

Computation of All the Amicable Pairs Below 10^{10}

By H. J. J. te Riele

Abstract. 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. In three appendices (contained in the supplements section of this issue), 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.

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

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

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, 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} . Of these, 601 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.

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Three appendices to this paper appear in the supplements section of this issue. These may also be obtained by writing to the author.

In Appendix I, 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 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, $P_{i,j} := \prod_{k=i}^{i+j-1} p_k$, $Q_{i,j} := \prod_{k=i}^{i+j-1} p_k / (p_k - 1)$. We start with the following lemma which gives an upper bound 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 $\sigma(m)/m < Q_{i,j}$.*

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

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

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 γ 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, much unnecessary factorization time may be avoided. The price to pay for this gain 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 α ($m_1 := m_1 p_{i-1}^e$, $m_2 := m/m_1$, $\alpha := \alpha \cdot \sigma(p_{i-1}^e)/p_{i-1}^e$). 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), go to 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 α : if the updated α 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 (of the supplements section) 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
R942	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].

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 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 Feb. 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

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 squarefree, 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 (of the supplements section) 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.

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 was 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

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

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

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 (auq, as_1s_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 (auq, as_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: $(2^4331.19.6619, 2^4331.199.661)$ 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:

$$\#577: 2^4 \left\{ \begin{array}{l} 19^2103.1627 \\ 3847.16763 \end{array} \right. \quad \text{and} \quad \#874: 2^219 \left\{ \begin{array}{l} 13^237.43.139 \\ 41.151.6709. \end{array} \right.$$

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

	even members	odd members
regular	# 503, type (2,2)	# 899, type (3,2)
	# 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

TABLE 5
All (37) pairs from the first 1427 APs having the same pair sum

rank numbers	pair sum	prime decomposition of the pair sum, i.e., exponents belonging to the primes										
		2	3	5	7	11	13	17	19	23	31	37
32	35	1296000	7	4	3							
105	109	20528640	9	6	1							
137	138	37739520	10	4	1	1						
172	173	75479040	11	4	1	1						
272	276	321408000	10	4	3							1
282	286	348364800	13	5	2	1						
350	351	556839360	6	6	1	1	1					
347	355	579156480	9	5	1	2						1
373	375	638668800	12	4	2	1	1					
368	377	661893120	12	5	1	1						1
395	399	761177088	10	5		1				1	1	
411	415	796340160	6	5	1	2	1			1		
427	433	883872000	8	4	3		1					1
462	476	1181174400	7	5	2	2						1
486	491	1282417920	8	5	1	1			1		1	
574	582	2068416000	9	5	3	1						1
626	630	2395008000	10	5	3	1	1					
653	665	2682408960	12	5	1	2	1					
695	697	3155023872	11	4		1	1	1				
717	730	3599769600	13	4	2	1						1
751	753	4049740800	10	6	2	1						1
798	807	4606156800	13	3	2	2			1			1
786	787	4716601344	13	2		1		1	1			
824	840	5094835200	10	7	2	1			1			
940	941	6824563200	9	3	2	2		1				1
926	952	6897623040	13	7	1	1	1					
997	998	7925299200	11	5	2	2		1				
1012	1019	8273664000	11	5	3	1			1			
1069	1097	10027929600	12	5	2			1				1
1124	1142	11195712000	9	3	3		1		1		1	
1147	1150	11416204800	9	4	2	1	2	1				
1143	1181	12098211840	12	5	1		1	1	1			
1232	1233	13473008640	10	5	1	2		1	1			
1254	1265	14341017600	12	4	2	1		1				1
1249	1255	14478912000	9	5	3	2						1
1272	1278	15058068480	10	5	1	2		1				1
1410	1425	19926466560	14	5	1	1	1	1				

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.

Another question, suggested by Professor 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 ≤ 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.

In Appendix III (of the supplements section) we tabulate all the greatest common divisors of the first 1427 APs, ordered according to their size, with frequencies, and with the rank numbers of all the APs corresponding to a given gcd. This might be useful in further searches for special APs, and in searches for so-called *isotopic* APs (cf., [6, p. 83]). For example, new APs, isotopic with APs from the list of 1427 APs, are obtained by replacing the common factor $3^3 5$ in # # 882 and 1087 by $3^2 7 \cdot 13$, by replacing the common factor $3^3 5^3$ in # 1205 by $3^2 5^2 31$, and by replacing the common factor $3^3 5^2 31$ in # # 717 and 1228 by $3^6 5 \cdot 23 \cdot 137 \cdot 547 \cdot 1093$, and by $3^{10} 5 \cdot 23 \cdot 107 \cdot 3851$.

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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Supplement to Computation of All the Amicable Pairs Below 10^{10}

