767759	783167	758406	706860	695159	633909	527758	426825
051799	351476	309996	290177	272770	267630	314726	395039	413225	427551	443590	494026	538075
	579460	614210	641760	701762	754277	785204	758287	718080	715918	658490	546008	445180
051899	361426	315467	283682	269570	273679	312500	408714	419895	412537	432931	478507	532174
	588101	629777	661666	697351	737955	771488	753858	722469	728576	668112	547187	439817
051999	382544	343573	311341	293808	288487	330799	426228	431558	413759	427961	455337	511738

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	554889	608401	646861	695887	734796	786543	773012	736800	705680	657900	531913	429579
052099	341074	307555	265842	253520	256948	303159	391230	398088	386361	411806	453614	508558
	557876	594284	661114	707300	762646	784525	768295	712427	712090	628467	551489	434934
052199	368868	330670	307018	286815	284958	330272	424977	447983	452928	491986	519448	513589
	656492	697790	723654	754894	719478	833789	749030	703552	669702	628868	550202	482769
052299	405443	359223	323257	296888	285063	293686	321005	380493	459995	536332	606712	671595
	710110	739313	772223	807765	823595	833993	776397	729069	696879	633891	565187	468579
052399	397637	345356	319939	302827	285827	282000	320853	388519	486573	573806	640116	692163
	747155	782421	812346	826785	820105	769504	724845	696407	664004	602927	531688	444908
052499	375469	339841	325330	315866	330811	363042	440817	469899	466925	492994	535063	595521
	644175	682396	717042	743224	791668	834081	822354	786012	769983	720821	605223	489258
052599	428840	378298	336299	315542	319095	357560	438314	450944	450133	475805	508729	583584
	641194	690745	719310	776495	788312	845712	834896	790666	779013	718500	628838	523227
052699	454322	407497	386150	368059	359781	403651	480782	495421	509019	526488	534733	574762
	625424	669807	690643	741869	772107	818402	806958	779465	749287	673997	583537	493402
052799	407319	371689	341942	335313	333329	382769	462322	480544	462471	495930	537699	585276
	622208	658623	702856	713703	736869	765555	746243	719270	720395	676769	582031	494561
052899	425932	390146	331127	313072	312513	347190	413341	441588	454310	499040	567520	624291
	609048	713225	671509	653215	642499	666252	661467	644977	622891	579661	531088	444816
052999	406868	365866	339616	321220	313536	317902	354010	392743	478629	531904	546991	579165
	596897	604856	603310	626342	662679	702777	711919	699660	683978	649182	570524	490418
053099	429550	382352	365612	343037	333848	329350	365768	534281	587517	649436	695657	695657
	718171	756792	769209	753946	730585	689826	671525	647291	638182	593762	517657	442382
053199	403784	365709	343308	339028	328661	341621	383277	425331	497264	584133	619922	637966
	656185	648333	664053	679485	707619	708138	695927	689901	678757	622132	550578	458914
060199	373433	349855	331593	316949	315029	372747	422390	439382	447738	475982	506736	560061
	615391	653671	676544	698806	716534	753409	743168	707469	702676	654796	588298	475547
060299	398938	366549	330045	309106	308482	346155	413884	445178	475394	522022	578381	641131
	691522	710341	752461	786030	821935	860647	845933	790008	771049	714041	629084	515890
060399	459649	410728	367580	337296	334461	368563	425838	461539	486801	530710	592537	656273
	728677	770845	803311	823331	854913	891981	872732	817283	821321	767091	683843	569989
060499	488537	436487	414398	386621	364035	401729	462777	508315	534734	618512	688590	744213
	811964	854972	872924	898385	933669	939934	917269	863672	840481	758760	652143	549442
060599	492826	436909	399092	371007	354976	356447	377655	450446	537458	609147	672951	713480
	759935	825628	818865	817436	840869	835603	799258	753584	737542	674541	596635	530102
060699	461238	409596	374530	359642	345906	347798	378989	432415	530796	598349	657968	697707
	754210	800036	838186	862538	866788	855989	796768	763612	746107	672796	594288	506657
060799	433868	382742	351941	337331	339862	382923	442918	491378	506597	551039	612724	673347
	741209	772182	805044	822881	863161	897845	875932	807527	793355	722379	643862	530654
060899	454580	407629	380756	359747	362129	396430	455516	486161	520061	577190	629164	676289
	717268	734930	748029	769271	786230	796632	795260	761820	748741	691021	599828	505207
060999	432045	387700	388223	303109	332941	369045	459581	459581	497099	508055	620208	683940
	736623	797352	834500	851539	888958	889833	850830	801446	762372	716604	623071	513983
061099	449232	404090	370503	348868	345893	382377	442327	470318	498427	539341	577976	629754
	679807	706396	687494	696091	723633	761176	744238	714254	710596	668306	608774	524820
061199	433803	399425	368917	356395	345821	387178	430319	459360	456026	501177	537545	594432
	643376	681027	711935	711145	698442	728720	707305	668279	662423	626379	568513	512254
061299	445489	396123	367024	350928	338142	356097	375110	412019	477227	531329	577971	618285
	661201	708208	752535	766568	768699	779413	750991	729915	699173	656263	572670	510316
061399	467422	417448	383680	363488	352972	351601	366961	419285	509770	575499	606756	644878
	692261	725865	750918	764244	800963	844056	813554	778181	762356	709796	628895	528372
061499	457243	415692	387559	369650	366969	400612	458906	492459	547088	611107	684177	683290
