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Computation of all the amicable pairs below  $10^{10}$

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# Computation of all the Amicable Pairs Below $10^{10}$

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An efficient exhaustive numerical search method for amicable pairs is described. With the aid of this method all 1427 amicable pairs with smaller member below  $10^{10}$  have been computed, more than 800 pairs being new. This extends previous exhaustive work below  $10^8$  by H. Cohen. Various statistics are given, including an ordered list of all the gcd's of the 1427 amicable pairs below  $10^{10}$  (which may be useful in further amicable pair research). Suggested by the numerical results, a theorem of Borho and Hoffmann for constructing APs has been extended.

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## 1. INTRODUCTION

Let  $\sigma(m)$  denote the sum of all the divisors of  $m$ , including 1 and  $m$ . An *amicable pair* (AP) is a pair of positive integers  $(m, n)$ ,  $m < n$ , such that  $\sigma(m) = \sigma(n) = m + n$ . We note that  $m$  is *abundant* (since  $\sigma(m) > 2m$ ) and that  $n$  is *deficient* (since  $\sigma(n) < 2n$ ). The smallest AP is

$$(220, 284) = (2^2 \cdot 5 \cdot 11, 2^2 \cdot 71).$$

In order to check whether or not a given positive integer  $m$  is the smaller member of an amicable pair, it seems necessary, at first sight, to compute  $\sigma(m)$  and  $n := \sigma(m) - m$ , to check whether  $n > m$  (i.e., whether  $m$  is abundant), and, if so, to compute  $\sigma(n)$  and compare  $\sigma(m)$  with  $\sigma(n)$ . This involves one or two complete factorizations, in case  $m$  is deficient or abundant, respectively. However, a closer look reveals that it is often possible to find out whether a given number  $m$  is deficient (hence cannot be the smaller member of an AP) without the need to factorize it completely. Moreover, once  $\sigma(m)$  and  $n (= \sigma(m) - m)$  have been computed, and  $n > m$ , it is often possible to discover that  $\sigma(n) \neq \sigma(m)$  without the need to factorize  $n$  completely.

These considerations have guided the design of an efficient exhaustive numerical AP search algorithm, the details of which are given in Section 2. With the aid of this algorithm we have extended Cohen's exhaustive list of all 236 APs with smaller member below  $10^8$  ([4]) to all 1427 APs with smaller member below  $10^{10}$ . 601 of them have been published earlier ([6],[7]). The other 826 seem to be new, and are published here for the first time (9 of them have been communicated to the author already in 1983 and 1984 by Woods(2), Borho(2) and Lee(5)). Section 3 presents details of the computations together with several tables collected from this search. Moreover, a result of Borho and Hoffmann for constructing APs is extended, as was suggested by the numerical tables.

In Appendix I to this paper we present the complete list of all 1427 APs with smaller member below  $10^{10}$  ordered according to the size of the smaller members of the pairs. Appendix II displays the same list with a different ordering, viz., according to the various occurring types (defined in Section 3). Finally, Appendix III tabulates all the greatest common divisors of the 1427 APs, in increasing order, together with their frequencies of occurrence, and, for each gcd  $g$ , the rank numbers

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of all the APs  $(m, n)$  for which  $\gcd(m, n) = g$ .

## 2. CHECK WHETHER A GIVEN $m$ IS THE SMALLER MEMBER OF AN AP

Let  $p_i$  be the  $i$ -th prime,  $P_{ij} := \prod_{k=i}^{i+j-1} p_k$ ,  $Q_{ij} := \prod_{k=i}^{i+j-1} \frac{p_k}{p_k-1}$ . We start with the following lemma which gives an upperbound for  $\sigma(m)/m$ .

LEMMA 2.1. *If  $m$  only has prime divisors  $\geq p_i$  ( $i \geq 1$ ) and if  $m < P_{i,j+1}$  ( $j \geq 1$ ) then  $\sigma(m)/m < Q_{ij}$ .*

PROOF. Since  $m < P_{i,j+1} = p_i p_{i+1} \cdots p_{i+j}$  and since any prime divisor of  $m$  is  $\geq p_i$ , it follows that  $m$  has at most  $j$  different prime divisors  $\geq p_i$  (otherwise we would have  $m \geq p_i p_{i+1} \cdots p_{i+j} = P_{i,j+1}$ ). This implies that

$$\frac{\sigma(m)}{m} = \prod_{p^e \parallel m} \frac{p^{e+1}-1}{p^e(p-1)} = \prod_{p^e \parallel m} \frac{p-p^{-e}}{p-1} < \prod_{p|m} \frac{p}{p-1} \leq \prod_{k=i}^{i+j-1} \frac{p_k}{p_k-1} = Q_{ij}. \quad \square$$

In the algorithm below, this lemma is invoked very frequently. Therefore, we require a precomputed table of  $P$ - and  $Q$ -values, large enough so that the values needed can be found quickly by simple table look-ups.

Now we describe an efficient algorithm to check whether a given positive integer  $m$  belongs to an AP  $(m, n)$  with  $m < n$ . This algorithm is based on the observation that when, for given  $\gamma$  and  $N$ , we want to verify one of the relations  $\sigma(N)/N > \gamma$ ,  $= \gamma$ ,  $< \gamma$ , and when the primes  $2, 3, \dots, p$  have been tried as divisors of  $N$ , it may be possible

- (i) to detect with Lemma 2.1 whether  $\sigma(N)/N < \gamma$  by using the information that the *unfactored* portion of  $N$  only has prime divisors  $> p$ , and
- (ii) to detect whether  $\sigma(N)/N > \gamma$  by using the *factored* portion of  $N$ .

In this way a lot of unnecessary factorization time may be avoided. The price to pay for this profit lies in the time needed to consult the  $P$ - and  $Q$ -tables used in Lemma 2.1. In the algorithm, the index  $i_{\max}$  is the maximum value of  $i$  for which Lemma 2.1 is invoked. In order to restrict this table look-up time,  $i_{\max}$  should not be chosen too large. The optimal value of  $i_{\max}$  also depends on the actual implementation of the algorithm (cf. Section 3).

### ALGORITHM TO CHECK WHETHER $m$ IS THE SMALLER MEMBER OF AN AP

STEP 1. (Find out whether  $m$  is abundant; in this step keep  $m = m_1 m_2$  where  $\gcd(m_1, m_2) = 1$ ,  $m_1$  is the factored and  $m_2$  is the unfactored portion of  $m$ ,  $\alpha := \sigma(m_1)/m_1$ ; start with  $m_1 := 1$ ,  $m_2 := m$ ,  $\alpha := 1$ ).

Start factoring  $m$  by trial dividing  $m_2$  by the primes  $p_1, p_2, \dots \leq m_2^{1/2}$ . In case a prime power divisor  $p_{i-1}^e$  ( $e \geq 1$ ) of  $m_2$  has been found, update  $m_1$ ,  $m_2$  and  $\alpha$  ( $m_1 := m_1 p_{i-1}^e$ ,  $m_2 := m / m_1$ ,  $\alpha := \alpha \sigma(p_{i-1}^e) / p_{i-1}^e$ ). After the trial division with  $p_{i-1}$  (whether or not  $p_{i-1}$  divides  $m_2$ ): if  $\alpha < 2$  and  $4 \leq i \leq i_{\max}$  check whether  $m$  is possibly deficient as follows: by inspecting the  $P$ -table find the smallest value of  $j$  ( $=: j^*$ ) such that  $m_2 < P_{i,j+1}$ ; if  $\alpha Q_{i,j^*} < 2$  then STOP (because, in that case,  $m$  is deficient: by Lemma 2.1 we have  $\sigma(m_2)/m_2 < Q_{i,j^*}$  so that

$$\frac{\sigma(m)}{m} = \frac{\sigma(m_1)}{m_1} \cdot \frac{\sigma(m_2)}{m_2} = \alpha \frac{\sigma(m_2)}{m_2} < \alpha Q_{i,j^*} < 2).$$

If  $\alpha \geq 2$ , or  $i < 4$  or  $i > i_{\max}$ , the deficiency check on  $m$  is left out. After the complete factorization of  $m$  (and simultaneous computation of  $\sigma(m)$ ): if  $m < \sigma(m) - m =: n$  (i.e.,  $m$  is abundant) goto STEP 2, otherwise STOP.

END OF STEP 1

STEP 2. (given  $m$ ,  $\sigma(m)$  and  $n = \sigma(m) - m$ , check whether  $\sigma(n) = \sigma(m)$ ; during the factorization of  $n$  try to exclude those  $m$  for which  $\sigma(n) \neq \sigma(m)$  as early as possible by testing whether  $\sigma(n)/n \neq \beta$

where  $\beta = \sigma(m)/n$ ; in this step keep  $n = n_1 n_2$ , where  $\gcd(n_1, n_2) = 1$ ,  $n_1$  is the factored and  $n_2$  the unfactored portion of  $n$ ,  $\alpha := \sigma(n_1)/n_1$ ; start with  $n_1 := 1$ ,  $n_2 := n$ ,  $\alpha := 1$ ).

Start factoring  $n$  by trial dividing  $n_2$  by the primes  $p_1, p_2, \dots \leq n_2^{1/2}$ . In case a prime power divisor  $p_{i-1}^e$  ( $e \geq 1$ ) of  $n_2$  has been found, update  $n_1$ ,  $n_2$  and  $\alpha$ : if the updated  $\alpha$  satisfies  $\alpha > \beta$ , then STOP (because, in that case, we have

$$\frac{\sigma(n)}{n} = \frac{\sigma(n_1)}{n_1} \frac{\sigma(n_2)}{n_2} \geq \frac{\sigma(n_1)}{n_1} = \alpha > \beta = \frac{\sigma(m)}{n},$$

so that  $\sigma(n) \neq \sigma(m)$ ). After the trial division with  $p_{i-1}$  (whether or not  $p_{i-1}$  divides  $n_2$ ): if  $4 \leq i \leq i_{\max}$  check whether  $\sigma(n)/n < \beta$  as follows: by inspecting the  $P$ -table find the smallest value of  $j$  ( $=: j^*$ ) such that  $n_2 < P_{i,j+1}$ . If  $\alpha Q_{i,j^*} < \beta$  then STOP (because, in that case,  $\sigma(n)/n < \beta$ : by Lemma 2.1 we have  $\sigma(n_2)/n_2 < Q_{i,j^*}$  so that

$$\frac{\sigma(n)}{n} = \frac{\sigma(n_1)}{n_1} \cdot \frac{\sigma(n_2)}{n_2} = \alpha \frac{\sigma(n_2)}{n_2} < \alpha Q_{i,j^*} < \beta.$$

If  $i < 4$  or  $i > i_{\max}$ , the check on  $\sigma(n)/n < \beta$  is omitted. After the complete factorization of  $n$  (and simultaneous computation of  $\sigma(n)$ ): check whether  $\sigma(n) = \sigma(m)$ . If so,  $(m, n)$  is an AP.

END OF STEP 2

### 3. COMPUTING ALL THE APs BELOW $10^{10}$

In order to compute all the APs  $(m, n)$  with  $m < n$  and  $10^8 < m \leq 10^{10}$  (thus extending H. Cohen's computations reported in [4]), we distinguish between  $m \equiv 0 \pmod{6}$  (the easy case) and  $m \not\equiv 0 \pmod{6}$  (the hard case).

If  $m \equiv 0 \pmod{6}$  and  $n = \sigma(m) - m$  is even then  $(m, n)$  cannot be an AP ([5]). Therefore,  $n$  should be odd. In that case, we have ([6])  $m = 2^\mu M^2$ ,  $n = N^2$ , with  $\mu \in \mathbb{N}$ ,  $M$  and  $N$  being odd. For all the numbers  $m = 2^\mu M^2$  with  $3 \mid M$  and  $10^8 < m \leq 10^{10}$  we computed  $n := \sigma(m) - m$  and checked whether  $n$  was a perfect square. Not a single such case was found. Computer time was about 6 CPU seconds.

For all  $m \not\equiv 0 \pmod{6}$  with  $10^8 < m \leq 10^{10}$  we used the algorithm of Section 2 to find all APs in this range. The optimal choice of  $i_{\max}$  for our FORTRAN-implementation on a CYBER 750 was about 75. This value was chosen to be fixed for the whole range. The speed-up factor of our program was about 15, compared with a straightforward program which, given  $m$ , computes  $\sigma(m)$  and, if  $n := \sigma(m) - m > m$ , computes  $\sigma(n)$ . A slight increase of the speed was obtained as follows. In Step 1, in case a prime (power) factor of  $m_2$  was found and  $m_1$  and  $\sigma(m_1)$  (among others) were updated, it was checked whether both  $m_1$  and  $\sigma(m_1)$  were divisible by one of the primitive abundant numbers  $20 = 2^2 \cdot 5$ ,  $28 = 2^2 \cdot 7$ ,  $70 = 2 \cdot 5 \cdot 7$  and  $88 = 2^3 \cdot 11$ . If so, the algorithm was stopped since this implied that also  $m$  and  $\sigma(m)$ , hence also  $n = \sigma(m) - m$  were divisible by this abundant number, so that both  $m$  and  $n$  were abundant. This is impossible for an AP  $(m, n)$ .

The total time to cover the range  $10^8 < m \leq 10^{10}$  was about 1000 (low priority) CPU hours, spent in the last seven months of 1984.

The total number of APs  $(m, n)$  found with  $m < n$  and  $10^8 < m \leq 10^{10}$  was 1191. In Appendix I all the APs with smaller member  $\leq 10^{10}$  are given (including the 236 APs with smaller member  $\leq 10^8$ ). For each pair we list the decimal representation and the prime factorization of the members, a rank number, a code (letter plus digit) referring to the discoverer, and the type of the pair (defined below). For example, pair # 1427 reads as follows:

1427	9967523980	2E2.257.5.17.37.3083
R9 42	12890541236	2E2.257.107.117191

Table 1 gives the meaning of the codes, and their frequencies of occurrence. Extensive information about the sources of the pairs with code L1 is given in the survey paper [6].

TABLE 1  
Status list of the first 1427 APs  $(m,n)$ ,  $m < n$ , with  $m \leq 10^{10}$

code	# APs	references and remarks
L1	508	[6]
R2	1	[9] (# 1056)
W1	73	sent to the author by D. Woods on June 29, 1982 and published in [7]
R3	19	found by the author with the methods described in [8], and published in [7]
W2	1	sent in by D. Woods on Febr. 16, 1983 (# 330)
R6	1	found by the author in May, 1983 (# 1375)
W3	1	sent in by D. Woods on July 11, 1983 (# 1050)
L2	5	sent in by E.J. Lee in July, 1984 (# # 778, 860, 894, 1241, 1261)
B4	2	sent in by W. Borho on Nov. 2, 1984 (# # 809, 1393)
R9	816	found by the author during the systematic search described in this paper

There are 1015 pairs with even members and 412 with odd members. The minimal and maximal values of  $m/n$  are 0.6979 and 0.999858 for the APs #567 and #1010, respectively.

Let  $A(x)$  be the number of APs  $(m,n)$  with  $m < n$  and  $m \leq x$ . From the list of APs with  $m \leq 10^8$ , BRATLEY et. al. ([3]) concluded that for  $x \leq 10^8$   $A(x)$  is approximately proportional to  $x^{1/2}/\ln(x)$ . In Table 2 we give, for  $x = k \cdot 10^9$  ( $1 \leq k \leq 10$ ):  $A(x)$ ,  $A(x)\ln(x)/x^{1/2}$ ,  $A(x)(\ln(x))^2/x^{1/2}$  and  $A(x)(\ln(x))^3/x^{1/2}$ . From these figures we may draw the conclusion that for  $x \leq 10^{10}$   $A(x)$  is approximately proportional to  $x^{1/2}/(\ln(x))^3$ .

TABLE 2  
Comparison of  $A(x)$  with  $x^{1/2}/(\ln(x))^i$ ,  $i = 1,2,3$

$x / 10^9$	$A(x)$	$A(x)\ln(x)/x^{1/2}$	$A(x)(\ln(x))^2/x^{1/2}$	$A(x)(\ln(x))^3/x^{1/2}$
1	586	0.3840	7.958	164.9
2	762	0.3649	7.815	167.4
3	898	0.3578	7.807	170.4
4	1009	0.3527	7.799	172.4
5	1100	0.3474	7.759	173.3
6	1185	0.3444	7.755	174.6
7	1256	0.3403	7.715	174.9
8	1317	0.3358	7.656	174.6
9	1377	0.3327	7.625	174.8
10	1427	0.3286	7.566	174.2

We define an AP  $(m,n)$ ,  $m < n$ , to be a *regular amicable pair of type  $(i,j)$* , if  $(m,n) = (gM, gN)$ , where  $g = \gcd(m,n)$ ,  $\gcd(g,M) = \gcd(g,N) = 1$ ,  $M$  and  $N$  are square-free, and the numbers of prime factors of  $M$  and  $N$  are  $i$  and  $j$ , respectively. Other pairs are called *irregular* or *exotic*. There are 1082 regular and 345 irregular APs with smaller member  $\leq 10^{10}$ . It is easy to see that there are no

regular pairs of type  $(1, j)$ ,  $j \geq 1$ : let  $g$  be the gcd of such an AP, so that  $(m, n) = (gp, gN)$  where  $p$  is a prime and  $\gcd(g, p) = \gcd(g, N) = 1$ . We have  $m < n$ , hence  $p < N$ . By definition,  $\sigma(gp) = \sigma(gN)$ , implying that  $p + 1 = \sigma(N)$ . Since, for any  $N \in \mathbb{N}$ ,  $\sigma(N) > N$ , this implies that  $p + 1 > N$ , a contradiction. We note that in this argument  $N$  need not be squarefree.

In Table 3 we give the frequency distribution of the various types among the first 1082 regular APs. We note that there are relatively few regular APs of type  $(i, 1)$ ,  $i \geq 2$ , and of type  $(i, j)$  with  $i < j$ .

In [7] the total number of known APs with smaller member  $\leq 10^{10}$  was 601 (these are the APs belonging to the first four codes in Table 1). Among them were 104 irregular APs, i.e., 17.3%. Comparing this figure with the 345 irregular APs in our *complete* list of APs with smaller member  $\leq 10^{10}$ , i.e., 24.2%, we see that relatively many irregular APs were found in our systematic search.

In Appendix II we present lists of all the 1082 regular APs arranged according to their types, together with a list of the 345 exotic APs. This Appendix may be useful for searches of APs of a special type.

TABLE 3  
Frequency distribution of the first 1082 regular APs  
of type  $(i, j)$ ,  $i \geq 2$ ,  $j \geq 1$

$i =$	$j =$	1	2	3	4	5	row totals
2		20	67	21	4	0	112
3		16	271	280	24	0	591
4		1	78	201	63	2	345
5		0	6	18	7	3	34
column totals		37	422	520	98	5	1082

The regular pairs of type  $(i, 1)$ ,  $i \geq 2$ , play an important role as “mother” pairs in methods to generate new APs from given pairs. In [8] a substantial part of the new APs found there were constructed from such mother pairs. In [1], BORHO and HOFFMANN have partially generalized the methods from [8] by introducing the concept of a *breeder*: a breeder is a pair of positive integers  $(a_1, a_2)$  such that the equations

$$a_1 + a_2x = \sigma(a_1) = \sigma(a_2)(x + 1)$$

have a positive integer solution  $x$ . If  $x$  is a prime, then  $(a_1, a_2x)$  is an amicable pair. For certain breeders, called “special” breeders, Borho and Hoffmann formulate the following:

**THEOREM 1.** ([1]). *Let  $(a_1, a_2)$  be a special breeder, i.e.,  $a_1 = au$ ,  $a_2 = a$ , with  $\gcd(a, u) = 1$ . Take any factorization of  $C := \sigma(u)(u + \sigma(u) - 1)$  into two different factors  $D_1, D_2$  ( $C = D_1D_2$ ). Then if the numbers  $s_i = D_i + \sigma(u) - 1$ , for  $i = 1, 2$ , and also  $q = u + s_1 + s_2$  are primes not dividing  $a$ , then  $(a, u, q, a, s_1, s_2)$  is an amicable pair.  $\square$*

Regular APs of type  $(i, 1)$ ,  $i \geq 2$ , are of the form  $(au, ap)$ ,  $p$  prime, and the numbers  $(au, a)$  are special breeders which generally produce many APs with the above theorem.

In our list of 1427 APs we found a few APs, e.g. #647 and #955, which suggested that the condition  $\gcd(a, u) = 1$  in Theorem 1 may be dropped. In fact, we have:

**THEOREM 2.** *Let  $(au, a)$  be a breeder, i.e., there exists a positive integer  $x$  such that  $au + ax = \sigma(au) = \sigma(a)(x + 1)$ . Take any factorization of  $C := (x + 1)(x + u)$  into two different factors  $D_1, D_2$  ( $C = D_1D_2$ ). Then if the numbers  $s_i = D_i + x$ , for  $i = 1, 2$ , and also  $q = u + s_1 + s_2$  are primes not*

dividing  $a$ , then  $(a.u.q., a.s_1s_2)$  is an amicable pair.  $\square$

The proof of this theorem is left to the reader.

If  $\gcd(a,u)=1$ , then  $\sigma(au)=\sigma(a)\sigma(u)$ , so that  $x=\sigma(u)-1$  and Theorem 2 reduces to Theorem 1. As an example, AP #955 gives the breeder  $(au,a)$  with  $a=3.5.7.19$  and  $u=7.29.47.181$ . Theorem 2 yields 16 new APs with this breeder as input.

It is known ([5]) that most even APs have a pair sum which is  $\equiv 0 \pmod{9}$ . Our search proves that indeed Poulet's pair #503:  $(2^4 331.19.6619, 2^4 331.199.661)$  is the smallest exceptional pair. All known exceptional pairs had members  $\equiv 7 \pmod{9}$  and a pair sum  $\equiv 5 \pmod{9}$ . In our search we found two even APs with pair sum  $\equiv 3 \pmod{9}$ , viz., the (irregular) pairs:

$$\# 577: 2^4 \begin{cases} 19^2 103.1627 \\ 3847.16763 \end{cases} \quad \text{and} \quad \# 874: 2^2 19 \begin{cases} 13^2 37.43.139 \\ 41.151.6709 \end{cases}$$

These are the first two examples of APs of the form described in [5], Theorem I, case (b) (also cf. the remarks immediately following Table I in [5]). Table 4 gives the rank numbers of the 17 APs with smaller member  $\leq 10^{10}$  whose pair sum is  $\not\equiv 0 \pmod{9}$ , divided into even and odd pairs, and regular and irregular pairs.

TABLE 4  
The 17 APs among the first 1427, whose pair sum is  
 $\not\equiv 0 \pmod{9}$

	even members	odd members
	# 503, type (2,2)	# 899, type (3,2)
regular	# 1031, type (2,2)	# 1057, type (2,2)
	# 1081, type (2,2)	# 1158, type (3,2)
irregular	# # 577, 874	# # 7, 38, 78, 113, 256, 440, 1083, 1175, 1380

Another question, suggested by Prof. C. Pomerance, is whether pairs, triples, quadruples, etc. of APs exist having the *same pair sum*. Among the first 1427 APs we found 37 such pairs of APs, but no such triples, quadruples etc. Table 5 gives the rank numbers of these pairs of APs, and the prime factorization of their pair sums. The pair sums only have prime divisors  $\leq 37$ . In 30 of the 37 cases at least one member of the pair was found during the exhaustive search described in the present paper.



1228 by  $3^6 5.23.137.547.1093$ , and by  $3^{10} 5.23.107.3851$ .

In [8] we have presented methods to find new APs from known APs. By applying these methods to the new APs among the first 1427 APs we have found 117 new APs (with smaller member  $> 10^{10}$ ). The new APs were found mainly from mother pairs having a relatively simple structure, like those of type  $(i,1)$ ,  $i > 1$ . They will be published in a forthcoming report ([2]), together with many other new amicable pairs.

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Appendix I  
The first 1427 APs



1 220 2E2.5.11 3D  
L1 21 284 2E2.71  
2 1184 2E5.37  
L1 X 1210 2.5.11E2  
3 2620 2E2.5.131  
L1 22 2924 2E2.17.43  
4 5020 2E2.5.251  
L1 22 5564 2E2.13.107  
5 6232 2E3.19.41  
L1 X 6368 2E5.199  
6 10744 2E3.17.79  
L1 22 10856 2E3.23.59  
7 12285 3E3.5.7.13  
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8 17296 2E4.23.47  
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9 63020 2E2.23.5.137  
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17 141664 2E5.19.233  
L1 X 153176 2E3.41.467  
18 142310 2.5.7.19.107  
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20 176272 2E4.23.479  
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121	12397552	2E4.23.59.571	8D	151	23358248	2E3.37.23.47.73	8D	181	38663950	2.5E2.13.17.3499	8D	211	72958556	2E2.11.19.197.443	8D
L1	32	13136528	2E4.359.2287	L1	31	25233112	2E3.37.85247	L1	32	43362050	2.5E2.59.14699	L1	33	74733604	2E2.11.53.73.439
122	12707704	2E3.17.41.43.53	152	23389695	3E3.5.7.53.467	182	38783992	2E3.13.37.10079	212	73032872	2E3.11.71.11689				
L1	42	14236136	2E3.107.16631	L1	33	25132545	3E3.5.17.47.233	L1	33	41654408	2E3.47.139.797	L1	33	78469528	2E3.59.83.2003
123	13671735	3.5.19.7E2.11.89	153	23628940	2E2.5.37E2.863	183	38807968	2E5.37.73.449	213	74055952	2E4.23.61.3299				
L1	X	15877065	3.5.19.17.29.113	L1	X	27428276	2E2.17.251.1607	L1	X	40912232	2E3.37.89.1553	L1	32	78166448	2E4.197.24799
124	13813150	2.5E2.13.79.269	154	24472180	2E2.5.17.167.431	184	43096904	2E3.17.41.59.131	214	74386305	3E2.5.7.17.29.479				
L1	33	14310050	2.5E2.29.71.139	L1	43	30395276	2E2.47.107.1511	L1	43	46715896	2E3.53.239.461	L1	43	87354495	3E2.5.19.71.1439
125	13921528	2E3.19.67.1367	155	25596544	2E7.311.643	185	44139856	2E4.29.251.379	215	74769345	3E3.5.7E2.89.127				
L1	22	13985672	2E3.19.101.911	L1	X	25640096	2E5.67.11959	L1	33	44916944	2E4.83.149.227	L1	X	82824255	3E3.5.17.151.239
126	14311688	2E3.17.47.2239	156	25966832	2E4.29.191.293	186	45263384	2E3.17.59.5641	216	75171808	2E5.53.127.349				
L1	33	14718712	2E3.23.167.479	L1	32	26529808	2E4.47.35279	L1	32	46137016	2E3.19.433.701	L1	32	77237792	2E5.479.5039
127	14426230	2.7.5.13.83.191	157	26090325	3E2.5E2.17.19.359	187	46237730	2.7.5.11E2.53.103	217	75226888	2E3.11.59.14489				
L1	43	18087818	2.7.31.71.587	L1	33	26138475	3E2.5E2.11.59.179	L1	X	61319902	2.7.83.113.467	L1	33	81265112	2E3.53.137.1399
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L1	X	15882670	2.5.19.179.467	L1	33	28128368	2E4.59.83.359	L1	X	49125375	3E2.5E3.13.3359	L1	42	88110536	2E3.167.65951
129	14654150	2.5E2.7.149.281	159	28608424	2E3.13.139.1979	189	46521405	3E3.5.7.19.2591	219	78447010	2.5.17.19.149.163				
L1	32	16817050	2.5E2.179.1879	L1	33	29603576	2E3.23.349.461	L1	33	53011395	3E3.5.31.53.239	L1	43	80960990	2.5.11.491.1499
130	15002464	2E5.37.12671	160	30724694	2.7.13.11.103.149	190	46555250	2.5E3.7.37.719	220	79324875	3E2.5E3.7E2.1439				
L1	22	15334304	2E5.227.2111	L1	32	32174506	2.7.13.17.10399	L1	X	55880590	2.5.103.227.239	L1	X	87133365	3E2.5.11.103.1709
131	15363832	2E3.11.71.2459	161	30830696	2E3.13.521.569	191	46991890	2.5.29.11.14731	221	80422335	3E3.5.7.85103				
L1	33	16517768	2E3.53.163.239	L1	X	31652704	2E5.449.2203	L1	X	48471470	2.5.29.19E2.463	L1	23	82977345	3E3.5.11.71.787
132	15938055	3E2.5.7.19.2663	162	31536855	3E2.5.7.53.1889	192	48639032	2E3.13.29.16127	222	82633005	3E2.7.13.5.17.1187				
L1	33	17308665	3E2.5.11.73.479	L1	21	32148585	3E2.5.7.102059	L1	33	52967368	2E3.59.293.383	L1	32	104177619	3E2.7.13.131.971
133	16137628	2E2.13.23.103.131	163	31818952	2E3.11.41.8819	193	48641584	2E4.29.104831	223	83135650	2.5E2.13.79.1619				
L1	33	16150628	2E2.13.31.43.233	L1	33	34860248	2E3.97.167.269	L1	23	48852176	2E4.47.167.389	L1	33	85603550	2.5E2.19.251.359
134	16871582	2.7E2.19.13.17.41	164	32205616	2E4.17.167.709	194	49215166	2.31.61.7.11.13E2	224	84521745	3E3.5.7.11.47.173				
L1	32	19325698	2.7E2.19.97.107	L1	31	34352624	2E4.2147039	L1	X	55349570	2.31.61.5.2927	L1	42	107908335	3E3.5.383.2087
135	17041010	2.7.5.31.7853	165	32642324	2E2.11.13.149.383	195	50997596	2E2.13.19.71.727	225	84591405	3E3.5.17.29.31.41				
L1	33	19150222	2.7.13.43.2447	L1	44	35095276	2E2.17.47.79.139	L1	33	51737764	2E2.13.23.181.239	L1	43	89590995	3E3.5.13.71.719
136	17257695	3.5.7.13.47.269	166	32685250	2.5E3.13.89.133	196	52695376	2E4.17.151.1283	226	86158220	2E2.5.41.105071				
L1	33	17578785	3.5.7.23.29.251	L1	X	34538270	2.5.13.379.701	L1	31	56208368	2E4.3513023	L1	33	99188788	2E2.23.43.25073
137	17754165	3E2.5.13.11.31.89	167	33501825	3E2.5E2.7.89.239	197	56055872	2E6.79.11087	227	87998470	2.5.7.29.67.647				
L1	32	19985355	3E2.5.13.127.269	L1	33	36136575	3E2.5E2.19.79.107	L1	22	56598208	2E6.383.2309	L1	43	102358010	2.5.47.89.2447
138	17844255	3E2.5.13.11.47.59	168	34256222	2.7.11.13.71.241	198	56512610	2.7.5.11.23.3191	228	88144630	2.5.7E2.29.6203				
L1	32	19895265	3E2.5.13.71.479	L1	32	35997346	2.7.11.23.10163	L1	X	75866014	2.7E2.774143	L1	X	102814490	2.5.37.269.1033
139	17908064	2E5.53.10559	169	34364912	2E4.43.199.251	199	56924192	2E5.13.193.709	229	89477984	2E5.59.83.571				
L1	22	18017056	2E5.79.7127	L1	33	34380688	2E4.47.131.349	L1	X	64562488	2E3.283.28517	L1	32	92143456	2E5.1637.1759
140	18056312	2E3.17.103.1289	170	34765731	3E2.7.13.11.17.227	200	58580540	2E2.23.5.347.367	230	90437150	2.5E2.23.19.4139				
L1	33	18166888	2E3.19.107.1117	L1	33	36939357	3E2.7.13.23.37.53	L1	32	70507972	2E2.23.521.1471	L1	22	94372450	2.5E2.23.137.599
141	18194715	3E2.5.7.11.59.89	171	35115795	3E3.5.11.13.17.107	201	59497888	2E5.41.101.449	231	91996816	2E4.29.331.599				
L1	43	22240485	3E2.5.31.107.149	L1	42	43266285	3E3.5.53.6047	L1	X	61953512	2E3.29.97.2753	L1	33	93259184	2E4.79.89.829
142	18655744	2E9.83.439	172	35361326	2.7.13.11.17.1039	202	63560025	3E3.5E2.17.29.191	232	93837808	2E4.19.83.3719				
L1	X	19154336	2E5.619.967	L1	32	40117714	2.7.13.53.4159	L1	33	65003175	3E3.5E2.23.53.79	L1	32	99899792	2E4.1399.4463
143	20014808	2E3.11.79.2879	173	35373195	3E2.5.13.11.23.239	203	63717615	3E2.5.13.17.43.149	233	95629904	2E4.67.37.2411				
L1	33	21457192	2E3.47.149.383	L1	32	40105845	3E2.5.13.179.383	L1	32	66011985	3E2.5.13.19.5939	L1	22	97580944	2E4.67.227.401
144	20022328	2E3.17.23.37.173	174	35390008	2E3.19.23.53.191	204	66595130	2.5.31.7.30689	234	95791430	2.7.17.5.101.797				
L1	42	22823432	2E3.1367.2087	L1	42	39259592	2E3.71.69119	L1	22	74824390	2.5.31.59.4091	L1	32	115187002	2.7.17.113.4283
145	20308995	3E3.5.7.21491	175	35472592	2E4.43.47.1097	205	66854710	2.5.17.13E3.179	235	96304845	3.5.7E2.13.10079				
L1	23	20955645	3E3.5.17.23.397	L1	32	36415664	2E4.53.42943	L1	X	71946890	2.5.17.83.5099	L1	23	96747315	3.5.7E2.23.59.97
146	21448630	2.5.7.131.2339	176	37363095	3E2.7.11.5.41.263	206	67729064	2E3.13.431.1511	236	97041735	3E2.5.7.71.4339				
L1	33	23030090	2.5.19.53.2287	L1	32	45663849	2E3.7.11.131.503	L1	22	69439576	2E3.23.107.3527	L1	22	97945785	3E2.5.7.239.1301
147	22227075	3E3.5E2.13.17.149	177	37784810	2.7.5.539783	207	67738268	2E2.19.13.17.37.109	237	102023145	3E4.7E2.5.53.97				
L1	32	24644925	3E3.5E2.19.1259	L1	24	39944086	2.7.13.41.53.101	L1	42	79732132	2E2.19.263.3989	L1	32	116970399	3E4.7E2.13.2267
148	22249552	2E4.13.41.2609	178	37848915	3E2.5.13.23.29.97	208	68891992	2E3.13.23.83.347	238	102719740	2E2.5.29E2.31.197				
L1	X	25325528	2E3.587.5393	L1	32	39202605	3E2.5.13.19.3527	L1	42	78437288	2E3.587.16703	L1	X	129063812	2E2.43.431.1741
149	22508145	3E3.5.11.23.659	179	38400512	2E9.179.419	209	71015260	2E2.5.23.263.587	239	103034776	2E3.13.990719				
L1	22	23111055	3E3.5.11.79.197	L1	X	38938288	2E4.83.109.269	L1	43	85458596	2E2.41.47.11087				
150	22608632	2E3.19.23.29.223	180	38637016	2E3.11.359.1223	210	71241830	2.5.11.19.89.383	240	104887448	2E3.19.71.9719				
L1	42	25775368	2E3.1439.2239	L1	33	40678184	2E3.29.271.647	L1	43	78007370	2.5.17.359.1279	L1	33	105064552	2E3.23.47.12149