By H. J. J. te Riele

Appendix I

The first 1427 APs

L1 21 220 2E2.5.11 3D	31 600392 2E3.13.23.251 6D
2 1184 2E5.37	L1 32 669688 2E3.97.863
L1 X 1210 2.5.11E2	32 609928 2E3.11.29.239
3 2628 2E2.5.131	L1 32 686072 2E3.191.449
L1 22 2924 2E2.17.43	33 624184 2E3.11.41.173
4 5028 2E2.5.251	L1 32 691256 2E3.71.1217
L1 22 5564 2E2.13.107	34 635624 2E3.11.31.233
5 6232 2E3.19.41	L1 32 712216 2E3.127.701
L1 X 6368 2E5.199	35 643336 2E3.29.47.59
6 10744 2E3.17.79	L1 32 652664 2E3.17.4799
L1 22 10856 2E3.23.59	36 667964 2E2.11.17.19.47
7 12285 3E3.5.7.13	L1 43 783556 2E2.31.71.89
L1 X 14595 3.5.7.139	37 726184 2E3.17.19.281
8 17296 2E4.23.47	L1 32 796696 2E3.53.1879
L1 21 18416 2E4.1151	38 802725 3.5E2.7.11.139
9 63020 2E2.23.5.137	L1 X 863835 3.5.7.19.433
L1 21 76084 2E2.23.827	39 879712 2E5.37.743
10 66928 2E4.47.89	L1 X 901424 2E4.53.1063
L1 22 66992 2E4.53.79	40 898216 2E3.11.59.173
11 67095 3E3.5.7.71	L1 32 980984 2E3.47.2609
L1 22 71145 3E3.5.17.31	41 947835 3E3.5.7.17.59
12 69615 3E2.7.13.5.17	L1 32 1125765 3E3.5.31.269
L1 21 87633 3E2.7.13.107	42 998105 2E3.17.41.179
13 79750 2.5E3.11.29	L1 32 1843099 2E3.23.5669
L1 X 88730 2.5.19.467	43 1677899 2.5.11.41.239
14 100485 3E2.5.7.11.29	L1 33 1699390 2.5.17.29.223
L1 32 124155 3E2.5.31.89	44 1154450 2.5E2.11.2099
15 122265 3E2.5.13.11.19	L1 22 1189150 2.5E2.17.1399
L1 21 139815 3E2.5.13.239	45 1156870 2.5.11.13.809
16 122364 2E9.239	L1 32 1292570 2.5.19.6803
L1 X 123152 2E4.13.179	46 1175265 3E2.7E2.13.251
17 141664 2E5.19.233	L1 21 1438983 3E2.7E2.13.251
L1 X 153176 2E3.41.467	47 1185376 2E5.17.2179
18 142316 2.5.7.19.107	L1 X 1286744 2E3.41.3923
L1 32 168730 2.5.47.359	48 1280565 3E2.5.13.11.199
19 171856 2E4.23.467	L1 22 1340235 3E2.5.13.29.79
L1 22 176336 2E4.103.107	49 128470 2.5.11.13.929
20 176272 2E4.23.479	L1 X 1483056 2.5E2.59.503
L1 22 188848 2E4.89.127	50 1358595 3E2.5.19.7.227
21 185364 2E3.17.29.47	L1 22 1486845 3E2.5.19.37.47
L1 32 203432 2E3.59.41	51 1392364 2E4.17.5119
22 196724 2E2.11.17.263	L1 22 1464592 2E4.239.383
L1 22 202444 2E2.11.43.107	52 1466158 2.5E2.7.59.71
23 280540 2E2.5.13E2.83	L1 X 1747930 2.5.47.3719
L1 X 365884 2E2.107.853	53 14683124 2E2.11.13.17.151
24 308624 2E2.5.13.1187	L1 43 1749212 2E2.37.55.223
L1 32 389924 2E2.43.2267	54 1511398 2.5.7.21599
25 319556 2.7.5E2.11.83	L1 23 1598470 2.5.19.47.79
L1 X 430402 2.7.71.433	55 1669310 2.5.11.17.19.47
26 356408 2E3.13.23.149	L1 42 2062570 2.5.239.863
L1 32 399592 2E3.199.251	56 1798875 3E3.5E3.13.41
27 437456 2E4.19.1439	L1 X 1870245 3E2.5.13.23.139
L1 22 455344 2E4.149.191	57 2082464 2E5.59.11E3
28 469828 2E2.7E2.2393	L1 22 2090656 2E5.79.827
L1 X 486170 2.7.E2.11E2.41	58 2236570 2.5.7.89.359
29 503856 2E4.23.1367	L1 33 242903 2.5.23.59.179
L1 22 514736 2E4.53.607	59 2652728 2E3.13.23.1109
30 522405 3E2.5.13.19.47	L1 32 2941672 2E3.71.5179
L1 22 525915 3E2.5.13.29.31	60 2723792 2E4.37.43.107
	L1 32 2874064 2E4.263.683