	726879	749267	795244	825009	877124	914821	906844	880317	838130	770567	680024	573854
061599	508214	458910	423096	402272	385626	416316	475499	501056	550758	615464	663534	715880
	775140	805715	842027	861942	896968	911976	913325	844578	819587	775544	681770	576762
061699	515113	464413	433719	416316	413397	442007	492960	523369	545883	585475	637422	675413
	709346	763536	801356	813370	840682	876240	853061	804040	759718	706100	629710	547280
061799	475821	427877	405983	377088	376163	410932	453728	487223	502000	539525	598233	641257
	720573	761386	803557	826183	847927	879583	867528	830072	805698	760248	670008	571324
061899	474486	431206	381899	368977	352959	370144	419065	456697	485527	527004	585092	660603
	714763	755966	764666	810772	840128	856512	853078	790478	755150	706514	622063	551269
061999	478027	425133	390653	366546	367046	363920	388193	438196	513473	585170	643594	695010
	737271	770465	796124	833632	847831	853969	844761	777662	730571	676067	609658	504230
062099	421874	368386	338995	315682	299934	302753	325180	391004	481178	539968	608550	656524
	724834	781144	815670	840821	847764	852816	832140	789595	769547	711733	632276	528433
062199	450382	410920	378777	366721	354871	378927	440241	472419	513667	557541	628644	671774
	742450	775392	806183	820166	844204	882703	880461	826728	793944	775172	674769	569504
062299	488466	447879	407574	397941	396149	423993	475716	509582	546969	609067	660093	720979
	777388	823185	848210	859257	876729	897980	881855	848462	794250	735718	649515	561914

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062399	503297	466738	430606	407182	401061	433788	483902	492596	530998	576510	626145	669306
	710774	736084	735253	749502	767172	809755	796193	758631	741701	718461	638388	566353
062499	486201	446140	421831	406961	402405	441989	496607	491669	488678	513827	539294	550411
	580802	613969	653587	699704	745598	791723	791383	778455	770075	738005	669475	585774
062599	523352	489903	461711	459956	455525	492784	553292	558467	562236	585419	583776	582995
	596470	594212	620166	652367	649239	652211	646777	645137	623695	615219	567492	494921
062699	446796	399803	382592	375840	383694	396518	436195	489609	562568	632780	674381	685708
	721980	723639	748934	755237	742409	730786	692020	661623	648803	618197	556409	504622
062799	457881	412861	406574	389976	386221	392420	429709	479214	532557	603863	621808	623881
	649745	680727	723028	744841	783988	811128	804330	779846	798182	768844	702191	620733
062899	549408	504569	485874	471740	458618	500532	555963	570080	589798	642805	703742	759477
	798640	823588	842944	863026	883544	900496	903902	862348	858866	826442	756950	663042
062999	504289	616600	572981	510197	503571	528151	570430	585382	584240	634535	678810	733801
	773673	782295	802382	828604	855526	895538	879158	844205	838309	795115	714801	633005
063099	570202	528859	506999	491233	488608	515518	557599	597238	612861	657349	698149	739085
	772805	812216	864055	897586	928497	967132	941447	888757	869096	830139	729600	636426
070199	566232	527630	496840	482214	467123	495532	544215	573743	630519	696203	762721	823587
	857604	908451	938159	949343	971328	981983	963959	913406	890666	843857	764025	670022
070299	587401	545960	510162	473719	466439	462853	525324	552985	618420	687551	743724	808406
	845069	868853	868705	902281	929143	953302	929918	896392	863315	804794	740684	658587
070399	587679	528749	493301	465185	452017	448041	477033	525140	621334	728503	793824	848089
	780267	899710	915778	929939	950179	972289	944799	894755	856207	806156	740537	669008
070499	573499	520810	481148	456389	446270	442624	458726	537846	637447	737667	798058	853679
	920145	958560	986649	983607	980924	959941	910087	845948	796258	751558	718672	661471
070599	591174	516334	482927	454469	449667	450709	474338	533292	641595	763512	850329	912487
	945813	963366	979579	998374	1021075	1026670	1010654	952038	918386	843868	758157	648348
070699	553350	496029	455334	430809	422730	449659	493631	540260	596573	669024	732825	808452
	872154	909291	928536	963672	993338	1016090	1008571	942268	928979	870801	780314	680553
070799	594066	547781	503643	480188	467746	485657	512323	517555	525662	547102	583369	632633
	674661	691531	703637	729337	751904	768606	785903	761306	754888	732661	666969	577837
070899	523767	467398	442290	419770	409648	446712	483836	490694	521763	558807	601867	651308
	714894	756758	801893	839617	878007	927617	928633	869806	840455	783804	680628	604248
070999	541567	492219	456784	437239	426133	458007	505795	552641	582038	658813	698801	775260
	827776	851797	879199	910504	952318	975504	958447	908923	870406	827394	751756	664304
071099	615393	561388	522426	501866	479374	477852	510959	547085	622771	673660	744114	677077
	734680	779957	802739	824919	839055	832959	815989	792688	772252	739751	681400	584097
071199	544066	494940	473045	451922	440363	431817	456172	535185	622355	683803	740946	782874
	817849	848284	862690	887507	912714	928600	915787	876322	859390	805106	721731	651306
071299	593540	533432	486388	445633	439911	461679	488277	488034	510927	555628	579911	624796
	653199	654228	661455	684141	740802	788126	814466	773895	730806	669403	600642	495873