241	108734050	2.5E2.31.29.41.59	9D	271	148077644	2E2.13.11.83.3119	9D	301	190888155	3E2.5.17.19.23.571	9D	331	250876395	3E2.5.7.11.17.4259	
L1	32	116251550	2.5E2.31.179.419	L1	32	160128436	2E2.13.47.65519	R9	42	194594085	3E2.5.7.617759	L1	43	323303445	3E2.5.53.283.479
242	109410345	3E4.5.11.41.599		272	153015550	2.5E2.19.23.47.149		302	195857415	3E2.5.13.19.67.263		332	251302370	2.5.11.23.71.1399	
L1	22	110132055	3E4.5.11.59.419	R9	43	168392450	2.5E2.79.89.479	R9	X	1962124265	3E3.5.13.23.4861	R9	44	271244830	2.5.29.59.83.191
243	110960710	2.5.67.7.59.401		273	154190750	2.7E2.5E3.41.307		303	196421715	3E2.5.19.37.7.887		333	252551048	2E3.17.31.37.1619	
L1	32	125222330	2.5.67.31.6029	R9	X	190889986	2.7E2.43.97.467	L1	21	224703405	3E2.5.19.37.7103	R9	43	279327352	2E3.107.179.1823
244	114944072	2E3.17.19.44483		274	155578180	2E2.5.223.34883		304	199432948	2E2.11.13.151.2309		334	252940545	3E2.5.13.11.23.1709	
R3	33	125269528	2E3.53.439.673	R9	34	172610492	2E2.23.41.67.683	R9	X	213484172	2E2.11E2.197.2239	W1	32	284847615	3E2.5.13.89.5471
245	115259625	3E3.5E3.13.37.71		275	155797390	2.5.7.863.2579		305	200328232	2E3.13.157.12269		335	253703776	2E5.59.83.1619	
R9	X	123757335	3E3.5.13.151.467	L1	33	165195890	2.5.23.29.24767	L1	X	206790368	2E5.6462199	L1	32	260678624	2E5.449.18143
246	115447424	2E7.59.15287		276	156226856	2E3.31.23.61.449		306	200879055	3E3.5.13.17.6733		336	256755056	2E4.19.79.10691	
L1	X	118458976	2E5.349.10607	L1	32	165181144	2E3.31.199.3347	L1	X	206393265	3E5.5.13.73.179	L1	32	273568144	2E4.2591.6599
247	115749344	2E5.47.76961		277	157151410	2.5.13E3.23.311		307	201168592	2E4.29.491.883		337	256948065	3E3.5.11.23.7523	
L1	X	116983744	2E6.431.4241	R9	X	163634510	2.5.13.89.14143	L1	33	203314448	2E4.67.89.2131	L1	22	263110815	3E3.5.11.53.3343
248	116654896	2E4.23.359.883		278	161088158	2.7.11.17.37.1663		308	203055622	2.7.19.11.29.2393		338	258904646	2.7.13.11.79.1637	
L1	33	120115664	2E4.101.239.311	R9	55	166706530	2.5.23.31.103.227	L1	X	210627578	2.7E2.19.31.41.89	L1	33	269448634	2.7.13.23.59.1091
249	118458830	2.7.5.37.45737		279	162936904	2E3.13.719.2179		309	203972715	3E3.5.31.17.47.61		339	260231192	2E3.13.659.3797	
L1	X	131819506	2.7E2.13.107.967	R9	33	166679096	2E3.19.839.1307	L1	X	207429525	3E3.5E2.31.23.431	L1	33	266171608	2E3.19.593.2953
250	120812175	3E3.5E2.11.53.307		280	164733752	2E3.31.53.83.151		310	204134385	3.5.7.13.17.19.463		340	264764630	2.5.17.13.47.2549	
R9	X	126671985	3E3.5.11.197.433	R9	43	166212808	2E3.17.383.3191	L1	42	244869135	3.5.7.383.6089	L1	32	290441770	2.5.17.359.4759
251	121293315	3E3.5.13.11.61.103		281	165323696	2E4.37.97.2879		311	204756904	2E3.11.59.113.349		341	265192208	2E4.131.23.5501	
R9	X	138690045	3E2.5.13.383.619	R9	33	167155024	2E4.59.113.1567	L1	43	226163096	2E3.79.449.797	L1	22	275148208	2E4.131.251.523
252	127924335	3E2.5.7.11.36919		282	165742395	3.5.7.13.29.53.79		312	205843365	3E2.7E2.13.5.43.167		342	267217335	3E2.5.7E2.11.23.479	
L1	X	148532625	3E2.5E3.31.4259	R9	43	182622405	3.5.7.41.59.719	L1	31	254264283	3E2.7E2.13.44351	R9	X	347397705	3E2.5.89.127.683
253	131118975	3E2.5E2.13.23.1949		283	166737550	2.5E2.7.359.1327		313	208693628	2E2.11.13.23.29.547		343	270039910	2.5.7.47.211.389	
R9	X	132926625	3E2.5E3.13.61.149	R9	X	188953970	2.5.23.829.991	R9	53	255308932	2E2.31.167.12329	R9	X	301444250	2.5E3.79.15263
254	131483835	3E2.5.7.71.5879		284	168930032	2E4.23.47.9767		314	209027128	2E3.23.29.43.911		344	270208672	2E5.59.167.857	
L1	22	132692805	3E2.5.7.223.1889	L1	32	179904784	2E4.1583.7103	R9	43	224355272	2E3.37.383.1979	L1	32	274655648	2E5.131.65519
255	133089500	2E2.5E3.23.71.163		285	169000448	2E9.71.4649		315	209309704	2E3.29.71.97.131		345	271048340	2E2.5.17.797201	
R9	X	176374564	2E2.5E3.115127	L1	X	173499952	2E4.53.204599	R9	43	209816696	2E3.19.83.16631	L1	33	331636372	2E2.41.73.27701
256	133178325	3.5E2.7E3.31.167		286	169335790	2.5.13.19.179.383		316	211319745	3.7.5.13.23.53.127		346	271629728	2E5.37.383.599	
L1	X	133471275	3.5E2.7.31.59.139	L1	44	179029010	2.5.23.59.79.167	R9	55	234587199	3.7.11.17.31.41.147	L1	32	279947872	2E5.1709.5119
257	133768816	2E4.19.131.3359		287	169652512	2E5.71.89.839		317	214748488	2E3.17.19.41.2027		347	273141836	2E2.11.23.29.41.227	
L1	32	141213584	2E4.199.44351	L1	32	173269088	2E5.191.28349	L1	42	245201912	2E3.3041.10079	L1	53	306014644	2E2.13.239.24623
258	134312152	2E3.13.127.10169		288	169884784	2E4.29.109.3359		318	216392216	2E3.19.53.26861		348	274638460	2E2.5.1693.8111	
L1	33	139057448	2E3.23.223.3389	R9	33	173843216	2E4.71.199.769	L1	33	218772184	2E3.17.659.2441	R9	34	302514116	2E2.17.43.307.337
259	134886465	3E4.5.7E3.971		289	170566690	2.5.7.29.73.1151		319	221397165	3E3.5.11.29.53.97		349	274893410	2.5.11.43.89.653	
L1	X	147382335	3E4.5.19.107.179	R9	43	197704670	2.5.31.739.863	R9	43	235831635	3E3.5.13.83.1619	W1	32	284512030	2.5.11.1187.2179
260	136549413	3E2.7.11.13.23.659		290	172271385	3E2.5.13.11.19.1409		320	223878416	2E4.37.79.4787		350	275304590	2.5.11.61.89.461	
L1	22	140207067	3E2.7.11.13.79.197	L1	32	197261415	3E2.5.13.449.751	L1	32	227342704	2E4.41.346559	W1	32	281534770	2.5.11.139.18413
261	136770075	3E2.5E2.13.19.23.107		291	175032884	2E2.13.17.389.509		321	224888895	3E2.7.11.5.41.1583		351	275631376	2E5.83.104831	
R9	X	155711205	3E2.5.13.179.1487	L1	21	175826716	2E2.13.17.198899	L1	32	273272769	3E2.7.11.83.4751	R9	33	281207984	2E4.83.107.1979
262	137424188	2E2.11.19.89.1847		292	176632390	2.5.11.43.107.349		322	226540432	2E4.23.615599		352	276339808	2E5.97.127.701	
R9	33	141993412	2E2.11.59.83.659	W1	32	182618810	2.5.11.719.2309	L1	23	231465968	2E4.59.359.683	L1	32	278431136	2E5.83.104831
263	138605350	2.5E2.13E2.47.349		293	177997352	2E3.13.653.2621		323	227443340	2E2.5.17.43.47.331		353	278247976	2E3.17.41.139.359	
R9	X	147313850	2.5E2.23.128099	L1	X	182108128	2E5.229.24851	R9	52	302651764	2E2.1187.63743	L1	43	293288024	2E3.131.149.7937
264	139009990	2.5.7.53.89.421		294	180038452	2E2.11.19.31.6947		324	231111392	2E5.109.173.383		354	281499435	3E3.5.7.89.3347	
R3	43	156322490	2.5.23.179.3797	R9	44	193486028	2E2.23.29.47.1543	W1	32	231923488	2E5.71.102079	L1	33	297034965	3E3.5.17.29.4463
265	140744835	3E2.5.7.11.151.269		295	181088985	3.5.7.11.83.1889		325	238162815	3E3.5.23.11.19.367		355	285627615	3.5.7E2.13.167.179	
R9	43	166562685	3E2.5.17.239.911	R9	33	184694055	3.5.7.13.269.503	L1	32	270560385	3E3.5.23.79.1103	R9	33	293528865	3.5.7E2.29.47.293
266	140815384	2E3.19.23.47.857		296	182702024	2E3.19.53.22679		326	238238864	2E4.41.47.7727		356	286000065	3E5.5.13.19.953	
R9	43	155709416	2E3.89.383.571	L1	33	184713976	2E3.17.719.1889	R9	33	244730224	2E4.97.137.1151	R9	X	297390015	3E3.5.13.41.4133
267	144788020	2E2.5.13.97.5741		297	183408615	3E2.5.13.19.29.569		327	242126704	2E4.23.47.13999		357	287250632	2E3.17.127.16631	
R9	43	186088988	2E2.83.293.1913	L1	21	190055385	3E2.5.13.19.17099	L1	32	257841296	2E4.1399.11519	R9	34	287551288	2E3.31.53.131.167
268	145040288	2E5.41.227.487		298	186753688	2E3.11.41.191.271		328	242182930	2.5.11.19.115877		358	287793350	2.5E2.13.41.10799	
L1	32	149364256	2E5.1063.4391	L1	42	2008059752	2E3.83.313343	L1	33	258410030	2.5.17.61.24919	L1	33	302793850	2.5E2.23.251.1049
269	146648612	2E2.19.11E2.37.431		299	186878110	2.5.17.19.47.1231		329	245618415	3E2.5.19.7.41039		359	291679245	3E3.5.29.11.13.521	
R9	X	159017308	2E2.19.23.90971	R9	44	196323170	2.5.23.41.109.191	W1	23	265660785	3E2.5.19.31.83.113	R9	32	339731955	3E3.5.29.107.811
270	147366765	3E2.7E2.13.5.53.97		300	189406984	2E3.13.71.113.227		330	248658488	2E3.13E2.183919		360	291974824	2E3.19.89.113.191	
L1	31	182028483	3E2.7E2.13.31751	R9	43	203592056	2E3.37.797.863	W2	X	256201912	2E3.37.43.20129	R9	32	299001176	2E3.19.1367.1439

361	295824376	2E3.19.53.36721	9D	391	347401035	3E3.5.17.19.31.257	9D	421	414195782	2.7.11.13.19.10889	9D	451	512412550	2.5E2.13.73.10799	
L1	33	299072024	2E3.17.601.3659	R9	43	365917365	3E3.5.11.239.1031	L1	32	463973818	2.7.11.83.36299	L1	33	528145850	2.5E2.19.167.3329
362	300120652	2E2.17.13.23.29.509	392	348782488	2E3.31.23.47.1301	422	419640364	2E2.13.11.83.8839	452	514439224	2E3.13.89.55579	L1	33	536022776	2E3.29.97.23819
L1	42	347620148	2E2.17.179.28559	W1	32	371171432	2E3.31.557.2687	R9	X	453610196	2E2.13E3.71.727	453	519257296	2E4.29.83.97.139	
363	300208696	2E3.23.29.127.443	393	356775430	2.5.17.11.101.1889	423	425948050	2.5E2.11.269.2879	R9	42	552549104	2E4.881.39199			
L1	43	313576904	2E3.31.89.14207	L1	32	392753210	2.5.17.1427.1619	R9	33	441853550	2.5E2.19.479.971	454	520218704	2E4.29.71.15791	
364	301685895	3E2.5.19E2.7E2.379	394	357197302	2.7.11.17.19.43.167	424	426191535	3E2.7.11.5.47.2617	R9	33	537213616	2E4.107.167.1879			
L1	X	342005985	3E2.5.19E2.37.569	R9	42	409205258	2.7.11.863.3079	W1	32	514780497	3E2.7.11.67.11087	455	522145832	2E3.13.173.29021	
365	302424784	2E4.53.71.5023	395	359156770	2.7E2.5.83.8831	425	426386025	3E5.5E2.13.5399	L1	X	538318048	2E5.2029.8291			
L1	33	303107888	2E4.47.107.3767	R9	X	402020318	2.7.17.37.71.643	R9	X	426684375	3E3.5E5.13.389	456	525254368	2E5.37.271.1637	
366	302770672	2E4.29.257.2539	396	360027675	3E2.5E2.19.7.53.227	426	427448510	2.5.17.19.59.2243	L1	32	541358816	2E5.1481.11423			
L1	X	306676928	2E6.773.6199	R9	X	433850085	3E2.5.19.557.911	R9	33	445018690	2.5.17.67.89.439	457	526271456	2E5.79.179.1163	
367	304443436	2E2.31.61.11.3659	397	360172336	2E4.17.149.8887	427	427950350	2.5E2.31.17.109.149	R9	33	529709344	2E5.193.199.431			
L1	X	305517524	2E2.31.61.13E2.239	L1	32	383753264	2E4.2221.10799	L1	32	455921650	2.5E2.31.107.2749	458	526552472	3E3.19.71.97.503	
368	305178874	2.7.19.11.13.71.113	398	360759652	2E2.11.17.29.16631	428	429035596	2E2.11.17.43.13339	R9	44	540314728	2E3.41.83.89.223			
R9	43	356714246	2.7.19.83.107.151	L1	32	393667868	2E2.11.263.34019	R9	33	458447924	2E2.11.173.229.263				
369	305363984	2E4.43.89.4987	399	362645570	2.7E2.5.643.1151	429	430848592	2E4.29.67.13859	459	529714744	2E3.13.59.131.659				
L1	22	306962896	2E4.43.173.2579	R9	X	398531518	2.7.11.47.55061	R9	33	445657808	2E4.131.149.1427				
370	305911606	2.7E2.11.13.83.263	400	362700728	2E3.13.19.173.1061	430	436386015	3E3.5.19.13.23.569	R9	43	567997256	2E3.47.109.13859			
R9	32	331160522	2.7E2.11.97.3167	R9	42	413408872	2E3.811.63719	R9	32	482909985	3E3.5.19.59.3191				
371	308939936	2E5.37.311.839	401	364182075	3E4.5E2.17.71.149	431	437888168	2E3.23.29.137.599	W1	32	456351832	2E3.23.827.2999			
W1	32	318479584	2E5.2393.4159	R9	33	365012325	3E4.5E2.19.53.179	432	438362984	2E3.19.43.47.1427					
372	311414355	3E3.5.7E2.179.263	402	370032676	2E2.17.13.19.22031	433	436417816	2E3.31.503.3739	R9	X	640415025	3E3.5E2.269.3527			
R9	X	338659245	3E3.5.23.29.3761	R9	33	407256284	2E2.17.67.71.1259	434	438452624	2E4.29.179.5279					
373	311913855	3E3.5.11.41.47.109	403	371840350	2.7.31.5E2.43.797	434	438452624	2E4.29.179.5279	L1	33	445419376	2E4.47.499.1187			
W1	32	326754945	3E3.5.11.139.1583	R9	X	464106146	2.7E2.31.152767	L1	33	443232624	2E4.37.53.13999				
374	312090808	2E3.19.29.101.701	404	373305350	2.5E2.11.19.139.257	434	439232624	2E4.37.53.13999	L1	33	451335376	2E4.89.151.2099			
R9	43	332345192	2E3.53.67.11699	R9	42	432893050	2.5E2.859.10079	L1	33	451335376	2E4.89.151.2099				
375	316293016	2E3.13.3041279	405	375401624	2E3.13.73.197.251	435	442480816	2E4.19.971.1499	R9	33	461479184	2E4.179.269.599			
R9	24	322375784	2E3.41.71.109.127	R3	43	399982216	2E3.43.97.11987	436	447761144	2E3.19.113.131.199					
376	318323864	2E3.23.61.79.359	406	377141350	2.5E2.31.23.71.149	436	447761144	2E3.19.113.131.199	R9	32	455118856	2E3.19.197.15199			
R9	43	324492136	2E3.29.47.29759	W1	32	394237850	2.5E2.31.53.4799	437	460122410	2.5.11.29.97.1487					
377	318580262	2.7E2.11.13.127.179	407	382170512	2E4.41.83.7019	437	460122410	2.5.11.29.97.1487	R9	44	484817110	2.5.19.71.83.433			
L1	X	343312858	2.7.17.23.59.1063	R9	33	385592848	2E4.59.97.4211	438	465605192	2E3.13.23.61.3191					
378	319682650	2.5E2.7.59.113.137	408	385465395	3.5.7.23.17.41.229	438	465605192	2E3.13.23.61.3191	R9	42	531830968	3E3.6271.10601			
L1	X	382593830	2.5.61.367.1709	L1	32	415773645	3.5.7.23.107.1609	439	466389344	2E5.71.131.1567					
379	319904235	3E4.5.7.19.5939	409	388904355	3E3.5.7.23.29.617	439	466389344	2E5.71.131.1567	L1	32	472453792	2E5.107.137983			
R9	33	370086165	3E4.5.43.79.269	R9	43	465418845	3E3.5.59.71.823	440	467406225	3E2.5E2.13.11.73.199					
380	320829728	2E5.59.109.1559	410	391548675	3.5E2.7.17.19.2309	440	467406225	3E2.5E2.13.11.73.199	R9	X	534612975	3.5E2.13.19.28859			
L1	32	327818272	2E5.199.51479	L1	32	433398525	3.5E2.7.139.5939	441	471696190	2.5.7.23.292979					
381	323401712	2E4.23.431.2039	411	393463072	2E5.43.269.1063	441	471696190	2.5.7.23.292979	R9	33	540842690	2.5.37.79.18503			
R3	33	332270608	2E4.101.127.1619	L1	32	402877088	2E5.251.50159	442	474179596	2E2.31.11.41.61.139					
382	324644792	2E3.19.29.47.1567	412	394800070	2.7.5.41.151.911	442	474179596	2E2.31.11.41.61.139	R9	43	505757684	2E2.31.17.79.3037			
R9	43	352731208	2E3.79.89.6271	R9	X	443597882	2.7E2.13.191.1823	443	475838415	3E3.5.13.17.41.389					
383	330811850	2.5E2.31.19.47.239	413	395378272	2E5.103.139.863	443	475838415	3E3.5.13.17.41.389	W1	32	514823985	3E3.5.13.233.1259			
W1	32	354858550	2.5E2.31.179.1279	R9	33	397151648	2E5.181.191.359	444	487169380	2E2.37.5.41.16057					
384	332448224	2E5.53.211.929	414	395939775	3.5E2.11.7.17.37.109	444	487169380	2E2.37.5.41.16057	W1	32	589230476	2E2.37.61.65267			
R9	X	338290096	2E4.53.269.1483	R9	X	499717185	3.5.11.61.131.379	445	491373104	2E4.23.107.12479					
385	332573392	2E4.29.431.1663	415	397287345	3.5.7E2.13.41579	445	491373104	2E4.23.107.12479	R3	33	511419856	2E4.127.389.647			
R9	33	335955248	2E4.47.191.2339	W1	23	399052815	3.5.7E2.17.109.293	446	492275992	2E3.131.13.23.1571					
386	334438875	3E4.5E3.17.29.67	416	400250565	3E4.11.5.13.6911	446	492275992	2E3.131.13.23.1571	R9	43	632663608	2E3.59.107.12527			
R9	X	358687845	3E4.5.17.59.883	R9	34	442792251	3E4.11.17.23.31.41	R9	31	553544168	2E3.131.528191				
387	339981512	2E3.13.41.71.1123	417	404185672	2E3.11.1877.2447	447	494495768	2E3.13.23.61.3389	R9	44	594986330	2.5.19.29.83.1301			
R9	43	373803448	2E3.83.167.3371	L1	33	423336248	2E3.31.101.16901	447	494495768	2E3.13.23.61.3389					
388	343175404	2E2.11.13.379.1583	418	405370035	3E3.5.7.19.107.211	448	504555070	2.5.17.19.31.5039	L1	22	596654896	2E4.37.239.4217			
R9	33	364682516	2E2.11.131.151.419	R9	43	473836365	3E3.5.29.127.953	R9	44	545539330	2.5.23.71.79.419				
389	346657311	3E2.7E2.13.11.23.239	419	406640992	2E5.47.167.1619	449	506468950	2.5E2.13.37.21059	479	596668490	2.5.11.41.132299				
R9	X	370393569	3E2.7.13.17.37.719	L1	32	416370848	2E5.251.51839	R9	34	603557110	2.5.13.53.251.349				
390	347263216	2E4.17.137.9319	420	407641130	2.5.13.17.139.1327	450	509379344	2E4.23.347.3989	480	600418910	2.7.5.13.23.28687				
L1	31	370414064	2E4.23150879	R9	44	435691990	2.5.23.59.97.331	R9	33	523679536	2E4.83.179.2203				

481	601020945	3E3.5.7.647.983	9D	511	691075330	2.5.17.11.101.3659	9D	541	845397735	3.5.7E2.13.103.859	9D	571	954392504	2E3.13.37.197.1259	
L1	33	623232495	3E3.5.17.23.11807	L1	32	760392830	2.5.17.719.6221	R9	X	867557145	3.5.7.13.569.1117	R9	43	1036457896	2E3.43.1619.1861
482	601235145	3E2.5.19.7E2.113.127		512	698002450	2.5E2.29.41.59.199		542	846862965	3E3.5.13.19.109.233		572	957871508	2E2.11.29.71.97.109	
R9	X	696285495	2E5.5.19.47.17327	R9	43	708157550	2.5E2.19.71.10499	W1	32	882865035	3E3.5.13.43.11699	R9	43	998051692	2E2.11.53.139.3079
483	602035390	2.5.11.41.131.1019		513	698049512	2E3.17.19.270143		543	848764124	2E2.19.13.23.41.911		573	962951312	2E4.19.1693.1871	
W1	32	619418690	2.5.11.239.23561	L1	33	760728088	2E3.47.1259.1607	R9	43	953056036	2E2.19.47.251.1063	L1	33	1003172848	2E4.131.307.1559
484	606235455	3E3.5.7.641519		514	701168432	2E4.23.107.17807		544	854687570	2.5.11.59.79.1667		574	965615992	2E3.11.23.349.1367	
R9	24	625482945	3E3.5.19.43.53.107	L1	32	729739984	2E4.83.549503	R9	43	874694830	2.5.19.23.200159	R9	42	1102800008	2E3.3359.41039
485	613290028	2E2.17.13.29.47.509		515	704374540	2E2.23.5.137.11177		545	855737264	2E4.23.1259.1847		575	965674256	2E4.17.599.5927	
R9	43	682191572	2E2.17.71.101.1399	L1	32	850529972	2E2.23.971.9521	R3	33	876651856	2E4.97.107.5279	L1	32	1019020144	2E4.191.333449
486	621354896	2E4.17.167.13679		516	7050223055	3E3.5.11.43.61.181		546	856305272	2E3.23.29.383.419		576	967887488	2E7.61.113.1097	
L1	32	661063024	2E4.809.51071	R9	X	724885425	3E2.5E2.11.109.2687	R9	44	885518728	2E3.47.59.179.223	R9	X	1011081832	2E3.61.37.55997
487	625955024	2E4.29.47.28703		517	705280310	2.7.37.5.307.887		547	857161935	3E2.5.31.7.61.1439		577	967947856	2E4.19E2.103.1627	
R9	33	655391536	2E4.239.367.467	R9	33	791333578	2.7.37.17.73.1231	R9	33	925581105	3E2.5.31.19.47.743	R9	X	1031796176	2E4.3847.16763
488	626323995	3E7.5.41.11.127		518	721522755	3E3.5.17.29.37.293		548	861314660	2E2.53.5.211.3851		578	968410624	2E9.61.101.307	
R9	X	643272165	3E3.5.41.23.31.163	R9	X	726368445	3E3.5.11E2.53.839	R9	33	990788572	2E2.53.23.317.641	R9	X	1024180592	2E4.241.265607
489	630007455	3.5.7E2.11.29.2687		519	728921270	2.5.7.11.929.1019		549	869530725	3E2.5E2.7E3.19.593		579	969473384	2E1.11.67.164429	
R9	X	693778785	3.5.7.23.287279	L1	42	910259530	2.5.2447.37199	R9	X	1045525275	3E2.5E2.89.109.479	L1	33	1043149816	2E3.53.101.24359
490	637756665	3.5.7.13.59.7919		520	749380864	2E8.383.7643		550	806675856	2E4.23.313.7559		580	969642056	2E4.17.31.349.659	
R9	34	639580935	3.5.7.29.41.47.109	L1	22	750555392	2E8.1567.1871	R9	33	895461104	2E4.83.179.3767	R9	43	1026197944	2E3.29.383.11549
491	640001054	2.7E2.19.11.31247		521	750893325	3.5E2.7.13.269.409		551	874591550	2.5E2.7.1499.1667		581	978888550	2.5E2.31.43.19.773	
R9	X	642416866	2.7.19.13.37.5021	L1	32	786508275	3.5E2.7.29.51659	L1	32	886896450	2.5E2.71.277999	R9	X	1048124570	2.5.31.43.61.1289
492	640866135	3.5.7.23.13.137.149		522	751953405	3.5.7.19.37.61.167		552	877324936	2E3.29.47.61.1319		582	989779882	2.7.19.13.17.113.149	
L1	32	694532265	3.5.7.23.139.2069	R9	X	767949315	3.5.7E2.19.127.433	R3	42	890419064	2E3.17.6547199	R9	X	1078636118	2.7E2.19.41.71.199
493	643006485	3E3.5.11.41.59.179		523	752458216	2E3.17.19.291199		553	891089368	2E3.13.23.401.929		583	991838384	2E4.23.167.16139	
R9	44	663361515	3E3.5.23.29.53.139	L1	33	820021784	2E3.47.1091.1999	R9	43	993165032	2E3.167.179.4153	R9	33	1025532496	2E4.79.503.1613
494	647314690	2.5.11.43.107.1279		524	754484445	3E2.5.13E2.11.29.311		554	894012525	3E3.5E2.7.431.439		584	992776995	3E2.5.7E2.450239	
W1	32	666518270	2.5.11.263.23039	R9	32	848771235	3E2.5.13E2.233.479	R9	33	991581075	3E3.5E2.43.127.269	L1	X	1008990045	3E2.5.7.797.4019
495	651016665	3E2.5.13.19.37.1583		525	761197736	2E3.13.1151.6359		555	894609615	3.5.7.13.53.83.149		585	994945490	2.7E2.5.11E2.97.173	
L1	22	663576615	3E2.5.13.19.227.263	L1	34	777413464	2E3.41.47.211.239	R9	43	934224585	3.5.7.19.59.7937	R9	X	1331936326	2.7E2.881.15427
496	653078426	2.7.31.11.13.17.619		526	761511104	2E6.223.229.233		556	902335744	2E8.383.9203		586	996088412	2E2.11.17.151.8819	
R9	43	786829414	2.7.31.53.79.433	R9	32	769560256	2E6.389.30911	L1	22	904010952	2E8.1151.3067	R9	45	1030959268	2E2.23.37.41.83.89
497	658009485	3E2.5.7E3.89.479		527	762662128	2E4.19.263.9539		557	903825416	2E3.47.13.179.1033		587	1000233608	2E3.11.59.383.503	
R9	X	689830515	2E2.5.11.47.149.199	R9	33	798845072	2E4.239.317.659	W1	32	972264184	2E3.47.131.19739	L1	43	1089955192	2E3.47.863.3359
498	659084504	3E3.13.23.61.4517		528	766292835	3.5.7.11.503.1319		558	905196776	2E3.11.31.389.853		588	1002372250	2.5E3.11.364499	
L1	42	752700136	2E3.3347.28111	L1	22	766512285	3.5.7.11.769.863	R9	43	1013228824	2E3.139.487.1871	L1	23	1044659750	2.5E3.29.89.1619
499	659854052	2E2.13.11.29.39779		529	769289955	3.5.7E2.19.31.1777		559	907960904	2E3.19.79.83.911		589	1002455350	2.5E2.13.1542239	
W1	32	743584348	2E2.13.701.20399	L1	X	873384605	3.5.7.19.37.10667	R9	32	930631096	2E3.19.1279.4787	L1	X	1005541130	2.5.11.59.154937
500	660792650	2.5E2.7.149.12671		530	770805945	3E2.7.13.41.5.4591		560	912404025	3E2.5E2.13.17.59.311		590	1015866225	3E3.5E2.11.41.47.71	
L1	32	753402550	2.5E2.109.138239	L1	22	914053959	3E2.7.13.41.163.167	R9	X	988724295	3E2.5.13.61.103.269	R9	X	1143995535	3E3.5.17.503.991
501	664747083	3E2.7E2.13.11.83.127		531	776813895	3E5.11.13.5.17.263		561	914746450	2.5E2.31.19.89.349		591	1016475064	2E3.11.23.349.1439	
R9	33	673747893	3E2.7E2.13.17.31.223	L1	32	966751929	3E5.11.13.43.647	W1	32	960133550	2.5E2.31.59.10499	R9	42	1160804936	2E3.2999.48383
502	665113060	2E2.5.31.1072763		532	786882915	3E2.7E2.13.5.97.283		562	916021964	2E2.13.11.59.27143		592	1018330430	2.5.13.17.197.2339	
R9	34	776681756	2E2.23.107.257.307	L1	32	945492903	3E2.7E2.13.83.1987	R9	33	999258676	2E2.13.79.347.701	L1	32	1083289090	2.5.13.1619.5147
503	666030256	2E4.331.19.6619		533	788056335	3E2.5.11.17.71.1319		563	917168950	2.5E2.19.37.97.269		593	1020658815	3E2.5.11.19.47.2309	
L1	22	696630544	2E4.331.199.661	R9	33	813177585	3E2.5.11.31.197.269	W1	32	953023850	2.5E2.19.587.1709	R9	33	1055014785	3E2.5.11.31.197.349
504	672672884	2E2.13.19.97.7019		534	802162790	2.5.11.13.167.3359		564	925949992	2E3.83.11.331.383		594	1024706624	2E6.103.359.433	
L1	32	675728716	2E2.13.17.764399	R9	44	904824730	2.5.47.89.97.223	L1	32	1001668568	2E3.83.71.21247	R9	32	1038911296	2E6.1091.14879
505	677781140	2E2.5.227.337.443		535	807848864	2E5.61.163.2539		565	930793204	2E2.19.11.59.113.167		595	1033407104	2E7.83.211.461	
R9	44	759308332	2E2.17.73.151.1013	L1	X	819234496	2E6.1301.9839	R9	43	999728396	2E2.19.23.239.2393	R9	X	1064553376	2E5.1019.32647
506	681310575	3E3.5E2.11.89.1031		536	807964592	2E4.29.47.37049		566	932913124	2E2.11.13E2.109.1151		596	1034955988	2E2.11.17.1049.1319	
R9	33	700743825	3E3.5E2.17.79.773	R9	33	845947408	2E4.199.389.683	R9	X	10150026716	2E2.11.191.120779	R3	33	1060676012	2E2.11.43.89.6299
507	681709490	2.5.7.11.929.953		537	821903384	3E3.29.41.71.1217		567	938304290	2.11.5.7.17.43.1667		597	1040792450	2.5E2.11.19.59.599	
L1	42	851406670	2.5.2879.29573	R9	33	835551016	2E3.29.97.107.347	R9	53	1344480478	2.11.31.197.10007	L1	32	1101927550	2.5E2.31.79.8999
508	683490885	3.5.7.11E2.23.2339		538	821921625	3E2.5E3.7.29.59.61		568	948760928	2E5.79.263.1427		598	1047381370	2.5.7E3.47.73.89	
R9	X	7506108875	3.5E3.7.269.1063	R9	X	988676775	3E2.5E2.71.199.311	R9	33	951278752	2E5.109.223.1223	R9	X	1254314630	2.5.59.443.4799
509	685939088	2E4.29.503.2939		539	826499835	3E3.5.7.31.89.317		569	949308932	2E2.19.11.13.113.773		599	1047784504	2E3.13.23.101.4337	
R9	33	692097712	2E4.41.349.3023	R9	43	931912965	3E3.5.23.59.5087	R9	42	1126001788	2E2.19.3191.4643	R9	42	1182294536	2E3.167.884951
510	688679775	3E2.5E2.7.17E3.89		540	83653328	2E5.47.1091.5507		570	908501740	2E2.5.1091.43577		600	1047827656	2E3.19.71.151.643	
R9	X	825955425	3E2.5E2.71.149.347	W1	32	862396256	2E5.1733.15551	R9	34	1047811252	2E2.17.41.233.1613	W1	32	1066553144	2E3.19.227.30911