61	2728726	2.7.11.13.29.47	7D	91	7577350	2,5E2.11.23.599	7D	121	12397552	2E4.-23.59.571	8D	151	23358248	2E3.-37.23.47.73	
L1	43	3077354	2.7.19.23.503	L1	32	8493050	2,5E2.59.2879	L1	121	13136528	2E4.359.2287	L1	31	25233112	2E3.35.87.247
62	2739794	263.11.163.191	L1	92	7677248	2E6.139.863	L1	122	12707704	2E3.17.41.43.53	L1	32	2338965	3E3.5.5.53.467	
L1	32	2928136	2E3.31.11.1807	L1	22	7684672	2E6.167.719	L1	124	14263136	2E3.107.16631	L1	33	25125245	3E3.5.17.47.233
63	2802416	264.17.1039	L1	93	7800544	2E5.43.5669	L1	123	13671735	3..5.19.782.11.89	L1	34	2362894	2E2.5.37.826.863	
L1	22	2947216	2E4.167.1103	L1	X	7916696	2E3.17.58211	L1	124	15878065	3.5.19.17.29.113	L1	35	27428276	2E2.17.251.1687
64	2803580	2E2.5.13.41.263	L1	94	7850512	2E4.37.89.149	L1	124	13811150	2..5E2.13.79.269	L1	36	24472188	2E2.5.17.167.431	
L1	42	3171616	2E2.503.1847	L1	X	8052488	2E3.29.61.569	L1	124	14314095	2E2.552.29.71.139	L1	33	38395276	2E2.47.167.1511
65	3276858	2E3.11.23.1619	L1	95	8262136	2E3.17.79.769	L1	125	139321528	2E3.11.67.1367	L1	35	25596544	2E7.311.643	
L1	32	3721541	2E3.647.7147	L1	33	83169864	2E3.29.43.839	L1	125	13985672	2E3.19.101.911	L1	36	25649896	2E5.67.11959
66	3606850	2.5E2.31.13.179	L1	96	8619765	3.5..11.7.17.439	L1	126	14311688	2E3.17.47.2239	L1	32	25966832	2E4.29.191.293	
L1	X	8382670	2.5.31.29.433	L1	33	9627915	3.5..11.23.43.59	L1	127	14426230	2.7..5.31.11.191	L1	33	26298035	2E2.582.17.19.359
67	3787694	2E3.11.23.1871	L1	97	8666864	2E2.5.23.83.227	L1	127	1808088	2.7.1..11.71.587	L1	34	26138475	2E2.52.11.59.157	
L1	32	4300134	2E3.467.1151	L1	43	10638356	2E2.47.71.797	L1	128	14444730	2.5..7.83.4211	L1	35	2818032	2E4.47.139.269
68	3805264	2E4.29.59.139	L1	98	8754136	2.5..7.11.11369	L1	128	18093230	2.5.19.179.467	L1	33	28128368	2E4.59.83.359	
L1	32	4006733	2E4.179.1399	L1	32	10893230	2.5.757.1439	L1	129	14651150	2..5E2.7.149.281	L1	34	28680244	2E3.13.193.1979
69	4238984	2E3.17.71.439	L1	99	8826670	2.5..11.19.41.103	L1	130	16657058	2.5E2.179.1879	L1	33	29603576	2E3.23.349.461	
L1	33	4314616	2E3.23.131.179	L1	43	10043690	2.5.31.179.181	L1	131	15802464	2E5.37.12671	L1	34	30724694	2.7.13..11.103.149
70	4246130	2.5..7.66659	L1	100	9071685	3E2.5.31.7.929	L1	132	15833494	2E5.227.211	L1	32	32174506	2.7.13.17.10399	
L1	23	4488910	2.5.23.29.673	L1	22	9498555	3E2.5.31.11.619	L1	133	15363892	2E3..11.71.2459	L1	33	30830696	2E3.13.521.569
71	4259756	2.5E3.11.1549	L1	101	9199493	2E3.29.19.2087	L1	133	16517766	2E3.53.163.239	L1	34	31562704	2E5.449.2203	
L1	X	4445650	2.5E2.19.4679	L1	22	9592594	2E3.29.173.239	L1	134	15938055	3E2.5..7.19.2663	L1	35	31536855	2E2.5.5.53.1889
72	4482765	3E2.5.19.782.107	L1	102	9206925	3.5E2.7.13.19.71	L1	133	17390865	3E2.5..11.73.479	L1	31	32148585	2E2.5.7.102059	
L1	X	5120595	3E2.5.19.53.113	L1	X	10791795	3.5..7.79.1381	L1	133	16136726	2E2.13..23.183.131	L1	32	31818952	2E3..11.41.8819
73	4532711	2.7.5.13.17.293	L1	103	9339704	2E3.11.211.583	L1	133	16150628	2E2.13..31.43.233	L1	33	34869248	2E3.97.167.269	
L1	42	6135962	2.7.7.71.6173	L1	104	9363584	2E7..191.383	L1	134	16871582	2.7..2E2.19.13.17.41	L1	34	32205616	2E4..17.167.709
74	6464776	2E3.11E2.67.71	L1	104	9431856	2E7..191.722	L1	134	19352692	2.7..2E2.19.97.107	L1	31	34352624	2E4.214.793	
L1	X	5162767	2E3.113.5711	L1	105	9477810	2.5..7.79.71.727	L1	135	17841816	2.7..5.31.7853	L1	32	32642324	2E2..11.13.149.383
75	5128993	2.5..7.163.449	L1	105	94916730	2.5..7.79.197	L1	135	19150222	2.7..13..43.2447	L1	33	34595276	2E2.17.47.79.139	
L1	33	5504110	2.5..7.59.59.491	L1	106	9491625	3E2.5..5E3.13.11.59	L1	136	17257695	3.5..7.13..47.2663	L1	34	32685250	2E5..53.189.113
76	5170372	2E3.11.73.2543	L1	106	9586165	3E2.5..13.18719	L1	137	17578785	3.5..7.23.29.251	L1	35	34538270	2.5..13.379.701	