071399	452171	426452	391923	379219	380807	415476	465241	465964	468737	503647	556759	581458
	644883	668835	686615	726123	769379	830120	836618	789121	755925	710382	639746	529668
071499	469834	420509	391212	368513	358366	388141	438277	454219	466196	517227	579659	645730
	722101	748993	794656	830336	889136	921811	909479	851592	814593	756522	670927	583157
071599	504695	447148	405704	385434	385129	411601	456965	490257	538253	596056	661858	723281
	784742	824014	854964	880895	922466	946158	913869	873234	848581	793318	706443	615413
071699	559153	500674	463490	441874	427206	445771	487018	509767	521516	570859	639806	707824
	770009	817811	852307	876955	878411	892303	865480	816146	762053	730300	654555	585271
071799	512923	460072	434454	401592	392726	395588	414423	456333	556279	661088	757573	823762
	871381	875103	873969	831172	824983	821113	795463	771045	738236	697307	642776	571888
071899	511938	464252	430300	403686	389434	381068	408542	481584	604536	691343	743371	785743
	843099	862504	872071	883510	889391	883856	855726	829799	798860	751555	654850	571071
071999	496581	450214	406206	400789	392592	424036	475897	497760	560463	623306	671827	712203
	752533	759219	807216	842888	879763	912978	899951	865908	840235	786216	710502	620799
072099	548964	507107	464889	438131	429073	465252	516085	567931	533985	567931	599934	656469
	728201	728020	771413	815240	873732	944122	949687	886036	869460	816731	722163	633048
072199	540498	486372	445877	416159	408818	443231	486926	515601	570885	642460	715949	777793
	840499	894316	930639	964515	980635	1031110	1019861	956250	944607	883155	781593	704870
072299	617060	566008	523664	498524	483058	518235	563526	587827	619692	693954	783662	844963
	891662	950044	969450	999809	1014048	1034860	1035888	996594	986479	944981	843705	751995
072399	674250	635860	579358	551268	542369	550373	582039	615258	661961	730528	811430	899722
	964547	984409	985509	921811	861331	861541	831516	806173	755018	725251	665467	600339
072499	535257	488716	452711	429162	407611	426113	466036	496060	602315	698186	778145	860995
	936025	966411	974651	956016	944663	965331	951895	906828	893376	844918	770880	691738
072599	618037	559043	530494	509859	494948	498866	514166	506828	642822	685857	753887	810265
	856399	851039	808901	786465	742766	722370	705705	694617	709039	681375	610178	524528
072699	477916	439384	423184	405663	396317	442906	487355	513517	530856	581051	609453	622634
	606798	609642	657977	723314	790917	843223	875730	863020	835330	876631	704450	594532
072799	524602	486602	458848	428226	419603	455886	499864	516205	565869	644702	719983	806280



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	854395	895215	882658	859178	904787	944735	933288	885071	873269	813445	724712	631222
072899	561640	518700	475830	452476	450115	476833	514097	545345	588003	667667	751777	816792
	878418	938804	960826	986741	1016328	1040999	1021166	975724	934157	867732	765493	664627
072999	606592	557575	510689	492016	474952	496676	542580	578361	610095	693334	779985	862416
	913779	954111	988492	1019380	1044576	1032880	978448	947263	915966	866263	773645	693427
073099	618349	571284	541887	520159	509413	530014	572295	607632	638520	713272	804779	884945
	918231	892397	833010	810752	808466	831851	815039	783668	769597	746852	680646	619991
073199	529982	503651	455192	442512	426107	436609	465996	515221	624988	721686	819859	921812
	986890	1033904	1062266	1084337	1085223	1106899	1071616	1014125	980679	903315	844115	757327
080199	673097	609350	563459	540885	522596	510110	540458	618202	726180	841348	920999	978896
	1061879	1086778	1072859	1027739	996833	989814	959513	941570	918192	857420	754474	653215
080299	586164	522556	499406	477421	472109	495765	554119	590185	640585	714020	808799	912904
	966704	1000425	986989	996256	1025971	1063666	1049992	1015074	995017	941926	839795	752100
080399	673962	618972	578965	563542	552780	569873	611033	612216	655623	720732	786148	857122
	925302	974489	985030	992370	1010506	1019247	1028529	991569	968883	913654	813547	705849
080499	643330	599361	549514	530210	515209	550245	572319	596994	610468	691220	748665	819925
	880522	915153	926894	909068	900334	933910	905291	859015	827008	785347	707368	623299
080599	563148	511442	478354	461991	458153	483720	539297	561895	596952	655842	731779	813458
	872796	920319	942815	970382	997950	985623	930112	902874	868745	820154	740354	653208
080699	607356	565400	529121	507542	488612	521210	570422	586868	632167	735082	812308	887485
	924683	969215	1012389	1031873	1039283	1050553	1015990	966991	919001	870676	790824	704213
080799	648690	594753	554760	524552	510476	511676	528380	572463	669928	758975	848031	936728
	993300	1021734	1035488	1043802	1034506	1016759	1000673	949849	930851	884505	808552	734107
080899	680709	632944	592094	573156	546053	541737	551773	596862	677177	746664	789541	851335
	879492	861941	815656	811900	825415	858619	840410	836946	835048	819793	746631	675940
080999	629065	580667	561288	542890	536220	560838	597793	603799	607217	663143	741474	762768
	718694	687762	675175	661893	681711	717630	756739	747002	720839	689585	623977	557047
081099	469804	457108	422604	416061	415657	448804	497903	522405	569862	649917	714636	790035