601	1049859195	3.5.7.11.191.4759	10D	631	1195637144	2E3.13E2.383.2309	10D	661	1309651310	2.5.11.29.571.719	10D	691	1532931010	2.5.13.29.79.5147	
R9	33	1055812485	3.5.7.13.79.9791	L1	X	1239287656	2E3.23.239.28181	R9	31	1359071890	2.5.11.12355199	R9	33	1580579390	2.5.13.107.199.571
602	1056277222	2.7E2.19.11.13.3967		632	1197281380	2E2.5.31.967.1997		662	13212909796	2E2.11.17.109.16103		692	1546818128	2E4.47.109.113.167	
R9	X	1223576858	2.7.19.41.151.743	R9	43	1402100636	2E2.17.2441.8447	R3	33	1365507484	2E2.11.43.269.2683	R9	43	1587981232	2E4.83.151.7919
603	1066176716	2E2.11.19.251.5081		633	1206344152	2E3.13.37.251.1249		663	1321560765	3E4.5.7.59.7901		693	1548287895	3.5.7.11.23.167.349	
R9	33	1085338804	2E2.11.29.293.2903	R9	43	1307355848	2E3.41.1499.2659	R9	33	1432128195	3E4.5.17.79.2633	R9	43	1703116905	3.5.7.31.89.5879
604	1067740245	3E3.5.11.13.19.41.71		634	1211220868	2E2.13.11.181.11699		664	1323789350	2.5E2.13.67.113.269		694	1550703136	2E5.59.317.2591	
R9	52	1370813355	3E3.5.2687.3779	R9	33	1292953532	2E2.13.41.389.1559	R9	X	1401348730	2.5.29.37.61.2141	L1	32	1564984544	2E5.89.549503
605	1069306732	2E2.13.41.17.163.181		635	1212636350	2.5E2.17.67.107.199		665	1327395368	2E3.13.1511.8447		695	1558818261	3E2.7.11.13.23.7523	
R9	32	1142071892	2E2.13.41.491.1091	W1	32	1246134850	2.5E2.17.719.2039	R9	34	1355013592	2E3.41.43.191.503	L1	22	1596205611	3E2.7.11.13.53.3343
606	1077722984	2E3.13.1913.5417		636	1216541326	2.7E2.11.13.47.1847		666	1333290105	3E3.5.7.23.61343		696	1559105008	2E4.43.67.149.227	
L1	X	1099987936	2E5.179.192037	R9	32	1331747186	2.7E2.11.197.6271	R3	33	1493441415	3E3.5.17.191.3407	R9	43	1613013392	2E4.109.179.5167
607	1082038815	3E2.5.13.11.181.929		637	1216935225	3E3.5E2.31.11.17.311		667	1335474855	3E2.5.13.11.37.71.79		697	1559592628	2E2.11.43.53.103.151	
R9	X	1135944225	3E2.5E2.13.83.4679	R9	X	1457179335	3E3.5.31.348191	R9	42	1532728665	3E2.5.13.431.6079	R9	43	1595431244	2E2.11.31.311.3761
608	1086272836	2E2.11.29.47.59.307		638	1223289664	2E6.251.271.281		668	1347375272	2E3.19.89.137.727		698	1563999255	3E2.7.13.5.167.2287	
R9	43	1149067964	2E2.11.89.139.2111	R9	32	1231545152	2E6.223.86291	R9	43	1365152728	2E3.29.41.143519	R9	33	1793979369	3E2.7.13.23.131.727
609	1086321110	2.5.7.37.419429		639	1224145112	2E3.17.31.103.2819		669	1348200032	2E5.59.461.1549		699	1574216272	2E4.19.971.5333	
R9	X	1208799850	2.5E2.71.163.2089	R9	43	1309794088	2E3.53.79.39103	L1	X	1358657968	2E4.53.109.14699	R9	33	1640265488	2E4.107.761.1259
610	1088205734	2.7.11.17.19.131.167		640	1225052829	3E4.7.11.29.13.521		670	1357689830	2.5.7.107.109.1663		700	1577617335	3E2.5.7.137.139.263	
R9	43	1211001946	2.7.11.179.197.223	L1	21	1321639011	3E4.7.11.29.7307	R9	X	1488948250	2.5E3.47.126719	W1	32	1605082185	3E2.5.7.1439.3541
611	1090592428	2E6.109.223.701		641	1237888448	2E6.7.3.264959		671	1363688048	2E4.17.191.26249		701	1585667930	2.7E2.5.11.37.7951	
L1	32	1106245312	2E6.1637.10559	L1	22	1252205632	2E6.479.40847	L1	32	1448631952	2E4.503.179999	R9	X	2134722982	2.7.83.227.8093
612	1091947540	2E2.23.5.137.17327		642	1239061725	3E3.5E2.11.19.8783		672	1365633296	2E4.37.107.21559		702	1600185752	2E3.11.53.103.3331	
L1	32	1318446572	2E2.23.911.15731	R9	33	1375056675	3E3.5E2.47.89.487	L1	33	1377316144	2E4.43.227.8819	R9	43	1768066408	2E3.101.167.13103
613	1093953735	3E3.5.7.89.13007		643	1239657136	2E4.17.727.6269		673	1375090832	2E4.17.379.13339		703	1601150265	3E2.5.13.11.61.4079	
L1	33	1153828665	3E3.5.11.239.3251	L1	32	1307367344	2E4.181.451439	L1	32	1453522768	2E4.227.400199	R9	X	1713637575	3E2.5E2.13.509.1151
614	1100526075	3E3.5E2.11.19.29.269		644	1241180168	2E3.19.59.138401		674	1386737770	2.5.11.17.59.12569		704	1607089672	2E3.23.37.59.4001	
R9	42	1310033925	3E3.5E2.809.2399	L1	33	1250055832	2E3.17.263.34949	R9	43	1545591830	2.5.29.53.100559	R9	32	1677751928	2E3.23.2203.4139
615	1101570165	3E3.5.17.23.41.509		645	1241809540	2E2.5.17.37.98713		675	1395217845	3E3.5.7.53.89.313		705	1618057875	3.5E3.17.7.101.359	
R9	33	1119255435	3E3.5.17.29.67.251	R9	43	1594046252	2E2.113.131.26921	R9	43	1534778955	3E3.5.17.71.9419	R9	X	1581454445	3.5.17.11.23.67.389
616	1110676384	2E5.97.179.1999		646	1249677032	2E3.23.67.167.607		676	1400735930	2.5.11E2.31.107.349		706	1626481616	2E4.23.149.29663	
R9	33	1111963616	2E5.83.499.839	R9	44	1250080808	2E3.31.37.271.503	R9	X	1495046470	2.5.17.139.151.419	R9	33	1684020784	2E4.107.199.4943
617	1112824370	2.5.7.59.227.1187		647	1251532282	2.7.11E2.13.17.3343		677	1420875830	2.5.79.11.23.7109		707	1662154065	3E2.5.13.11.258299	
R9	44	1227440590	2.5.37.43.179.431	R9	X	1438327814	2.7.11.9339791	L1	32	1527783370	2.5.79.17.113759	L1	23	1722609135	3E2.5.13.29.59.1721
618	1118297565	3E2.5.7.11.29.31.359		648	1254255550	2.5E2.23.19.137.419		678	1444854411	3E2.7.13.23.11.19.367		708	1666611045	3E4.5.11E2.71.479	
R9	53	1469555235	3E2.5.79.479.863	R9	31	1333078850	2.5E2.13.1159199	L1	32	1641399669	3E2.7.13.23.79.1103	L1	22	1670433435	3E4.5.11E2.89.383
619	1123132540	2E2.53.5.17.62327		649	1255307438	2.7.11.17.53.83.109		679	1448711355	3.5.7.13.17.149.419		709	1666776566	2.7.31.13.29.61.167	
L1	32	1421345732	2E2.53.251.26711	R9	43	1331301202	2.7.11.29.307.971	R9	43	1599480645	3.5.7.29.139.3779	R9	X	1693008394	2.7.31.11.67E2.79
620	1127508130	2.5.7E2.31.199.373		650	1264688650	2.5E2.17.53.67.419		680	1448998330	2.5.19.13.569.1031		710	1667890144	2E5.37.223.6317	
R9	X	1328325470	2.5.43.271.11399	R9	X	1317021110	2.5.17.61.89.1427	R9	33	1515731270	2.5.19.37.251.859	R9	32	1720175264	2E5.2591.20747
621	1129315275	3E2.5E2.31.11.41.359		651	1272724250	2.7.5E3.727271		681	1546694650	2.5E2.31.23.29.1409		711	1689026570	2.7E2.5.11.41.7643	
R9	X	1210534965	3E2.5.31.23.29.1301	L1	X	1450182118	2.7.11.251.37517	W1	32	1564540550	2.5E2.31.179.5639	R9	42	2263716406	2.7E2.1567.14741
622	1131258975	3.5E2.31.7.11.71.89		652	1273481176	2E3.11.29.569.877		682	1458334432	2E5.53.73.11779		712	1690397588	2E2.11E2.29.83.1451	
R9	X	1337154465	2.5.31.17.47.59.61	R9	43	1429002824	2E3.179.379.2633	R9	X	1507257008	2E4.89.251.4217	R9	33	1716168652	2E2.11E2.41.197.439
623	1133458150	3.5E2.11.347.5939		653	1273666394	2.7.11.13.41.59.263		683	1470622335	3.5.7.13.29.97.383		713	1699746184	2E3.23.41.233.967	
L1	X	1173447770	2.5.11.929.11483	R9	43	1408742566	2.7.11.83.307.359	R9	43	1564022145	3.5.7.19.127.6173	R3	42	1725115256	2E3.17.12684671
624	1141149196	2E2.11.19.1365011		654	1275751408	2E4.41.79.103.239		684	1486565325	3E3.5E2.7.23.13679		714	1721688850	2.7.31.5E2.107.1483	
W1	23	1252070964	2E2.11.43.53.11489	R9	43	1324082192	2E4.89.727.1279	R9	32	1770369075	3E3.5E2.911.2879	R9	X	2094066926	2.7.31.61.83.953
625	1148440336	2E4.37.71.89.307		655	1277879584	2E5.59.71.9533		685	1502495085	3.7E2.13.5.157247		715	1723336461	3E2.7.11.17.19.7699	
R9	43	1202659184	2E4.167.659.683	L1	32	1316893856	2E5.1259.32687	R9	24	1509118611	3.7E2.13.11.17.41.103	R9	X	1736119539	3E2.7E3.11.29.41.43
626	1162074914	2.7.11.13.43.13499		656	1284072075	3E3.5E2.11.13.53.251		686	1505175008	2E5.71.167.3967		716	1728342296	2E3.19.53.214541	
L1	33	1322933086	2.7.11.29.359.769	R9	X	1550746485	3E3.5.41.503.557	R9	33	1518631456	2E5.127.433.863	L1	33	1747238104	2E3.17.521.24659
627	1179749410	2.5.7.151.239.467		657	1289325975	3.5E2.7E2.41.43.199		687	1517112765	3E2.5.7E2.47.14639		717	1741985325	3E3.5E2.31.17.59.83	
R9	X	1278710750	2.5E3.37.138239	R9	X	1323008625	3.5E2.7.29.113.769	R9	X	1607180035	3E2.5.11.59.113.487	R9	32	1857784275	3E3.5E2.31.47.1889
628	1183083825	3.5E2.7.11.349.587		658	1292286248	2E3.11.499.29429		688	1518524175	3.5E2.7.19.41.13.79		718	1750776704	2E7.137.99839	
R9	X	1266759375	3.5E5.7.97.199	L1	33	1356413752	2E3.29.149.39239	R9	42	1681271025	3.5E2.7.139.23039	L1	22	1762592896	2E7.2879.4783
629	1191953763	3E2.7E2.11.13.41.461		659	1303670522	2.7.11.19.41.10867		689	1525222575	3E3.5E2.17.23.5779		719	1754082603	3E2.7.13E3.19.23.29	
L1	21	1223611389	3E2.7E2.11.13.19403	R9	X	1325516038	2.7.11E2.19.41.1183	L1	22	1571007825	3E3.5E2.17.79.1733	R9	X	1801205397	3E2.7.13.11.67.2999
630	1193945522	2.7.11.19.53.7699		660	1305577305	3E3.5.19.17.79.379		690	1528753832	2E3.17.19.591623		720	1755729656	2E3.19.23.349.1439	
L1	33	1201062478	2.7.11.17.149.3079	R9	33	1320982695	3E3.5.19.31.37.449	L1	33	1666015768	2E3.47.809.5477	R9	43	1873070344	2E3.31.1249.6047



721	1756703660	2E2.5.23.31.123191	10D	751	1938775850	2.5E2.11.47.179.419	10D	781	2110489384	2E3.23.29.137.2887	811	2310786764	2E2.11.13.19.149.1427		
L1	43	2216977492	2E2.53.191.54751	R9	43	2110964950	2.5E2.41.149.6911	L1	32	2193785816	2E3.23.359.33211	R9	54	2727197236	2E2.29.79.139.2141
722	1763439656	2E3.11.29.251.2753		752	1954734364	2E2.11.19.593.3943		782	2115211995	3E3.5.13.17.31.2287		812	2317392152	2E3.19.47.227.1429	
R9	43	1984203544	2E3.179.971.1427	R9	33	1981062116	2E2.11.43.59.17747	R9	31	2312891685	3E3.5.13.1317887	R9	32	2377583848	2E3.19.3761.4159
723	1772982530	2.5.11.17.19.139.359		753	1957374968	2E3.31.17.107.4339		783	2125619990	2.5.17.13.41.23459		813	2331923265	3E2.5.7.89.223.373	
R9	53	2146121470	2.5.107.199.10079	L1	31	2092365832	2E3.31.8436959	L1	32	2343791530	2.5.17.3331.4139	W1	32	2372936895	3E2.5.7.1427.5279
724	1774259235	3E4.5.7.19.32939		754	1964397015	3E4.5.7E3.79.179		784	2128669790	2.5.13.17.179.5381		814	2332981816	2E3.11.23.283.4073	
L1	X	2052051165	3E9.5.29.719	R9	X	2217362985	3E3.5.19.131.6599	L1	32	2265625570	2.5.13.2339.7451	R9	42	2665327304	2E3.6983.47711
725	1775992725	3E2.5E2.13.23.26399		755	1974754485	3E4.5.11E2.59.683		785	2140484535	3E4.7.23.5.17.1931		815	2359263375	3E3.5E3.7.37.2699	
R9	X	1798778475	3E3.5E2.13.359.571	L1	22	1987985835	3E4.5.11E2.113.359	R9	32	2707011657	3E4.7.23.251.827	R9	32	2762528625	3E3.5E3.449.1823
726	1783852785	3E2.5.13.11E3.29.79		756	1978830070	2.7.5.23.97.12671		786	2141689095	3E2.7.13.5.31.16871		816	2363563444	2E2.19.11.23.83.1481	
R9	X	2052998415	3E2.5.13.1151.3049	R9	44	2313024266	2.7.31.41.43.3023	R9	33	2574912249	3E2.7.13.47.151.443	R9	43	2655792716	2E2.19.47.233.3191
727	1785186728	2E3.13.17.787.1283		757	1981631584	2E5.59.71.14783		787	2152573605	3E2.7.13.37.5.14207		817	2378640285	3E2.5.7.103.167.439	
R9	42	2039387032	2E3.6047.42157	L1	32	2041981856	2E5.1187.53759	L1	22	2564027739	3E2.7.13.37.191.443	W1	32	2418472035	3E2.5.7.839.9151
728	1786141665	3E3.5.7.11.171827		758	1983736876	2E2.11.19E2.71.1759		788	2153378296	3E2.29.31.227.1319		818	2379890150	2.5E2.31.11.97.1439	
R9	33	2172775455	3E3.5.47.443.773	R9	X	2071810004	2E2.11.43.719.1523	R9	43	2180445704	2E3.17.911.17599	R9	X	2659787290	2.5.31.83.167.619
729	1786492785	3.5.7.11.293.5279		759	1990129570	2.5.11.13.431.3229		789	2154386325	3.5E2.7.13.479.659		819	2402498475	3E5.5E2.13.29.1049	
L1	22	1790052495	3.5.7.11.1231.1259	R9	44	2229439070	2.5.37.67.139.647	R9	33	2245332075	3.5E2.7.43.79.1259	R9	X	2573745525	3E2.5E2.13.587.1499
730	1793313730	2.5.31.13.479.929		760	1990992825	3E3.5E2.31.17.29.193		790	2158256590	2.7.5.17.151.12011		820	2402562825	3E2.5E2.13.17.19.2543	
R9	33	1806455870	2.5.31.17.79.4339	L1	32	2165883975	3E3.5E2.31.89.1163	R9	44	2574279218	2.7.37.41.53.2287	L1	X	2764606455	3E2.5.13.929.5087
731	1796310350	2.5E2.23.19.229.359		761	1991349664	2E5.41.251.6047		791	2158771095	3E4.5.17.13.89.271		821	2407445150	2.5E2.11.29.149.1013	
R9	32	1899881650	2.5E2.23.479.3449	L1	32	2041408352	2E5.293.217727	R9	32	2319893865	3E4.5.17.59.5711	R9	43	2684862850	2.5E2.59.449.2027
732	1812992710	2.5.17.23.29.59.271		762	1992605368	2E3.13.23.131.6359		792	2172649216	2E8.257.33023		822	2410351540	2E2.5.83.887.1637	
R9	42	1994136890	2.5.17.599.19583	R9	43	2238575432	2E3.179.461.3391	L1	21	2181168896	2E8.8520191	R9	44	2721279692	2E2.17.73.293.1871
733	1813297395	3.5.7.13.19.139.503		763	2004732340	2E2.5.13.227.33967		793	2198463784	2E3.379.11.29.2273		823	2417154916	2E2.11.23.47.89.571	
R9	43	1980008205	3.5.7.29.79.8231	R9	43	2549153612	2E2.71.151.59443	R9	32	2467784216	2E3.379.179.4547	R9	43	2564461724	2E2.11.107.127.4289
734	1814936354	2.7.19.11E2.17.31.107		764	2008888310	2.11.13.5.23.103.593		794	2201899310	2.5.31.13E3.53.61		824	2419787565	3E2.5.13.17.23.71.149	
R9	X	2156422366	2.7.19.71.227.503	R9	43	2474566666	2.11.13.43.311.647	R9	X	2387806930	2.5.31.29.265607	R9	43	2675047635	3E2.5.13.89.191.269
735	1819124752	2E4.19.593.10091		765	2026348300	2E2.271.5E2.23.3251		795	2220015735	3E3.5.7.79.131.227		825	2421696130	2.7E2.5.31.131.1217	
R9	33	1897557008	2E4.131.347.2609	R9	X	2580356852	2E2.271.61.39023	R9	44	2402729865	3E3.5.31.37.59.263	R9	X	2856901502	2.7.13.1367.11483
736	1829456590	2.5.13.29.127.3821		766	2033951985	3E3.5.41.13.23.1229		796	2221700481	3E4.7.11E2.13.47.53		826	2428035470	2.5.7.33.359.1823	
R9	33	1869016370	2.5.13.97.103.1439	R9	33	213910415	3E3.5.41.17.139.163	R9	32	2450161791	3E4.7.11E2.17.503	R9	44	2677997170	2.5.29.71.113.1151
737	1860630824	2E3.13.17.691.1523		767	2037127365	3E2.7.13.5.23.43.503		797	2221834450	2.5E2.11.1049.3851		827	2436224288	2E5.53.307.4679	
R9	42	2125787416	2E3.9341.28447	R9	42	2612381499	3E2.7.13.1511.2111	L1	32	2291939150	2.5E2.17.2696399	R9	33	2467554592	2E5.167.389.1187
738	1861960700	2E2.5E2.17.593.1847		768	2040024987	3E3.7E2.11.13.41.263		798	2223111345	3.5.7.13E3.23.419		828	2440775024	2E4.29.83.63377	
R9	X	2425702372	2E2.131.433.10691	L1	32	2207122533	3E3.7E2.11.43.3527	R9	X	2383045455	3.5.7.19.251.4759	L1	X	2510314336	2E5.557.140839
739	1862890150	2.5E2.11.19.89.2003		769	2043906130	2.5.7E3.179.3329		799	2322676016	2E4.19.2551.2879		829	2440883588	2E2.11.13.83.51413	
R9	42	2162745050	2.5E2.1439.30059	R9	X	2271773870	2.5.29.73.239.449	L1	33	2324175184	2E4.127.263.4349	R9	X	2637996988	2E2.11E2.1721.3167
740	1874188690	2.5.19.11.59.15199		770	2049829364	2E2.11.19.263.9323		800	2241281620	2E2.5.131.881.971		830	2441219715	3E4.5.11.47.89.131	
L1	32	2065651310	2.5.19.151.71999	R9	33	2085551116	2E2.11.47.59.17093	R9	43	2511611756	2E2.17.47.785861	R3	32	2526711165	3E4.5.11.197.2879
741	1879626735	3E3.5.107.7.29.641		771	2057001288	2E3.17.19.431.1847		801	2246508224	2E6.227.239.647		831	2446241032	2E3.19.61.193.1367	
R9	32	2114126865	3E3.5.107.19.7703	R9	43	2254003112	2E3.83.127.26729	R9	32	2256728896	2E6.179.196991	W1	32	2490050168	2E3.19.227.72167
742	1888560272	2E4.29.107.38039		772	2067555105	3E3.5.7.11.198899		802	2264629070	2.5.11.101.103.1979		832	2448784550	2.5E2.31.17.199.467	
R9	33	1932177328	2E4.53.719.3169	R9	33	2515100895	3E3.5.47.389.1019	R9	33	2272200370	2.5.11.79.373.701	R9	X	2565180250	2.5E3.31.89.3719
743	1892277387	3E2.7.11.13.41.47.109		773	2070206050	2.5E2.11.239.15749		803	2265070275	3E2.5E2.13.19.53.769		833	2450252385	3E2.5.7.107.139.523	
R9	32	1982313333	3E2.7.11.13.139.1583	R9	33	2148273950	2.5E2.19.359.6299	R9	32	2426816925	3E2.5E2.13.659.1259	W1	32	2493624735	3E2.5.7.1571.5039
744	1892277488	2E4.19.739.8423		774	2083300808	2E3.23.43.179.1471		804	2270966698	2E3.19.1367.11243		834	2481907330	2.5.7E2.263.19259	
R9	33	1972653712	2E4.107.1039.1109	R9	33	2113665592	2E3.23.137.191.439	L1	33	2327448662	2.7.11.19.307.2591	L1	X	2734933310	2.5.17.1319.12197
745	1895700345	3.7.11E2.17.5.67.131		775	2083894785	3E2.5.7E3.79.1709		805	2278422088	2E3.19.53.151.1873		835	2482324910	2.5.13.23.41.20249	
R9	X	2230100103	3.7E2.11.17.31.2617	R9	X	2184265215	3E2.5.11.37.239.499	R9	32	2336115512	2E3.19.1367.11243	R9	44	2661499090	2.5.17.149.179.587
746	1900066455	3E2.7.5.17.23.15427		776	2084019740	2E2.5.11.107.223.397		806	2278650296	2E3.13.23.199.4787		836	2484011608	2E3.13.151.367.431	
R9	44	2258828649	3E2.7.11.83.173.227	R9	52	2768701924	2E2.647.1069823	R9	43	2547653704	2E3.113.839.3359	R9	44	2590502312	2E3.37.127.137.503
747	1915705352	2E3.53.11.431.953		777	2091376035	3E2.5.7.29.179.1279		807	22826361092	2E2.11.19.239.11423		837	2498633150	2.5E2.13.149.25799	
W1	32	2090178808	2E3.53.317.15551	R9	44	2221711965	3E2.5.11.59.127.599	R9	44	2323795708	2E2.13.23.127.15299	R9	33	2540106850	2.5E2.17.139.21499
748	1929310100	2E2.5E2.83.191.1217		778	2099037232	2E4.37.89.39839		808	2294183672	2E3.11.227.114847		838	2502894550	2.5E2.43.13.149.601	
R9	X	2333417068	2E2.23.4463.5683	L2	33	2124799568	2E4.59.113.19919	L1	33	2419178248	2E3.31.151.64601	R9	X	2670211850	2.5E2.43.79E2.199
749	1930301618	2.7.19.17.37.83.139		779	2099442345	3.5.7.11.13.37.3779		809	2298420670	2.7.5.13.197.12821		839	2509841530	2.5.31.7.311.3719	
R9	X	1930741582	2.7.19.11E2.223.269	L1	41	2533809495	3.5.7.24131519	B4	42	2819711426	2.7.17.11847527	W1	32	2838387590	2.5.7.31.71.128959
750	1937813620	2E2.5.97.631.1583		780	2107566279	3E2.7.13.17.19.31.257		810	2300473575	3E3.5E2.31.17.29.223		840	2511601365	3.5.7.13.53.149.233	
R9	43	2182664588	2E2.13.593.70783	R9	43										

841	2517082425	3E3.5E2.11.13.89.293	871	2808979976	2E3.11.2393.13339	901	3001624450	2.5E2.11.47.83.1399	931	3331018845	3E2.7.5.11.17.193.293				
R9	42	2995064775	3E3.5E2.587.7559	R9	34	2939492824	2E3.37.137.173.419	R9	43	3297972350	2.5E2.41.449.3583	R9	53	4356521379	3E2.7.23.41.73331
842	2550651220	2E2.5.13.131.74887	872	2816751938	2.7.11.13.19.74051	902	3009763264	2E6.83.443.1279	932	3334417196	2E2.11.17.53.241.349				
R9	43	3261855788	2E2.7.13.223.50093	R9	33	3154801342	2.7.11.167.241.509	W1	32	3053074496	2E6.1439.33151	R9	43	3581168404	2E2.11.109.769.971
843	2551781890	2.5.7.19.61.71.443	873	2828720510	2.7E2.5.11.83.6323	903	3020065808	2E4.19.223.44549	933	3341224575	3E2.5E2.13.19.59.1019				
R9	53	3156424190	2.5.431.739.991	R9	X	3711610882	2.7.53.113.44267	L1	33	3167038192	2E4.197.349.2879	L1	32	3564583425	3E2.5E2.13.239.5099
844	2555923990	2.5.17.23.29.22541	874	2840437756	2E2.19.13E2.37.43.139	904	3024860410	2.5.11.13.23.91969	934	3359556915	3.5.11.17.13E2.19.373				
R9	33	2702673770	2.5.17.59.467.577	R9	X	3156691844	2E2.19.41.151.6709	R9	43	3649954310	2.5.67.1259.4327	R9	X	3736509645	3.5.11E3.17.101.109
845	2592552904	2E3.17.29.43.15287	875	2842515016	2E3.127.11.167.1523	905	3034523630	2.5.23.17.19.40847	935	3370176315	3E4.11.5.23.31.1061				
R9	43	2856090296	2E3.103.131.26459	R9	32	3056462264	2E3.127.47.64007	R9	33	3318157330	2.5.23.73.229.863	R9	43	3735470277	3E4.11.7.47.12743
846	2611143964	2E2.11.13E2.251.1399	876	2847780584	2E3.11.557.58099	906	3036257456	2E4.19.439.22751	936	3373569544	2E3.41.31.71.4673				
R9	X	2812097636	2E2.17.29.167.8539	R9	34	2987783416	2E3.53.61.331.349	L1	33	3170488144	2E4.157.263.4799	R9	33	3410834936	2E3.41.37.127.2213
847	2612831949	3E2.7E2.13.19.17E2.83	877	2848466620	2E2.5.17.31.131.2063	907	3037569344	2E6.101.311.1511	937	3381430228	2E2.11.19.41.47.2099				
L1	X	2737662291	3E2.7E2.13.19.41.613	R9	53	3742595396	2E2.257.431.8447	L1	32	3073402432	2E6.503.95471	R3	54	3731017772	2E2.23.31.89.14699
848	2614326776	2E3.17.61.79.3989	878	2870595525	3.5E2.7.19.41.7019	908	3054330279	3E2.7E3.13.11E2.17.37	938	3382872670	2.5.19.17.179.5851				
R9	44	2729081224	2E3.37.107.199.433	R9	33	2979030075	3.5E2.7.29.389.503	R9	X	3568431321	3E3.7E2.13.207479	R9	33	3442900130	2.5.19.23.461.1709
849	2624170185	3E2.7.13.5.53.107.113	879	2873321512	2E3.19.113.131.1277	909	3065342660	2E2.5.9743.15731	939	3393478725	3.5E2.7.13.47.71.149				
R9	X	3183941943	3E2.7E2.13.127.4373	W1	32	2896081688	2E3.19.107.178067	R9	34	3372946876	2E2.13.107.347.1747	R9	42	3806060475	3.5E2.7.1049.6911
850	2631762064	2E4.29.53.103.1039	880	2875427150	2.5E2.11.137.38149	910	3071356244	2E2.23.229.11.29.457	940	3396934125	3E3.5E3.13.139.557				
R9	42	2800033136	2E4.809.216319	L1	32	3000878050	2.5E2.19.3158819	R9	32	3299606956	2E2.23.229.19.8243	R9	X	3427629075	3E3.5E2.13.167.2339
851	2648872395	3E3.5.23.13.137.479	881	2881000792	2E3.23.41.521.733	911	3101299916	2E2.11.13.113.47981	941	3401192925	3E2.5E2.13.41.79.359				
R9	33	2692721205	3E3.5.23.17.139.367	R9	43	2912196968	2E3.17.503.42571	R9	X	3331358932	2E2.11E2.263.26171	R9	33	3423370275	3E2.5E2.13.59.83.239
852	2655265756	2E2.11.13.199.23327	882	2894107455	3E3.5.17.19.31.2141	912	3105174904	2E3.13E2.2296727	942	3407059832	2E3.11.911.42499				
R9	45	2831479844	2E2.29.41.47.53.239	R9	33	3028094145	3E3.5.17.47.67.419	R9	X	3199343456	2E5.1097.91139	L1	33	3569740168	2E3.37.67.179999
853	2671748950	2.5E2.31.13.67.1979	883	2896764608	2E6.53.853999	913	3107420056	2E3.13.19.331.4751	943	3408254632	2E3.23.47.229.1721				
R3	X	2937892010	2.5.31.43.433.509	L1	X	2959967392	2E5.199.464819	R9	43	3518768744	2E3.461.719.1327	R9	33	3435662168	2E3.23.71.409.643
854	2672087608	2E3.17.29.37.18311	884	2897960164	2E2.11E2.23.439.593	914	3123806972	2E2.11.13.431.12671	944	3411757220	2E2.173.5.691.1427				
L1	42	2964345992	2E3.71.5218919	R9	33	2941867676	2E2.11E2.59.71.1451	R9	33	3313974532	2E2.11.83.191.4751	W1	32	3809832988	2E2.173.13.423503
855	2682405256	2E3.19.107.131.1259	885	2919883365	3E2.5.7.17.269.2027	915	3124943756	2E2.11.19.1259.2969	945	3414281456	2E4.19.163.68903				
R9	44	2706362744	2E3.31.53.109.1889	R9	43	3230310555	3E2.5.19.23.164267	L1	33	3161952244	2E2.11.29.149.16631	L1	33	3591877264	2E4.263.409.2087
856	2688000928	2E5.71.107.11057	886	2931524416	2E6.79.569.1019	916	3135932032	2E7.101.107.2267	946	3415139192	2E3.19.47.71.6733				
R9	33	2729180576	2E5.193.647.683	W1	32	2975499584	2E6.2719.17099	R9	X	3235061408	2E5.3671.27539	R9	43	3566672008	2E3.23.2729.7103
857	2702347270	2.7.5.1607.24023	887	2932637168	2E4.37.67.107.691	917	3138655065	3.5.7E2.13.29.47.241	947	3425919050	2.5E2.17.103.109.359				
R9	X	2866457978	2.7.17.29E2.31.461	R3	43	30544015376	2E4.101.683.2767	R9	X	3534533895	3.5.7.41.131.6269	R9	44	3468282550	2.5E2.29.59.71.571
858	2710037704	2E3.11.29.181.5867	888	2935281375	3E3.5E3.13.149.449	918	3143417344	2E9.89.101.683	948	3431450912	2E5.43.1439.1733				
R9	43	3057032696	2E3.233.719.2281	L1	21	2961518625	3E3.5E3.13.67499	R9	X	3280122416	2E4.113.659.2753	R9	33	3490122208	2E5.269.373.1087
859	2710902590	2.5.11.23.397.2699	889	2944703025	3E3.5E2.11.17.41.569	919	3152378344	2E3.23.31.419.1319	949	3434398695	3E2.7.13.5.191.4391				
R9	44	2859823810	2.5.17.59.239.1193	R9	42	3467386575	3E3.5E2.151.34019	R9	43	3234309656	2E3.19.2687.7919	R9	33	3932355609	3E2.7.13.23.107.1951
860	2724296672	2E5.53.79.20333	890	2952121352	2E3.61.19.29.10979	920	3188153956	2E2.13.17.31.317.367	950	3437107245	3E2.5.13.11E2.59.823				
L2	32	2809804768	2E5.2591.33889	W1	32	3174718648	2E3.61.79.82349	R9	54	3417616796	2E2.11.137.211.2687	R9	X	3743360595	3E3.5.13.617.3457
861	2724801970	2.5.19.11.47.27739	891	2953084864	2E6.101.461.991	921	3202734465	3E3.5.7.17.31.59.109	951	3437839568	2E4.29.659.11243				
L1	32	3027364430	2.5.19.359.44383	L1	32	2983785152	2E6.373.124991	R9	52	4096337535	3E3.5.439.69119	L1	33	3463727632	2E4.59.89.41227
862	2732700555	3E2.5.13.19.47.5231	892	2957909284	2E2.11.19.43.107.769	922	3216365570	2.5.11.47.769.809	952	3437861427	3E3.7.11.13.131.971				
R9	33	2752109685	3E2.5.13.17.127.2179	R9	43	3189277916	2E2.11.197.263.1399	R9	33	3250156030	2.5.11.107.461.599	R9	33	3459761613	3E3.7.11.17.53.1847
863	2733105848	2E3.11.139.223439	893	2960375535	3E2.5.13E2.31.29.433	923	3232160384	2E7.173.227.643	953	3443251432	3E2.23.29.127.5081				
L1	33	2897582152	2E3.31.251.46549	R9	X	2986743825	3E2.5E2.13.31.32939	R9	X	3282775456	2E5.229.347.1291	R9	44	3582105368	2E3.43.83.109.1151
864	2750817650	2.5E2.7.599.13121	894	2978701744	2E4.19.971.10091	924	3254018625	3E2.5E3.13.11.113.179	954	3443961465	3E2.5.23.7.53.8969				
R9	33	3106843150	2.5E2.89.809.863	L2	33	3103141136	2E4.173.179.6263	R9	X	3737227455	3E2.5.13.479.13337	R9	32	3810113415	3E2.5.23.19.193751
865	2766512710	2.5.13.29.733823	895	2982855752	2E3.19.47.239.1747	925	3260154664	2E3.13E3.251.733	955	3445207395	3.5.7E2.19.29.47.181				
W1	23	2781196730	2.5.13.53.103.3919	R9	32	3058232248	2E3.19.1279.15731	R9	X	3397181336	2E3.29.97.150959	R9	X	3725301405	3.5.7.19.1867319
866	2784657488	2E4.29.71.181.467	896	2995106895	3E3.5.19E2.11.37.151	926	3274564293	3E3.7.11.13.17.7127	956	3452049632	2E5.43.263.9539				
R9	43	2918727472	2E4.223.269.3041	L1	32	3342782385	3E3.5.19E2.113.607	R9	33	3623058747	3E3.7.11.53.131.251	L1	32	3529398688	2E5.211.522719
867	2787570220	2E2.5.31.601.7481	897	2995750730	2.5.7E2.1223.4999	927	3276399555	3E2.5.13.11.29.97.181	957	3459581824	2E7.97.278639				
R9	43	3266026196	2E2.17.4987.9631	R9	X	3283369270	2.5.29.37.305999	R9	42	3735288765	3E2.5.13.179.35671	R9	X	3503631776	2E5.139.773.1019
868	2794450516	2E2.11.13.197.24799	898	2997567034	2.7.11.19.47.71.307	928	3279018015	3E2.7E2.13.5.73.1567	958	3474708976	2E4.67.109.131.227				
R9	33	2980179884	2E2.11.79.659.1301	R9	43	3133653446	2.7.11.23.479.1847	L1	32	3943277793	3E2.7E2.13.83.8287	R9	43	3503951504	2E4.37.1583.3739
869	2796129128	2E3.13.17.887.1783	899	3000210675	3.5E2.19.37.7.11.739	929	3293577950	2.5E2.31.13.149.1097	959	3475340505	3E3.5.7.13E2.47.463				
R9	42	3192116632	2E3.1997.199807	R9	32	3694598925	3.5E2.19.37.79.887	L1	32	3568482850	2.5E2.31.853.2699	R9	X	4350149415	3E3.5.127.487.521
870	2807410016	2E5.47.643.2903	900	3000833115	3.5.7.17.19.23.3847	930	3312096496	2E4.29.661.10799	960	3481924064	2E5.71.103.14879				
R9	33	2848002208	2E5.197.367.1231	R9	X	3382537125	3.5E3.11.47.73.239	L1	33	3337031504	2E4.59.89.39719	L1	32	3537626656	2E5.127.870479