L1	32	5340384	2E3.384.1960	L1	107	9664950	2.5E2.13.89.167	L1	137	17754163	3E2.5..11.31..31.89	L1	36	33501825	2E2.5E2.7.89.239
77	5232010	2.5..7.41.1823	L1	107	9664950	2.5E2.13.89.167	L1	138	19958355	3E2.5..13.127.269	L1	33	36136575	2E2.5E2.19.79.107	
L1	X	7095942	2.5..7.723.1..83	L1	108	9773505	3E2.5..7.19.23.71	L1	138	17844255	3E2.5..13.11.47.59	L1	34	34256222	2.7.11..13.71.241
78	5375672	3..7.13..5E3.157	L1	108	9773505	3E2.5..7.19.23.71	L1	139	17908864	2E5..53.10559	L1	35	34364912	2E4..49.199.251	
L1	X	5684679	3E2.7.11..11.631	L1	109	10254979	2.5..11..53.1759	L1	140	18056312	2E5..79.7127	L1	36	34386688	2E4..47.131.349
79	5385310	2.5..7.107.719	L1	110	10273673	2.5..11..59.1883	L1	140	18056312	2E5..79.7127	L1	37	34765731	2E2..7.11..11.17.227	
L1	33	5812130	2.5..7.17.199.191	L1	110	10533296	2E4..19..34649	L1	141	18194713	3E2.5..11.31..31.89	L1	38	35151795	2E3..5.11..13.17.107
80	5491579	2E3.17.137.293	L1	110	10949784	2E3.29..189.433	L1	141	18220485	3E2.5..31.107.149	L1	39	36393957	2E2..7.13..23..37.53	
L1	X	5495264	2E5..83.2069	L1	111	10572550	2.5E2.31..19.359	L1	142	18554744	2E9..83.439	L1	40	37363205	2E3..5.53.6447
81	5726782	2E3..11..31..2899	L1	112	10854650	2.5E2.31..47.149	L1	142	19154333	2E5..61.969	L1	41	38030698	2E3..5.53.1063	
L1	32	6369928	2E3.79.10079	L1	112	10956368	2E4..29..41.557	L1	143	20014808	2E3..11..79.2879	L1	42	38449486	2E7..13..53.101
82	5720615	3E3.5..11.17.227	L1	113	11199112	2E3..53..61.433	L1	143	21457192	2E3..47..149.383	L1	43	38494496	2E3..5.13..23.29.97	
L1	33	6088995	3E3.5..23..17.53	L1	113	10634085	3E4..7.11E2.5..31	L1	144	20022323	2E3..17..23..37.173	L1	44	38499008	2E3..19..23..53.191
83	5846666	2E2.5..17.47.367	L1	114	10929273	3E2.5..13..19..23..43	L1	145	20389895	3E3..5..7.21491	L1	45	38408915	2E3..5.11..23..47.1097	
L1	42	7489324	2E2.55..35327	L1	115	11173460	2E2.5..53..83.127	L1	145	20956548	3E3..5..17..23..397	L1	46	38446389	2E3..5..11..17..1039
84	6329414	2E3..23..41..839	L1	115	12078305	3E2.5..13..47..439	L1	146	21448633	2.5..7.131..23.39	L1	47	38472273	2E3..5..13..11..23..239	
L1	33	6371384	2E3..19..167..251	L1	115	11173460	2E2.5..53..83.127	L1	146	21448633	2.5..7.131..23.39	L1	48	38489152	2E3..5..11..23..47.1097
85	6371717	3E2..5E2.7.4049	L1	115	12120767	2E2..31..47..2267	L1	147	22227083	3E2..5..13..17..149	L1	49	38489154	2E3..5..11..23..47.1097	
L1	22	6680925	3E2..5E2..11..2699	L1	115	11252648	2E3..11..71..1801	L1	147	22227083	3E2..5..13..17..149	L1	50	38468633	2E3..19..23..29..223
86	6955210	2E4..19..137..167	L1	115	11252648	2E3..11..71..1801	L1	148	22424952	3E2..4..13..41..2689	L1	51	384784810	2E3..5..13..23..29..97	
L1	31	7148864	2E4..463679	L1	115	11498353	3E4..5..11..29..89	L1	148	22424952	3E2..4..13..41..2689	L1	52	38494496	2E3..5..13..41..2689
87	6993610	2.5..13..23..2339	L1	115	12024045	3E4..5..11..2699	L1	149	22535282	3E3..5..87..5393	L1	53	384784915	2E3..5..13..23..29..97	
L1	22	7158710	2.5..13..53..1039	L1	116	11545616	2E4..19..163..233	L1	149	22508145	3E3..5..11..23..659	L1	54	38408512	2E9..179..419
88	7275532	2E2..11..37..41..109	L1	116	12247594	2E4..19..1559	L1	150	22311053	3E3..5..11..29..197	L1	55	38398328	2E4..189..269	
L1	43	8221598	2..11..7..197..271	L1	116	12361622	2..7..12..31..313	L1	150	22608633	2E3..19..23..29..223	L1	56	38637016	2E3..11..359..1223
89	7288939	2..11..5..23..43..67	L1	116	12361622	2..7..12..31..313	L1	151	227311053	3E3..5..11..29..197	L1	57	38637016	2E3..11..359..1223	
L1	43	8221598	2..11..7..197..271	L1	116	11905504	2E5..13..28619	L1	152	23026053	3E3..5..11..23..359	L1	58	38637016	2E3..11..359..1223
90	7498112	2E3..17..53..1039	L1	116	13337336	2E3..187..15581	L1	152	23577536	2E3..1439..2239	L1	59	38678124	2E3..29..271..647	