	860035	900097	936666	971189	997026	1024838	1019664	970950	941989	880415	786367	697044
081199	636417	586873	560125	526498	521351	555546	595374	603956	610328	623477	660063	677844
	713293	756756	799962	814250	838037	859167	882926	866891	844061	802956	739631	663639
081299	608170	566182	535445	518577	510462	555980	599550	620597	651322	710733	793186	866317
	920597	956422	984645	999341	1021954	1035319	1022926	974684	970337	922302	849685	744589
081399	681848	631397	594646	563637	553239	587159	617216	648337	693128	746662	830970	898258
	964143	1000298	1020301	1015219	1018724	1043259	1020334	973744	947630	907192	831864	761540
081499	703674	650417	605295	572983	554351	552729	614288	614288	715962	828202	917868	999015
	1058768	1054531	899002	900841	866509	845643	824677	797844	727156	698483	660980	593077
081599	532546	492654	455684	441322	422103	428978	438291	497580	574039	662626	729265	811453
	911158	966439	990849	1016927	1022842	1034632	1002360	965176	943018	877878	789096	690495
081699	615326	586086	554458	544312	524581	570936	620337	637467	651439	696637	767836	821541
	881506	918991	946676	971343	967147	1000615	984978	957176	938008	878969	780077	764055
081799	623029	582327	555802	527743	518431	550797	597770	627303	653852	701661	759217	822661
	868741	894331	915280	919111	953821	972955	968449	933460	914736	858620	771315	685659
081899	617365	582093	550311	530022	516214	558544	612339	600531	589726	595637	581411	637704
	683642	746749	794734	872215	912858	960090	933853	895566	888111	824126	726976	638449
081999	578913	539189	508949	480583	472254	512581	580517	594731	613782	666083	736136	815756
	877769	913812	936767	951879	976808	994855	962117	936749	917926	863156	762445	651876
082099	597322	552371	519288	495424	491405	518438	593756	607518	653240	730225	756624	837841
	873603	914390	936756	947777	965760	953997	896903	813496	768499	696126	610004	610004
082199	536584	482813	453759	427158	414734	420275	443454	491894	593894	699322	800965	885138
	941269	966724	950569	949081	968926	969406	936590	906791	871648	809107	740281	669914
082299	604895	550787	522056	493000	462035	481226	487503	537622	611910	713519	798477	869924
	948163	990185	1010771	1003852	988417	983372	948637	904441	887025	811435	733202	637289
082399	568029	523895	484571	462864	450981	497007	566978	564352	589698	652878	697469	763868
	831639	838624	828681	841549	877185	928274	923336	898441	869452	790818	683923	598467
082499	529609	495913	462765	444356	431446	480429	522571	560475	565028	616339	663674	720810
	776457	815594	848095	849123	864073	866386	839253	828721	783813	730925	634619	549237
082599	489039	461024	439354	426689	412198	474530	548320	546574	537478	555527	596746	649309
	685084	721600	743931	797021	837687	884206	884521	841516	815979	770041	664430	602984
082699	549984	528923	501532	464568	456220	491093	563056	564717	577792	622947	678300	765755
	817668	863187	900724	930553	969368	988872	979938	942929	929235	871972	772886	665888
082799	578771	530418	484302	457080	446272	486338	553384	564664	574201	615447	699176	770455
	860996	904096	945312	972106	988188	963823	940068	888069	843662	800200	727390	667021
082899	589164	539548	498430	467389	448962	489443	461615	516277	602635	690413	786335	864546
	939555	959622	968906	996422	1016357	985974	947296	900219	870876	775828	711674	627686
082999	565040	517034	470343	453397	421657	415712	446063	493133	590655	697192	761219	833318
	898476	874138	814441	797656	834048	866073	842528	815839	794368	731074	652883	551927
083099	506036	458084	437706	413183	414821	463628	531728	531422	537091	585421	633301	707512
	770820	826746	856184	914484	940613	962872	962042	921580	881350	808754	697970	610991

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083199	549481	502431	480672	450099	432095	481833	573375	578322	540630	541543	552565	581778
	598047	615351	623642	653693	714332	768101	802277	780485	759232	707642	597065	516775
090199	468622	437236	405660	375620	378121	424580	495477	490230	468288	522469	544041	598984
	636674	687715	730230	777985	793927	802116	803091	792177	772010	725555	641845	536538
090299	469482	437964	408006	396295	388347	428829	521545	500071	476428	462785	513984	556723
	608341	640138	635080	645014	676485	718740	727549	745816	726315	660947	586375	491969
090399	433186	385221	365420	358165	354184	405084	484614	493074	487113	503293	555547	616686
	692257	749858	796373	828577	844195	859735	830220	804518	769342	721696	657420	590087
090499	527264	483156	445944	421358	397659	405571	420489	462416	565221	667923	751707	834822
	888424	929495	947697	964549	945655	921689	895285	863430	829969	759423	700995	627156
090599	566594	512087	476691	448934	428079	423648	432957	500208	621190	700731	758804	856733
	928606	967055	997529	978537	947457	981226	930155	881235	853416	792483	733025	651563
090699	583377	527907	493754	466042	450645	463867	505418	624805	735724	830228	904319	904319
	957911	970959	993028	990127	974879	975176	939707	925074	902734	828519	719042	607258
090799	533686	481424	443077	424522	408137	461709	521265	504414	498897	541896	601007	690151
	772693	828637	861993	885090	914886	930409	924529	916824	853714	767466	658437	558493
090899	501528	454397	412680	393433	385528	431573	501649	492229	481768	528024	595500	675106