961	3502908585	3E4.5.11.37.79.269	991	3833109376	2E7.71.197.2141	1021	4088056208	2E4.41.53.307.383	1051	4377238047	3E2.7.13.17.29.37.293				
R9	32	3647901015	3E4.5.11.599.1367	R9	X	3953660384	2E5.2753.44879	R9	43	4227411568	2E4.71.1231.3023	R9	X	4406635233	3E2.7.13.11E2.53.839
962	3513278192	2E4.41.43.59.2111	992	3846301096	2E3.11.59.727.1019	1022	4095021315	3.5.7.11.23.139.1109	1052	4377991936	2E8.293.58367				
R9	42	3746257168	2E4.7919.29567	R9	43	4173346904	2E3.79.83.79559	R9	43	4497977085	3.5.7.31.83.16649	L1	22	4390866176	2E8.3583.4787
963	3554097885	3E3.5.13E3.23.521	993	3848313645	3E4.5.11E5.59	1023	4104095930	2.5.11.47.139.5711	1053	4396203070	2.5.7E2.107.191.439				
R9	X	3601895715	3E3.5.11.41.59159	R9	X	3868601715	3E4.5.11E2.89.887	R9	44	4186986310	2.5.13.89.101.3583	R9	X	4964856770	2.5.31.131.179.683
964	3554318372	2E2.11E3.19.41.857	994	3865930695	3E2.5.11.29.43.6263	1024	4105247230	2.7.31.5.23.83.991	1054	4400527095	3E5.5.17.23.59.157				
R9	X	3831620188	2E2.11.103.845459	L1	22	3873366585	3E2.5.11.29.47.5741	R9	43	5110162946	2.7.31.71.383.433	R9	43	4543739145	3E5.5.11.359.947
965	3564199504	2E4.47.101.167.281	995	3868964990	2.5.11.43.509.1607	1025	4109466950	2.5E2.31.17.83.1879	1055	4414931650	2.5E2.31.23.59.2099				
R9	32	3626340272	2E4.47.503.9587	W1	32	3925075330	2.5.11.89.400927	R9	X	4349991610	2.5.31.23.433.1409	R9	33	4584492350	2.5E2.31.89.167.199
966	3572444816	2E4.43.97.199.269	996	3877164568	2E3.17.101.277.1019	1026	4123833752	2E3.17.53.61.83.113	1056	4416880923	3E2.7E2.13.19.23.41.43				
R9	43	3645843184	2E4.71.131.24499	W1	32	3932077832	2E3.17.5003.5779	R9	53	4532487208	2E3.71.227.35153	R2	32	4785272037	3E2.7E2.13.19.197.223
967	3597402050	2.5E2.11.19.344249	997	3892163756	2E2.13.19.53.239.311	1027	4141715570	2.5.19.23E2.89.463	1057	4429428675	3.5E2.7.19.167.2659				
R9	33	4086257950	2.5E2.149.269.2039	R9	43	4033135444	2E2.13.29.127.21059	R9	X	4171865230	2.5.13.47.157.4349	L1	22	4436670525	3.5E2.7.19.239.1861
968	3602732595	3.5.19.7E2.11.47.499	998	3900906009	3E2.7.13.11.41.59.179	1028	4143353656	2E3.13.29.509.2699	1058	4458625504	2E5.37.269.13999				
R9	X	4276947405	3.5.19.23.29.149.151	R9	44	4024393191	3E2.7.13.23.29.53.139	R9	43	4531746344	2E3.53.499.21419	L1	32	4590694496	2E5.797.179999
969	3604491345	3.5.7.13.23.29.37.107	999	3905117576	2E3.19.47.71.7699	1029	4144376145	3.5.7E2.13.41.71.149	1059	4488453968	2E4.17.2351.7019				
R9	52	4338226095	3.5.7.809.51071	R9	43	4078242424	3E3.23.2399.9239	R9	43	4542971055	3.5.7E2.53.139.839	R9	33	4724706352	2E4.223.701.1889
970	3611920304	2E4.29.593.13127	1000	3905322225	2.5E2.7.19.53.83.89	1030	4149106335	3E4.5.11E3.43.179	1060	4490950220	2E2.5.71.3162641				
L1	33	3640249456	2E4.53.109.39383	R9	X	4194159375	3.5E5.7.79.809	L1	21	4268776545	3E4.5.11E3.7919	L1	33	5072879188	2E2.13.3083.31643
971	3647464821	3E2.7.13.11.23.29.607	1001	3925579070	2.5.7.89.191.3299	1031	4150593232	2E4.43.61.98899	1061	4516391295	3E2.5.13.19.59.71.97				
R9	X	4001077899	3E2.7E2.13.31.47.479	R9	44	4285876930	2.5.19.199.263.431	L1	22	4213181968	2E4.43.859.7129	R9	43	4729791105	3E2.5.13.29.83.3359
972	3647562568	2E3.13.17.839.2459	1002	3940697128	2E3.19.53.163.3001	1032	4152981844	2E2.11E2.23.53.7039	1062	4522539070	2.5.7.17.73.79.659				
R9	42	4163429432	2E3.1721.302399	R9	32	4035016472	2E3.19.683.38867	R9	X	4341313196	2E2.11.43.797.2879	R9	53	5604923330	2.5.593.739.1279
973	3654203576	2E3.19.71.571.593	1003	3949406848	2E7.211.349.419	1033	4161910012	2E2.53.211.13.17.421	1063	4569376424	2E3.19.43.83.8423				
R9	43	3684785224	2E3.17.311.87119	R9	X	3997413152	2E5.139.499.1801	L1	32	4360072772	2E2.53.211.11.8861	R9	43	4771154776	2E3.23.1871.13859
974	3658862632	2E3.23.41.53.9151	1004	3956965155	3E3.5.11.13E2.15767	1034	4186831005	3E3.5.7.67.89.743	1064	4570182110	2.5.13.23.479.3191				
R9	43	3813562328	2E3.43.47.235871	R9	X	4353401565	3E3.5.17.71.26717	R9	43	4555466595	3E3.5.23.29.50591	R9	44	4696321570	2.5.17.37.127.5879
975	3663942220	2E2.5.71.2580241	1005	3961085625	3E3.5E4.7.33533	1035	4189882288	2E4.17.2399.6421	1065	4582247428	2E2.11.29.79.131.347				
L1	33	4138709588	2E2.13.3163.25163	R9	X	4419731655	3E3.5.17.137.14057	R9	33	4410460112	2E4.239.569.2027	R9	32	4678450172	2E2.11.29.463.7919
976	3679922740	2E2.5.13.67.211247	1006	3963477872	2E4.41.43.71.1979	1036	4218037424	2E4.23.109.113.929	1066	4589689390	2.5E2.11.13.167.19219				
R9	43	4766617292	2E2.83.3671.3911	R9	42	4023499408	2E4.359.731807	R9	42	4465839376	2E4.359.777479	R9	X	5174685650	2.5E2.79.881.1487
977	3680156392	2E3.101.11.41.10099	1007	3971606470	2.5.13E2.17.138239	1037	4211873505	3E3.5.7.17.23.11399	1067	4594486048	2E5.53.463.5851				
W1	32	4108155608	2E3.101.1009.5039	R9	X	4224919610	2.5.19.71.107.2927	R9	43	5243742495	3E3.5.8.89.607.719	R9	33	4643059808	2E5.173.223.3761
978	3685361368	2E3.13E2.47.59.983	1008	3980355350	2.5E2.17.59.139.571	1038	4242143750	2.5E5.13.109.479	1068	4604839810	2.5.19.17.37.53.727				
R9	X	4093749032	2E3.79.2213.2927	R9	44	4062879850	2.5E2.23.131.149.181	R9	X	4419801850	2.5E2.19.1567.2969	R9	42	5075347070	2.5.19.151.176903
979	3693013664	2E5.41.131.21487	1009	3986534090	2.5.929.7.11.5573	1039	4261080915	3E2.7E2.13.5.43.3457	1069	4617085725	3E3.5E2.7.53.103.179				
L1	31	3812143072	2E5.119129471	L1	31	4971106870	2.5.929.5351103	R3	32	5209468173	3E2.7E2.13.227.4003	R9	X	5410843875	3E3.5E3.479.3347
980	3710119780	2E2.227.5.17.53.907	1010	4000783984	2E4.43.113.51461	1040	4280119305	3.5.7.11.59.107.587	1070	4634941234	2.7.11.17.37.59.811				
R9	42	4741427996	2E2.227.71.73547	L1	X	4001351168	2E9.1367.5717	R9	44	4498673655	3.5.7.31.53.89.293	R9	X	4962509006	2.7E2.13.47.179.463
981	3715799048	2E3.13.53.223.3023	1011	40087609528	2E3.13.29.1328783	1041	4281566032	2E4.29.97.251.379	1071	4667500708	2E2.19.13.97.113.431				
R9	44	3965644792	2E3.71.97.167.431	R9	33	4363729672	2E3.61.151.59219	R9	43	4446000368	2E4.113.239.10289	R9	43	4792051532	2E2.19.17.83.44687
982	3736912936	2E3.17.43.639007	1012	4023332270	2.5.19.23.37.149.167	1042	4282854730	2.5.7.11.761.7309	1072	4671243424	2E5.43.3394799				
L1	33	3854502104	2E3.23.151.138731	R9	43	4250331730	2.5.19.47.179.2659	R9	42	5342845430	2.5.1087.491489	W1	23	4739142176	2E5.229.263.2459
983	3737773292	2E2.31.11.61.167.269	1013	4028769225	3E3.5E2.13.17.113.239	1043	4288758056	2E3.11.4513.10799	1073	4702051046	2.7.23.11E2.17.31.229				
R9	44	3821742868	2E2.31.17.53.79.433	R9	43	4520683575	3E3.5E2.41.379.431	R9	34	4486457944	2E3.47.73.149.1097	R9	X	5446976794	2.7.23.29.151.3863
984	3743928045	3E2.5.13.11.223.26009	1014	4029072075	3E2.5E2.7.19.134639	1044	4312833832	3E3.29.31.521.1151	1074	4709813710	2.5.7.1307.51479				
R9	33	3917194515	3E2.5.13.23.347.839	R9	X	4652515125	3E3.5E3.109.12647	R9	33	4346519768	3E3.29.47.191.2087	R9	X	4986547250	2.5E3.47.59.7193
985	3751290650	2.5E2.19.29.136163	1015	4032465344	2E6.107.191.3083	1045	4313390445	2E2.7.13.5.23.41.1117	1075	4721483056	2E4.23.139.241.383				
L1	33	3846660550	2.5E2.17.349.12967	W1	32	4089162304	2E6.1151.55511	R9	42	5531592339	3E2.7.13.1031.6551	R9	43	4957897424	2E4.197.439.3583
986	3762853094	2.7.11.13.373.5039	1016	4048940048	2E4.17.1451.10259	1046	4321518201	3E2.7E2.13.11.17.29.139	1076	4754422208	2E6.157.269.1759				
R9	33	3837305626	2.7.11.19.167.7853	R9	33	4263876112	2E4.241.683.1619	R9	X	5089774599	3E2.7E3.13.53.2393	R9	32	4780940992	2E6.197.379199
987	3787638940	2E2.37.5.5118431	1017	4049815250	2.5E3.13.43.28979	1047	4331452790	2.7.41.5.47.163.197	1077	4763730208	2E5.17.1949.4493				
W1	23	4381378532	2E2.37.43.73.9431	L1	X	4304770990	2.5.13.857.38639	R9	43	5095298698	2.7.41.23.107.3607	L1	X	5173851992	2E3.41.15773939
988	3797392550	2.5E2.7.107.101399	1018	4053148088	2E3.79.11.583019	1048	4346372745	3E2.11.13.17.5.67.593	1078	4771436296	2E3.11.23.271.8699				
L1	X	4350300250	2.5E3.3719.4679	W1	23	4342339912	2E3.79.107.157.409	R9	32	5180969079	3E2.11.13.17.43.5507	R9	42	5451411704	2E3.7649.89087
989	3804416572	2E2.11.43.71.127.223	1019	4056852735	3E3.5.19.13.89.1367	1049	4355468325	3E2.5E2.13.19.109.719	1079	4784209576	2E3.19.23.29.47189				
R9	43	3825546692	2E2.11.31.83.33791	R9	33	4216811265	3E3.5.19.29.83.683	R9	32	4581459675	3E2.5E2.13.89.17599	L1	42	5408830424	3E3.197.3431999
990	3804517244	2E2.11.17.367.13859	1020	4063895408	2E4.19E2.449.1567	1050	4373598075	3.5E2.11.7.17.44549	1080	4785332175	3E5.5E2.13E2.59.79				
R9	33	3907408516	2E2.11.31.809.3541	R9	X	4269946192	2E4.179.839.1777	W3	32	5172219525	3.5E2.11.43.145799	R9	X	5126533425	3E2.5E2.13.479.3659

1081	4796703664	2E4.43.67.104059	1111	5131883330	2.5.7.17.103.149.281	1141	5502084136	2E3.17.199.263.773	1171	5857529678	2.7E3.13.11.29E2.71										
L1	22	4855069456	2E4.43.373.18919	R9	53	6270843070	2.5.107.1879.3119	R9	44	5532059864	2E3.31.53.89.4729	R9	X	6785209522	2.7.13.239.389.401						
1082	4800749954	2.7.11.13.73.107.307	1112	5156687470	2.5.11.53.419.2111	1142	5502767650	2.5E2.19.37.89.1759	1172	5864752630	2.5.11E2.53.109.839	R9	X	6080349770	2.5.11.2393.23099						
R9	43	5124163198	2.7.11.43.83.9323	R9	33	5189747090	2.5.11.131.139.2591	W1	32	5692944350	2.5E2.19.227.26399	1173	5871076575	3.5E2.7.13.79.10889	R9	33	6228149025	3.5E2.7.43.263.1049			
1083	4802570325	3E3.5E2.7.293.3469	1113	5157409576	2E3.11.37.179.8849	R9	42	6585084045	3E2.5.17.7.29.131.271	1143	5513127795	3E2.5.17.7.29.131.271	1174	5885347545	3E3.5.7.11.257.2203	R9	42	7215933735	3E3.5.47.1137263		
L1	X	5317615275	3.5E2.7.139.72869	R9	43	5738710424	2E3.113.269.23599	R9	42	6585084045	3E2.5.17.7.29.131.271	1175	5906679975	3E5.5E2.7.138899	R9	X	6632100825	3.5E2.7.2777.4549			
1084	4839564015	3E2.5.13.11.61.12329	1114	5164511625	3E2.7.13.5E3.61.827	R9	44	5898483591	3.7.11.13.17.43.2687	1144	5546461305	3.7.11.5.47.83.1231	1176	5907430305	3E3.5.7.151.41399	R9	34	6174745695	3E5.5.17.31.229.379		
R9	X	5177919825	3E2.5E2.13.359.4931	R9	X	6495742071	3E2.7.13.103.77003	R9	44	5898483591	3.7.11.13.17.43.2687	1177	5907709665	3E2.5.13.11.79.11621	R9	X	6275865375	2E3.5E3.13.42919			
1085	4842186615	3E3.5.7E2.359.2039	1115	5188836656	2E4.59.61.251.359	R9	43	5523660085	3E2.5.7.79.347.643	1145	5552366085	3E2.5.7.79.347.643	1178	5924391392	3E5.43.443.9719	R9	33	6038673568	2E5.263.647.1109		
R9	X	5204405385	3E3.5.23.37.89.509	R9	43	5272993744	2E4.53.199.31247	W1	32	5635304955	3E2.5.7.463.38639	1179	5935418265	3.5.7E2.19.47.9043	R9	X	5941886050	2.5.11E2.89.197.263			
1086	4859601232	2E4.17.2939.6079	1116	5191917776	2E4.17.167.114299	1146	5562037616	2E4.43.59.263.521	R9	43	5716169104	2E4.71.241.20879	1180	5936514512	2E4.17.659.33119	R9	33	6260919088	2E4.263.919.1619		
R9	33	5114760368	2E4.17.229.259.2351	L1	32	5523021424	2E4.761.453599	R9	43	5716169104	2E4.71.241.20879	1181	5939023970	2.5.11.29.383.4861	W1	32	6159187870	2.5.11.4159.13463			
1087	4863771495	3E3.5.11.43.59.1291	1117	5200086344	2E3.17.269.307.463	1147	5574272535	3E2.5.13.19.43.107.109	R9	43	5841932265	3E2.5.13.23.449.967	1182	5945041304	2E3.17.37E3.863	R9	X	6199515496	2E3.13.29.107.17383		
R9	32	4959562905	3E3.5.11.47.71059	R9	44	5218198456	2E3.19.131.503.521	R9	43	5841932265	3E2.5.13.23.449.967	1183	5983596512	2E5.79.631.3761	L1	22	5999426848	2E5.79.631.3761			
1088	4875810975	3E2.5E2.31.7.37.2699	1118	5200799264	2E5.53.1439.2131	1148	5575354856	2.5E2.13.17.83.6079	R9	43	5841932265	3E2.5.13.23.449.967	1184	5990705656	2E3.13.59.71.13751	R9	43	6485108744	2E3.41.647.30559		
R9	32	5709225825	3E2.5E2.31.449.1823	R9	33	5243612896	2E5.107.491.3119	R9	X	6393879070	2.5.41.139.151.743	1185	5992992495	3E3.5.7.71.179.499	R9	44	6448607505	3E3.5.19.47.149.359			
1089	4878141590	2.7E2.5.233.42727	1119	5221345844	2E2.11.13.19.353.1361	1149	5579256590	2.5.11E2.89.197.263	1179	5935418265	3.5.7E2.19.47.9043	1186	6001753725	3E5.5E2.11.19.29.163	R9	X	7322393475	3E2.5E2.79.491.839			
R9	33	5380167562	2.7E2.11.653.7643	R9	53	6118775116	2E2.17.9439.9533	R9	32	5682998530	2.5.11E2.89.197.263	1187	6024547696	2E4.29.83.311.503	R9	43	6259666064	2E4.107.293.12479			
1090	4893008692	2E2.11.109.13.78479	1120	5228978728	2E3.17E2.53.139.307	1150	5587409230	2.5.13.19.1451.1559	R9	33	5682998530	2.5.11E2.89.197.263	1188	6031567575	3E2.5E2.11.19.47.2729	R9	43	6642621225	3E2.5E2.17.167.10399		
L1	22	5259164108	2E2.11.109.839.1307	R9	X	5493671672	2E3.41.89.307.613	R9	33	5871955707	2.5.13.199.233.967	1189	6042829905	3E3.5.7.23.29.9587	R9	43	7211621295	3E3.5.31.1223.1409			
1091	4900571656	2E3.19.71.83.5471	1121	5257013762	2.7.11.43.13.79.773	1151	5592854630	2.5.19.11.569.4703	R9	32	567553016	2E3.13.149.361871	1190	6045115850	2.5E2.17.41.89.1949	R9	43	6293938150	2.5E2.29.53.81899		
R9	32	5027825144	2E3.19.2267.14591	R9	32	5728089598	2.7.11.43.839.1031	R9	33	5990274970	2.5.19.71.167.2659	1191	6066248175	3E2.5E2.13.31.149.449	L1	21	6120471825	3E2.5E2.13.31.67499			
1092	4903965044	2E2.11.17.1129.5807	1122	5290961056	2E5.67.199.12401	1152	5607553016	2E3.13.149.361871	R9	34	5791414984	2E4.41.59.139.2153	1192	6067647728	2E4.29.41.313.1019	R9	42	6442489072	2E4.449.896783		
R9	33	5019351436	2E2.11.29.1451.2711	R9	33	5335072544	2E5.149.211.5303	R9	34	5791414984	2E4.41.59.139.2153	1193	6082113015	3E4.5.11.29.179.263	R9	32	6337714185	3E4.5.11.593.2399			
1093	4911038510	2.5.7.149.479.983	1123	5296175750	2.5E3.17.29.97.443	1153	5609702696	2E3.13.29.107.17383	R9	43	5609702696	2E3.13.29.107.17383	1194	6104216464	2E4.59.107.223.271	R9	44	6135000176	2E4.101.127.167.179		
R9	44	5291073490	2.5.29.31.409.1439	R9	X	5700716890	2.5.19.83.181.1997	R9	43	6218370904	2E3.89.317.27551	1195	6104216464	2E4.59.107.223.271	1195	6104216464	2E4.59.107.223.271	R9	44	6135000176	2E4.101.127.167.179
1094	4921246565	3E2.5.7E2.29.67.1151	1124	5301374925	3.5E2.11.7E2.199.659	1154	5619401456	2E4.29.79.83.1847	R9	42	5929859344	2E4.191.1940399	1196	6104216464	2E4.59.107.223.271	R9	X	6859176525	3E3.5E2.53.1099.1759		
R9	X	5517209115	3E2.5.11.683.16319	R9	X	5894337075	3.5E2.11.23.113.2749	R9	42	5929859344	2E4.191.1940399	1197	6107550855	3.5.7E2.19.41.10667	R9	X	6151261305	3.5.7E2.19E2.97.239			
1095	4937340976	2E4.37.47.61.2909	1125	5302349776	2E4.17.2267.8599	1155	5640198165	3E2.5.19.7E2.61.2207	1155	5640198165	3E2.5.19.7E2.61.2207	1198	6108334785	3E2.5.7.83.167.1399	W1	32	6219908415	3E2.5.7.2239.8819			
R9	42	5264327504	2E4.5471.60139	R9	33	5581328624	2E4.257.449.3023	R9	X	6532594155	3E2.5.19.47.162563	1199	6143533695	3E4.5.13.17.68639	L1	22	64142091585	3E4.5.13.71.17159			
1096	4960116850	2.5E2.13.89.179.479	1126	5319472184	2E3.13.41.199.6269	1156	5668081984	2E6.223.311.1277	R9	33	5675159744	2E6.283.431.727	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71		
R9	43	5164235150	2.5E2.19.863.6299	R9	43	5740807816	2E3.37.3079.6299	R9	33	5675159744	2E6.283.431.727	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
1097	4960585125	3E3.5E3.31.17.2789	1127	5321930128	2E4.29.53.379.571	1157	5676646514	2.7.11E2.23.53.2749	1157	5676646514	2.7.11E2.23.53.2749	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
R9	X	5067344475	3E3.5E2.31.23.10529	R9	43	5593889072	2E4.197.569.3119	R9	X	5699641486	2.7E2.11.41.43.2999	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
1098	4967430490	2.5.19.11.139.17099	1128	5325459184	2E4.43.139.233.239	1158	5697735225	3.5E2.7.13.167.4999	1158	5697735225	3.5E2.7.13.167.4999	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
R9	33	5374649510	2.5.19.113.167.1499	R9	43	5398854416	2E4.41.1559.5279	L1	32	5968184775	3.5E2.7.13.167.4999	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
1099	4980118690	2.5.31.19.61.83.167	1129	5375620496	2E4.29.83.97.1439	1159	5715251290	2.5.7.53.1540499	1159	5715251290	2.5.7.53.1540499	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
R9	43	5099236190	2.5.31.17.223.4339	R9	43	5648673904	2E4.199.503.3527	R9	34	6263676710	2.5.23.89.157.1949	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
1100	4999722525	3E2.5E2.7.17.29.47.137	1130	5381495288	2E3.13.23.191.11779	1160	5725765580	2E2.5.17.467.36061	1160	5725765580	2E2.5.17.467.36061	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
R9	X	6532396515	3E2.5.59.863.2851	R9	43	6017775112	2E3.127.433.13679	L1	43	7033258516	2E2.37.107.444131	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
1101	5001083252	2E2.11.19.1583.3779	1131	5389403950	2.5E2.7.1999.7703	1161	5745724875	3E4.11.5E3.23.2243	1161	5745724875	3E4.11.5E3.23.2243	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
R9	34	5057950348	2E2.11.59.107.131.139	R9	33	6074148050	2.5E2.79.641.2399	R9	X	6453305397	3E4.11.7.67.15443	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
1102	5032905345	3E2.5.13E2.61.19.571	1132	5403806252	2E2.13.17.239.25577	1162	5747841099	3E2.7.13.11E2.31.1871	1162	5747841099	3E2.7.13.11E2.31.1871	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
L1	X	5091357375	3E2.5E3.13E2.61.439	L1	44	5424895828	2E2.11.23.521.10289	R9	X	5852448693	3E5.7.13.23.37.311	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
1103	5047072690	2.5.11.37.743.1669	1133	5442123375	3E3.5E3.13.71.1747	1163	5766520288	2E5.59.599.5099	1163	5766520288	2E5.59.599.5099	1200	6146662545	3E2.5.17.19.53.79.101	R9	44	6226508655	3E2.5.17.29.59.67.71			
R9	X	5151203150	2.5E2.17.191.31729	R9	X	5552656785	3E3.5.13.37.233.367														

1201	6155750475	3E2.5E2.7.23.109.1559	1231	6677930385	3E5.7.5.37.21221	1291	7579753125	3.5E5.7.19.6079
R9 X	7121971125	3E2.5E3.59.61.1759	R9 X	7412119407	3E5.7E2.11.56591	R9 X	7619274075	3.5E2.7.19.419.1823
1202	6158708048	2E4.17.811.27919	1232	6682859001	3E2.7.13.17.23.41.509	1292	7591540816	2E4.23.3533.5839
L1 32	6491732272	2E4.173.2345279	R9 33	6790149639	3E2.7.13.17.29.67.251	R9 33	7763547824	2E4.71.151.45259
1203	6179700345	3.5.7.13.17.79.3371	1233	6692989624	2E3.17.101.293.1663	1293	7592910975	3E3.5E2.13.43.20123
R9 43	6872367495	3.5.7.47.59.23603	W1 32	6780019016	2E3.17.1087.45863	R9 X	7778605185	3E2.5.13.43.29.10663
1204	6181674850	2.5E2.13.59.359.449	1234	6716127352	2E3.53.11.971.1483	1294	7593626504	2E3.17.107.373.1399
R9 43	6473765150	2.5E2.23.139.40499	W1 32	7304467208	2E3.53.211.81647	W1 32	7674549496	2E3.17.479.117809
1205	6200951625	3E3.5E3.11.19.59.149	1235	6718067096	2E3.13.59.79.13859	1295	7608153350	2.5E2.7.179.121439
R9 42	7277448375	3E3.5E3.719.2999	R9 44	7252812904	2E3.83.131.199.419	R9 33	8655091450	2.5E2.137.383.3299
1206	6217030755	3E2.5.13.19.23.83.293	1236	6722173575	3E2.5E2.13E2.17.10399	1296	7631131095	3E4.5.59.7.43.1061
R9 43	6727624605	3E2.5.13.41.179.1567	L1 22	7083639225	3E2.5E2.13E2.311.599	R9 32	8652642345	3E4.5.59.31.11681
1207	6249563650	2.5E2.11.449.25307	1237	6741318350	2.5E2.13.89.116531	1297	764472894	2E4.67.83.151.569
R9 34	6460113950	2.5E2.29.89.113.443	L1 X	6913901410	2.5.13.53.1003469	R9 43	7696789136	2E4.37.607.21419
1208	6255734650	2.5E2.11.1487.7649	1238	6742313936	2E4.29.47.309167	1298	7689014456	2E3.17.101.389.1439
R9 34	6447916550	2.5E2.29.61.269.271	R9 33	7058945584	2E4.151.431.6779	W1 32	7777449544	2E3.17.599.95471
1209	6261264590	2.5.7E2.149.191.449	1239	6752047995	3E2.7.11.5.1151.1693	1299	7693403445	3E2.7.13.47.5.71.563
R9 X	7035695410	2.5.37.53.499.719	W1 32	7860694149	3E2.7.11.31.365903	R9 32	9334667979	3E2.7.13.47.281.863
1210	6262961888	2E5.41.4773599	1240	6764433170	2.5.11.23.47.163.349	1300	7696871576	2E3.19.53.127.7523
W1 23	6367983712	2E5.179.1019.1091	R9 53	7518523630	2.5.19.383.103319	R9 31	7904894824	2E3.19.52005887
1211	6275937424	2E4.19.509.40559	1241	6768593968	2E4.29.2089.6983	1301	7716789124	2E2.59.11.17.19.9203
L1 33	6549134576	2E4.179.199.11491	L2 33	68062806832	2E4.37.439.26189	R9 43	8982948476	2E2.59.29.103.12743
1212	6284451608	2E3.17.113.191.2141	1242	6771898208	2E5.71.151.19739	1302	7720248712	2E3.11.2819.31121
W1 32	6374254312	2E3.17.4787.9791	R9 33	6838279072	2E5.113.563.3359	R9 34	8077278488	2E3.37.107.181.1409
1213	6287302312	2E3.19.29.881.1619	1243	6777002584	2E3.11.37.233.8933	1303	7735239556	2E2.11.43.71.89.647
R9 44	6572257688	2E3.41.89.149.1511	R9 43	7522400456	2E3.107.227.38713	R9 43	7784412284	2E2.11.23.1759.4373
1214	6305672368	2E4.17.751.30869	1244	6788375248	2E4.41.109.139.683	1304	7779344980	2E2.137.5.11.258107
R9 33	664787352	2E4.251.839.1973	R9 43	6926371952	2E4.47.2309.3989	R9 32	10172582636	2E2.137.941.19727
1215	6307360510	2.5.11.29.461.4289	1245	6789022528	2E6.89.239.4987	1305	7780806075	3.5E2.7.17.149.5851
W1 32	6535869890	2.5.11.1451.40949	W1 32	6894059072	2E6.8599.12527	R9 X	7893190725	3.5E2.7E2.43.199.251
1216	6343170730	2.5.17.13.67.42839	1246	6794712832	2E8.89.298223	1306	7787330704	2E4.53.59.317.491
R9 33	6870741590	2.5.17.271.293.509	R9 X	6920608928	2E5.227.653.1459	W1 32	7927109936	2E4.53.239.39113
1217	6353438175	3E3.5E2.7.29.199.233	1247	6845195390	2.5.11.53.139.8447	1307	7800706940	2E2.5.13.167.179657
R9 42	7574241825	3E3.5E2.1151.9749	R9 33	69500506690	2.5.11.167.239.1583	L1 43	9946628932	2E2.53.1511.31051
1218	6356368136	2E3.17.23.103.109.181	1248	6862936275	3E3.5E2.13.29.149.181	1308	7807697504	2E5.59.1847.2239
R9 53	7135510264	2E3.131.2027.3359	R9 X	7354903725	3E2.5E2.13.503.4999	R9 33	7839688096	2E5.109.223.10079
1219	6370495978	2.7E2.19.23.11.13523	1249	6885178846	2.7E2.19.13.23.83.149	1309	7822669778	2.7E2.11.19.167.2287
L1 21	6950103062	2.7E2.19.23.162287	R9 43	7593733154	2.7E2.19.31.293.449	R9 X	7952449582	2.7.11.19.131.20747
1220	6386741384	2E3.37.23.71.73.181	1250	6891050528	2E5.29.2053.3617	1310	7877348704	2E5.61.89.45343
R3 42	6878699896	2E3.37.701.33151	R9 X	7154242552	3E3.23E2.971.1741	L1 32	8062881056	2E5.239.1054247
1221	6397019750	2.5E3.11.19.191.641	1251	6898979516	2E2.11.13E2.269.3449	1311	7900303190	2.5.31.13.619.3167
R9 X	7447992730	2.5.31.3209.7487	R9 X	7420038484	2E2.17.29.149.25253	R9 X	7938683050	2.5E2.11.47.59.1847
1222	6451021016	2E3.11.41.103.17359	1252	6908106488	2E3.19.23.223.8861	1312	7920502317	3E2.7.13.19.17.79.379
R9 43	7198105384	2E3.97.1151.8059	L1 42	7384527112	2E3.31.29776319	R9 33	8013961683	3E2.7.13.19.31.37.449
1223	6460278688	2E5.61.199.16631	1253	6921765752	2E3.11.79.995651	1313	7923037772	2E2.19.37.13.73.2969
R9 33	6532639712	2E5.139.359.4091	L1 33	7415623048	2E3.53.83.210719	R9 32	8446176628	2E2.19.37.41.73259
1224	6478496595	3E2.5.17.19.23.19379	1254	6943893957	3E2.7.13.19.59.113.359	1314	7941148664	2E3.97.17.193.3119
L1 22	6582073005	3E2.5.17.19.37.12239	R9 X	7397123643	3E2.7E2.13.19.59.1151	R9 33	8074560136	2E3.97.23.389.1163
1225	6506173275	3.5E2.7.17.599.1217	1255	6960968212	2E2.19.11.37.139.1619	1315	7941474368	2E6.79.373.4211
R9 33	6542991525	3.5E2.7.19.521.1259	R9 44	7517943788	2E2.19.53.83.113.199	L1 32	8063451712	2E6.4679.26927
1226	6534418330	2.5.11.29.1319.1553	1256	6999092624	2E4.19.149.191.809	1316	7961973140	2E2.5.11.67.727.743
W1 32	6757876070	2.5.11.599.102563	R9 42	7464267376	2E4.20249.23039	R9 52	10600838764	2E2.1637.1618943
1227	6559115488	2E5.53.281.13763	1257	7053981610	2.5.7.53.1079.127.137	1317	7983560655	3E2.5.17.7.29.101.509
R9 X	6645570608	2E4.41.971.10433	R9 53	8073097430	2.5.29.197.141311	R9 42	9545098545	3E2.5.17.2447.5099
1228	6562770525	3E3.5E2.31.17.19.971	1258	7072796115	3E2.5.7.11.709.2879	1318	8006813199	3E3.7E2.19.11.23.1259
R9 31	7322055075	3E3.5E2.31.349919	R9 44	8238866285	3E2.5.19.79.283.431	R9 X	8540514801	3E3.7.19.13.113.1619
1229	6575884876	2E2.19.41.11E2.107.163	1259	7074650624	2E9.947.14591	1319	8038783948	2E2.13.17.19.307.1559
R9 X	7275607604	2E2.19.41.113.20663	L1 22	7076729344	2E9.1367.10111	R9 43	8912550452	2E2.13.139.701.1759
1230	6589526450	2.5E2.13.23.29.15199	1260	7096666610	2.5.11.53.719.1693	1320	8052147896	2E3.13.509.152111
R9 42	7659561550	2.5E2.11969.12799	R9 33	7129680910	2.5.11.83.269.2903	R9 X	8239047304	2E3.23.97E2.4759