181	38663950	2.5E2.13.17.3499	8D	211	72958556	2E2.11.19.197.443	8D	241	108734050	2.5E2.31.29.41.59	9D	271	148077644	2E2.13.11.83.3119	9D
L1	32	43362050	2.5E2.59.14699	L1	33	74733604	2E2.11.53.73.439	L1	32	116251550	2.5E2.31.179.419	L1	32	160128436	2E2.13.47.65519
182	8783992	2E3.13.37.10079		212	73032872	2E3.11.71.11689		242	109419345	3E4.5.11.41.599		272	153015550	2.5E2.19.23.47.149	
L1	33	41654408	2E3.47.139.797	L1	33	78469528	2E3.59.83.2083	L1	22	110132055	3E4.5.11.59.419	L1	43	168392450	2.5E2.79.89.479
183	38807968	2E5.37.73.449		213	74055952	2E4.23.61.3299		243	11096710	2.5.67.7.59.481		273	15419750	2.7E2.5E3.41.307	
L1	X	40912232	2E3.37.89.1553	L1	32	78166448	2E4.197.24799	L1	32	125222330	2.5.67.31.6029	L1	X	196889986	2.7E2.43.97.467
184	439695984	2E3.17.41.59.131		214	74386350	3E2.5.7.17.29.479		244	114944072	2E3.17.19.44483		274	155578180	2E2.5.223.34883	
L1	43	46715896	2E3.53.239.461	L1	43	87354495	3E2.5.19.71.1439	R3	33	125269528	2E3.53.439.673	R9	34	172610492	2E2.23.41.67.683
185	44139856	2E4.29.251.379		215	74769345	3E3.5.7E2.89.127		245	115259625	3E3.5E3.13.37.71		275	155797394	2.5.7.863.2579	
L1	33	44916944	2E4.83.149.227	L1	X	82824255	3E3.5.17.151.239	R9	X	123757335	3E3.5.13.151.467	L1	33	165195890	2.5.23.29.24767
186	45263384	2E3.17.59.5641		216	75171808	2E5.53.127.349		246	115447424	2E7.59.15287		276	156226850	2E3.31.23.61.449	
L1	33	46137016	2E3.19.433.701	L1	32	77237792	2E5.479.5039	L1	X	118458976	2E5.349.10607	L1	32	165181144	2E3.31.199.3347
187	46237738	2.7.5.11.182.53.103		217	75226888	2E3.11.59.14489		247	115749344	2E5.47.76961		277	157151414	2.5.13E3.23.311	
L1	X	61319992	2.7.83.113.467	L1	33	81265112	2E3.53.137.1399	L1	X	116983744	2E6.431.4241	R9	X	163634510	2.5.13.89.14143
188	46271745	3E2.5.13.19.23.181		218	780888504	2E3.13.31.53.457		248	116654896	2E4.23.359.883		278	161088158	2.7.11.17.37.1663	
L1	X	49125375	3E2.5E3.13.3359	L1	42	88110536	2E3.167.65951	L1	33	120115664	2E4.101.239.311	R9	55	1667086530	2.5.23.31.103.227
189	46521405	3E3.5.7.19.2591		219	78447010	2.5.17.19.149.163		249	118458830	2.7.5.37.45737		279	162936984	2E3.13.719.2179	
L1	33	53011395	3E3.5.31.53.239	L1	43	80960990	2.5.11.491.1499	L1	X	131819506	2.7E2.13.107.967	R9	33	166679096	2E3.19.839.1307
190	46555250	2.5E3.7.37.719		220	79324875	3E2.5E3.7E2.1439		250	120812175	3E3.52E.11.53.307		280	164733752	2E3.31.53.83.151	
L1	X	55880590	2.5.103.227.239	L1	X	87133365	3E2.5.11.103.1709	R9	X	126671985	3E3.5.11.197.433	R9	43	166212888	2E3.17.383.3191
191	46991890	2.5.29.11.17.4731		221	80422335	3E3.5.7.85103		251	121933150	3E3.5.13.11.61.103		281	165323696	2E4.37.97.2879	
L1	X	48471470	2.5.29.19.19E2.463	L1	23	82977345	3E3.5.11.71.787	R9	X	138690045	3E2.5.13.383.619	R9	33	167155024	2E4.59.113.1567
192	48639032	2E3.13.29.16127		222	826330805	3E2.7.13.5.17.1187		252	127924335	3E2.5.7.11.36919		282	165742395	3.5.7.13.29.53.79	
L1	33	529673636	2E3.59.293.383	L1	32	104177619	3E2.7.13.131.971	L1	X	148532625	3E2.5E3.31.4259	R9	43	182622405	3.5.7.41.59.719
193	48641584	2E4.29.164831		223	83135650	2.5E2.13.79.1619		253	131118975	3E2.5E2.13.23.1949		283	166737550	2.5E2.7.359.1327	
L1	23	48852176	2E4.47.167.389	L1	33	856363550	2.5E2.19.251.359	R9	X	132926625	3E2.5E3.13.61.149	R9	X	188953970	2.5.23.829.991
194	49215166	2.31.61.7.11.13E2		224	84521745	3E3.5.7.11.47.173		254	131483835	3E2.5.7.71.5879		284	169330032	2E4.23.47.9767	
L1	X	55349578	2.31.61.5.2927	L1	42	107988335	3E3.5.3.383.2087	L1	22	132692805	3E2.5.7.223.1889	L1	32	179904784	2E4.1583.7103
195	50997596	2E2.13.19.71.727		225	84591405	3E3.5.17.29.31.41		255	133089500	2E2.5E3.23.71.163		285	169000448	2E9.71.4649	
L1	33	51737764	2E2.13.23.181.239	L1	43	89590995	3E3.5.13.71.719	R9	X	176374564	2E2.383.115127	L1	X	173499952	2E4.53.204599
196	52695376	2E4.17.151.1283		226	861582280	2E2.5.41.105071		256	133178325	3.5E2.7E2.83.31.167		286	169335790	2.5.13.19.179.383	
L1	31	56208368	2E4.35.150323	L1	33	91188788	2E2.23.43.25873	L1	X	133471275	3.5E2.7.31.59.139	L1	44	179029010	2.5.23.59.79.167
197	56455872	2E6.79.11487		227	87998478	2.5.7.29.67.647		257	133768816	2E4.19.131.3359		287	169652512	2E5.71.89.839	
L1	22	56598202	2E3.383.2389	L1	43	102358819	2.5.47.89.2447	L1	32	141213584	2E4.199.44351	L1	32	173269088	2E5.191.28349
198	56512610	2.7.5.11.23.3191		228	88144630	2.5.7E2.29.6203		258	134312152	2E3.13.127.10169		288	169884784	2E4.29.109.3359	
L1	X	57866914	2.7E2.774143	L1	X	102814490	2.5.37.269.1033	L1	33	139457448	2E3.23.233.3389	R9	33	173843216	2E4.71.199.769
199	56924192	2E5.13.193.709		229	89477984	2E5.59.83.571		259	134886465	3E4.5.7E3.971		289	170566698	2.5.7.29.73.1151	
L1	X	64562488	2E3.283.28517	L1	32	91243456	2E5.1637.1759	L1	X	14732335	3E4.5.19.187.179	R9	43	17794670	2.5.31.739.863
200	58850450	2E2.23.5.347.367		230	90437150	2.5E2.23.19.4139		260	136549413	3E2.7.11.13.23.659		290	172271385	3E2.5.13.11.19.1409	
L1	32	70507972	2E2.23.521.1471	L1	22	94372450	2.5E2.23.137.599	L1	22	149207067	3E2.7.11.13.79.197	L1	32	197261415	3E2.5.13.449.751
201	59497882	2E5.41.101.1449		231	91996816	2E4.29.331.599		261	136770875	3E2.5E2.13.19.23.187		291	175032884	2E2.13.17.389.589	
L1	X	61953512	2E3.29.7.2753	L1	33	93259184	2E4.79.89.829	R9	X	155711205	3E2.5.13.17.1497	L1	21	175826716	2E2.13.17.19889
202	63560225	3E3.5E2.17.29.191		232	93837808	2E4.19.83.3719		262	137421488	2E2.11.19.89.1847		292	176632398	2.5.11.43.107.349	
L1	33	65003175	3E3.5E2.23.53.79	L1	32	99899792	2E4.1399.4463	R9	33	141934312	2E2.11.59.83.659	W1	32	182618810	2.5.11.719.2309
203	63717615	3E2.5.13.17.43.149		233	95629904	2E4.67.37.2411		263	138605358	2.5E2.13E2.47.349		293	177997352	2E3.13.653.2621	
L1	32	66811985	3E2.5.13.19.5939	L1	22	97580944	2E4.67.227.401	R9	X	147313850	2.5E2.23.128099	L1	X	182108129	2E5.229.24951
204	66595130	2.5.31.31.7.30689		234	95791430	2.7.17.5.101.479		264	139009990	2.5.7.53.89.421		294	180038452	2E2.11.19.31.6947	
L1	22	74824390	2.5.31.59.4091	L1	32	115187002	2.7.17.113.4283	R3	43	156322498	2.5.23.179.3797	R9	44	193486028	2E2.23.29.47.1543
205	66854710	2.5.17.13E3.179		235	96304845	3.5.7E2.13.10079		265	140744835	3E2.5.7.11.151.269		295	181088985	3.5.7.11.83.1989	
L1	X	71946890	2.5.17.83.5099	L1	23	96747315	3.5.7E2.23.59.97	R9	43	165652685	3E2.5.17.239.911	R9	33	184694055	3.5.7.13.269.503
206	67729964	2E3.13.431.1511		236	97041735	3E2.5.7.71.4339		266	1409815384	2E3.19.23.47.857		296	182702024	2E3.19.53.22679	
L1	33	69439576	2E3.23.107.3527	L1	22	97945785	3E2.5.7.239.1381	R9	43	155709416	2E3.89.383.571	L1	33	184713976	2E3.17.719.1889
207	67738268	2E2.19.13.17.37.109		237	102823145	3E4.7E2.5.53.97		267	144788020	2E2.5.13.97.57.541		297	183406615	3E2.5.13.19.59.569	
L1	42	79732132	2E2.19.263.3989	L1	32	116970399	3E4.7E2.13.2267	R9	43	186088988	2E2.83.293.1913	L1	21	19005385	3E2.5.13.19.17.099
208	68891992	2E3.13.23.83.347		238	102719740	2E2.5.2982.31.197		268	145049288	2E5.41.227.487		298	186753688	2E3.11.41.191.271	
L1	42	78437288	2E3.5.23.263.587	L1	X	129863812	2E2.43.431.1741	L1	32	149364256	2E5.1663.4391	L1	42	2008059752	2E3.83.313343
209	71015260	2E2.5.23.263.587		239	103034776	2E3.13.990719		269	146644812	2E2.19.11E2.37.431		299	186878110	2.5.17.19.47.1231	
L1	43	85458596	2E2.41.47.11.0987	L1	23	105016424	2E3.29.47.9631	R9	X	159017308	2E2.19.23.99.0971	R9	44	196323170	2.5.23.41.109.191
210	71241830	2.5.11.19.89.383		240	104887448	2E3.19.71.9719		270	147366765	3E2.7E2.13.5.53.97		300	189406984	2E3.13.71.113.227	
L1	43	78057370	2.5.17.359.1279	L1	33	105064552	2E3.23.47.12149	L1	31	182028483	3E2.7E2.13.31751	R9	43	203592056	2E3.37.797.863