	758319	817233	842197	856669	857865	866660	839132	828766	790705	747040	638619	547840
090999	470995	430796	395524	375603	359662	423019	483424	469284	452087	475120	519242	547017
	581922	606713	663094	731400	787371	822973	795252	774637	736894	671613	590195	485350
091099	437500	399442	365644	341161	338589	375769	460401	448152	441777	468069	534035	598064
	669444	716885	761680	806221	828269	833598	783096	724204	672455	600243	529314	464010
091199	403793	359295	322863	295546	284840	285116	307257	351695	436285	540029	617197	708653
	777742	839875	870838	902868	917233	907195	868631	825027	781753	713432	637172	559535
091299	485836	446930	405769	386118	364712	369440	384061	434912	527191	605819	683389	745412
	809211	872070	897456	918866	931786	921251	882073	853442	813013	730756	618910	507233
091399	441898	385648	368855	348015	343579	391618	449851	470478	455457	504257	567278	625149
	692679	733427	793174	826202	866460	882729	867059	815766	777485	689938	580347	477422
091499	410614	366474	334773	313481	292774	345161	414107	401526	405742	418862	475447	523302
	590685	665383	724051	777876	828696	860670	839427	826509	791298	715468	612279	525160
091599	456693	411528	382960	359332	350022	391303	450946	435901	437327	467121	522442	577202
	662770	728355	779570	839780	863085	881662	850456	804820	756092	681567	579630	481814
091699	403124	357661	319228	298967	289595	326344	382605	380486	363404	387568	419406	480723
	534978	605969	660046	718812	757791	786661	753594	719340	675100	606830	510332	400124
091799	344274	302612	284197	261492	263386	310031	386359	387120	364678	386303	428245	462150
	532994	597959	640254	709525	750527	768473	729617	674364	613042	549764	503778	435005
091899	373747	328464	293510	282036	274961	292317	313899	358214	424207	488416	562565	642944
	705148	771921	795307	816369	827640	834862	811669	785668	737125	688979	629218	553126
091999	483502	425148	404700	386729	374208	377404	394524	441951	521438	573404	626077	687701
	731233	738301	731047	725456	723687	728759	722472	733092	693879	639143	556527	485778
092099	436926	404389	391458	376152	381069	426450	494417	497880	465033	476954	470798	480045
	503656	530746	532243	567937	610977	652307	657073	688219	661128	609276	512352	433987
092199	378873	349912	331770	322838	314547	365192	443121	433044	405016	416612	457165	493989
	553450	602475	646005	674500	710070	709830	695964	687734	640726	586467	484341	378663
092299	319324	282205	258635	238617	240194	283340	364413	356547	318028	294850	315814	330060
	375405	410403	429135	473498	519434	548128	533693	534068	519105	471822	381908	305063
092399	248389	223061	211428	203618	208037	271029	360141	332784	315554	298743	299352	325675
	364431	401053	448556	498966	545066	569238	547732	563609	542316	461884	394125	321018
092499	258717	233870	216064	212160	217186	275007	351424	342972	312916	318536	340789	379548
	436161	472850	515628	557214	586587	597129	583189	579880	514425	472209	430325	357541
092599	308744	268812	254365	235310	229234	247086	260328	300164	366648	422601	479497	522573
	569185	618526	653899	691364	696288	704366	676495	665282	612396	551267	477353	403168
092699	359672	315849	297468	282319	271644	283292	298038	359173	427274	462947	504269	566997
	624219	670585	708432	765234	790494	798008	766023	768399	731913	669805	584710	488428
092799	435467	404431	378917	372711	363639	424370	497095	482908	469474	488249	508839	546638
	575885	621784	665661	701551	740413	767556	798895	795110	739500	677784	611894	522486
092899	468783	425833	408304	393247	386967	436403	520668	514314	504688	516014	554741	617817
	665332	727264	773140	805757	820097	830571	808401	802826	750291	669856	591599	500568
092999	449698	412235	373750	361443	351262	400569	475472	466246	451184	479415	539072	609351
	679159	740152	786837	790706	780625	795561	787221	767102	724243	638975	535793	432209
093099	378258	330859	277464	263614	253122	318122	398829	365249	333142	353785	355800	372603
	415105	436907	452095	476830	493006	495674	496062	520881	486470	439939	365607	272871
100199	251524	233572	220149	212520	218899	268712	342718	354373	322649	308610	307981	324083
	354517	401235	443309	497507	544542	566658	542210	523902	468772	420369	373597	333462
100299	290517	260030	242099	227196	219122	230440	273385	298182	360419	396998	426566	492361
	541758	602038	658775	685172	724672	699904	701408	692889	651835	607996	542485	466673
100399	417716	376632	348860	334416	328613	336043	355214	392236	479049	554277	591910	666664
	742323	787474	820276	831430	831405	821704	810776	816454	759842	683990	608844	521365
100499	460617	424983	403147	396148	389828	428729	487649	489227	460630	460626	434529	449700

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100599	453441	455254	468620	467605	496269	540202	576229	598419	578624	524921	461476	381414
	321966	292560	273501	267437	272772	325908	397610	399691	361390	348517	348878	359612
	369600	378658	443272	484340	530237	556073	576784	581550	563709	502292	406687	347935
100699	278123	256261	238621	223495	231690	297229	372601	374236	344496	324925	341082	376608
	422666	468224	526022	572714	618487	640416	645617	661062	629647	568563	486435	411086