1321	8056050244	2E2.11.29.53.139.857	1351	8508405465	3E2.5.7.79.181.1889	1381	9029724795	3E2.7.13.5.31.83.857	1411	9549021568	2E7.37.101.19963
R9 43	8289879356	2E2.11.43.107.40949	R3 32	8663076135	3E2.5.7.1871.14699	R9 43	1111814694	3E2.7.13.71.263.727	R9 X	10182996752	2E4.9043.70379
1322	8077248916	2E2.11.19.59.83.1973	1352	8517106125	3E3.5E3.11.383.599	1382	9054843104	2E5.67.383.11027	1412	9581473976	2E3.19.59.1068407
R9 54	8637003884	2E2.17.23.1879.2939	R9 33	8735245875	3E3.5E3.29.31.2879	L1 32	9086834464	2E5.71.3999487	W1 23	9649870024	2E3.19.151.593.709
1323	8119394450	2.5E2.31.19.23.11987	1353	8521860555	3E6.5.13.17.71.149	1383	9070949152	2E5.53.83.64439	1413	9616775744	2E6.83.317.5711
R9 X	9005223790	2.5.31.73.107.3719	R9 43	9326392245	3E6.5.23.53.2099	R9 32	9343940768	2E5.971.300719	W1 32	9760750144	2E6.2351.64871
1324	8135645416	2E3.19.41.911.1433	1354	8534619752	2E3.17.23.71.83.463	1384	9075291470	2.7E2.5.23.43.61.307	1414	9703910930	2.7.17.5.47.173501
W1 32	8342735384	2E3.19.1367.40151	R9 53	9650022808	2E3.347.503.6911	R9 X	11614384306	2.7.41.113.241.743	L1 32	11882513902	2.7.17.1223.40823
1325	8167602105	3E2.5.13.19.23.43.743	1355	8557778500	2E2.5E3.197.283.307	1385	9083125275	3.5E2.7.19.139.6551	1415	9723053488	2E4.23.89.307.967
R9 43	8991299655	3E2.5.13.61.197.1279	R9 X	10355067452	2E2.23.9371.12011	R9 33	9115709925	3.5E2.7.29.47.12739	R9 43	10240668752	2E4.263.461.5279
1326	8188640048	2E4.41.47.349.761	1356	8575844056	2E3.13.71.347.3347	1386	9086970310	2.5.53.11.83.89.211	1416	9766111856	2E4.17.137.262079
R9 43	8479043152	2E4.97.239.22859	R9 44	9040528424	2E3.53.61.431.811	R9 43	9607155770	2.5.53.17.719.1483	L1 32	10415096464	2E4.12959.50231
1327	8201184795	3E4.5.17.19.71.883	1357	8628307636	2E2.13.17.79.123551	1387	9097736655	3.5.7E2.19.47.83.167	1417	9818506568	2E3.13E2.29.179.1399
R9 33	8433856485	3E4.5.17.47.67.389	R9 34	8807350604	2E2.13.31.131.179.233	R9 32	9435270705	3.5.7E2.19.587.1151	R9 X	109933693432	2E3.89.1049.14639
1328	8226127472	2E4.29.107.223.743	1358	8645093145	3E5.5.13.23.53.449	1388	9100969376	2E5.79.113.31859	1418	9834780285	3E2.5.11.19.139.7523
R9 43	8512801168	2E4.71.1889.3967	R9 32	9186830055	3E5.5.13.599.971	R9 33	9204512224	2E5.179.227.7079	L1 22	9884118915	3E2.5.11.19.569.1847
1329	8237044408	2E3.17.47.1288649	1359	8651076434	2.7.11.13.23.89.2111	1389	9136521225	3E3.5E2.13.17.73.839	1419	9836011130	2.5.11.17.79.139.479
R9 34	8463859592	2E3.43.53.109.4259	R9 43	9742585006	2.7.11.223.239.1187	R9 43	10287235575	3E3.5E2.59.97.2663	R9 54	11065876870	2.5.31.107.149.2239
1330	8249841116	2E2.11.19.89.110879	1360	8658321632	2E5.71.79.48239	1390	9153086085	3E2.5.13.11.37E2.1039	1420	9844469775	3E2.5E2.7.23.29.9371
R9 33	8515214884	2E2.11.59.71.46199	R9 33	8847009568	2E5.401.599.1151	R9 X	10021735035	3E2.5.13.47.389.937	R9 X	11910566385	3E2.5.19.991.14057
1331	8260626368	2E6.103.211.5939	1361	8676652328	2E3.19E2.47.97.659	1391	9159365024	2E5.53.241.22409	1421	9852159848	2E3.31.23.433.3989
L1 32	8371943872	2E6.857.152639	R9 X	9066365272	2E3.43.59.587.761	L1 X	9290429416	2E3.17.4157.16433	R9 33	100996563352	2E3.31.61.251.2659
1332	8263107788	2E2.23.47.13.17.8647	1362	8717951385	3E2.5.13.11E2.79.1559	1392	9160950225	3.5E2.19.7.17.89.607	1422	9875558210	2.5.29.7.233.20879
L1 32	9310735156	2E2.23.47.83.25943	R9 X	9407501415	3E2.5.13.37.223.1949	R9 44	10380656175	3.5E2.19.37.47.59.71	R9 33	11231616190	2.5.29.239.347.467
1333	8269106625	3E2.13E2.31.61.5E3.23	1363	8804881305	3E3.5.11.37.191.839	1393	9173012056	2E3.13.8689.10151	1423	9880655085	3E2.5.7.17.233.7919
L1 X	9402333759	3E2.13E2.31.61.7.467	R9 44	88456001895	3E3.5.13.29.151.1151	B4 33	9353372744	2E3.19.281.218987	R9 X	10935388575	3E2.5E3.19.431.1187
1334	8275510971	3E2.7E2.13.19.17.41.109	1364	8808227056	2E4.59.71.113.1163	1394	9205801010	2.5.7E3.109.24623	1424	9881488304	2E4.29.47.109.4157
R9 32	8978525829	3E2.7E2.13.19.139.593	R9 43	8962421264	2E4.53.227.46559	R9 X	10296406990	2.5.37.53.191.2749	R9 42	10535954896	2E4.5279.124739
1335	8279312030	2.5.11.37.881.2309	1365	8834761364	2E2.11.13.83.379.491	1395	9225491168	2E5.83.151.23003	1425	9883587230	2.5.11.47.191.10009
R9 X	8443831330	2.5.11E2.1187.5879	R9 55	9633895276	2E2.23.37.97.163.179	R9 33	92785858368	2E5.113.251.10223	R9 33	10042879330	2.5.11.127.571.1259
1336	8283367504	2E4.17.1439.21163	1366	8850661358	2.7E2.19.11.601.719	1396	9251688032	2E5.67.179.24107	1426	9958985128	2E3.19.103.197.3229
R9 33	8723229776	2E4.263.443.4679	R9 X	8937716242	2.7.19.13.89.113.257	R9 33	9338472928	2E5.101.1229.2351	R9 33	9994662872	2E3.19.113.659.883
1337	8293896650	2.5E2.13.89.307.467	1367	8851379072	2E7.29.433.5507	1397	9257732715	3.5.7.11.347.23099	1427	9967523980	2E2.257.5.17.37.3083
R9 X	8596897270	2.5.13.131.181.2789	R9 X	9435731728	2E4.3467.170099	L1 22	9263662485	3.5.7.11.449.17063	R9 42	12890541236	2E2.257.107.117191
1338	8307557128	2E3.269.13.23.12911	1368	8894283788	2E2.13.17.113.269.331	1398	9262239250	2.5E3.11.1783.1889			
R9 32	9263092472	2E3.269.127.33893	R9 54	9131961652	2E2.11.41.107.47309	R9 X	9673564910	2.5.17.47.181.6689			
1339	8315723650	2.5E2.31.13.139.2969	1369	8902642875	3.5E3.7.17.199499	1399	9271316500	2E2.5E3.53.271.1291			
W1 32	9008167550	2.5E2.31.659.8819	L1 23	9023629125	3.5E3.7.29.113.1049	R9 X	11451453932	2E2.47.101.683.883			
1340	8348580350	2.5E2.11.3163.4799	1370	89244047490	2.5.17.19.521.5303	1400	9286443650	2.5E2.11.59.419.683			
L1 33	8600334850	2.5E2.17.2239.4519	R9 X	9017050750	2.5E3.17.271.7829	R9 44	9949825150	2.5E2.53.113.149.223			
1341	8367278048	2E5.59.79.56099	1371	8935581375	3E2.5E3.7.53.79.271	1401	9294561770	2.5.13.29.53.181.257			
L1 32	8597361952	2E5.439.611999	R9 X	10128267585	3E2.5.19.47.103.2447	R9 42	9874755670	2.5.13.701.108359			
1342	8376676490	2.7.5.13.19E2.43.593	1372	8952142815	3E3.5.7.11.53.16249	1402	9303632390	2.5.13.29.113.21839			
R9 X	11698280566	2.7.967.864107	R9 43	11265457185	3E3.5.179.311.1499	R9 33	9518953210	2.5.13.59.359.3457			
1343	8452751584	2E5.59.1511.2963	1373	90060679970	2.5.11.41.683.2909	1403	93070840630	2.11.5.43.313.6287			
R9 33	8487575456	2E5.79.1481.2267	R9 44	9096591710	2.5.17.37.71.20369	R9 44	9457161098	2.11.7.17.523.6907			
1344	8455838230	2.7.5.97.911.1367	1374	8971549180	2E2.5.11.2963.13763	1404	944815064	2E3.13.59.659.2311			
R9 X	9150518762	2.7.11E2.83.151.431	R9 X	11589884804	2E2.151.211E2.431	R9 44	9881776936	2E3.67.79.109.2141			
1345	8459517832	2E3.17E3.31.53.131	1375	8975660265	3E2.5.13.11.47.59.503	1405	9357224877	3E2.7E3.13.11E2.41.47			
R9 X	9400398968	2E3.79.2087.7127	R6 43	10045057815	3E2.5.13.107.383.419	R9 X	10162493523	3E5.7E3.13.83.113			
1346	8467262505	3E4.5.13E2.17.19.383	1376	8990017384	2E3.17.59.1120391	1406	9374110636	2E2.11.19.53.83.2549			
R9 X	9899027415	3E4.5.31.487.1619	R9 34	9160333016	2E3.37.53.103.5669	R9 54	10058113364	2E2.13.47.269.15299			
1347	8490604005	3E3.5.13.19.89.2861	1377	8996364572	2E2.17.29.13.89.3943	1407	9408690824	2E3.13.41.59.149.251			
R9 43	8818771995	3E3.5.11.83.71549	R9 32	9788118628	2E2.17.29.1019.4871	R9 53	10595069176	2E3.167.1259.6299			
1348	8491739828	2E2.13.11E2.103.13103	1378	90406915928	2E3.17.59.317.3541	1408	9449054312	2E3.19.71.139.6299			
R9 X	9271203916	2E2.13.83.227.9463	R9 43	9240051272	2E3.19.1931.31481	R9 44	9602145688	2E3.29.59.179.3919			
1349	8502526305	3E2.7E2.13.5.47.6311	1379	9008575485	3.5.7.13.17.23.16879	1409	9490622048	2E5.61.4861999			
R9 X	10355911839	3E2.7.13.53.227.1051	R9 43	10592750595	3.5.7.127.269.2953	L1 X	9500349952	2E9.4079.4549			
1350	8508118180	2E2.5.17.37.307.2203	1380	9018517725	3E4.5E2.7.349.1823	1410	9535950765	3E2.5.11.23.31.41.659			
R9 53	10993367516	2E2.131.167.125627	R9 X	10138589475	3.5E2.7.19311599	R9 43	10390515795	3E2.5.11.127.197.839			

## Appendix II

The first 1427 APs ordered according  
to the various occurring types

AMICABLE PAIRS OF TYPE (2,1):

1 220 2E2.5.11  
L1 21 284 2E2.71  
8 17296 2E4.23.47  
L1 21 18416 2E4.1151  
9 63020 2E2.23.5.137  
L1 21 76084 2E2.23.827  
12 69615 3E2.7.13.5.17  
L1 21 87633 3E2.7.13.107  
15 122265 3E2.5.13.11.19  
L1 21 139815 3E2.5.13.239  
46 1175265 3E2.7E2.13.5.41  
L1 21 1438983 3E2.7E2.13.251  
104 9363584 2E7.191.383  
L1 21 9437056 2E7.73727  
117 11498355 3E4.5.11.29.89  
L1 21 12024045 3E4.5.11.2699  
162 31536855 3E2.5.7.53.1889  
L1 21 32148585 3E2.5.7.102059  
291 175032884 2E2.13.17.389.509  
L1 21 175826716 2E2.13.17.198899  
297 183408615 3E2.5.13.19.29.569  
L1 21 190055385 3E2.5.13.19.17099  
303 196421715 3E2.5.19.37.7.887  
L1 21 224703405 3E2.5.19.37.7103  
460 536637465 3E2.7E2.13.97.5.193  
L1 21 646745463 3E2.7E2.13.97.1163  
629 1191953763 3E2.7E2.11.13.41.461  
L1 21 1223611389 3E2.7E2.11.13.19403  
640 1225052829 3E4.7.11.29.13.521  
L1 21 1321639011 3E4.7.11.29.7307  
792 2172649216 2E8.257.33023  
L1 21 2181168896 2E8.8520191  
888 2935281375 3E3.5E3.13.149.449  
L1 21 2961518625 3E3.5E3.13.67499  
1030 4149106335 3E4.5.11E3.43.179  
L1 21 4268776545 3E4.5.11E3.7919  
1191 6066248175 3E2.5E2.13.31.149.449  
L1 21 6120471825 3E2.5E2.13.31.67499  
1219 6370495978 2.7E2.19.23.11.13523  
L1 21 6950103062 2.7E2.19.23.162287

TOTAL NUMBER: 20

AMICABLE PAIRS OF TYPE (3,1):

86 6955216 2E4.19.137.167  
L1 31 7418864 2E4.463679  
151 23358248 2E3.37.23.47.73  
L1 31 25233112 2E3.37.85247  
164 32205616 2E4.17.167.709  
L1 31 34352624 2E4.2147039  
196 52695376 2E4.17.151.1283  
L1 31 56208368 2E4.3513023  
270 147366765 3E2.7E2.13.5.53.97  
L1 31 182028483 3E2.7E2.13.31751  
312 205843365 3E2.7E2.13.5.43.167  
L1 31 254264283 3E2.7E2.13.44351  
390 347263216 2E4.17.137.9319  
L1 31 370414064 2E4.23150879  
446 492275992 2E3.131.13.23.1571  
R9 31 553544168 2E3.131.528191  
648 1254255550 2.5E2.23.19.137.419  
R9 31 1333078850 2.5E2.23.1159199  
661 1309651310 2.5.11.29.571.719  
R9 31 1359071890 2.5.11.12355199  
753 1957374968 2E3.31.17.107.4339  
L1 31 2092365832 2E3.31.8436959  
782 2115211995 3E3.5.13.17.31.2287  
R9 31 2312891685 3E3.5.13.1317887  
979 3693013664 2E5.4.131.21487  
L1 31 3812143072 2E5.119129471  
1009 3986534090 2.5.929.7.11.5573  
L1 31 4971106870 2.5.929.535103  
1228 6562770525 3E3.5E2.31.17.19.971  
R9 31 7322055075 3E3.5E2.31.349919  
1300 7696871576 2E3.19.53.127.7523  
R9 31 7904894824 2E3.19.52005887

TOTAL NUMBER: 16

AMICABLE PAIRS OF TYPE (4,1):

779 2099442345 3.5.7.11.13.37.3779  
L1 41 2533809495 3.5.7.24131519

TOTAL NUMBER: 1

AMICABLE PAIRS OF TYPE (2,2):

3 2620 2E2.5.131  
L1 22 2924 2E2.17.43  
4 5020 2E2.5.251  
L1 22 5564 2E2.13.107  
6 10744 2E3.17.79  
L1 22 10856 2E3.23.59  
10 66928 2E4.47.89  
L1 22 66992 2E4.53.79  
11 67095 3E3.5.7.71  
L1 22 71145 3E3.5.17.31  
19 171856 2E4.23.467  
L1 22 176336 2E4.103.107  
20 176272 2E4.23.479  
L1 22 180848 2E4.89.127  
22 196724 2E2.11.17.263  
L1 22 202444 2E2.11.43.107  
27 437456 2E4.19.1439  
L1 22 455344 2E4.149.191  
29 503056 2E4.23.1367  
L1 22 514736 2E4.53.607  
30 522405 3E2.5.13.19.47  
L1 22 525915 3E2.5.13.29.31  
44 1154450 2.5E2.11.2099  
L1 22 1189150 2.5E2.17.1399  
48 1280565 3E2.5.13.11.199  
L1 22 1340235 3E2.5.13.29.79  
50 1358595 3E2.5.19.7.227  
L1 22 1486845 3E2.5.19.37.47  
51 1392368 2E4.17.5119  
L1 22 1464592 2E4.239.383  
57 2082464 2E5.59.1103  
L1 22 2090656 2E5.79.827  
63 2802416 2E4.17.10303  
L1 22 2947216 2E4.167.1103  
85 6377175 3E2.5E2.7.4049  
L1 22 6680025 3E2.5E2.11.2699  
87 6993610 2.5.13.23.2339  
L1 22 7158710 2.5.13.53.1039  
92 7677248 2E6.139.863  
L1 22 7684672 2E6.167.719  
100 9071685 3E2.5.31.7.929  
L1 22 9498555 3E2.5.31.11.619  
101 9199496 2E3.29.19.2087  
L1 22 9592504 2E3.29.173.239  
109 10254970 2.5.11.53.1759  
L1 22 10273670 2.5.11.59.1583  
111 10572550 2.5E2.31.19.359  
L1 22 10854650 2.5E2.31.47.149  
125 13921528 2E3.19.67.1367  
L1 22 13985672 2E3.19.101.911  
130 15002464 2E5.37.12671  
L1 22 15334304 2E5.227.2111  
139 17908064 2E5.53.10559  
L1 22 18017056 2E5.79.7127  
149 22508145 3E3.5.11.23.659  
L1 22 23111055 3E3.5.11.79.197  
197 56055872 2E6.79.11087  
L1 22 56598208 2E6.383.2309

204 66595130 2.5.31.7.30689  
L1 22 74824390 2.5.31.59.4091  
230 90437150 2.5E2.23.19.4139  
L1 22 94372450 2.5E2.23.137.599  
233 95629904 2E4.67.37.2411  
L1 22 97580944 2E4.67.227.401  
236 97041735 3E2.5.7.71.4339  
L1 22 97945785 3E2.5.7.239.1301  
242 109410345 3E4.5.11.41.599  
L1 22 110132055 3E4.5.11.59.419  
254 131483835 3E2.5.7.71.5879  
L1 22 132692805 3E2.5.7.223.1889  
260 136549413 3E2.7.11.13.23.659  
L1 22 140207067 3E2.7.11.13.79.197  
337 256948065 3E3.5.11.23.7523  
L1 22 263110815 3E3.5.11.53.3343  
341 265192208 2E4.131.23.5501  
L1 22 275148208 2E4.131.251.523  
369 305363984 2E4.43.89.4987  
L1 22 306962896 2E4.43.173.2579  
478 595858064 2E4.37.179.5623  
L1 22 596654896 2E4.37.239.4217  
495 651016665 3E2.5.13.19.37.1583  
L1 22 663576615 3E2.5.13.19.227.263  
503 666030256 2E4.331.19.6619  
L1 22 696630544 2E4.331.199.661  
520 749380864 2E8.383.7643  
L1 22 750555392 2E8.1567.1871  
528 766292835 3.5.7.11.503.1319  
L1 22 766512285 3.5.7.11.769.863  
530 770805945 3E2.7.13.41.5.4591  
L1 22 914053959 3E2.7.13.41.163.167  
556 902335744 2E8.383.9203  
L1 22 903709952 2E8.1151.3067  
641 1237888448 2E6.73.264959  
L1 22 1252205632 2E6.479.40847  
689 1525222575 3E3.5E2.17.23.5779  
L1 22 1571007825 3E3.5E2.17.79.1733  
695 1558818261 3E2.7.11.13.23.7523  
L1 22 1596205611 3E2.7.11.13.53.3343  
708 1666611045 3E4.5.11E2.71.479  
L1 22 1670433435 3E4.5.11E2.89.383  
718 1750776704 2E7.137.99839  
L1 22 1762592896 2E7.2879.4783  
729 1786492785 3.5.7.11.293.5279  
L1 22 1790052495 3.5.7.11.1231.1259  
755 1974754485 3E4.5.11E2.59.683  
L1 22 1987985835 3E4.5.11E2.113.359  
787 2152573605 3E2.7.13.37.5.14207  
L1 22 2564027739 3E2.7.13.37.191.443  
994 3865930695 3E2.5.11.29.43.6263  
L1 22 3873366585 3E2.5.11.29.47.5741  
1031 4150593232 2E4.43.61.98899  
L1 22 4213181968 2E4.43.859.7129  
1052 4377991936 2E8.293.58367  
L1 22 4390866176 2E8.3583.4787  
1057 4429428675 3.5E2.7.19.167.2659  
L1 22 4436670525 3.5E2.7.19.239.1861  
1081 4796703664 2E4.43.67.104059  
L1 22 4855069456 2E4.43.373.18919

1090 4893008692 2E2.11.109.13.78479  
 L1 22 5259164108 2E2.11.109.839.1307  
 1183 5983596512 2E5.79.227.10427  
 L1 22 5999426848 2E5.79.631.3761  
 1199 6143533695 3E4.5.13.17.68639  
 L1 22 6414291585 3E4.5.13.71.17159  
 1224 6478496595 3E2.5.17.19.23.19379  
 L1 22 6582073005 3E2.5.17.19.37.12239  
 1236 6722173575 3E2.5E2.13E2.17.10399  
 L1 22 7083639225 3E2.5E2.13E2.311.599  
 1259 7074650624 2E9.947.14591  
 L1 22 7076729344 2E9.1367.10111  
 1397 9257732715 3.5.7.11.347.23099  
 L1 22 9263662485 3.5.7.11.449.17863  
 1418 9834780285 3E2.5.11.19.139.7523  
 L1 22 9884118915 3E2.5.11.19.569.1847

TOTAL NUMBER: 67

AMICABLE PAIRS OF TYPE (3,2):

14 100485 3E2.5.7.11.29  
 L1 32 124155 3E2.5.31.89  
 18 142310 2.5.7.19.107  
 L1 32 168730 2.5.47.359  
 21 185368 2E3.17.29.47  
 L1 32 203432 2E3.59.431  
 24 308620 2E2.5.13.1187  
 L1 32 389924 2E2.43.2267  
 26 356408 2E3.13.23.149  
 L1 32 399592 2E3.199.251  
 31 600392 2E3.13.23.251  
 L1 32 669688 2E3.97.863  
 32 609928 2E3.11.29.239  
 L1 32 686072 2E3.191.449  
 33 624184 2E3.11.41.173  
 L1 32 691256 2E3.71.1217  
 34 635624 2E3.11.31.233  
 L1 32 712216 2E3.127.701  
 35 643336 2E3.29.47.59  
 L1 32 652664 2E3.17.4799  
 37 726104 2E3.17.19.281  
 L1 32 796696 2E3.53.1879  
 40 988216 2E3.11.59.173  
 L1 32 980984 2E3.47.2609  
 41 947835 3E3.5.7.17.59  
 L1 32 1125765 3E3.5.31.269  
 42 998104 2E3.17.41.179  
 L1 32 1043096 2E3.23.5669  
 45 1156870 2.5.11.13.809  
 L1 32 1292570 2.5.19.6803  
 59 2652728 2E3.13.23.1109  
 L1 32 2941672 2E3.71.5179  
 60 2723792 2E4.37.43.107  
 L1 32 2874064 2E4.263.683  
 62 2739704 2E3.11.163.191  
 L1 32 2928136 2E3.31.11807  
 65 3276856 2E3.11.23.1619  
 L1 32 3721544 2E3.647.719  
 67 3786904 2E3.11.23.1871  
 L1 32 4300136 2E3.467.1151  
 68 3805264 2E4.29.59.139  
 L1 32 4006736 2E4.179.1399  
 76 5147032 2E3.11.23.2543  
 L1 32 5843048 2E3.383.1907  
 81 5726072 2E3.11.31.2099  
 L1 32 6369928 2E3.79.10079  
 91 7577350 2.5E2.11.23.599  
 L1 32 8493050 2.5E2.59.2879  
 98 8754130 2.5.7.11.11369  
 L1 32 10893230 2.5.757.1439  
 114 10992735 3E2.5.13.19.23.43  
 L1 32 12070305 3E2.5.13.47.439  
 118 11545616 2E4.19.163.233  
 L1 32 12247504 2E4.491.1559  
 121 12397552 2E4.23.59.571  
 L1 32 13136528 2E4.359.2287  
 129 14654150 2.7E2.7.149.281  
 L1 32 16817050 2.5E2.179.1879

134 16871582 2.7E2.19.13.17.41  
 L1 32 19325698 2.7E2.19.97.107  
 137 17754165 3E2.5.13.11.31.89  
 L1 32 19985355 3E2.5.13.127.269  
 138 17844255 3E2.5.13.11.47.59  
 L1 32 19895265 3E2.5.13.71.479  
 147 22227075 3E3.5E2.13.17.149  
 L1 32 24644925 3E3.5E2.29.1259  
 156 25966832 2E4.29.191.293  
 L1 32 26529808 2E4.47.35279  
 160 30724694 2.7.13.11.103.149  
 L1 32 32174506 2.7.13.17.10399  
 168 34256222 2.7.11.13.71.241  
 L1 32 35997346 2.7.11.23.10163  
 172 35361326 2.7.13.11.17.1039  
 L1 32 40117714 2.7.13.53.4159  
 173 35373195 3E2.5.13.11.23.239  
 L1 32 40105845 3E2.5.13.179.383  
 175 35472592 2E4.47.1097  
 L1 32 36415664 2E4.53.42943  
 176 37363095 3E2.7.11.5.41.263  
 L1 32 45663849 3E2.7.11.131.503  
 178 37848915 3E2.5.13.23.29.97  
 L1 32 39202605 3E2.5.13.19.3527  
 181 38663950 2.5E2.13.17.3499  
 L1 32 43362050 2.5E2.59.14699  
 200 58580540 2E2.23.5.347.367  
 L1 32 70507972 2E2.23.521.1471  
 203 63717615 3E2.5.13.17.43.149  
 L1 32 66011985 3E2.5.13.19.5939  
 213 74055952 2E4.23.61.3299  
 L1 32 78166448 2E4.197.24799  
 216 75171808 2E5.53.127.349  
 L1 32 77237792 2E5.479.5039  
 222 82633005 3E2.7.13.5.17.1187  
 L1 32 104177619 3E2.7.13.131.971  
 229 89477984 2E5.59.83.571  
 L1 32 92143456 2E5.1637.1759  
 232 93837808 2E4.19.83.3719  
 L1 32 99899792 2E4.1399.4463  
 234 95791430 2.7.17.5.101.797  
 L1 32 115187002 2.7.17.113.4283  
 237 102023145 3E4.7E2.5.53.97  
 L1 32 116970399 3E4.7E2.13.2267  
 241 108734050 2.5E2.31.29.41.59  
 L1 32 116251550 2.5E2.31.179.419  
 243 110960710 2.5.67.7.59.401  
 L1 32 125222330 2.5.67.31.6029  
 257 133768816 2E4.19.131.3359  
 L1 32 141213584 2E4.199.44351  
 268 145040288 2E5.41.227.487  
 L1 32 149364256 2E5.1063.4391  
 271 148077644 2E2.13.11.83.3119  
 L1 32 160128436 2E2.13.47.65519  
 276 156226856 2E3.31.23.61.449  
 L1 32 165181144 2E3.31.199.3347  
 284 168930032 2E4.23.47.9767  
 L1 32 179904784 2E4.1583.7103  
 287 169652512 2E5.71.89.839  
 L1 32 173269088 2E5.191.28349

290 172271385 3E2.5.13.11.19.1409  
 L1 32 197261415 3E2.5.13.449.751  
 292 176632390 2.5.11.43.107.349  
 W1 32 182618810 2.5.11.719.2309  
 320 223878416 2E4.37.79.4787  
 L1 32 227342704 2E4.41.346559  
 321 224888895 3E2.7.11.5.41.1583  
 L1 32 273272769 3E2.7.11.83.4751  
 324 231111392 2E5.109.173.383  
 W1 32 231923488 2E5.71.102079  
 325 238162815 3E3.5.23.11.19.367  
 L1 32 270560385 3E3.5.23.79.1103  
 327 242126704 2E4.23.47.13999  
 L1 32 257841296 2E4.1399.11519  
 334 252940545 3E2.5.13.11.23.1709  
 W1 32 284847615 3E2.5.13.89.5471  
 335 253703776 2E5.59.83.1619  
 L1 32 260678624 2E5.449.18143  
 336 256755056 2E4.19.79.10691  
 L1 32 273568144 2E4.2591.6599  
 340 264764630 2.5.17.13.47.2549  
 L1 32 290441770 2.5.17.359.4759  
 344 270208672 2E5.59.167.857  
 L1 32 274655648 2E5.131.65519  
 346 271629728 2E5.37.383.599  
 L1 32 279947872 2E5.1709.5119  
 349 274893410 2.5.11.43.89.653  
 W1 32 284512030 2.5.11.1187.2179  
 350 275304590 2.5.11.61.89.461  
 W1 32 281534770 2.5.11.139.18413  
 352 276339808 2E5.97.127.701  
 L1 32 278431136 2E5.83.104831  
 359 291679245 3E3.5.29.11.13.521  
 R9 32 339731955 3E3.5.29.107.811  
 360 291974824 2E3.19.89.113.191  
 R9 32 299001176 2E3.19.1367.1439  
 370 305911606 2.7E2.11.13.83.263  
 R9 32 331160522 2.7E2.11.97.3167  
 371 308939936 2E5.37.311.839  
 W1 32 318479584 2E5.2393.4159  
 373 311913855 3E3.5.11.41.47.109  
 W1 32 326754945 3E3.5.11.139.1583  
 380 320829728 2E5.59.109.1559  
 L1 32 327818272 2E5.199.51479  
 383 330811850 2.5E2.31.19.47.239  
 W1 32 354858550 2.5E2.31.179.1279  
 392 348782488 2E3.31.23.47.1301  
 W1 32 371171432 2E3.31.557.2687  
 393 356775430 2.5.17.11.101.1889  
 L1 32 392753210 2.5.17.1427.1619  
 397 360172336 2E4.17.149.8887  
 L1 32 383753264 2E4.2221.10799  
 398 360759652 2E2.11.17.29.16631  
 L1 32 393667868 2E2.11.263.34019  
 406 377141350 2.5E2.31.23.71.149  
 W1 32 394237850 2.5E2.31.53.4799  
 408 385465395 3.5.7.23.17.41.229  
 L1 32 415773645 3.5.7.23.107.1609  
 410 391548675 3.5E2.7.17.19.2309  
 L1 32 433398525 3.5E2.7.139.5939