301	190888155	3E2.5.17.19.23.571	90	331	250876395	3E2.5.7.11.17.4259	
R9	49	194594085	3E2.5.7.17.617759	L1	43	233033445	3E2.5.53.283.479
302	195857415	3E2.5.9.13.19.67.263		332	251302370	2.5.11.23.71.1399	
R9	X	196214265	3E3.5.1.3.23.4861	R9	44	271244830	2.5.29.59.83.191
303	196421715	3E2.5.19.37.37.887		333	252551048	2E3.17.31.37.1619	
L1	21	224703495	3E2.5.19.37.71.03	R9	43	279327352	2E3.107.179.1823
304	199432948	2E2.11.13.15.151.2309		334	252949455	3E2.5.13.11.23.1709	
R9	X	213484172	2E2.11E2.197.2239	W1	32	284847615	3E2.5.1.13.89.5471
305	200328232	2E3.13.157.12269		335	253703776	E2.5.59.83.1619	
L1	X	2067907365	2E5.6462199	L1	32	260678624	2E5.449.18143
306	208799555	3E3.5.13.17.6733		336	256575506	2E4.19.79.10691	
L1	X	2063933265	3E5.5.13.73.179	L1	32	273568144	2E4.259.1.6599
307	201168592	2E4.29.491.883		337	256948865	3E3.5.11.23.7523	
L1	33	293314448	2E4.67.89.2131	L1	22	263118815	3E3.5.11.53.3343
308	203505622	2.7.19.11.29.2393		338	258940464	2.7.13.11.79.1637	
L1	X	2105267578	2.7E2.19.31.41.89	L1	33	269448634	2.7.13.23.59.1991
309	2083972715	3E3.5.31.17.47.61		339	268623102	E2.3.13.659.3797	
L1	X	287429525	3E3.5E2.31.23.431	L1	33	266171608	2E3.19.593.2953
310	2084134385	3.5.7.13.17.19.46		340	2647646380	2.5.17.13.47.2549	
L1	42	244869135	3.5.7.38.6089	L1	32	294041776	2.5.17.359.4759
311	284756968	2E3.11.59.113.349		341	265192208	2E4.131.23.5581	
L1	43	2261363996	2E3.79.449.797	L1	22	275148208	2E4.131.251.523
312	208583365	3E2.7E2.13.5.43.167		342	2672127335	3E2.5.7.2E2.11.23.479	
L1	31	252464283	3E2.7E2.13.44351	R9	X	347397705	3E2.5.89.127.683
313	208869362	2E2.11.13.23.29.547		343	2708039916	2.5.7.47.211.399	
R9	53	255308932	2E2.31.167.12329	R9	X	301444256	2.5E3.79.15263
314	209897278	2E3.23.29.43.911		344	270808672	2E5.59.167.857	
R9	43	224355572	2E3.37.38.38.1979	L1	32	274655648	2E5.131.65519
315	209389794	2E3.29.71.97.131		345	271048348	2E2.5.17.972701	
R9	43	209816696	2E3.19.93.16631	L1	33	231636372	2E2.41.73.27781
316	211319745	3.7.5.13.23.53.127		346	271629728	2E5.37.383.599	
R9	55	234587199	3.7.11.17.31.41.47	L1	32	279947872	2E5.179.9119
317	214748488	2E3.17.19.41.2027		347	273141836	2E2.11.23.29.41.227	
L1	42	245281912	2E3.3041.18079	L1	53	306914644	2E2.13.239.24623
318	216392216	2E3.19.53.26681		348	274638460	2E2.5.1693.8111	
L1	33	218772184	2E3.17.659.2441	R9	34	302514116	2E2.17.13.43.387.337
319	221397165	3E3.5.11.29.53.97		349	274893418	2.5.11.11.43.89.653	
R9	43	235831635	3E3.5.13.83.1619	W1	32	284512038	2.5.11.11.1187.2179
320	223878414	2E4.37.79.4787		350	275304598	2.5.11.61.89.461	
L1	32	2327342704	2E4.41.346559	W1	32	281534770	2.5.11.139.18419
321	22488895	3E2.7.11.5.41.1583		351	275631376	2E4.43.53.75759	
L1	32	273272769	3E2.7.11.83.4751	R9	33	281207984	2E4.83.167.1979
322	2326540432	2E4.23.615599		352	276339808	2E5.97.127.701	
L1	23	231465968	2E4.59.359.683	L1	32	278341136	2E5.83.148431
323	227443340	2E2.5.17.43.47.331		353	278247976	2E3.17.41.139.359	
R9	52	302651764	2E2.1187.63743	L1	43	293288024	2E3.31.149.7937
324	231111392	2E5.109.173.383		354	281499435	3E3.5.7.89.3347	
W1	32	231923488	2E5.71.102879	L1	33	2978034965	3E3.5.17.29.4463
325	238162815	3E3.5.23.11.19.367		355	285627615	3.5.7E2.13.167.179	
L1	32	270506385	3E3.5.23.79.1103	R9	33	293528865	3.5.7E2.29.47.293
326	238238864	2E4.41.47.7727		356	286000665	3E5.5.13.19.953	
R9	33	244730224	2E4.97.137.1151	R9	X	297390015	3E3.5.13.41.4133
327	242126784	2E3.24.47.13999		357	287250632	2E3.17.127.16631	
L1	32	25781296	2E4.1399.11519	R9	34	287551288	2E3.31.53.131.167
328	242182930	2.5.11.19.11.15877		358	287793358	2.5E2.13.41.18799	
L1	33	258410303	2.5.17.61.24919	L1	33	302793858	2.5E2.23.251.1049
329	245618415	2E3.5.19.7.41039		359	291679245	3E3.5.29.11.13.521	
W1	23	266567085	3E2.5.19.31.89.113	R9	32	339731955	3E3.5.29.19.187.811
330	248658488	2E3.13E2.189319		360	29174824	2E3.19.89.113.191	
W2	X	256290102	2E3.27.42.2129	R9	33	299801176	2E3.19.167.1439