100799	354957	313195	289518	281155	285238	331825	407597	410196	382258	367823	397849	435097
	460340	507920	540069	586649	631675	639069	656456	664962	642595	587474	529435	446072
100899	391792	359484	336305	323014	329818	382211	465275	461869	425299	436950	441767	456708
	475267	487025	500939	530477	566067	593198	632457	640642	591269	557887	511198	468528
100999	433178	392802	373795	361872	355661	376413	398604	436014	525546	606141	672830	723927
	709276	720024	713760	744231	751966	735419	725686	700586	653762	611848	574806	502402
101099	471619	439167	426074	411181	401972	402238	402902	468696	541652	609737	630312	636964
	636461	647608	640959	638524	641855	650211	662152	675000	649705	589048	522422	448599
101199	389519	354389	323459	310653	317961	357965	428051	445683	429118	460767	465133	492754
	522695	554932	574075	615932	639534	694181	718974	723527	683536	614719	519994	445423
101299	402089	366759	338634	330278	323062	376453	455164	463334	415231	412429	431611	461614
	506913	538499	560027	612717	655259	677529	704113	708358	674515	609771	536228	457207
101399	407538	370277	341740	325430	316783	364286	445992	437881	410084	425324	446938	497669
	559391	607210	604811	622777	669968	708871	713515	706712	650737	593889	520637	441803
101499	367302	328221	314081	294307	287474	332546	390293	406474	383722	394103	433390	466064
	527115	579093	633763	661779	693391	711888	705008	692999	652109	587046	500294	410421
101599	343935	305033	279789	268537	267307	322238	386620	389966	368879	388000	409387	456141
	511095	553382	595535	638718	669954	681763	672067	641323	595288	548028	497917	442250
101699	376586	335904	303155	287100	273499	291079	303885	342762	405028	459117	512861	565158
	635289	680947	706650	742816	759934	730995	714251	723724	651983	592498	527078	455923
101799	392569	357408	322311	301533	290152	292129	302916	335513	401107	465479	525483	569699
	628479	697149	724564	735894	741469	726313	686405	683459	631947	560660	470557	384045
101899	331381	295321	275298	265159	263568	312655	379901	367243	326082	330679	361505	406066
	440936	475425	515583	535169	576839	605440	615184	618998	579662	509398	437797	353043
101999	293572	253527	243885	228203	231962	288634	368350	366176	332508	315489	337658	374367
	419021	454256	485479	500557	520469	563246	597301	593940	554118	512744	426959	365918
102099	313352	278898	256986	240499	249542	298583	373784	373409	338979	309994	305701	305669
	296012	295888	305459	312492	355975	400365	441927	474713	446748	403268	332522	265861
102199	234305	209294	204961	210886	226294	304633	387112	394568	351482	324509	297799	301253
	295463	310507	322333	341645	368550	411061	450098	479653	452763	416549	347927	373127
102299	244458	226540	223219	229558	223537	318340	415133	428113	366842	329306	326680	209205
	301672	298148	331139	357375	400340	413697	448551	443982	407461	384508	360538	297122
102399	264141	236001	218186	211747	208110	235615	265894	314455	342241	375310	385797	382100
	388885	382007	385495	394022	403826	421374	456928	442808	416645	385862	359006	308935
102499	289497	264323	252692	250422	263485	287439	337647	411073	477492	479255	447344	423807
	396262	384718	373176	377484	392627	424417	470378	494620	481893	436440	376298	331940
102599	296417	289923	292574	296146	318730	434904	581244	514850	447500	417787	363542	323723
	310003	285449	293135	299103	341166	391922	463631	476905	463419	431723	372181	297345
102699	277502	267900	267201	277471	305516	415920	525995	487986	423463	368354	333543	312678
	306988	315431	321176	337684	357689	399642	463952	497348	473436	427610	368539	319932
102799	258370	238319	241737	240030	259964	359101	460103	458664	390238	343291	300549	299360
	302433	307426	316829	348986	373343	396051	449460	451807	440001	411673	359790	291892
102899	241758	217171	210453	208382	240405	326422	435162	407557	351702	326045	298211	284605
	290662	293101	322861	351006	378915	409883	441953	465821	462978	426921	355275	282277
102999	236355	220269	208776	210525	235194	313942	412505	391305	357859	328769	304984	283614
	306970	322936	345848	381946	411631	408451	461164	454101	417624	389930	350670	304128
103099	269049	242469	227631	220410	229023	241296	312790	358322	413525	438515	464558	477231
	500901	508381	518394	509403	535874	511751	516574	492452	473037	445103	420980	372428
103199	312299	280816	247737	249743	247847	252535	297939	372641	425531	444365	481871	501732
	516738	527201	537016	527377	553762	596473	583741	553388	547533	510088	437430	363122
110199	311706	284690	269754	259506	279999	360849	495411	533909	507659	470461	424465	353692
	369563	377575	378992	399957	439772	495411	533909	507659	470461	424465	353692	291387
110299	252388	247239	230766	231462	253556	318633	432743	396087	337917	300828	313903	315141
	309207	309309	320071	343976	376478	461857	514397	509267	498448	463180	413860	370235
110399	351946	344942	353534	370335	415352	524657	662883	596679	496860	422675	371258	375287
	342225	338823	326575	337027	400027	509250	584002	590133	577641	556550	497858	466234
110499	445854	442235	445608	459932	498142	608916	725348	628808	517198	407236	392989	343371
	320544	319956	305605	337656	373557	464025	512130	523007	526457	497770	452444	420041
110599	381601	377071	377425	396246	421778	512540	639153	572633	466313	396436	356711	334134