1002 3940697128 2E3.19.53.163.3001  
R9 32 4035016472 2E3.19.683.38867  
1015 4032465344 2E6.107.191.3083  
W1 32 4089162304 2E6.1151.55511  
1033 4161910012 2E2.53.211.13.17.421  
L1 32 4360072772 2E2.53.211.11.8861  
1039 4261080915 3E2.7E2.13.5.43.3457  
R3 32 5209468173 3E2.7E2.13.227.4003  
1048 4346372745 3E2.11.13.17.5.67.593  
R9 32 5180969079 3E2.11.13.17.43.5507  
1049 4355468325 3E2.5E2.13.19.109.719  
R9 32 4581459675 3E2.5E2.13.89.17599  
1050 4373598075 3.5E2.11.7.17.44549  
W3 32 5172219525 3.5E2.11.43.145799  
1056 4416880923 3E2.7E2.13.19.23.41.43  
R2 32 4785272037 3E2.7E2.13.19.197.223  
1058 4458625504 2E5.37.269.13999  
L1 32 4590694496 2E5.797.1799999  
1065 4582247428 2E2.11.29.79.131.347  
R9 32 4678450172 2E2.11.29.463.7919  
1076 4754422208 2E6.157.269.1759  
R9 32 4780940992 2E6.197.379199  
1087 4863771495 3E3.5.11.43.59.1291  
R9 32 4959562905 3E3.5.11.47.71059  
1088 4875810975 3E2.5E2.31.7.37.2699  
R9 32 5092225825 3E2.5E2.31.449.1823  
1091 4900571656 2E3.19.71.83.5471  
R9 32 5027825144 2E3.19.2267.14591  
1116 5191917776 2E4.17.167.114299  
L1 32 5523021424 2E4.761.453599  
1121 5257013762 2.7.11.43.13.79.773  
R9 32 5728089598 2.7.11.43.839.1031  
1134 5444062533 3E2.7E2.13.19.23.41.53  
R9 32 5849488827 3E2.7E2.13.19.83.647  
1137 5454702435 3.5.7.13.43.199.467  
W1 32 5615556765 3.5.7.13.1319.3119  
1140 5497064685 3E2.5.7.83.167.1259  
R9 32 5598354195 3E2.5.7.3527.5039  
1142 5502767650 2.5E2.19.37.89.1759  
W1 32 5692944350 2.5E2.19.227.26399  
1145 5552366085 3E2.5.7.79.347.643  
W1 32 5635304955 3E2.5.7.463.38639  
1149 5579526590 2.5.11E2.89.197.263  
R9 32 5682998530 2.5.11E2.659.7127  
1158 5697735225 3.5E2.7.13.167.4999  
L1 32 5968184775 3.5E2.7.29.391999  
1181 5939023970 2.5.11.29.383.4861  
W1 32 6159187870 2.5.11.4159.13463  
1193 6082113015 3E4.5.11.29.179.263  
R9 32 6337714185 3E4.5.11.593.2399  
1197 6108334785 3E2.5.7.83.167.1399  
W1 32 6219908415 3E2.5.7.2239.8819  
1202 6158708048 2E4.17.811.27919  
L1 32 6491732272 2E4.173.2345279  
1212 6284451608 2E3.17.113.191.2141  
W1 32 6374254312 2E3.17.4787.9791  
1215 6307360510 2.5.11.29.461.4289  
W1 32 6535869890 2.5.11.1451.40949  
1226 6534418330 2.5.11.29.1319.1553  
W1 32 6757876070 2.5.11.599.102563  
1233 6692989624 2E3.17.101.293.1663  
W1 32 6780019016 2E3.17.1087.45863  
1234 6716127352 2E3.53.11.971.1483  
W1 32 7304467208 2E3.53.211.81647  
1239 6752047995 3E2.7.11.5.1151.1693  
W1 32 7860694149 3E2.7.11.31.365903  
1245 7890022528 2E6.89.239.4987  
W1 32 6894059072 2E6.8599.12527  
1270 7278278085 3E4.5.13.17.233.349  
R9 32 7705490715 3E4.5.13.139.10529  
1271 7307312410 2.5.19.37.29.73.491  
L1 32 7634530790 2.5.19.37.179.6067  
1286 7504585408 2E6.79.491.3023  
W1 32 7611543872 2E6.1279.92987  
1294 7593626504 2E3.17.107.373.1399  
W1 32 7674549496 2E3.17.479.117809  
1296 7631131095 3E4.5.59.7.43.1061  
R9 32 8652642345 3E4.5.59.31.11681  
1298 7689014456 2E3.17.101.389.1439  
W1 32 7777449544 2E3.17.599.95471  
1299 7693403445 3E4.5.13.139.10529  
R9 32 9334667979 2E7.13.47.281.863  
1304 7779344980 2E2.137.5.11.258107  
R9 32 10172582636 2E2.137.941.19727  
1306 7787330704 2E4.53.59.317.491  
W1 32 7927109936 2E4.53.239.39113  
1310 7877348704 2E5.61.89.45343  
L1 32 8062881056 2E5.239.1054247  
1313 7923037772 2E2.19.37.13.73.2969  
R9 32 8446176628 2E2.19.37.41.73259  
1315 7941474368 2E6.79.373.4211  
L1 32 8063451712 2E6.4679.26927  
1324 8135645416 2E3.19.41.911.1433  
W1 32 8342735384 2E3.19.1367.40151  
1331 8260626368 2E6.103.211.5939  
L1 32 8371943872 2E6.857.152639  
1332 8263107788 2E2.23.47.13.17.8647  
L1 32 9310735156 2E2.23.47.83.25943  
1334 8275510971 3E2.7E2.13.19.17.41.109  
R9 32 8978525829 3E2.7E2.13.19.139.593  
1338 8307557128 2E3.269.13.23.12911  
R9 32 9263082472 2E3.269.127.33893  
1339 8315723650 2.5E2.31.13.139.2969  
W1 32 9008167550 2.5E2.31.659.8819  
1341 8367278048 2E5.59.79.56099  
L1 32 8597361952 2E5.439.611999  
1351 8508405465 3E2.5.7.79.181.1889  
R3 32 8663076135 3E2.5.7.1871.14699  
1358 8645093145 3E5.5.13.23.53.449  
R9 32 9186830055 3E5.5.13.599.971  
1377 8996364572 2E2.17.29.13.89.3943  
R9 32 9788118628 2E2.17.29.1019.4871  
1382 9054843104 2E5.67.383.11027  
L1 32 9086834464 2E5.71.3999487  
1383 9070949152 2E5.53.83.64439  
R9 32 9343940768 2E5.971.300719  
1387 9097736655 3.5.7E2.19.47.83.167  
R9 32 9435270705 3.5.7E2.19.587.1151  
1413 9616775744 2E6.83.317.5711  
W1 32 9760750144 2E6.2351.64871  
1414 9703910930 2.7.17.5.47.173501  
L1 32 11882513902 2.7.17.1223.40823  
1416 9766111856 2E4.17.137.262079  
L1 32 10415096464 2E4.12959.50231

TOTAL NUMBER: 271

AMICABLE PAIRS OF TYPE (4,2):

55 1669910 2.5.11.17.19.47  
L1 42 2062570 2.5.239.863  
64 2803580 2E2.5.13.41.263  
L1 42 3716164 2E2.503.1847  
73 4532710 2.7.5.13.17.293  
L1 42 6135962 2.7.71.6173  
83 5864660 2E2.5.17.47.367  
L1 42 7489324 2E2.53.35327  
122 12707704 2E3.17.41.43.53  
L1 42 14236136 2E3.107.16631  
144 20022328 2E3.17.23.37.173  
L1 42 22823432 2E3.1367.2087  
150 22608632 2E3.19.23.29.223  
L1 42 25775368 2E3.1439.2239  
171 35115795 3E3.5.11.13.17.107  
L1 42 43266285 3E3.5.53.6047  
174 35390008 2E3.19.23.53.191  
L1 42 39259592 2E3.71.69119  
207 67738268 2E2.19.13.17.37.109  
L1 42 79732132 2E2.19.263.3989  
208 6889192 2E3.13.23.83.347  
L1 42 78437288 2E3.587.16703  
218 78088504 2E3.13.31.53.457  
L1 42 88110536 2E3.167.65951  
224 84521745 3E3.5.7.11.47.173  
L1 42 107908335 3E3.5.383.2087  
298 186753688 2E3.11.41.191.271  
L1 42 208059752 2E3.83.313343  
301 190888155 3E2.5.17.19.23.571  
R9 42 194594085 3E2.5.7.617759  
310 204134385 3.5.7.13.17.19.463  
L1 42 244869135 3.5.7.383.6089  
317 214748488 2E3.17.19.41.2027  
L1 42 245201912 2E3.3041.10079  
362 306120652 2E2.17.13.23.29.509  
L1 42 347620148 2E2.17.179.28559  
394 357197302 2.7.11.17.19.43.167  
R9 42 409825258 2.7.11.863.3079  
400 362700728 2E3.13.19.173.1061  
R9 42 413400872 2E3.811.63719  
404 373305350 2.5E2.11.19.139.257  
R9 42 432893050 2.5E2.859.10079  
438 465605192 2E3.13.23.61.3191  
R9 42 531830968 2E3.6271.10601  
447 494495768 2E3.13.23.61.3389  
R9 42 564811432 2E3.5039.14011  
453 519257296 2E4.29.83.97.139  
R9 42 552549104 2E4.881.39199  
498 659084504 2E3.13.23.61.4517  
L1 42 752700136 2E3.3347.28111  
507 681709490 2.5.7.11.929.953  
L1 42 851406670 2.5.2879.29573  
519 728921270 2.5.7.11.929.1019  
L1 42 910259530 2.5.2447.37199  
552 877324936 2E3.29.47.61.1319  
R3 42 890419064 2E3.17.6547199  
569 949308932 2E2.19.11.13.113.773  
R9 42 1126001788 2E2.19.3191.4643  
574 965615992 2E3.11.23.349.1367  
R9 42 1102800008 2E3.3359.41039  
591 1016475064 2E3.11.23.349.1439  
R9 42 11608004936 2E3.2999.48383  
599 1047784504 2E3.13.23.101.4337  
R9 42 1182294536 2E3.167.884951  
614 1100526075 3E3.5E2.11.19.29.269  
R9 42 1310033925 3E3.5E2.809.2399  
667 1335474855 3E2.5.13.11.37.71.79  
R9 42 1532728665 3E2.5.13.431.6079  
688 1518524175 3.5E2.7.19.41.47.79  
R9 42 1681271025 3.5E2.7.139.23039  
711 1689026570 2.7E2.5.11.41.7643  
R9 42 2263716406 2.7E2.1567.14741  
713 1699746184 2E3.23.41.233.967  
R3 42 1725115256 2E3.17.12684671  
727 1785186728 2E3.13.17.787.1283  
R9 42 2039387032 2E3.6047.42157  
732 1812992710 2.5.17.23.29.59.271  
R9 42 1994136890 2.5.17.599.19583  
737 1860630824 2E2.19.17.691.1523  
R9 42 2125787416 2E3.9341.28447  
739 1862890150 2.5E2.11.19.89.2003  
R9 42 2162745050 2.5E2.1439.30059  
767 2037127365 3E2.7.13.5.23.43.503  
R9 42 2612381499 3E2.7.13.1511.2111  
809 2298420670 2.7.5.13.197.12821  
B4 42 2819711426 2.7.11.1847527  
814 2332981816 2E3.11.23.283.4073  
R9 42 2665327304 2E3.6983.47711  
841 2517082425 3E3.5E2.11.13.89.293  
R9 42 2995064775 3E3.5E2.587.7559  
850 2631762064 2E4.29.53.103.1039  
R9 42 2800033136 2E4.809.216319  
854 2672087608 2E3.17.29.37.18311  
L1 42 2964345992 2E3.71.5218919  
869 2796129128 2E3.13.17.887.1783  
R9 42 3192116632 2E3.1997.199807  
889 2944703025 3E3.5E2.11.17.41.569  
R9 42 3467386575 3E3.5E2.151.34019  
927 3276399555 3E2.5.13.11.29.97.181  
R9 42 3735288765 3E2.5.13.179.35671  
939 3393478725 3.5E2.7.13.47.71.149  
R9 42 3806060475 3.5E2.7.1049.6911  
962 3513278192 2E4.41.43.769.2111  
R9 42 3746257168 2E4.7919.29567  
972 3647562568 2E3.13.17.839.2459  
R9 42 4163429432 2E3.1721.302399  
980 3710119780 2E2.227.5.17.53.907  
R9 42 4741427996 2E2.227.71.73547  
1006 3963477872 2E4.41.43.71.1979  
R9 42 4203499408 2E4.359.731807  
1036 4210837424 2E4.23.109.113.929  
R9 42 4465839376 2E4.359.77479  
1042 4282854730 2.5.7.11.761.7309  
R9 42 5342485430 2.5.1087.491489  
1045 4313390445 3E2.7.13.5.23.41.1117  
R9 42 5531592339 3E2.7.13.1031.6551  
1068 4604839810 2.5.19.17.37.53.727  
R9 42 5075347070 2.5.19.151.176903

1078 4771436296 2E3.11.23.271.8699  
R9 42 5451411704 2E3.7649.89087  
1079 4784209576 2E3.19.23.29.47189  
L1 42 5408830424 2E3.197.3431999  
1095 4937340976 2E4.37.47.61.2909  
R9 42 5264327504 2E4.5471.60139  
1143 5513127795 3E2.5.17.7.29.131.271  
R9 42 6585084045 3E2.5.17.1087.7919  
1154 5619401456 2E4.29.79.83.1847  
R9 42 5929859344 2E4.191.1940399  
1174 5885347545 3E3.5.7.11.257.2203  
R9 42 7215933735 3E3.5.47.1137263  
1192 6067647728 2E4.29.41.313.1019  
R9 42 6442489072 2E4.449.896783  
1205 6200951625 3E3.5E3.11.19.59.149  
R9 42 7277448375 3E3.5E3.719.2999  
1217 6353438175 3E3.5E2.7.29.199.233  
R9 42 7574241825 3E3.5E2.1151.9749  
1220 6386741384 2E3.37.23.71.73.181  
R3 42 6878699896 2E3.37.701.33151  
1230 6589526450 2.5E2.13.23.29.15199  
R9 42 7659561550 2.5E2.11969.12799  
1252 6908106488 2E3.19.23.223.8861  
L1 42 7384527112 2E3.31.29776319  
1256 6999092624 2E4.19.149.191.809  
R9 42 7464267376 2E4.20249.23039  
1264 7131782710 2.5.17.13.89.101.359  
R9 42 7858790090 2.5.17.1223.37799  
1279 7390033144 2E3.13.17.491.8513  
R9 42 8443963496 2E3.11351.92987  
1317 7983560655 3E2.5.17.7.29.101.509  
R9 42 9545098545 3E2.5.17.2447.5099  
1401 9294561770 2.5.13.29.53.181.257  
R9 42 9874755670 2.5.13.701.108359  
1424 9881488304 2E4.29.47.109.4157  
R9 42 10535954896 2E4.5279.124739  
1427 9967523980 2E2.257.5.17.37.3083  
R9 42 12890541236 2E2.257.107.117191

TOTAL NUMBER: 78

AMICABLE PAIRS OF TYPE (5,2):

323 227443340 2E2.5.17.43.47.331  
R9 52 302651764 2E2.1187.63743  
604 1067740245 3E3.5.11.13.19.41.71  
R9 52 1370813355 3E3.5.2687.3779  
776 2084019740 2E2.5.11.107.223.397  
R9 52 2768701924 2E2.647.1069823  
921 3202734465 3E3.5.7.17.31.59.109  
R9 52 4096337535 3E3.5.439.69119  
969 3604491345 3.5.7.13.23.29.37.107  
R9 52 4338226095 3.5.7.809.51071  
1316 7961973140 2E2.5.11.67.727.743  
R9 52 10600838764 2E2.1637.1618943

TOTAL NUMBER: 6

AMICABLE PAIRS OF TYPE (2,3):

54 1511930 2.5.7.21599  
L1 23 1598470 2.5.19.47.179  
70 4246130 2.5.7.60659  
L1 23 4488910 2.5.23.29.673  
145 20308995 3E3.5.7.21491  
L1 23 20955645 3E3.5.17.23.397  
193 48641584 2E4.29.104831  
L1 23 48852176 2E4.47.167.389  
221 80422335 3E3.5.7.85103  
L1 23 82977345 3E3.5.11.71.787  
235 96304845 3.5.7E2.13.10079  
R9 42 96747315 3.5.7E2.23.59.97  
239 103034776 2E3.13.990719  
L1 23 105016424 2E3.29.47.9631  
322 226540432 2E4.23.615599  
L1 23 231465968 2E4.59.359.683  
329 245618415 3E2.5.19.7.41039  
W1 23 266560785 3E2.5.19.31.89.113  
415 397287345 3.5.7E2.13.41579  
W1 23 399052815 3.5.7E2.17.109.293  
588 1002372250 2.5E3.11.364499  
L1 23 1044659750 2.5E3.29.89.1619  
624 1141149196 2E2.11.19.1365011  
W1 23 1152070964 2E2.11.43.53.11489  
707 1662154065 3E2.5.13.11.258299  
L1 23 1722609135 3E2.5.13.29.59.1721  
865 2766512710 2.5.13.29.733823  
W1 23 2781196730 2.5.13.53.103.3919  
987 3787638940 2E2.37.5.5118431  
W1 23 4381378532 2E2.37.43.73.9431  
1018 4053148088 2E3.79.11.583019  
W1 23 4342339912 2E3.79.107.157.409  
1072 4671243424 2E5.43.3394799  
W1 23 4739142176 2E5.229.263.2459  
1210 6262961888 2E5.41.4773599  
W1 23 6367983712 2E5.179.1019.1091  
1267 7194869650 2.5E2.19.43.176129  
W1 23 7219609550 2.5E2.19.109.113.617  
1369 8902642875 3.5E3.7.17.199499  
L1 23 9023629125 3.5E3.7.29.113.1049  
1412 9581473976 2E3.19.59.1068407  
W1 23 9649870024 2E3.19.151.593.709

TOTAL NUMBER: 21

AMICABLE PAIRS OF TYPE (3,3):

43 1077890 2.5.11.41.239  
L1 33 1099390 2.5.17.29.223  
58 2236570 2.5.7.89.359  
L1 33 2429030 2.5.23.59.179  
69 4238984 2E3.17.71.439  
L1 33 4314616 2E3.23.131.179  
75 5123090 2.5.7.163.449  
L1 33 5504110 2.5.19.59.491  
79 5385310 2.5.7.107.719  
L1 33 5812130 2.5.17.179.191  
82 5730615 3E3.5.11.17.227  
L1 33 6088905 3E3.5.23.37.53  
84 6329416 2E3.23.41.839  
L1 33 6371384 2E3.19.167.251  
90 7489112 2E3.17.53.1039  
L1 33 7674088 2E3.23.179.233  
95 8262136 2E3.17.79.769  
L1 33 8369864 2E3.29.43.839  
96 8619765 3.5.11.7.17.439  
L1 33 9627915 3.5.11.23.43.59  
103 9339704 2E3.11.211.503  
L1 33 9892936 2E3.47.83.317  
105 9478910 2.5.7.19.7127  
L1 33 11049730 2.5.7.11.79.197  
116 11252648 2E3.11.71.1801  
L1 33 12101272 2E3.67.107.211  
124 13813150 2.5E2.13.79.269  
L1 33 14310050 2.5E2.29.71.139  
126 14311688 2E3.17.47.2239  
L1 33 14718712 2E3.23.167.479  
131 15363832 2E3.11.71.2459  
L1 33 16517768 2E3.53.163.239  
132 15938055 3E2.5.7.19.2663  
L1 33 17308665 3E2.5.11.73.479  
133 16137628 2E2.13.23.103.131  
L1 33 16150628 2E2.13.31.43.233  
135 17041010 2.7.5.31.7853  
L1 33 19150222 2.7.13.43.2447  
136 17257695 3.5.7.13.47.269  
L1 33 17578785 3.5.7.23.29.251  
140 18056312 2E3.17.103.1289  
L1 33 18166888 2E3.19.107.1117  
143 20014808 2E3.11.79.2879  
L1 33 21457192 2E3.47.149.383  
146 21448630 2.5.7.131.2339  
L1 33 23030090 2.5.19.53.2287  
152 23389695 3E3.5.7.53.467  
L1 33 25132545 3E3.5.17.47.233  
157 26090325 3E2.5E2.17.19.359  
L1 33 26138475 3E2.5E2.11.59.179  
158 28118032 2E4.47.139.269  
L1 33 28128368 2E4.59.83.359  
159 28608424 2E3.13.139.1979  
L1 33 29603576 2E3.23.349.461  
163 31818952 2E3.11.41.8819  
L1 33 34860248 2E3.97.167.269  
167 33501825 3E2.5E2.7.89.239  
L1 33 36136575 3E2.5E2.19.79.107

169 34364912 2E4.43.199.251  
L1 33 34380688 2E4.47.131.349  
170 34765731 3E2.7.13.11.17.227  
L1 33 36939357 3E2.7.13.23.37.53  
180 38637016 2E3.11.359.1223  
L1 33 40678184 2E3.29.271.647  
182 38783992 2E3.13.37.10079  
L1 33 41654408 2E3.47.139.797  
185 44139856 2E4.29.251.379  
L1 33 44916944 2E4.83.149.227  
186 45263384 2E3.17.59.5641  
L1 33 46137016 2E3.19.433.701  
189 46521405 3E3.5.7.19.2591  
L1 33 53011395 3E3.5.31.53.239  
192 48639032 2E3.13.29.16127  
L1 33 52967368 2E3.59.293.383  
195 50997596 2E2.13.19.71.727  
L1 33 51737764 2E2.13.23.181.239  
202 63560025 3E3.5E2.17.29.191  
L1 33 65003175 3E3.5E2.23.53.79  
206 67729064 2E3.13.431.1511  
L1 33 69439576 2E3.23.107.3527  
211 72958556 2E2.11.19.197.443  
L1 33 74733604 2E2.11.53.73.439  
212 73032872 2E3.11.71.11689  
L1 33 78469528 2E3.59.83.2003  
217 75226888 2E3.11.59.14489  
L1 33 81265112 2E3.53.137.1399  
223 83135650 2.5E2.13.79.1619  
L1 33 85603550 2.5E2.19.251.359  
226 86158220 2E2.5.41.105071  
L1 33 99188788 2E2.23.43.25073  
231 91996816 2E4.29.331.599  
L1 33 93259184 2E4.79.89.829  
240 104887448 2E3.19.71.9719  
L1 33 105064552 2E3.23.47.12149  
244 114944072 2E3.17.19.44483  
R3 33 125269528 2E3.53.439.673  
248 116654896 2E4.23.359.883  
L1 33 120115664 2E4.101.239.311  
258 134312152 2E3.13.127.10169  
L1 33 139057448 2E3.23.223.3389  
262 137424188 2E2.11.19.89.1847  
R9 33 141993412 2E2.11.59.83.659  
275 155797390 2.5.7.863.2579  
L1 33 165195890 2.5.23.29.24767  
279 162936904 2E3.13.719.2179  
R9 33 166679096 2E3.19.839.1307  
281 165323696 2E4.37.97.2879  
R9 33 167155024 2E4.59.113.1567  
288 169884784 2E4.29.109.3359  
R9 33 173843216 2E4.71.199.769  
295 181088985 3.5.7.11.83.1889  
R9 33 184694055 3.5.7.13.269.503  
296 182702024 2E3.19.53.22679  
L1 33 184713976 2E3.17.719.1889  
307 201168592 2E4.29.491.883  
L1 33 203314448 2E4.67.89.2131  
318 216392216 2E3.19.53.26861  
L1 33 218772184 2E3.17.659.2441

326	238238864	2E4.41.47.7727	451	512412550	2.5E2.13.73.10799	583	991838384	2E4.23.167.16139	735	1819124752	2E4.19.593.10091
R9	33	244730224	2E4.97.137.1151	L1	33	528145850	2.5E2.19.167.3329	R9	33	1025532496	2E4.79.503.1613
328	242182930	2.5.11.19.115877	452	514439224	2E3.13.89.55579	593	1020658815	3E2.5.11.19.47.2309	736	1829456590	2.5.13.29.127.3821
L1	33	258410030	2.5.17.61.24919	L1	33	536022776	2E3.29.97.23819	R9	33	1055014785	2E2.5.11.31.197.349
338	258904646	2.7.13.11.79.1637	454	520218704	2E4.29.71.15791	596	1034955988	2E2.11.17.1049.1319	742	1888560272	2E4.29.107.38039
L1	33	269448634	2.7.13.23.59.1091	R9	33	537213616	2E4.107.167.1879	R3	33	1066676012	2E2.11.43.89.6299
339	260231192	2E3.13.659.3797	457	526271456	2E5.79.179.1163	601	1049859195	3.5.7.11.191.4759	744	1892277488	2E4.53.719.3169
L1	33	266171608	2E3.19.593.2953	R9	33	529709344	2E5.193.199.431	R9	33	1055812485	3.5.7.13.79.9791
345	271048340	2E2.5.17.797201	463	541114808	2E3.13.863.6029	603	1066176716	2E2.11.19.251.5081	752	1954734364	2E2.11.19.593.3943
L1	33	331636372	2E2.41.73.27701	L1	33	552968392	2E3.23.89.33767	R9	33	1085338804	2E2.11.29.293.2903
351	275631376	2E4.43.53.7559	467	557346712	2E3.13.397.13499	613	1093953735	3E3.5.7.89.13007	766	2033951985	3E3.5.41.13.23.1229
R9	33	281207984	2E4.83.107.1979	R9	33	570983288	2E3.19.1049.3581	L1	33	1153828665	3E3.5.11.239.3251
354	281499435	3E3.5.7.89.3347	471	573216416	2E5.79.197.1151	615	1101570165	3E3.5.17.23.41.509	770	2049829364	2E2.11.19.263.9323
L1	33	297034965	3E3.5.17.29.4463	R9	33	576387424	2E5.131.359.383	R9	33	1119255435	3E3.5.17.29.67.251
355	285627615	3.5.7E2.13.167.179	474	579980048	2E4.29.179.6983	616	1110676384	2E5.97.179.1999	772	2067555105	3E3.5.7.11.198899
R9	33	293528865	3.5.7E2.29.47.293	R9	33	589141552	2E4.79.89.5237	R9	33	1111963616	2E5.83.499.839
358	287793350	2.5E2.13.41.10799	477	586200224	2E5.79.461.503	626	1162074914	2.7.11.13.43.13499	773	2070206050	2.5E2.11.239.15749
L1	33	302793850	2.5E2.23.251.1049	R9	33	587353696	2E5.131.167.839	L1	33	1232933086	2.7.11.29.359.769
361	295824376	2E3.19.53.36721	481	601020542	3E3.5.7.647.983	630	1193945522	2.7.11.19.53.7699	774	2083300808	2E3.23.43.179.1471
L1	33	299072024	2E3.17.601.3659	L1	33	623232495	3E3.5.17.23.11807	L1	33	1201062478	2.7.11.17.149.3079
365	302424784	2E4.53.71.5023	487	625955024	2E4.29.47.28703	634	1211220868	2E2.13.11.181.11699	778	2099037232	2E4.37.89.39839
L1	33	303107888	2E4.47.107.3767	R9	33	655391536	2E4.239.367.467	R9	33	1292593532	2E2.13.41.389.1559
379	319904235	3E4.5.7.19.5939	501	664747083	3E2.7E2.13.11.83.127	642	1239061725	3E3.5E2.11.19.8783	786	2141689095	3E2.7.13.5.31.16871
R9	33	370086165	3E4.5.43.79.269	R9	33	673747893	3E2.7E2.13.17.31.223	R9	33	1375056675	3E3.5E2.47.89.487
381	323401712	2E4.23.43.2039	506	681310575	3E3.5E2.11.89.1031	644	1241180168	2E3.19.59.138401	789	2154386325	3.5E2.7.13.479.659
R3	33	332270608	2E4.101.127.1619	R9	33	700743825	3E3.5E2.17.79.773	L1	33	1250055832	2E3.17.263.34949
385	332573392	2E4.29.431.1663	509	685939088	2E4.29.503.2939	658	1292286248	2E3.11.499.29429	799	2232676016	2E4.19.2551.2879
R9	33	335955248	2E4.47.191.2339	R9	33	692097712	2E4.41.349.3023	L1	33	1356413752	2E3.29.149.39239
388	343175404	2E2.11.13.379.1583	513	698049512	2E3.17.19.270143	660	1305577305	3E3.5.19.17.79.379	802	2264629070	2.5.11.101.103.1979
R9	33	364682516	2E2.11.131.151.419	L1	33	760728088	2E3.47.1259.1607	R9	33	1320982695	3E3.5.19.31.37.449
401	364182075	3E4.5E2.17.71.149	517	705280310	2.7.37.5.307.887	662	1312909796	2E2.11.17.109.16103	804	2270966698	2.7.11.13.191.5939
R9	33	365012325	3E4.5E2.19.53.179	R9	33	791333578	2.7.37.17.73.1231	R3	33	1365507844	2E2.11.43.269.2683
402	370032676	2E2.17.13.19.22031	523	752458216	2E3.17.19.291199	663	1321560765	3E4.5.7.59.7901	808	2294183672	2E3.11.227.114847
R9	33	407256284	2E2.17.67.71.1259	L1	33	820021784	2E3.47.1091.1999	R9	33	1432128195	3E4.5.17.79.2633
407	382170512	2E4.41.83.7019	527	762662128	2E4.19.263.9539	666	1333290105	3E3.5.7.23.61343	827	2436224288	2E5.53.307.4679
R9	33	385592848	2E4.59.97.4211	R9	33	798845072	2E4.239.317.659	R3	33	1493441415	3E3.5.17.191.3407
413	395378272	2E5.103.139.863	533	788056335	3E2.5.11.17.71.1319	672	1365633296	2E4.37.107.21559	837	2498633150	2.5E2.13.149.25799
R9	33	397151648	2E5.181.191.359	R9	33	813177585	3E2.5.11.31.197.269	L1	33	1377316144	2E4.43.227.8819
417	404185672	2E3.11.1877.2447	536	807964592	2E4.29.47.37049	680	1448998330	2.5.19.13.569.1031	844	2555923990	2.5.17.23.29.22541
L1	33	423336248	2E3.31.101.16901	R9	33	845947408	2E4.199.389.683	R9	33	1515731270	2.5.19.37.251.859
423	425948050	2.5E2.11.269.2879	537	821903384	2E3.29.41.71.1217	686	1505175008	2E5.71.167.3967	851	2648872395	3E3.5.23.13.137.479
R9	33	441853550	2.5E2.19.479.971	R9	33	835551016	2E3.29.97.107.347	R9	33	1518631456	2E5.127.433.863
426	427448510	2.5.17.19.59.2243	545	855737264	2E4.23.1259.1847	690	1528753832	2E3.17.19.591623	856	2688000928	2E5.71.107.11057
R9	33	445018690	2.5.17.67.89.439	R3	33	876651856	2E4.97.107.5279	L1	33	1666015768	2E3.47.809.5477
428	429035596	2E2.11.17.43.13339	547	857161935	3E2.5.31.7.61.1439	691	1532931010	2.5.13.29.79.5147	862	2732700555	3E2.5.13.19.47.5231
R3	33	458447924	2E2.11.173.229.263	R9	33	925581105	3E2.5.31.19.47.743	R9	33	1580579390	2.5.13.107.199.571
429	430848592	2E4.29.67.13859	548	861314660	2E2.53.5.211.3851	698	1563999255	3E2.7.13.5.167.2287	863	2733105848	2E3.11.139.223439
R9	33	445657808	2E4.131.149.1427	R9	33	990788572	2E2.53.23.317.641	R9	33	1793979369	3E2.7.13.23.131.727
433	438452624	2E4.29.179.5279	550	870675856	2E4.23.313.7559	699	1574216272	2E4.19.971.5333	864	2750817650	2.5E2.7.599.13121
L1	33	445419376	2E4.47.499.1187	R9	33	895461104	2E4.83.179.3767	R9	33	1640265488	2E4.107.761.1259
434	439232624	2E4.37.53.13999	554	894012525	3E3.5E2.7.431.439	706	1626481616	2E4.23.149.29663	868	2794450516	2E2.11.13.197.24799
L1	33	451335376	2E4.89.151.2099	R9	33	991581075	3E3.5E2.43.127.269	R9	33	1684020784	2E4.107.199.4943
435	442480816	2E4.19.971.1499	562	916021964	2E2.13.11.59.27143	712	1690397588	2E2.11E2.29.83.1451	870	2807410016	2E5.47.643.2903
R9	33	461479184	2E4.179.269.599	R9	33	999258676	2E2.13.79.347.701	R9	33	1716168652	2E2.11E2.41.197.439
441	471696190	2.5.7.23.292979	568	948760928	2E5.79.263.1427	716	1728342296	2E3.19.53.214541	872	2816751938	2.7.11.13.19.74051
R9	33	540842690	2.5.37.79.18503	R9	33	951278752	2E5.109.223.1223	L1	33	1747238104	2E3.17.521.24659
445	491373104	2E4.23.107.12479	573	962951312	2E4.19.1693.1871	728	1786141665	3E3.5.7.11.171827	878	2870595525	3.5E2.7.19.41.7019
R3	33	511419856	2E4.127.389.647	L1	33	1003172848	2E4.131.307.1559	R9	33	2172775455	3E3.5.47.443.773
450	509379344	2E4.23.347.3989	579	969473384	2E3.11.67.164429	730	1793313730	2.5.31.13.479.929	882	2894107455	3E3.5.17.19.31.2141
R9	33	523679536	2E4.83.179.2203	L1	33	1043149816	2E3.53.101.24359	R9	33	1806455870	2.5.31.17.79.4339