L1	33	2958243376	283.19.53.36721	9D	391	347401035	SE3.5.11.17.19.131.257
L1	33	299702924	283.17.60!..3659	R9	43	3659173635	SE3.5.11.129.130!..103!
L1	362	3601620652	282.17.13..23.29.509	R9	43	348782488	SE3.31.23.47.130!
L1	42	347621048	282.17.17.19!..28559	W1	32	371171423	SE3.31.55!..267
L1	363	300986984	283.23.29.127.443	R9	33	365775430	2.5.17..11.10!.1889
L1	43	313579684	283.31.89..14297	L1	32	3927532120	2.5.17..147.1619
L1	364	301685895	382.5..1982.752.379	R9	34	357197382	2.7.11.17.19.13..167
L1	X	342005985	382.5..1982.37.569	R9	42	409255285	2.7.11.863.3079
	365	362424784	284.53..71.5023		395	359156779	2..782.5..883.8831
L1	33	383107888	284.47..107.3767	R9	X	4020724318	2..7.17..37..71.643
366	327710676	284.29..257..2539		396	360027675	SE3.582..19.7..53..227	
L1	X	366676928	286..763..6199	R9	X	433805085	SE3..5..19..557..591
367	344443436	282..31..61..1..3659	R9	37	360172336	SE4.17..149..8887	
L1	X	385517524	282..31..61..1..382..23	L1	32	383753264	SE4..2221..10799
368	351178748	2..7.19..11..13..71..113	R9	38	360759562	SE2..11..17..29..16631	
R9	43	356714246	2..7..19..83..107..151	L1	32	392667868	SE3..11..263..34918
369	365363984	284..43..89..4987	R9	39	362645570	2..782..5..643..1151	
L1	22	306962994	284..43..173..2579	R9	X	3035513158	2..7..1..47..55061
370	385911606	2..782..11..13..83..263	R9	400	360007028	SE2..13..19..173..1061	
R9	32	331160522	2..782..11..97..3167	R9	42	413408872	SE3..811..63719
371	388939938	285..37..31..839	R9	401	364102075	SE4..582..17..71..149	
W1	32	318479584	285..2393..4159	R9	33	365912325	SE4..582..19..53..179
372	311414353	383..5..782..179..263	R9	402	3700032676	SE2..17..13..19..2281	
R9	X	338659245	383..5..23..29..3761	R9	33	407256284	SE2..17..67..71..1259
373	311913855	383..5..11..41..47..109	R9	403	371184859	2..7..31..582..43..797	
W1	32	326754945	383..5..11..119..1583	R9	X	464160146	2..782..31..15276
374	312090888	283..19..29..101..701	R9	404	373350358	SE2..11..19..139..257	
R9	43	332345192	283..53..67..11699	R9	42	423893050	2..582..582..19..10079
375	316293918	283..13..3..3041279	R9	405	375401624	SE3..13..73..197..251	
R9	24	322375784	283..41..71..109..127	R9	43	399982216	SE3..43..97..11987
376	318323864	283..23..61..79..359	R9	406	377114350	2..582..31..23..71..149	
R9	43	324492133	283..29..47..29759	W1	32	394237858	2..582..31..53..4799
377	318580262	2..7..2E..11..13..127..179	R9	407	382170512	SE4..41..83..7019	
L1	X	343312058	2..7..17..23..59..1063	R9	33	385592848	SE4..59..97..4211
378	319626520	2..5E..2..7..59..113..137	R9	408	385654395	3..5..7..23..17..41..229	
L1	X	382593830	2..5..61..367..1709	L1	32	41573645	3..5..7..23..107..1609
379	319984233	384..5..7..19..59..5393	R9	409	38894355	SE3..5..7..23..23..617	
R9	33	370086165	384..5..43..79..269	R9	43	465418845	SE3..5..59..71..823
380	328029722	285..25..59..109..1559	R9	410	391548675	3..582..7..17..19..2309	
L1	32	327818272	285..199..51479	L1	32	433398525	3..582..7..139..5939
381	3343041712	284..23..431..2839	R9	411	393463072	SE5..43..269..1063	
R9	33	332270698	284..101..127..1619	L1	32	402877088	2..25..45..251..50159
382	324644792	283..19..29..47..1567	R9	412	394800078	2..7..5..41..151..911	
R9	43	352731288	283..79..89..6271	R9	X	443597882	2..782..13..191..1823
383	330811850	2..5E..2..31..19..47..239	R9	413	395378272	SE5..183..139..863	
W1	32	354858550	2..5E..2..31..179..1279	R9	33	397151648	285..181..191..359
384	332448234	285..53..21..929	R9	414	395939775	3..582..11..7..17..37..105	
R9	X	332890996	284..53..269..1483	R9	X	499717185	3..5..11..61..131..379
385	332573392	284..29..431..1663	R9	415	397287345	3..5..782..13..41..5179	
R9	33	335955248	284..47..191..2399	W1	23	399052815	3..5..782..17..109..293
386	3344483875	384..5E..3..17..29..67	R9	416	408256565	SE4..11..5..13..6911	
R9	X	358687845	384..5..17..59..883	R9	34	442792251	SE4..11..23..31..41
387	339981512	283..13..41..71..1123	R9	417	404185672	283..11..177..2447	
R9	43	373893448	283..83..167..3371	L1	33	423336248	SE3..23..1..161..16901
388	343175440	282..11..13..379..1583	R9	418	405370035	3E3..5..7..19..107..211	
R9	33	364682512	282..11..131..151..419	R9	43	473836205	SE3..5..29..127..953
389	346657311	382..782..13..11..17..37..239	R9	44	406648992	SE5..47..167..1619	
R9	X	370393569	382..7..13..17..37..719	L1	32	416378848	SE5..25..51..8189
390	347263216	284..17..137..9319	R9	40	407641130	2..5..13..17..139..1327	
L1	31	370414064	284..23150879	R9	44	435691998	2..5..23..59..97..331