	315092	331258	332492	331856	375243	445010	454232	437770	425306	398086	375045	343832
110699	319375	296462	297514	320922	313027	354193	422527	459464	450092	416134	398303	392744
	384694	364097	371142	382842	387325	438671	448661	430123	392254	367580	347082	298279
110799	293914	273023	272032	278910	288488	309228	376289	415420	455553	423888	387196	381284
	401804	405795	399969	409454	439819	487658	490296	476076	451659	403941	333448	276975



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110899	239742	275917	219590	228921	272040	345885	459001	408581	349454	306890	307724	329301
	334439	330887	333921	338255	377865	452803	486962	450866	424175	402612	357880	284433
110999	244510	227318	226558	229562	254294	326523	445467	396547	336835	298922	312168	315511
	339243	339736	352296	368107	393264	483727	503927	489269	461617	421999	347331	269484
111099	244369	232676	225131	222946	239010	319434	423615	381513	338695	328810	316602	335752
	348888	364582	358820	370549	403278	481564	484512	457469	433973	406881	354918	285283
111199	251099	237328	226655	226470	233211	282730	345721	366009	379590	379430	394802	401613
	421958	409195	421295	426314	439867	506289	526224	495256	459307	413227	354199	291172
111299	246604	224119	221308	219705	230889	304642	410128	399729	328203	318747	305601	318849
	340009	353701	358832	358407	397234	452610	455445	425477	386881	364104	343078	292307
111399	263400	240639	218768	220387	230114	251174	303272	341178	372240	388477	388823	366072
	354616	350719	348462	362343	381287	435854	438453	418913	407232	379298	361836	315950
111499	286331	261323	259921	275729	261972	283843	337216	399969	414997	420140	391497	390091
	402785	423913	417617	423266	430391	489953	485948	480022	444362	408086	355168	299728
111599	269219	239437	238475	241425	249293	333865	441425	404649	342191	332636	322794	317011
	335086	328504	319311	338418	378159	459696	500411	481764	471100	435899	378682	327660
111699	291810	273738	277028	293544	325501	427727	561134	513426	407408	357596	321788	312806
	304915	290200	282958	302792	344933	441800	505502	493066	485725	441416	411610	346108
111799	320916	313629	319861	329775	358989	472066	595538	550407	439693	370976	351166	320343
	306420	307666	300353	308971	346705	463629	503403	502043	519934	493906	458592	405071
111899	376388	361700	369538	369510	408243	495623	619587	545554	429343	351244	312062	276420
	285959	276490	270260	297877	345986	437656	462707	442624	434466	403507	334236	285019
111999	263301	244432	240792	241832	247291	336470	444399	398750	333005	305913	289705	300543
	305355	317627	323097	328203	357424	424266	446522	425553	379826	373545	349064	307550
112099	273463	247014	240128	229449	249339	266524	302947	340214	357958	376319	407268	423048
	442420	433351	429820	426147	437011	472886	480860	458701	420929	384890	350977	295652
112199	279790	251322	228387	224803	219637	237492	272576	328921	360622	406238	409842	417112
	423760	423617	418263	420428	440973	499692	515828	490878	464593	433441	372042	302247
112299	267302	240499	231352	215164	223604	294628	402476	389278	355819	336193	336821	338529
	321428	338045	350766	350888	381536	468475	495524	489644	468172	433626	364237	294009
112399	250695	227551	215408	205298	233258	313215	404650	384901	345302	311001	315839	330816
	321885	344386	346441	365593	377117	464337	486797	468065	457573	415214	374256	297749
112499	226176	206907	196086	186812	192619	241089	333862	340906	319793	319357	326014	328512
	324400	355481	375927	381988	398133	471441	477227	463011	430877	414360	370935	304794
112599	262873	221759	208460	201079	201310	210011	250500	308290	392831	458510	515773	518871
	493482	473665	449726	424896	398706	407562	403148	404775	372527	349538	320334	252746
112699	273245	235700	223934	226026	233102	265702	302893	339564	374775	393437	388851	375063
	353190	355668	349511	358910	361920	443062	477995	471960	455596	438145	420688	386678
112799	346403	347311	335796	342208	361536	392346	456595	535206	543391	514387	474260	426954
	395888	379733	365725	354506	394334	484907	498427	485660	483782	478967	447922	397202
112899	380547	377324	369922	387165	391728	419447	469554	545478	534896	463339	431941	419248
	402519	385982	383675	394274	408368	495859	527922	504375	502506	458596	414110	364654
112999	326970	318211	333208	344345	365972	468731	599685	556353	463267	401116	343491	323379
	313630	314087	308193	323160	375343	474718	519567	503396	505629	464878	396103	336244
113099	317979	313387	322520	337666	373452	481994	610012	581694	509930	470219	425446	388696
	403892	374069	360920	382917	453594	567157	664834	684735	687726	669305	615334	560868
120199	466710	459591	484352	507918	577328	724740	790973	702648	573540	489393	410409	363035
	356752	329653	337357	380719	510755	624854	654283	656145	662819	611911	559073	518660
120299	537692	528291	540091	571069	629415	763379	822789	719698	572830	491327	420230	369872
	345043	325072	334273	376912	486047	557319	588903	600502	582565	541463	461146	408781
120399	377878	367577	369039	373547	427137	540129	595198	511335	435300	371444	337680	305218
	303019	284200	288159	326354	400425	450926	462330	438347	426861	426861	393525	297150