884	2897960164	2E2.11E2.23.439.593	1019	4056852735	3E3.5.19.13.89.1367	1223	6460278688	2E5.61.199.16631	1360	8658321632	2E5.71.79.48239							
R9	33	2941867676	2E2.11E2.59.71.1451	R9	33	4216811265	3E3.5.19.29.83.683	R9	33	6532639712	2E5.139.359.4091	R9	33	8847009568	2E5.401.599.1151			
894	2978701744	2E4.19.971.10091	1035	4189882288	2E4.17.2399.6421	1225	6506173275	3.5E2.7.17.599.1217	1385	9083125275	3.5E2.7.19.139.6551	R9	33	9115709925	3.5E2.7.29.47.12739			
L2	33	3103141136	2E4.173.179.6263	R9	33	4410460112	2E4.239.569.2027	R9	33	6542991525	3.5E2.7.19.521.1259	1388	9100969376	2E5.79.113.31859	R9	33	9204512224	2E5.179.227.7079
903	3020065808	2E4.19.223.44549	1044	4312833832	2E3.29.31.521.1151	1232	6682859001	3E2.7.13.17.23.41.509	1393	9173012056	2E3.13.8689.10151	B4	33	9353372744	2E3.19.281.218907			
L1	33	3167038192	2E4.197.349.2879	R9	33	4346519768	2E3.29.47.191.2087	R9	33	6790149639	3E2.7.13.17.29.67.251	1395	9225491168	2E5.83.151.23003	R9	33	9278558368	2E5.113.251.10223
905	3034523630	2.5.23.17.19.40847	1055	4414931650	2.5E2.31.23.59.2099	1238	6742213936	2E4.29.47.309167	1396	9251688032	2E5.67.179.24107	R9	33	9338472928	2E5.101.1229.2351			
R9	33	3318157330	2.5.23.73.229.863	R9	33	4584492350	2.5E2.31.89.167.199	R9	33	7058945584	2E4.151.431.6779	1402	9303632390	2.5.13.29.113.21839	R9	33	9518953210	2.5.13.59.359.3457
906	3036257456	2E4.19.439.22751	1059	4488453968	2E4.17.2351.7019	1241	6768593968	2E4.29.2089.6983	1421	9852159848	2E3.31.23.433.3989	R9	33	10096563352	2E3.31.61.251.2659			
L1	33	3170488144	2E4.157.263.4799	R9	33	4724706352	2E4.223.701.1889	L2	33	6806206832	2E4.37.439.26189	1422	9875558210	2.5.29.7.233.20879	R9	33	11231616190	2.5.29.239.347.467
914	3123806972	2E2.11.13.431.12671	1060	4490950220	2E2.5.71.3162641	1242	6771898208	2E5.71.151.19739	1425	9883587230	2.5.11.47.191.10009	R9	33	10042879330	2.5.11.127.571.1259			
R9	33	3313974532	2E2.11.83.191.4751	L1	33	5072879188	2E2.13.3083.31643	R9	33	6838279072	2E5.113.563.3359	1426	9958985128	2E3.19.103.197.3229	R9	33	9994662872	2E3.19.113.659.883
915	3124943756	2E2.11.19.1259.2969	1067	4594486048	2E5.53.463.5851	1247	6845195390	2.5.11.53.139.8447	1482	9958985128	2E3.19.103.197.3229	TOTAL NUMBER: 280						
L1	33	3161952244	2E2.11.29.149.16631	R9	33	4643059808	2E5.173.223.3761	R9	33	6950050690	2.5.11.167.239.1583							
922	3216365570	2.5.11.47.769.809	1086	4859601232	2E4.17.2939.6079	1253	6921765752	2E3.11.79.995651										
R9	33	3250156030	2.5.11.107.461.599	R9	33	5114760368	2E4.227.599.2351	L1	33	7415623048	2E3.53.83.210719							
926	3274564293	3E3.7.11.13.17.7127	1089	4878141590	2.7E2.5.233.42727	1260	7096666610	2.5.11.53.719.1693										
R9	33	3623058747	3E3.7.11.53.131.251	R9	33	5380167562	2.7E2.11.653.7643	R9	33	7129680910	2.5.11.83.269.2903							
930	3312096496	2E4.29.661.10799	1092	4903965044	2E2.11.17.1129.5807	1261	7107900496	2E4.23.79.244493										
L1	33	3337031504	2E4.59.89.39719	R9	33	5019351436	2E2.11.29.1451.2711	L2	33	7444382384	2E4.191.281.8669							
936	3373569544	2E3.41.31.71.4673	1098	4967430490	2.5.19.11.139.17099	1262	7125887110	2.5.17.19.103.21419										
R9	33	3410834936	2E3.41.37.127.2213	R9	33	5374649510	2.5.19.113.167.1499	R9	33	7309479290	2.5.17.29.1039.1427							
938	3382872670	2.5.19.17.179.5851	1107	5088028550	2.5E2.11.499.18539	1263	7127201475	3E3.5E2.31.23.59.251										
R9	33	3442900130	2.5.19.23.461.1709	R9	33	5257291450	2.5E2.19.199.27809	R9	33	7271876925	3E3.5E2.31.53.79.83							
941	3401192925	3E2.5E2.13.41.79.359	1109	5113096443	3E2.7E2.13.17.23.2281	1274	7335940912	2E4.17.349.77279										
R9	33	3423370275	3E2.5E2.13.59.83.239	R9	33	5113841733	3E2.7E2.13.11.83.977	R9	33	7756843088	2E4.419.1049.1103							
942	3407059832	2E3.11.911.42499	1112	5156687470	2.5.11.53.419.2111	1276	7336566710	2.5.19.11.83.42293										
L1	33	3569740168	2E3.37.67.179999	R9	33	5189747090	2.5.11.131.139.2591	R9	33	8011080010	2.5.19.151.293.953							
943	3408254632	2E3.23.47.229.1721	1118	5200799264	2E5.53.1439.2131	1278	7353700965	3E3.5.13.17.103.2393										
R9	33	3435662168	2E3.23.71.409.643	R9	33	5243612896	2E5.107.491.3119	R9	33	7704367515	3E3.5.13.83.227.233							
945	3414281456	2E4.19.163.68903	1122	5290961056	2E5.67.199.12401	1280	7393819030	2.5.19.13.227.13187										
L1	33	3591877264	2E4.263.409.2087	R9	33	5335072544	2E5.149.211.5303	R9	33	7760775530	2.5.19.37.313.3527							
948	3431450912	2E5.43.1439.1733	1125	5302349776	2E4.17.2267.8599	1282	7460005875	3.5E3.7.17.349.479										
R9	33	3490122208	2E5.269.373.1087	R9	33	5581328624	2E4.257.449.3023	R9	33	7635802125	3.5E3.7.47.59.1049							
949	3434398695	3E2.7.13.5.191.4391	1131	5389403950	2.5E2.7.1999.7703	1283	7480768832	2E6.233.239.2099										
R9	33	3932355609	3E2.7.13.23.107.1951	R9	33	6074148050	2.5E2.79.641.2399	R9	33	7497103168	2E6.269.599.727							
951	3437839568	2E4.29.659.11243	1136	5447262776	2E3.23.47.83.7589	1290	7572722157	3E4.7.11.13.59.1583										
L1	33	3463727632	2E4.59.89.41227	R9	33	5569774024	2E3.23.179.263.643	R9	33	7883062803	3E4.7.11.23.179.307							
952	3437861427	3E3.7.11.13.131.971	1150	5587409230	2.5.13.19.1451.1559	1292	7591540816	2E4.23.3533.5839										
R9	33	3459761613	3E3.7.11.17.53.1847	R9	33	5828795570	2.5.13.199.233.967	R9	33	7763547824	2E4.71.151.45259							
967	3597402050	2.5E2.11.19.344249	1151	5592854630	2.5.19.11.569.4703	1295	7608153350	2.5E2.7.179.121439										
R9	33	4086257950	2.5E2.149.269.2039	R9	33	5990274970	2.5.19.71.167.2659	R9	33	8655091450	2.5E2.137.383.3299							
970	3611920304	2E4.29.593.13127	1156	5668081984	2E6.223.311.1277	1308	7807697504	2E5.59.1847.2239										
L1	33	3640249456	2E4.53.109.39383	R9	33	5675159744	2E6.283.431.727	R9	33	7839688096	2E5.109.223.10079							
975	3663942220	2E2.5.71.2580241	1163	5766520288	2E5.59.599.5099	1312	7920502317	3E2.7.13.19.17.79.379										
L1	33	4138709588	2E2.13.3163.25163	R9	33	5800279712	2E5.101.359.4999	R9	33	8013961683	3E2.7.13.19.31.37.449							
982	3736912936	2E3.17.43.639007	1166	5797844128	2E5.79.181.12671	1314	7941148664	2E3.97.17.193.3119										
L1	33	3854502104	2E3.23.151.138731	R9	33	5825928032	2E5.83.1319.1663	R9	33	8074560136	2E3.97.23.389.1163							
984	3743928045	3E2.5.13.11.223.2609	1173	5871076575	3.5E2.7.13.79.10889	1327	8201184795	3E4.5.17.19.71.883										
R9	33	3917194515	3E2.5.13.23.347.839	R9	33	6228149025	3.5E2.7.43.263.1049	R9	33	8433856485	3E4.5.17.47.67.389							
985	3751290650	2.5E2.19.29.136163	1178	5924391392	2E5.43.443.9719	1330	8249841116	2E2.11.19.89.110879										
L1	33	3846660550	2.5E2.17.349.12967	R9	33	6038673568	2E5.263.647.1109	R9	33	8515214884	2E2.11.59.71.46199							
986	3762853094	2.7.11.13.373.5039	1180	5936514512	2E4.17.659.33119	1336	8283367504	2E4.17.1439.21163										
R9	33	3837305626	2.7.11.19.167.7853	R9	33	6260919088	2E4.263.919.1619	R9	33	8722329776	2E4.263.443.4679							
990	3804517244	2E2.11.17.367.13859	1211	6275937424	2E4.19.509.40559	1340	8348580350	2.5E2.11.3163.4799										
R9	33	3907408516	2E2.11.31.809.3541	L1	33	6549134576	2E4.179.199.11491	L1	33	8600334850	2.5E2.17.239.4519							
1011	4007609528	2E3.13.29.1328783	1214	6305672368	2E4.17.751.30869	1343	8452751584	2E5.59.1511.2963										
R9	33	4363729672	2E3.61.151.59219	R9	33	6647873552	2E4.251.839.1973	R9	33	8487575456	2E5.79.1481.2267							
1016	4048940048	2E4.17.1451.10259	1216	6343170730	2.5.17.13.67.42839	1352	8517106125	3E3.5E3.11.383.599										
R9	33	4263876112	2E4.241.683.1619	R9	33	6870741590	2.5.17.271.293.509	R9	33	8735245875	3E3.5E3.29.31.2879							

AMICABLE PAIRS OF TYPE (4,3):

36	667964	2E2.11.17.19.47	315	209309704	2E3.29.71.97.131	558	905196776	2E3.11.31.389.853	733	1813297395	3.5.7.13.19.139.503	
L1	43	783556	2E2.31.71.89	R9	43	209816696	2E3.19.83.16631	R9	43	1013228824	2E3.139.487.1871	
53	1468324	2E2.11.13.17.151	319	221397165	3E3.5.11.29.53.97	565	930793204	2E2.19.11.59.113.167	750	1937813620	2E2.5.97.631.1583	
L1	43	1749212	2E2.37.53.223	R9	43	235831635	3E3.5.13.83.1619	R9	43	999728396	2E2.19.23.239.2393	
61	2728726	2.7.11.13.29.47	331	250876395	3E2.5.7.11.17.4259	571	954392504	2E3.13.37.197.1259	751	1938775850	2.5E2.11.47.179.419	
L1	43	3077354	2.7.19.23.503	L1	43	323303445	3E2.5.53.283.479	R9	43	1036457896	2E3.43.1619.1861	
89	7288930	2.11.5.23.43.67	333	252551048	2E3.17.31.37.1619	572	957871508	2E2.11.29.71.97.109	R9	43	2110964950	2.5E2.41.149.6911
L1	43	8221598	2.11.7.197.271	R9	43	279327352	2E3.107.179.1823	R9	43	998051692	2E2.11.53.139.3079	
97	8666860	2E2.5.23.83.227	353	278247976	2E3.17.41.139.359	580	969642056	2E3.17.31.349.659	762	1992605368	2E3.13.23.131.6359	
L1	43	10638356	2E2.47.71.797	L1	43	293288024	2E3.31.149.7937	R9	43	2238575432	2E3.179.461.3391	
99	8826070	2.5.11.19.41.103	363	300208696	2E3.23.29.127.443	587	1000233608	2E3.11.59.383.503	763	2004732340	2E2.5.13.227.33967	
L1	43	10043690	2.5.31.179.181	L1	43	313576904	2E3.31.89.14207	R9	43	2549153612	2E2.71.151.59443	
108	9773505	3E2.5.7.19.23.71	368	305178874	2.7.19.11.13.71.113	608	1086272836	2E2.11.29.47.59.307	764	2008888310	2.11.13.5.23.103.593	
L1	43	11791935	3E2.5.31.79.107	R9	43	356714246	2.7.19.83.107.151	R9	43	2107566279	3E2.7.13.17.19.31.257	
115	11173460	2E2.5.53.83.127	374	312090808	2E3.19.29.101.701	610	1088205734	2.7.11.17.19.131.167	771	2057011288	2E3.17.19.43.311.1847	
L1	43	13212076	2E2.31.47.2267	R9	43	332345192	2E3.53.67.11699	R9	43	2254003112	2E3.83.127.26729	
127	14426230	2.7.5.13.83.191	376	318323864	2E3.23.61.79.359	625	1148440336	2E4.37.71.89.307	780	2107566279	3E2.7.13.17.19.31.257	
L1	43	18087818	2.7.31.71.587	R9	43	324492136	2E3.29.47.29759	R9	43	2219898681	3E2.7.13.11.239.1031	
141	18194715	3E2.5.7.11.59.89	382	324644792	2E3.19.29.47.1567	632	1197281380	2E2.5.31.967.1997	788	2153378296	2E3.29.31.227.1319	
L1	43	22240485	3E2.5.31.107.149	R9	43	352731208	2E3.79.89.6271	R9	43	2180445704	2E3.17.911.17599	
154	24472180	2E2.5.53.83.127	387	339981512	2E3.13.41.71.1123	633	1206344152	2E3.13.37.251.1249	800	2241281620	2E2.5.131.881.971	
L1	43	30395276	2E2.47.107.1511	R9	43	373803448	2E3.83.167.3371	R9	43	2511611756	2E2.17.47.785861	
184	43096904	2E3.17.41.59.131	391	347401035	3E3.5.17.19.31.257	639	1224145112	2E3.17.31.103.2819	806	2278650296	2E3.13.23.199.4787	
L1	43	46715896	2E3.53.239.461	R9	43	365917365	3E3.5.11.239.1031	R9	43	2547653704	2E3.113.839.3359	
209	71015260	2E2.5.23.263.587	405	375401624	2E3.13.73.197.251	645	1241809540	2E2.5.17.37.98713	816	2363563444	2E2.19.11.23.83.1481	
L1	43	85458596	2E2.41.47.11087	R3	43	399982216	2E3.43.97.11987	R9	43	2655792716	2E2.19.47.233.3191	
210	71241830	2.5.11.19.89.383	409	388904355	3E3.5.7.23.29.617	649	1255307438	2.7.11.17.53.83.109	821	2407445150	2.5E2.11.29.149.1013	
L1	43	78057370	2.5.17.359.1279	R9	43	465418845	3E3.5.59.71.823	R9	43	2684862850	2.5E2.59.449.2027	
214	74386305	3E2.5.7.17.29.479	418	405370035	3E3.5.7.19.107.211	652	1273481176	2E3.11.29.569.877	823	2417154916	2E2.11.23.47.89.571	
L1	43	87354495	3E2.5.19.71.1439	R9	43	473836365	3E3.5.29.127.953	R9	43	2564461724	2E2.11.107.127.4289	
219	78447010	2.5.17.19.149.163	432	438362984	2E3.19.43.47.1427	654	1292002824	2E3.179.379.2633	824	2419787565	3E2.5.13.17.23.71.149	
L1	43	80960990	2.5.11.491.1499	R9	43	466417816	2E3.31.503.3739	R9	43	2675047635	3E2.5.13.89.191.269	
225	84591405	3E3.5.17.29.31.41	442	474179596	2E2.31.11.41.61.139	657	1273666394	2.7.11.13.41.59.263	842	2550651220	2E2.5.13.131.74887	
L1	43	89590995	3E3.5.13.71.719	R9	43	505757684	2E2.31.17.79.3037	R9	43	3261855788	2E2.73.223.50093	
227	87998470	2.5.7.29.67.647	459	529714744	2E3.13.59.131.659	668	1347375272	2E3.19.89.137.727	845	2592552904	2E3.17.29.43.15287	
L1	43	102358010	2.5.47.89.2447	R9	43	567997256	2E3.47.109.13859	R9	43	2856090296	2E3.103.131.26459	
264	139009990	2.5.7.53.89.421	469	558410475	3.5E2.19.7.17.37.89	674	1386737770	2.5.11.17.59.12569	858	2710037704	2E3.11.29.181.5867	
R3	43	156322490	2.5.23.179.3797	R9	43	662939925	3.5E2.19.23.113.179	R9	43	3057032696	2E3.233.719.2281	
265	140744835	3E2.5.7.11.151.269	470	559334930	2.7.5.11.23.31583	679	1448711355	3.5.7.13.17.149.419	866	2784657488	2E4.29.71.181.467	
R9	43	166562685	3E2.5.17.239.911	R9	43	750516718	2.7.71.281.2687	R9	43	2918727472	2E4.223.269.3041	
266	140815384	2E3.19.23.47.857	475	585057992	2E3.17.23.359.521	683	1470622335	3.5.7.13.29.97.383	867	2787570220	2E2.5.31.607.7481	
R9	43	155709416	2E3.89.383.571	R9	43	632663608	2E3.59.107.12527	R9	43	3266026196	2E2.17.4987.9631	
267	144788020	2E2.5.13.97.5741	480	600418910	2.7.5.13.23.28687	689	1564022145	3.5.7.19.127.6173	881	2881000792	2E3.23.41.521.733	
R9	43	186088988	2E2.83.293.1913	R9	43	787621282	2.7.43.223.5867	R9	43	2912196968	2E3.17.503.42571	
272	153015550	2.5E2.19.23.47.149	485	613290028	2E2.17.13.29.47.509	692	1564818128	2E4.47.109.113.167	885	2919883365	3E2.5.7.17.269.2027	
R9	43	168392450	2.5E2.79.89.479	R9	43	682191572	2E2.17.71.101.1399	R9	43	3230310555	3E2.5.19.23.164267	
280	164733752	2E3.31.53.83.151	496	653078426	2.7.31.11.13.17.619	693	1548287895	3.5.7.11.23.167.349	887	2932637168	2E4.37.67.107.691	
R9	43	166212808	2E3.17.383.3191	R9	43	786829414	2.7.31.53.79.433	R9	43	3189277916	2.7.11.197.263.1399	
282	165742395	3.5.7.13.29.53.79	512	698002450	2.5E2.29.41.59.199	696	1559105008	2E4.43.67.149.227	898	2997567034	2.7.11.19.47.71.307	
R9	43	182622405	3.5.7.41.59.719	R9	43	708157550	2.5E2.19.71.10499	R9	43	3133653446	2.7.11.23.479.1847	
289	170566690	2.5.7.29.73.1151	539	826499835	3E3.5.7.31.89.317	697	1559592628	2E2.11.43.53.103.151	901	3001624450	2.5E2.11.47.83.1399	
R9	43	197704670	2.5.31.739.863	R9	43	931912965	3E3.5.23.59.5087	R9	43	3297972350	2.5E2.41.449.3583	
300	189406984	2E3.13.71.113.227	543	848764124	2E2.19.13.23.41.911	702	1600185752	2E3.11.53.103.3331	904	3024860410	2.5.11.13.23.91969	
R9	43	203592056	2E3.37.797.863	R9	43	953056036	2E2.19.47.251.1063	R9	43	3649954310	2.5.67.1259.4327	
311	204756904	2E3.11.59.113.349	544	854687570	2.5.11.59.79.1667	720	1755729656	2E3.19.23.349.1439	913	3107420056	2E3.13.19.331.4751	
L1	43	226163096	2E3.79.449.797	R9	43	874694830	2.5.19.23.200159	R9	43	3518768744	2E3.461.719.1327	
314	209027128	2E3.23.29.43.911	553	891089368	2E3.13.23.401.929	721	17567981232	2E4.83.151.7919	919	3152378344	2E3.23.31.419.1319	
R9	43	224355272	2E3.37.383.1979	R9	43	993165032	2E3.167.179.4153	L1	43	3234309656	2E3.19.2687.7919	
				555	894690615	3.5.7.13.53.83.149	722	1763439656	2E3.11.29.251.2753	932	3334417196	2E2.11.17.53.241.349
				R9	43	934224585	3.5.7.19.59.7937	R9	43	3581168404	2E2.11.109.769.971	

935 3370176315 3E4.11.5.23.31.1061  
R9 43 3735470277 3E4.11.7.47.12743  
946 3415139192 2E3.19.47.71.6733  
R9 43 3566672008 2E3.23.2729.7103  
958 3474708976 2E4.67.109.131.227  
R9 43 3503951504 2E4.37.1583.3739  
966 3572444816 2E4.43.97.199.269  
R9 43 3645843184 2E4.71.131.24499  
973 3654203576 2E3.19.71.571.593  
R9 43 3684785224 2E3.17.311.87119  
974 3658862632 2E3.23.41.53.9151  
R9 43 3813562328 2E3.43.47.235871  
976 3679922740 2E2.5.13.67.211247  
R9 43 4766617292 2E2.83.3671.3911  
989 3804416572 2E2.11.43.71.127.223  
R9 43 3825546692 2E2.11.31.83.33791  
992 3846301096 2E3.11.59.727.1019  
R9 43 4173346904 2E3.79.83.79559  
997 3892163756 2E2.13.19.53.239.311  
R9 43 4033135444 2E2.13.29.127.21059  
999 3905117576 2E3.19.47.71.7699  
R9 43 4078242424 2E3.23.2399.9239  
1012 4023332270 2.5.19.23.37.149.167  
R9 43 4250331730 2.5.19.47.179.2659  
1013 4028769225 3E3.5E2.13.17.113.239  
R9 43 4520683575 3E3.5E2.41.379.431  
1021 4088056208 2E4.41.53.307.383  
R9 43 4227411568 2E4.71.1231.3023  
1022 4095021315 3.5.7.11.23.139.1109  
R9 43 4497977085 3.5.7.31.83.16649  
1024 4105247230 2.7.31.5.23.83.991  
R9 43 5110162946 2.7.31.71.383.433  
1028 4143353656 2E3.13.29.509.2699  
R9 43 4531746344 2E3.53.499.21419  
1029 4144376145 3.5.7E2.13.41.71.149  
R9 43 4542971055 3.5.7E2.53.139.839  
1034 4186831005 3E3.5.7.67.89.743  
R9 43 4555466595 3E3.5.23.29.50591  
1037 4211873505 3E3.5.7.17.23.11399  
R9 43 5243742495 3E3.5.89.607.719  
1041 4281566032 2E4.29.97.251.379  
R9 43 4446000368 2E4.113.239.10289  
1047 4331452790 2.7.41.5.47.163.197  
R9 43 5095298698 2.7.41.23.107.3607  
1054 4400527095 3E5.5.17.23.59.157  
R9 43 4543739145 3E5.5.11.359.947  
1061 4516391295 3E2.5.13.19.59.71.97  
R9 43 4729791105 3E2.5.13.29.83.3359  
1063 4569376424 2E3.19.43.83.8423  
R9 43 4771154776 2E3.23.1871.13859  
1071 4667500708 2E2.19.13.97.113.431  
R9 43 4792055132 2E2.19.17.83.44687  
1075 4721483056 2E4.23.139.241.383  
R9 43 4957897424 2E4.197.439.3583  
1082 4800749954 2.7.11.13.73.107.307  
R9 43 5124163198 2.7.11.43.83.9323  
1096 4960116850 2.5E2.13.89.179.479  
R9 43 5164235150 2.5E2.19.863.6299  
1099 4980118690 2.5.31.19.61.83.167  
R9 43 5099236190 2.5.31.17.223.4339

1106 5063925616 2E4.43.71.83.1249  
R9 43 5247914384 2E4.79.769.5399  
1113 5157409576 2E3.11.37.179.8849  
R9 43 5738710424 2E3.113.269.23599  
1115 5188836656 2E4.59.61.251.359  
R9 43 5272993744 2E4.53.199.31247  
1126 5319472184 2E3.13.41.199.6269  
R9 43 5740807816 2E3.37.3079.6299  
1127 5321930128 2E4.29.53.379.571  
R9 43 5593889072 2E4.197.569.3119  
1128 5325459184 2E4.43.139.233.239  
R9 43 5398854416 2E4.41.1559.5279  
1129 5375620496 2E4.29.83.97.1439  
R9 43 5648673904 2E4.199.503.3527  
1130 5381495288 2E3.13.23.191.11779  
R9 43 6017775112 2E3.127.433.13679  
1146 5562037616 2E4.43.59.263.521  
R9 43 5716169104 2E4.71.241.20879  
1147 574272535 3E2.5.13.19.43.107.109  
R9 43 5841932265 3E2.5.13.23.449.967  
1153 5609702696 2E3.13.29.107.17383  
R9 43 6218370904 2E3.89.317.27551  
1160 5725765580 2E2.5.17.467.36061  
L1 43 7032258516 2E2.37.107.444131  
1164 5771384168 2E3.11.103.599.1063  
R9 43 6179463832 2E3.37.233.89599  
1165 5797165010 2.7E2.5.13.881.1033  
R9 43 7302630622 2.7E2.41.293.6203  
1167 5806329830 2.5.7.29.59.48479  
R9 43 6759686170 2.5.47.89.161599  
1184 5990705656 2E3.13.59.71.13751  
R9 43 6485108744 2E3.41.647.30559  
1187 6024547696 2E4.29.83.311.503  
R9 43 6259666064 2E4.107.293.12479  
1188 6031567575 3E2.5E2.11.19.47.2729  
R9 43 6642621225 3E2.5E2.17.167.10399  
1189 6042829905 3E3.5.7.23.29.9587  
R9 43 7211621295 3E3.5.31.1223.1409  
1190 6045115850 2.5E2.17.41.89.1949  
R9 43 6293938150 2.5E2.29.53.81899  
1198 6135028624 2E4.59.73.127.701  
R9 43 6232751216 2E4.47.359.23087  
1203 6179700345 3.5.7.13.17.79.3371  
R9 43 6872367495 3.5.7.47.59.23603  
1204 6181674850 2.5E2.13.59.359.449  
R9 43 6473765150 2.5E2.23.139.40499  
1206 6217030755 3E2.5.13.19.23.83.293  
R9 43 6727624605 3E2.5.13.41.179.1567  
1222 6451021016 2E3.11.41.103.17359  
R9 43 7198105384 2E3.97.1151.8059  
1243 6777002584 2E3.11.37.233.8933  
R9 43 7522400456 2E3.107.227.38713  
1244 6788375248 2E4.41.109.139.683  
R9 43 6926371952 2E4.47.2309.3989  
1249 6885178846 2.7E2.19.13.23.83.149  
R9 43 7593733154 2.7E2.19.31.293.449  
1268 7268766832 2E4.53.61.83.1693  
R9 43 7499850416 2E4.71.461.14321  
1285 7483202870 2.5.11.13.1499.3491  
R9 43 8356509130 2.5.19.3023.14549

1297 7644728944 2E4.67.83.151.569  
R9 43 7696789136 2E4.37.607.21419  
1301 7716789124 2E2.59.11.17.19.9203  
R9 43 8982948476 2E2.59.29.103.12743  
1303 7735239556 2E2.11.43.71.89.647  
R9 43 7784412284 2E2.11.23.1759.4373  
1307 7800706940 2E2.5.13.167.179657  
L1 43 9946628932 2E2.53.1511.31051  
1319 8038783948 2E2.13.17.19.307.1559  
R9 43 8912550452 2E2.13.139.701.1759  
1321 8056050244 2E2.11.29.53.139.857  
R9 43 8289879356 2E2.11.43.107.40949  
1325 8167602105 3E2.5.13.19.23.43.743  
R9 43 8991299655 3E2.5.13.61.197.1279  
1326 8188640048 2E4.41.47.349.761  
R9 43 8479043152 2E4.97.239.22859  
1328 8226127472 2E4.29.107.223.743  
R9 43 8512801168 2E4.71.1889.3967  
1347 8490604005 3E3.5.13.19.89.2861  
R9 43 8818771995 3E3.5.11.83.71549  
1353 8521860555 3E6.5.13.17.71.149  
R9 43 9326392245 3E6.5.23.53.2099  
1359 8651076434 2.7.11.13.23.89.2111  
R9 43 9742585006 2.7.11.223.239.1107  
1364 8808227056 2E4.59.71.113.1163  
R9 43 8962421264 2E4.53.227.46559  
1372 8952142815 3E3.5.7.11.53.16249  
R9 43 11265457185 3E3.5.179.311.1499  
1375 8975660265 3E2.5.13.11.47.59.503  
R6 43 10040507815 3E2.5.13.107.383.419  
1378 9006915928 2E3.17.59.317.3541  
R9 43 9240051272 3E3.19.1931.31481  
1379 9008575485 3.5.7.13.17.23.16879  
R9 43 10592750595 3.5.7.127.269.2953  
1381 9029724795 3E2.7.13.5.31.83.857  
R9 43 1118146949 3E2.7.13.71.263.727  
1386 9086970310 2.5.53.11.83.89.211  
R9 43 9607155770 2.5.53.17.719.1483  
1389 9136521225 3E3.5E2.13.17.73.839  
R9 43 10287235755 3E3.5E2.59.97.2663  
1410 9535950765 3E2.5.11.23.31.41.659  
R9 43 10390515795 3E2.5.11.127.197.839  
1415 9723053488 2E4.23.89.307.967  
R9 43 10240668752 2E4.263.461.5279

TOTAL NUMBER: 201

AMICABLE PAIRS OF TYPE (5,3):

313 208693628 2E2.11.13.23.29.547  
R9 53 255308932 2E2.31.167.12329  
347 273141836 2E2.11.23.29.41.227  
L1 53 306014644 2E2.13.239.24623  
567 938304290 2.11.5.7.17.43.1667  
R9 53 1344480478 2.11.31.197.10007  
618 1118297565 3E2.5.7.11.29.31.359  
R9 53 1469555235 3E2.5.79.479.863  
723 1772982530 2.5.11.17.19.139.359  
R9 53 2146121470 2.5.107.199.10079  
843 2551781890 2.5.7.19.61.71.443  
R9 53 3156424190 2.5.431.739.991  
877 2848466620 2E2.5.17.31.131.2063  
R9 53 3742595396 2E2.257.431.8447  
931 3331018845 3E2.7.5.11.17.193.293  
R9 53 4356521379 3E2.7.23.41.73331  
1026 4123833752 2E3.17.53.61.83.113  
R9 53 4532487208 2E3.71.227.35153  
1062 4522539070 2.5.7.17.73.79.659  
R9 53 5604923330 2.5.593.739.1279  
1111 5131883330 2.5.7.17.103.149.281  
R9 53 6270843070 2.5.107.1879.3119  
1119 5221345844 2E2.11.13.19.353.1361  
R9 53 6118775116 2E2.17.9439.9533  
1218 6356368136 2E3.17.23.103.109.181  
R9 53 7135510264 2E3.131.2027.3359  
1240 6764433170 2.5.11.23.47.163.349  
R9 53 7518523630 2.5.19.383.103319  
1257 7035981610 2.5.7.53.109.127.137  
R9 53 8073097430 2.5.29.197.141311  
1350 8500118180 2E2.5.17.37.307.2203  
R9 53 10993367516 2E2.131.167.125627  
1354 8534619752 2E3.17.23.71.83.463  
R9 53 9650022808 2E3.347.503.6911  
1407 9408690824 2E3.13.41.59.149.251  
R9 53 10595069176 2E3.167.1259.6299

TOTAL NUMBER: 18



AMICABLE PAIRS OF TYPE (2,4):

177 37784810 2.7.5.539783  
 L1 24 39944086 2.7.13.41.53.101  
 375 316293016 2E3.13.3041279  
 R9 24 322375784 2E3.41.71.109.127  
 484 606235455 3E3.5.7.641519  
 R9 24 625482945 3E3.5.19.43.53.107  
 685 1502495085 3.7E2.13.5.157247  
 R9 24 1509118611 3.7E2.13.11.17.41.103

TOTAL NUMBER: 4

AMICABLE PAIRS OF TYPE (3,4):

274 155578180 2E2.5.223.34883  
 R9 34 172610492 2E2.23.41.67.683  
 348 274638460 2E2.5.1693.8111  
 R9 34 302514116 2E2.17.43.307.337  
 357 287250632 2E3.17.127.16631  
 R9 34 287551288 2E3.31.53.131.167  
 416 400250565 3E4.11.5.13.6911  
 R9 34 442792251 3E4.11.17.23.31.41  
 479 596668490 2.5.11.41.132299  
 R9 34 603557110 2.5.13.53.251.349  
 490 637756665 3.5.7.13.59.7919  
 R9 34 639580935 3.5.7.29.41.47.109  
 502 665113060 2E2.5.31.1072763  
 R9 34 776681756 2E2.23.107.257.307  
 525 761197736 2E3.13.1151.6359  
 L1 34 777413464 2E3.41.47.211.239  
 570 950850140 2E2.5.1091.43577  
 R9 34 1047811252 2E2.17.41.233.1613  
 665 1327395368 2E3.13.1511.8447  
 R9 34 1355013592 2E3.41.43.191.503  
 871 2808979976 2E3.11.2393.13339  
 R9 34 2939492824 2E3.37.137.173.419  
 876 2847780584 2E3.11.557.58099  
 R9 34 2987783416 2E3.53.61.331.349  
 909 3065342660 2E2.5.9743.15731  
 R9 34 3372946876 2E2.13.107.347.1747  
 1043 4288758056 2E3.11.4513.10799  
 R9 34 4486457944 2E3.47.73.149.1097  
 1101 5001083252 2E2.11.19.1583.3779  
 R9 34 5057950348 2E2.11.59.107.131.1319  
 1152 5607553016 2E3.13.149.361871  
 R9 34 5791414984 2E3.41.59.139.2153  
 1159 5715251290 2.5.7.53.1540499  
 R9 34 6263676710 2.5.23.89.157.1949  
 1176 5907430305 3E3.5.7.151.41399  
 R9 34 6174745695 3E3.5.17.31.229.379  
 1207 6249563650 2.5E2.11.449.25307  
 R9 34 6460113950 2.5E2.29.89.113.443  
 1208 6255734650 2.5E2.11.1487.7649  
 R9 34 6447916550 2.5E2.29.61.269.271  
 1302 7720248712 2E3.11.2819.31121  
 R9 34 8077278488 2E3.37.107.181.1409  
 1329 8237044408 2E3.17.47.1288649  
 R9 34 8463859592 2E3.43.53.109.4259  
 1357 8628307636 2E3.17.79.123551  
 R9 34 8807350604 2E2.13.31.131.179.233  
 1376 8990017384 2E3.17.59.1120391  
 R9 34 9160333016 2E3.37.53.103.5669

TOTAL NUMBER: 24

AMICABLE PAIRS OF TYPE (4,4):

165 32642324 2E2.11.13.149.383  
 L1 44 35095276 2E2.17.47.79.139  
 286 169335790 2.5.13.19.179.383  
 L1 44 1790029010 2.5.23.59.79.167  
 294 180038452 2E2.11.19.31.6947  
 R9 44 193486028 2E2.23.29.47.1543  
 299 186878110 2.5.17.19.47.1231  
 R9 44 196323170 2.5.23.41.109.191  
 332 251302370 2.5.11.23.71.1399  
 R9 44 271244830 2.5.29.59.83.191  
 420 407641130 2.5.13.17.139.1327  
 R9 44 435691990 2.5.23.59.97.331  
 437 460122410 2.5.11.29.97.1487  
 R9 44 484817110 2.5.19.71.83.433  
 448 504555070 2.5.17.19.31.5039  
 R9 44 540539330 2.5.23.71.79.419  
 458 526552472 2E3.19.71.97.503  
 R9 44 540314728 2E3.41.83.89.223  
 476 586188070 2.5.13.41.71.1549  
 R9 44 594986330 2.5.19.29.83.1301  
 493 643006485 3E3.5.11.41.59.179  
 R9 44 663361515 3E3.5.23.29.53.139  
 505 677781140 2E2.5.227.337.443  
 R9 44 759308332 2E2.17.73.151.1013  
 534 8002162790 2.5.11.13.167.3359  
 R9 44 904824730 2.5.47.89.97.223  
 546 856305272 2E3.23.29.383.419  
 R9 44 885518728 2E3.47.59.179.223  
 617 1112824370 2.5.7.59.227.1187  
 R9 44 1227440590 2.5.37.43.179.431  
 646 1249677032 2E3.23.67.167.607  
 R9 44 1250808088 2E3.31.37.271.503  
 746 1900066455 3E2.7.5.17.23.15427  
 R9 44 2258828649 3E2.7.11.83.173.227  
 756 1978830070 2.7.5.23.97.12671  
 R9 44 2313024266 2.7.31.41.43.3023  
 759 1990129570 2.5.11.13.431.3229  
 R9 44 2229439070 2.5.37.67.139.647  
 777 2091376035 3E2.5.7.29.179.1279  
 R9 44 2221711965 3E2.5.11.59.127.599  
 790 2158256590 2.7.5.17.151.12011  
 R9 44 2574279218 2.7.37.41.53.2287  
 795 2220015735 3E3.5.7.79.131.227  
 R9 44 2402729865 3E3.5.31.37.59.263  
 807 2282361092 2E2.11.19.239.11423  
 R9 44 2323795708 2E2.13.23.127.15299  
 822 2410351540 2E2.5.83.887.1637  
 R9 44 2721279692 2E2.17.73.293.1871  
 826 2428035470 2.5.7.53.359.1823  
 R9 44 2677997170 2.5.29.71.113.1151  
 835 2482324910 2.5.13.23.41.20249  
 R9 44 2661499090 2.5.17.149.179.587  
 836 2484011608 2E3.13.151.367.431  
 R9 44 2590502312 2E3.37.127.137.503  
 848 2614326776 2E3.17.61.79.3989  
 R9 44 2729081224 2E3.37.107.199.433  
 855 2682405256 2E3.19.107.131.1259  
 R9 44 2706362744 2E3.31.53.109.1889