120499	267192	261597	254339	252023	266326	304624	354858	413359	415606	399605	391872	323207
	376771	367997	363284	381947	436864	468718	456492	455823	426707	394534	349920	291069
120599	260623	241852	224832	220229	235665	249874	283170	362707	390820	395544	391213	391821
	402602	404978	387512	409731	484136	513281	506060	492508	465081	408493	330507	278534
120699	229917	220624	223399	248109	300049	446233	520168	488234	433838	404456	368543	339698
	340603	330296	332680	344969	485693	610379	646520	644742	633688	600331	532323	491168
120799	470517	486207	518389	546695	602495	780180	840916	739689	605896	513399	445784	402264
	365685	353427	350819	377369	522217	619284	668899	689635	690473	635171	548873	533392
120899	524374	510216	501845	503794	523485	521275	680582	615417	507250	466146	429308	401000
	374117	335763	340132	371691	473048	644294	551939	536017	518177	474834	388917	322149
120999	290813	282658	276461	291981	301869	411757	473152	429110	358420	330437	310725	291440
	276869	285233	290861	302799	408856	482927	501283	478317	448878	397103	318994	260973
121099	236991	214024	202370	213490	228863	329416	389107	365351	317725	314288	296120	295431
	299771	299150	315931	326035	398171	465996	472183	447495	444255	426180	392254	356318
121199	330200	330957	342163	359113	382271	463920	503946	563440	534619	494824	438908	394851
	381725	377017	368205	387534	475067	510304	506615	488509	490920	462376	419403	381376
121299	354166	329038	318349	319270	322753	336177	362019	432513	441535	418159	389966	390925

1999 Cost of Service  
 Load Research Rule  
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GULF POWER COMPANY  
 RATE SCHEDULE RS/RST  
 JANUARY 1, 1999 TO DECEMBER 31, 1999  
 HOURLY DEMANDS(KW)

121399	391325	377593	383141	379711	477451	520659	504875	504551	480569	429486	359922	281782
	238834	217223	211523	215734	242093	334834	397228	386677	343985	318577	315614	326533
	330908	319573	317205	358259	447630	515880	522504	512380	494150	444167	367330	311647
121499	279877	277759	274248	290509	354979	498189	565379	522529	431616	363861	343059	323627
	300583	292103	283684	320628	338622	368541	563776	579729	565106	531021	474178	401198
121599	376927	378731	363748	363021	404528	502411	551182	491861	409910	353529	304047	274274
	262181	286351	288823	317343	403760	490730	532517	528013	522055	515386	452006	400329
121699	384446	384346	402104	447785	514137	660103	747655	710897	589983	509311	446092	356790
	335719	314849	320801	347525	542947	644896	678163	694041	680262	657644	588502	539292
121799	520116	529202	542279	567864	615340	741894	797112	752917	639227	570267	514567	454657
	443449	419845	420071	454934	560108	632798	642686	617652	602312	562456	504250	456298
121899	434546	434093	429628	445073	473108	504784	577040	632082	625153	577513	511876	453376
	438163	465501	480867	519824	584156	583904	552031	507830	492667	453079	401671	343615
121999	306358	295084	299640	304363	321075	346574	377658	473886	510845	515101	497940	486131
	491359	474938	460223	477233	566288	574821	563506	550567	523821	481287	411174	338837
122099	312699	311722	313109	326274	374435	469567	519780	525276	507632	476329	432496	375029
	348924	346040	338049	335398	448302	532797	563686	541894	507704	484316	429129	358248
122199	313327	305221	301972	319779	350662	433362	493774	510608	501066	486303	464920	460203
	437568	423720	430842	455480	519221	576630	606165	608531	591564	540743	482316	431075
122299	399597	397017	409074	427558	484249	575701	641107	657617	635502	606728	576727	521558
	488835	459852	430971	457564	568119	668606	693595	688705	678184	660297	589863	548871
122399	534069	532499	543209	580936	621986	705710	777656	780416	730357	678139	591195	531599
	466782	444114	427337	435877	549714	651695	671117	701169	708285	701490	660371	636271
122499	626116	612362	609143	638422	677990	726357	808327	850424	789781	698468	610060	529977
	476478	442272	441112	465013	530344	574880	593231	590556	617570	630631	601730	545712
122599	525093	521823	532853	569398	608575	684921	767387	864334	854618	817781	754698	692434
	607428	548926	512101	517444	596213	672235	729489	759334	779276	762482	730791	702554
122699	697619	702515	718949	747446	777831	815805	878039	911276	851454	743422	658128	583790
	549592	505019	462958	474893	566820	665387	681947	674864	667157	630513	573807	509785
122799	503145	491529	506147	530131	604939	702082	767421	772296	681809	609863	536480	466246
	435266	398062	389131	397655	505100	601673	614036	626613	605599	574554	523519	474235
122899	449686	443047	465556	492295	559564	668800	725322	734305	684568	640368	573862	518767
	477008	434548	448066	482811	606088	719331	742982	756189	740251	686567	617819	575097
122999	551784	547691	544812	581390	636150	720783	800653	787357	686135	610946	518276	473322
	440594	403260	394998	419281	525629	626543	646913	638154	651340	641335	590103	535481
123099	516148	519132	519657	551787	598673	679183	749895	737523	662219	551649	480159	410941
	374052	356067	340748	350108	426416	532899	550937	545317	534690	488240	461614	395820
123199	355216	345674	347472	349069	360205	391792	433570	497962	507683	501330	488492	451810
	448117	421626	424445	430302	516515	571405	540692	504350	449050	419506	381883	356761