859 2710902590 2.5.11.23.397.2699  
 R9 44 2859823810 2.5.17.59.239.1193  
 947 3425919050 2.5E2.17.103.109.359  
 R9 44 3468282550 2.5E2.29.59.71.571  
 953 3443251432 2E3.23.29.127.5081  
 R9 44 3582105368 2E3.43.83.109.1151  
 981 3715799048 2E3.13.53.223.3023  
 R9 44 3965644792 2E3.71.97.167.431  
 983 3737773292 2E2.31.11.61.167.269  
 R9 44 3821742868 2E2.31.17.53.79.433  
 998 3900906009 3E2.7.13.11.41.59.179  
 R9 44 4024393191 3E2.7.13.23.29.53.139  
 1001 3925579070 2.5.7.89.191.3299  
 R9 44 4285876930 2.5.19.199.263.431  
 1008 3980355350 2.5E2.17.59.139.571  
 R9 44 4062879850 2.5E2.23.131.149.181  
 1023 4104095930 2.5.11.47.139.5711  
 R9 44 4186986310 2.5.13.89.101.3583  
 1040 4280119305 3.5.7.11.59.107.587  
 R9 44 4498673655 3.5.7.31.53.89.293  
 1064 4570182110 2.5.13.23.479.3191  
 R9 44 4963215700 2.5.17.37.127.5879  
 1093 4911038510 2.5.7.149.479.983  
 R9 44 5291073490 2.5.29.31.409.1439  
 1104 5048426630 2.5.13.23.563.2999  
 R9 44 5184789370 2.5.17.31.349.2819  
 1117 5200086344 2E3.17.269.307.463  
 R9 44 5218198456 2E3.19.131.503.521  
 1132 5403806252 2E2.13.17.239.25577  
 L1 44 5424895828 2E2.11.23.521.10289  
 1141 5502084136 2E3.17.199.263.773  
 R9 44 5532059864 2E3.31.53.89.4729  
 1144 5546461305 3.7.11.5.47.83.1231  
 R9 44 5898483591 3.7.11.13.17.43.2687  
 1170 5849277512 2E3.13.179.223.1409  
 R9 44 6089474488 2E3.41.59.419.751  
 1185 5992992495 3E3.5.7.71.179.499  
 R9 44 6448607505 3E3.5.19.47.149.359  
 1194 6104216464 2E4.59.107.223.271  
 R9 44 6135000176 2E4.101.127.167.179  
 1200 6146662545 3E2.5.17.19.53.79.101  
 R9 44 6226508655 3E2.5.17.29.59.67.71  
 1213 6287302312 2E3.19.29.881.1619  
 R9 44 6572257688 2E3.41.89.149.1511  
 1235 6718067096 2E3.13.59.79.13859  
 R9 44 7252812904 2E3.83.131.199.419  
 1255 6960996212 2E2.19.11.37.139.1619  
 R9 44 7517943788 2E2.19.53.83.113.199  
 1258 7072796115 3E2.5.7.11.709.2879  
 R9 44 8238666285 3E2.5.19.79.283.431  
 1272 7317585748 2E2.19.11.71.113.1091  
 R9 44 7740482732 2E2.19.37.53.167.311  
 1356 8575844056 2E3.13.71.347.3347  
 R9 44 90406148424 2E3.53.61.431.811  
 1363 8804881305 3E3.5.11.37.191.839  
 R9 44 8845601895 3E3.5.13.29.151.1151  
 1373 8960679970 2.5.11.41.683.2909  
 R9 44 9096591720 2.5.17.37.71.20369  
 1392 9160950225 3.5E2.19.7.17.89.607  
 R9 44 10380656175 3.5E2.19.37.47.59.71

1400 9286443650 2.5E2.11.59.419.683  
 R9 44 9949825150 2.5E2.53.113.149.223  
 1403 9307840630 2.11.5.43.313.6287  
 R9 44 9457161098 2.11.7.17.523.6907  
 1404 9344815064 2E3.13.59.659.2311  
 R9 44 9881776936 2E3.67.79.109.2141  
 1408 9449054312 2E3.19.71.139.6299  
 R9 44 9602145688 2E3.29.59.179.3919

TOTAL NUMBER: 63

AMICABLE PAIRS OF TYPE (5,4):

811 2310786764 2E2.11.13.19.149.1427  
 R9 54 2727197236 2E2.29.79.139.2141  
 920 3188153956 2E2.13.17.31.317.367  
 R9 54 3417616796 2E2.11.137.211.2687  
 937 3381430228 2E2.11.19.41.47.2099  
 R3 54 3731017772 2E2.23.31.89.14699  
 1322 8077248916 2E2.11.19.59.83.1973  
 R9 54 8637003884 2E2.17.23.1879.2939  
 1368 8894283788 2E2.13.17.113.269.331  
 R9 54 9131961652 2E2.11.41.107.47309  
 1406 9374110636 2E2.11.19.53.83.2549  
 R9 54 10058113364 2E2.13.47.269.15299  
 1419 9836011330 2.5.11.17.79.139.479  
 R9 54 11065876870 2.5.31.107.149.2239

TOTAL NUMBER: 7

AMICABLE PAIRS OF TYPE (4,5):

586 996088412 2E2.11.17.151.8819  
 R9 45 1030959268 2E2.23.37.41.83.89  
 852 2655265756 2E2.11.13.199.23327  
 R9 45 2831479844 2E2.29.41.47.53.239

TOTAL NUMBER: 2

AMICABLE PAIRS OF TYPE (5,5):

278 161088158 2.7.11.17.37.1663  
 R9 55 166706530 2.5.23.31.103.227  
 316 211319745 3.7.5.13.23.53.127  
 R9 55 234587199 3.7.11.17.31.41.47  
 1365 8834761364 2E2.11.13.83.379.491  
 R9 55 9633895276 2E2.23.37.97.163.179

TOTAL NUMBER: 3





529	769289955	3.5.7E2.19.31.1777	647	1251532282	2.7.11E2.13.17.3343	769	2043906130	2.5.7E3.179.3329	923	3232160384	2E7.173.227.643
L1 X	787384605	3.5.7.19.37.10667	R9 X	1438327814	2.7.11.9339791	R9 X	2271773870	2.5.29.73.239.449	R9 X	3282775456	2E5.229.347.1291
535	807848864	2E5.61.163.2539	650	1264688650	2.5E2.17.53.67.419	775	2083894785	3E2.5.7E3.79.1709	924	3254018625	3E2.5E3.13.11.113.179
L1 X	819234496	2E6.1301.9839	R9 X	1317021110	2.5.17.61.89.1427	R9 X	2184265215	3E2.5.11.37.239.499	R9 X	3737227455	3E2.5.13.479.13337
538	821921625	3E2.5E3.7.29.59.61	651	1272724250	2.7.5E3.727271	794	2201899310	2.5.31.13E3.53.61	925	3260154664	2E3.13E3.251.739
R9 X	988676775	3E2.5E2.71.199.311	L1 X	1450182118	2.7.11.251.37517	R9 X	2387806930	2.5.31.29.265607	R9 X	3397181336	2E3.29.97.150959
541	845397735	3.5.7E2.13.103.859	656	1284072075	3E3.5E2.11.13.53.251	798	2223111345	3.5.7.13E3.23.419	934	3359556915	3.5.11.17.13E2.19.373
R9 X	867557145	3.5.7.13.569.1117	R9 X	1550746485	3E3.5.41.503.557	R9 X	2383045455	3.5.7.19.251.4759	R9 X	3736509645	3.5.11E3.17.101.109
549	869530725	3E2.5E2.7E3.19.593	657	1289325975	3.5E2.7E2.41.43.199	818	2379890150	2.5E2.31.11.97.1439	940	3396934125	3E3.5E3.13.139.557
R9 X	1045525275	3E2.5E2.89.109.479	R9 X	1323006825	3.5E2.7.29.113.769	R9 X	2659787290	2.5.31.83.167.619	R9 X	3427629075	3E3.5E2.13.167.2339
560	912404025	3E2.5E2.13.17.59.311	659	1303670522	2.7.11.19.41.10867	819	2402498475	3E5.5E2.13.29.1049	950	3437107245	3E2.5.13.11E2.59.823
R9 X	988724295	3E2.5.13.61.103.269	R9 X	1325516038	2.7.11E2.19.41.1183	R9 X	2573745525	3E2.5E2.13.587.1499	R9 X	3743360595	3E3.5.13.617.3457
566	932913124	2E2.11.13E2.109.1151	664	1323789350	2.5E2.13.67.113.269	820	2402562825	3E2.5E2.13.17.19.2543	955	3445207395	3.5.7E2.19.29.47.181
R9 X	1015026716	2E2.11.191.120779	R9 X	1401348730	2.5.29.37.61.2141	L1 X	2764606455	3E2.5.13.929.5087	R9 X	3725301405	3.5.7.19.1867319
576	967887488	2E7.61.113.1097	669	1348200032	2E5.59.461.1549	825	2421696130	2.7E2.5.31.131.1217	957	3459581824	2E7.97.278639
R9 X	1011081832	2E3.61.37.55997	L1 X	1358657968	2E4.53.109.14699	R9 X	2856901502	2.7.13.1367.11483	R9 X	3503631776	2E5.139.773.1019
577	967947856	2E4.19E2.103.1627	670	1357689830	2.5.7.107.109.1663	828	2440775024	2E4.29.83.63377	959	3475340505	3E3.5.7.13E2.47.463
R9 X	1031796176	2E4.3847.16763	R9 X	1488948250	2.5E3.47.126719	L1 X	2510314336	2E5.557.140839	R9 X	4350149415	3E3.5.127.487.521
578	968410624	2E9.61.101.307	676	1400735930	2.5.11E2.31.107.349	829	2440883588	2E2.11.13.83.51413	963	3554097885	3E3.5.13E3.23.521
R9 X	1024180592	2E4.241.265607	R9 X	1495046470	2.5.17.139.151.419	R9 X	2637996988	2E2.11E2.1721.3167	R9 X	3601895715	3E3.5.11.41.59159
581	978888550	2.5E2.31.43.19.773	682	1458334432	2E5.53.73.11779	832	2448784550	2.5E2.31.17.199.467	964	3554318372	2E2.11E3.19.41.857
R9 X	1048124570	2.5.31.43.61.1289	R9 X	1507257008	2E4.89.251.4217	R9 X	2565180250	2.5E3.31.89.3719	R9 X	3831620188	2E2.11.103.845459
582	989779882	2.7.19.13.17.113.149	687	1517112765	3E2.5.7E2.47.14639	834	2481907330	2.5.7E2.263.19259	968	3602732595	3.5.19.7E2.11.47.499
R9 X	1078636118	2.7E2.19.41.71.199	R9 X	1607180355	3E2.5.11.59.113.487	L1 X	2734933310	2.5.17.1319.12197	R9 X	4276947405	3.5.19.23.29.149.151
584	992776995	3E2.5.7E2.450239	701	1585667930	2.7E2.5.11.37.7951	838	2502894550	2.5E2.43.13.149.601	971	3647464821	3E2.7.13.11.23.29.607
L1 X	1008990045	3E2.5.7.797.4019	R9 X	2134722982	2.7.83.227.8093	R9 X	2670211850	2.5E2.43.79E2.199	R9 X	4001077899	3E2.7E2.13.31.47.479
585	994945490	2.7E2.5.11E2.97.173	703	1601150265	3E2.5.13.11.61.4079	846	2611143964	2E2.11.13E2.251.1399	978	3685361368	2E3.13E2.47.59.983
R9 X	1331936326	2.7E2.881.15427	R9 X	1713637575	3E2.5E2.13.509.1151	R9 X	2812097636	3E2.7E2.29.167.8539	R9 X	4093749032	2E3.79.2213.2927
589	1002455350	2.5E2.13.1542239	705	1618057875	3.5E3.17.7.101.359	847	2612831949	3E2.7E2.13.19.17E2.83	988	3797392550	2.5E2.7.107.101399
L1 X	1005541130	2.5.11.59.154937	R9 X	1681454445	3.5.17.11.23.67.389	L1 X	2737662291	3E2.7E2.13.19.41.613	L1 X	4350300250	2.5E3.3719.4679
590	1015866225	3E3.5E2.11.41.47.71	709	1666776566	2.7.31.13.29.61.167	849	2624170185	3E2.7.13.5.53.107.113	991	3833109376	2E7.71.197.2141
R9 X	1143995535	3E3.5.17.503.991	R9 X	1693008394	2.7.31.11.67E2.79	R9 X	3183941943	3E2.7E2.13.127.4373	R9 X	3953660384	2E5.2.753.44879
595	1033407104	2E7.83.211.461	714	1721688850	2.7.31.5E2.107.1483	853	2671748950	2.5E2.31.13.67.1979	993	3848313645	3E4.5.11E5.59
R9 X	1064553376	2E5.1019.32647	R9 X	2094066926	2.7.31.61.83.953	R3 X	2937892010	2.5.31.43.433.509	R9 X	3868601715	3E4.5.11E2.89.887
598	1047381370	2.5.7E3.47.73.89	715	1723336461	3E2.7.11.17.19.7699	857	2702347270	2.7.5.1607.24023	1000	3905322225	3.5E2.7.19.53.83.89
R9 X	1254314630	2.5.59.443.4799	R9 X	1736119539	3E2.7E3.11.29.41.43	R9 X	2860457978	2.7.17.29E2.31.461	R9 X	4194159375	3.5E5.7.79.809
602	1056277222	2.7E2.19.11.13.3967	719	1754082603	3E2.7.13E3.19.23.29	873	2828720510	2.7E2.5.11.83.6323	1003	3949406848	2E7.211.349.419
R9 X	1223576858	2.7.19.41.151.743	R9 X	1810205397	3E2.7.13.11.67.2999	R9 X	3711610882	2.7.5.31.113.44267	R9 X	3997413152	2E5.139.499.1801
606	1077722984	2E3.13.1913.5417	724	1774259235	3E4.5.7.19.32939	874	2840437756	2E2.19.13E2.37.43.139	1004	3956965155	3E3.5.11.13E2.15767
L1 X	1099987936	2E5.179.192037	L1 X	2052051165	3E9.5.29.719	R9 X	3156691844	2E2.19.41.151.6709	R9 X	4353401565	3E3.5.17.71.26717
607	1082038815	3E2.5.13.11.181.929	725	1775992725	3E2.5E2.13.23.26399	883	2896764608	2E6.53.853999	1005	3961085625	3E3.5E4.7.33533
R9 X	1135944225	3E2.5E2.13.83.4679	R9 X	1798778475	3E3.5E2.13.359.571	L1 X	2959967392	2E5.199.464819	R9 X	4419731655	3E3.5.17.137.14057
609	1086321110	2.5.7.37.419429	726	1783852785	3E2.5.13.11E3.29.79	893	2960375535	3E2.5.13E2.31.29.433	1007	3971606470	2.5.13E2.17.138239
R9 X	1208799850	2.5E2.71.163.2089	R9 X	2052998415	3E2.5.13.1151.3049	R9 X	2986743825	3E2.5E2.13.31.32939	R9 X	4224919610	2.5.19.71.107.2927
620	1127508130	2.5.7E2.31.199.373	734	1814936354	2.7.19.11E2.17.31.107	897	2995750730	2.5.7E2.1223.4999	1010	4000783984	2E4.43.113.51461
R9 X	1328325470	2.5.43.271.11399	R9 X	2156422366	2.7.19.71.227.503	R9 X	3283369270	2.5.29.37.305999	L1 X	4001351168	2E9.1367.5717
621	1129315275	3E2.5E2.31.11.41.359	738	1861960700	2E2.5E2.17.593.1847	900	3000833115	3.5.7.17.19.23.3847	1014	4029072075	3E2.5E2.7.19.134639
R9 X	1210534965	3E2.5.31.23.29.1301	R9 X	2425702372	2E2.131.433.10691	R9 X	3382537125	3.5E3.11.47.73.239	R9 X	4652515125	3E3.5E3.109.12647
622	1131258975	3.5E2.31.7.11.71.89	745	1895700345	3.7.11E2.17.5.67.131	908	3054330279	3E2.7E3.13.11E2.17.37	1017	4049815250	2.5E3.13.43.28979
R9 X	1337154465	3.5.31.17.47.59.61	R9 X	2230100103	3.7E2.11.17.31.2617	R9 X	3568431321	3E3.7E2.13.207479	L1 X	4304770990	2.5.13.857.38639
623	1133458150	2.5E2.11.347.5939	748	1929310100	2E2.5E2.83.191.1217	911	3101299916	2E2.11.13.113.47981	1020	4063895408	2E4.19E2.449.1567
L1 X	1173447770	2.5.11.929.11483	R9 X	2333417068	2E2.23.4463.5683	R9 X	3331358932	2E2.11E2.263.26171	R9 X	4269946192	2E4.179.839.1777
627	1179749410	2.5.7.151.239.467	749	1930301618	2.7.19.17.37.83.139	912	3105174904	2E3.13E2.2296727	1025	4109466950	2.5E2.31.17.83.1879
R9 X	1278710750	2.5E3.37.138239	R9 X	1964741582	2.7.19.11E2.223.269	R9 X	3199343456	2E5.1097.91139	R9 X	4349991610	2.5.31.23.433.1409
628	1183083825	3.5E2.7.11.349.587	754	1934397015	3E4.5.7E3.79.179	916	3135932032	2E7.101.107.2267	1027	4141715570	2.5.19.23E2.89.463
R9 X	1266759375	3.5E5.7.97.199	R9 X	2217362985	3E3.5.19.131.6599	R9 X	3235061408	2E5.3671.27539	R9 X	4171865230	2.5.13.47.157.4349
631	1195637144	2E3.13E2.383.2309	758	1983736876	2E2.11.19E2.71.1759	917	3138655065	3.5.7E2.13.29.47.241	1032	4152981844	2E2.11E2.23.53.7039
L1 X	1239287656	2E3.23.239.28181	R9 X	2071810004	2E2.11.43.719.1523	R9 X	3535433895	3.5.7.41.131.6269	R9 X	4341313196	2E2.11.43.797.2879
637	1216935225	3E3.5E2.31.11.17.311	765	2026348300	2E2.271.5E2.23.3251	918	3143417344	2E9.89.101.683	1038	4242143750	2.5E5.13.109.479
R9 X	1457179335	3E3.5.31.348191	R9 X	2580356852	2E2.271.61.39023	R9 X	3280122416	2E4.113.659.2753	R9 X	4419801850	2.5E2.19.1567.2969

1046	4321518201	3E2.7E2.13.11.17.29.139	1155	5640198165	3E2.5.19.7E2.61.2207	1273	7319982604	2E2.11E2.17.389.2287	1370	8924047490	2.5.17.19.521.5303
R9 X	5089774599	3E2.7E3.13.53.2393	R9 X	6532594155	3E2.5.19.47.162563	R9 X	7633515956	2E2.11.41.659.6421	R9 X	9017050750	2.5E3.17.271.7829
1051	4377238047	3E2.7.13.17.29.37.293	1157	5676646514	2.7.11E2.23.53.2749	1275	7336299285	3E2.5.7.19.443.2767	1371	8935581375	3E2.5E3.7.53.79.271
R9 X	44066635233	3E2.7.13.11E2.53.839	R9 X	5699641486	2.7E2.11.41.43.2999	R9 X	8001520875	3E3.5E3.47.73.691	R9 X	10128267585	3E2.5.19.47.103.2447
1053	4396203070	2.5.7E2.107.191.439	1161	5745724875	3E4.11.5E3.23.2243	1277	7347995392	2E8.269.106703	1374	8971549180	2E2.5.11.2963.13763
R9 X	49648567770	2.5.31.131.179.683	R9 X	6453305397	3E4.11.7.67.15443	L1 X	7373955488	2E5.71.3245579	R9 X	11589884804	2E2.151.211E2.431
1066	4589689390	2.5.11.13.167.19219	1162	5747841099	3E2.7.13.11E2.31.1871	1281	7430796945	3E2.5.13.11E2.113.929	1380	9018517725	3E4.5E2.7.349.1823
R9 X	5174685650	2.5E2.79.881.1487	R9 X	5852448693	3E5.7.13.23.37.311	R9 X	7967123775	3E2.5E2.13.569.4787	R9 X	10138589475	3.5E2.7.19311599
1069	4617085725	3E3.5E2.7.53.103.179	1168	5815260550	2.11.31.5E2.17.20063	1284	7482410325	3E2.5E2.13.31.179.461	1384	9075291470	2.7E2.5.23.43.61.307
R9 X	5410843875	3E3.5E3.479.3347	R9 X	7082199674	2.11.31.37.43.61.107	R9 X	7531628715	3E2.5.13.31.29.14321	R9 X	11614384306	2.7.41.113.241.743
1070	4634941234	2.7.11.17.37.59.811	1169	5845926555	3E2.5.19.7.37.26399	1287	7523483030	2.5.7E2.53.271.1069	1390	9153086085	3E2.5.13.11.37E2.1039
R9 X	4962509006	2.7E2.13.47.179.463	R9 X	6674009445	3E3.5.19.439.5927	R9 X	8601297130	2.5.37.71.327419	R9 X	10021735035	3E2.5.13.47.389.937
1073	4702051046	2.7.23.11E2.17.31.229	1171	5857529678	2.7E3.13.11.29E2.71	1288	7534469228	2E2.19.11.13.761.911	1391	9159365024	2E5.53.241.22409
R9 X	5446976794	2.7.23.29.151.3863	R9 X	6785209522	2.7.13.239.389.401	R9 X	8810613652	2E2.19E2.227.26879	L1 X	9290429416	2E3.17.4157.16433
1074	4709813710	2.5.7.1307.51479	1172	5864752630	2.5.11E2.53.109.839	1289	7562801950	2.5E2.11.2099.6551	1394	9205801010	2.5.7E3.109.24623
R9 X	4986547250	2.5E3.47.59.7193	R9 X	6080349770	2.5.11.2393.23099	L1 X	7792465250	2.5E3.19.1640519	R9 X	10296406990	2.5.37.53.191.2749
1077	4763730208	2E5.17.1949.4493	1175	5906679975	3E5.5E2.7.138899	1291	7579753125	3.5E5.7.19.6079	1398	9262239250	2.5E3.11.1783.1889
L1 X	5173851992	2E3.41.15773939	R9 X	6632100825	3.5E2.7.2777.4549	R9 X	7619274075	3.5E2.7.19.419.1823	R9 X	9673564910	2.5.17.47.181.6689
1080	4785332175	3E5.5E2.13E2.59.79	1177	5907709665	3E2.5.13.11.79.11621	1293	7592910975	3E3.5E2.13.43.20123	1399	9271316500	2E2.5E3.53.271.1291
R9 X	5126533425	3E2.5E2.13.479.3659	R9 X	6275865375	3E2.5E3.13.429119	R9 X	7778605185	3E2.5.13.43.29.10663	R9 X	11451453932	2E2.47.101.683.883
1083	4802570325	3E3.5E2.7.293.3469	1179	5935418265	3.5.7E2.19.47.9043	1305	7780806075	3.5E2.7.17.149.5851	1405	9357224877	3E2.7E3.13.11E2.41.47
L1 X	5317615275	3.5E2.7.139.72869	R9 X	5941886055	3.5.7.19.37.101.797	R9 X	7893190725	3.5E2.7E2.43.199.251	R9 X	10162493523	3E5.7E3.13.83.113
1084	4839564015	3E2.5.13.11.61.12329	1182	5945041304	2E3.17.37E3.863	1309	7822669778	2.7E2.11.19.167.2287	1409	9490622048	2E5.61.4861999
R9 X	5177919825	3E2.5E2.13.359.4931	R9 X	6199515496	3E3.23.821.41039	R9 X	7952449582	2.7.11.19.131.20747	L1 X	9500349952	2E9.4079.4549
1085	4842186615	3E3.5.7E2.359.2039	1186	6001753725	3E5.5E2.11.19.29.163	1311	7900303190	2.5.31.13.619.3167	1411	9549021568	2E7.37.101.19963
R9 X	5204405385	3E3.5.23.37.89.509	R9 X	7322393475	3E2.5E2.79.491.839	R9 X	7938683050	2.5E2.31.47.59.1847	R9 X	10182996752	2E4.9043.70379
1094	4931246565	3E2.5.7E2.29.67.1151	1195	6104279475	3E4.5E2.7.499.863	1318	8006813199	3E3.7E2.19.11.23.1259	1417	9818506568	2E3.13E2.29.179.1399
R9 X	5517209115	3E2.5.11.683.16319	R9 X	6859176525	3E3.5E2.53.109.1759	R9 X	8540514801	3E3.7.19.13.113.1619	R9 X	10933693432	2E3.89.1049.14639
1097	4960585125	3E3.5E3.31.17.2789	1196	6107550855	3.5.7E2.19.41.10667	1320	8052147896	3E3.13.509.152111	1420	9844469775	3E2.5E2.7.23.29.9371
R9 X	5067344475	3E3.5E2.31.23.10529	R9 X	6151261305	3.5.7E2.19E2.97.239	R9 X	8239047304	2E3.23.97E2.4759	R9 X	11910566385	3E2.5.19.991.14057
1100	4999722525	3E2.5E2.7.17.29.47.137	1201	6155750475	3E2.5E2.7.23.109.1559	1323	8119394450	2.5E2.31.19.23.11987	1423	9880655085	3E2.5.7.17.233.7919
R9 X	6532396515	3E2.5.59.863.2851	R9 X	7121971125	3E2.5E3.59.61.1759	R9 X	9005223790	2.5.31.73.107.3719	R9 X	10935385875	3E2.5E3.19.431.1187
1102	5032905345	3E2.5.13E2.61.19.571	1209	6261264590	2.5.7E2.149.191.449	1333	8269106625	3E2.13E2.31.61.5E3.23			
L1 X	5091357375	3E2.5E3.13E2.61.439	R9 X	7035695410	2.5.37.53.499.719	L1 X	9402333759	3E2.13E2.31.61.7.467		TOTAL NUMBER:	345
1103	5047072690	2.5.11.37.743.1669	1221	6397019750	2.5E3.11.19.191.641	1335	8279312030	2.5.11.37.881.2309			
R9 X	5151203150	2.5E2.17.191.31729	R9 X	7447992730	2.5.31.3209.7487	R9 X	8443831330	2.5.11E2.1187.5879			
1105	5060442170	2.5.7E2.31.79.4217	1227	6559115488	2E5.53.281.13763	1337	8293896650	2.5E2.13.89.307.467			
R9 X	6018387910	2.5.73.113.72959	R9 X	6645570608	2E4.41.971.10433	R9 X	85966897270	2.5.13.131.181.2789			
1108	5088398630	2.5.7E2.1319.7873	1229	6575884876	2E2.19.41.11E2.107.163	1342	8376676490	2.7.5.13.19E2.43.593			
R9 X	5575517050	2.5E2.37.1187.2539	R9 X	7275607604	2E2.19.41.113.20663	R9 X	11698280566	2.7.967.864107			
1110	5118127490	2.7.5.37.167.11833	1231	6677930385	3E5.7.5.37.21221	1344	8455838230	2.7.5.97.911.1367			
R9 X	5760821374	2.7.11E2.487.6983	R9 X	7412119407	3E5.7E2.11.56591	R9 X	9150518762	2.7.11E2.83.151.431			
1114	5164511625	3E2.7.13.5E3.61.827	1237	6741318350	2.5E2.13.89.116531	1345	8459517832	2E3.17E3.31.53.131			
R9 X	6495742071	3E2.7.13.103.77003	L1 X	6913901410	2.5.13.53.1003469	R9 X	9400398968	2E3.79.2087.7127			
1120	5228978728	2E3.17E2.53.139.307	1246	6794712832	2E8.89.298223	1346	8467262505	3E4.5.13E2.17.19.383			
R9 X	5493671672	2E3.41.89.307.613	R9 X	6920608928	2E5.227.653.1459	R9 X	9899027415	3E4.5.31.487.1619			
1123	5296175750	2.5E3.17.29.97.443	1248	6862936275	3E3.5E2.13.29.149.181	1348	8491739828	2E2.13.11E2.103.13103			
R9 X	5700176890	2.5.19.83.181.1997	R9 X	7354903725	3E2.5E2.13.503.4999	R9 X	9271203916	2E2.13.83.227.9463			
1124	5301374925	3.5E2.11.7E2.199.659	1250	6891050528	2E5.29.2053.3617	1349	8502526305	3E2.7E2.13.5.47.6311			
R9 X	5894337075	3.5E2.11.23.113.2749	R9 X	7154242552	2E3.23E2.971.1741	R9 X	10355911839	3E2.7.13.53.227.1051			
1133	5442123375	3E3.5E3.13.71.1747	1251	6898979516	2E2.11.13E2.269.3449	1355	8557778500	2E2.5E3.197.283.307			
R9 X	5552656785	3E3.5.13.37.233.367	R9 X	7420038484	2E2.17.29.149.25253	R9 X	10355067452	2E2.23.9371.12011			
1135	5444435745	3E2.5.7.61.67.4229	1254	6943893957	3E2.7.13.19.11.113.359	1361	8676652328	2E3.19E2.47.97.659			
R9 X	5683780575	3E2.5E2.11.563.4079	R9 X	7397123643	3E2.7E2.13.19.59.1151	R9 X	9066365272	2E3.43.59.587.761			
1138	5455059448	2E3.127.19E2.107.139	1265	7143425289	3E3.7.13.11.113.2339	1362	8717951385	3E2.5.13.11E2.79.1559			
9 X	5605522952	2E3.127.41.53.2539	R9 X	7197592311	3E3.7E2.13.17.103.239	R9 X	9407501415	3E2.5.13.37.223.1949			
1139	5477707264	2E9.59.149.1217	1266	7148883170	2.5.11.13.89.56171	1366	8850661358	2.7E2.19.11.601.719			
9 X	5736418736	2E4.131.1049.2609	R9 X	8138888350	2.5E2.17.19.251.3623	R9 X	8937716242	2.7.19.13.89.113.257			
1148	5575354850	2.5E2.13.17.83.6079	1269	7274734155	3E2.5.13.19.53E2.233	1367	8851379072	2E7.29.433.5507			
9 X	6393879070	2.5.41.139.151.743	R9 X	7356799125	3E2.5E3.13.41.12269	R9 X	9435731728	2E4.3467.170099			

### Appendix III

The gcd's of the first 1427 APs

GCD	FREQ	RANK NUMBER(S) OF AP'S WITH THIS GCD										
2	2											
4	67	2	278									
		1	3	4	23	24	36	53	64	83	97	
		115	153	154	165	209	226	238	255	267	274	
		294	313	323	345	347	348	502	505	570	586	
		632	645	721	738	748	750	763	776	800	807	
		811	822	842	846	852	867	877	909	920	937	
		975	976	1060	1119	1132	1160	1251	1307	1316	1322	
		1350	1355	1365	1368	1374	1399	1406				
8	208	5	6	17	21	26	31	32	33	34	35	
		37	40	42	47	59	62	65	67	69	74	
		76	80	81	84	90	93	94	95	103	110	
		112	116	120	122	126	131	140	143	144	148	
		150	159	161	163	174	180	182	184	186	192	
		199	201	206	208	212	217	218	239	240	244	
		258	266	279	280	293	296	298	300	305	311	
		314	315	317	318	330	333	339	353	357	361	
		363	374	375	376	382	387	400	405	417	432	
		438	447	452	455	458	459	463	467	475	498	
		513	523	525	546	552	553	558	571	574	579	
		580	587	591	599	606	631	633	639	644	646	
		652	658	665	668	690	702	713	716	720	722	
		727	737	762	771	788	806	808	814	836	845	
		848	854	855	858	863	869	871	876	881	912	
		913	919	925	942	946	953	972	973	974	978	
		981	982	992	999	1011	1026	1028	1043	1063	1077	
		1078	1079	1113	1117	1120	1126	1130	1141	1152	1153	
		1164	1170	1182	1184	1213	1218	1222	1235	1243	1250	
		1252	1253	1279	1302	1320	1329	1345	1354	1356	1361	
		1376	1378	1391	1393	1404	1407	1408	1417			
10	94	13	18	43	45	49	52	54	55	58	70	
		75	79	98	99	105	107	128	146	190	210	
		219	227	228	264	275	283	286	289	299	328	
		332	343	378	420	437	441	448	476	479	507	
		519	534	544	589	598	609	617	620	627	664	
		670	674	676	723	759	769	826	834	835	843	
		859	897	904	1001	1007	1023	1027	1042	1053	1062	
		1064	1066	1074	1093	1103	1104	1105	1108	1111	1123	
		1148	1159	1167	1209	1221	1240	1257	1266	1285	1287	
		1373	1394	1398	1419							
14	30	25	61	73	77	119	127	135	177	187	198	
		249	377	395	399	412	470	480	651	701	756	
		790	809	825	857	873	1070	1110	1342	1344	1384	
15	1	900										

16	150	8	10	16	19	20	27	29	39	51	60
		63	68	86	118	121	156	158	164	169	175
		179	185	193	196	213	231	232	248	257	281
		284	285	288	307	320	322	326	327	336	351
		365	366	381	385	390	397	407	429	433	434
		435	445	450	453	454	474	486	487	509	514
		527	536	545	550	573	575	577	578	583	625
		643	654	669	671	672	673	682	692	696	699
		706	735	742	744	778	799	828	850	866	887
		894	903	906	918	930	945	951	958	962	966
		970	1006	1010	1016	1020	1021	1035	1036	1041	1059
		1075	1086	1095	1106	1115	1116	1125	1127	1128	1129
		1139	1146	1154	1180	1187	1192	1194	1198	1202	1211
		1214	1227	1238	1241	1244	1256	1261	1268	1274	1292
		1297	1326	1328	1336	1364	1367	1411	1415	1416	1424
21	1	316									
22	3	89	567	1403							
32	76	57	130	139	142	155	216	229	246	247	268
		287	324	335	344	346	352	371	380	411	413
		419	439	456	457	468	471	477	535	540	568
		595	616	655	686	694	710	757	761	827	856
		860	870	883	916	923	948	956	957	960	979
		991	1003	1058	1067	1072	1118	1122	1163	1166	1178
		1210	1223	1242	1246	1277	1308	1310	1341	1343	1360
		1382	1383	1388	1395	1396	1409				
44	37	22	88	211	262	304	388	398	428	566	572
		596	603	608	624	662	697	752	758	770	823
		829	868	892	911	914	915	932	964	989	990
		1032	1092	1101	1273	1303	1321	1330			
45	26	14	108	132	141	214	220	252	265	301	331
		342	465	497	618	687	775	777	885	1094	1100
		1135	1258	1275	1371	1420	1423				
50	43	44	71	91	124	129	181	223	263	272	358
		404	423	451	500	512	551	739	751	773	797
		821	837	864	880	901	947	967	985	988	1008
		1038	1096	1107	1131	1190	1204	1207	1208	1230	1289
		1295	1340	1400							
52	13	133	195	271	422	473	499	504	562	634	997
		1319	1348	1357							
63	2	746	931								
64	22	92	197	464	526	594	611	638	641	801	886
		891	902	907	1015	1076	1156	1245	1283	1286	1315
		1331	1413								
68	3	362	402	485							







18135	2	893	1284				
18837	1	678					
20925	6	717	760	810	1097	1228	1263
21068	1	910					
21879	1	1048					
23895	1	1296					
25155	1	1293					
30303	1	787					
31635	1	303					
33579	1	530					
34749	1	531					
38025	1	1236					
38493	1	1299					
40131	1	1405					
42826	1	1219					
43875	1	888					
44732	1	1033					
48735	1	896					
49005	3	708	755	993			
52725	1	899					
63063	1	629					
68607	1	796					
90675	1	1191					
108927	4	847	1056	1134	1334		
180873	1	640					
463905	1	1102					
539055	1	1030					
556101	1	460					
2876211	1	1333					

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