421	414195782	2.7.11.13.19.10889	9D	451	512412550	2.5E2.13.73.10799	L1	33	528145850	2.5E2.19.167.3329	481	601020945	3E3.5.7.647.983	9D	511	691075330	2.5.17.11.101.3659	9D	
422	419649364	2B2.11.11.83.36299		452	514439224	2E3.13.89.55579	L1	33	536022776	2E3.29.97.23819	482	601235145	3E2.5.19.7E2.113.127		512	698002450	2.5E2.29.41.59.199		
R9 X	453619196	2B2.13B3.71.727		453	519257293	2E4.29.83.97.139	R9 X	42	552549104	2E4.881.39199	483	602035390	2.5.11.41.131.1019		R9 43	708157552	2.5E2.19.71.10499		
423	425948050	2.5E2.11.269.2879		454	520218704	2E4.29.71.15791	W1	32	619418690	2.5.11.239.23561	484	606235455	3E3.5.7.641519		513	698049512	2B3.17.19.270143		
R9 33	44185350	2.5E2.19.479.971		455	5221213616	2E4.107.167.1879	R9 24	625482945	3E3.5.19.43.53.107	485	613290026	2B2.17.13.29.47.509		514	701168432	2B4.23.107.17807			
424	426191535	3E2.7.11.5.47.2617		456	522145832	2E3.13.173.29021	R9 43	628191572	2B2.17.71.181.1399	486	621354896	2B4.17.167.13679		515	704514540	2B2.23.5.137.11177			
W1 32	514788497	3E2.7.11.67.11087		457	538318848	2E5.2029.8291	L1	32	541358816	2E5.1481.11423	487	625955924	2B4.89.51071		516	850529972	2B2.23.9.71.9521		
425	426386925	3E5.5E2.13.5399		458	525254368	2E5.37.271.1637	L1	32	542671456	2E5.79.179.1163	488	626332395	3E7.5.4.11.127		517	724885425	3E2.5E2.11.119.2687		
R9 X	426684375	3E3.5E5.13.389		459	537213616	2E4.107.167.1879	R9 X	42	625482945	3E3.5.19.43.53.107	489	630007455	3.5.4.11.23.1.163		518	721522755	3B3.5.17.29.37.293		
426	427448519	2.5.17.19.59.2243		460	538318848	2E5.2029.8291	R9 X	43	628191572	2B2.17.71.181.1399	490	630007455	3.5.4.11.23.1.163		519	728921276	2.5.7.11.929.1819		
R9 33	445618690	2.5.17.67.89.439		461	536367465	3E2.7E2.13.97.5.193	L1	32	542671456	2E5.1481.11423	491	640000154	2.7E2.19.11.31247		L1	42	705055392	3B2.15.67.1871	
427	427958358	2.5E2.31.17.189.149		462	537888168	2B3.23.179.1359	W1	32	570975050	2.5E2.31.89.4139	492	640066135	3.5.7.23.13.137.149		520	749380864	2B8.393.7643		
L1	32	455921658	2.5E2.31.107.2749	463	537888168	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	493	6430006485	3B3.5.11.41.59.179		521	750893325	3.5E2.7.13.269.409		
428	429035596	2B2.11.17.43.1339		464	537914744	2E3.13.59.131.659	R9 X	43	640415025	3E3.5E2.269.3527	494	643361515	3B3.5.23.29.53.139		522	751953405	3.5.7.19.37.61.167		
R3 33	438447924	2B2.11.173.229.263		465	537914744	2E3.13.59.131.659	R9 X	43	640415025	3E3.5E2.269.3527	495	647313444	2B6.15.17.227.239		523	767949315	3.5.7E2.19.127.433		
429	430884592	2B4.29.67.13859		466	537997756	2E3.47.109.13859	L1	32	542671456	2E2.7E2.13.97.5.193	496	647313444	2B6.15.17.227.239		524	767948215	2B3.17.19.291199		
R9 33	445657708	2B4.131.149.1427		467	537997756	2E3.47.109.13859	R9 X	43	640415025	3E3.5E2.269.3527	497	648009485	2B2.5.7E3.89.479		525	7700021784	2B3.47.1091.1999		
430	436386015	3E3.5.19.13.23.569		468	538318848	2B3.23.179.1359	L1	32	542671456	2E2.7E2.13.97.5.193	498	647313444	2B6.15.17.227.239		526	7749384445	3B2.5.13E2.11.29.311		
R9 32	428949985	3E3.5.19.59.3191		469	538318848	2B3.23.179.1359	W1	32	570975050	2.5E2.31.89.4139	499	647313444	2B6.15.17.227.239		527	784771235	3B2.5.13E2.233.479		
431	437888168	2B3.23.179.1359		470	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	500	647313444	2B6.15.17.227.239		528	786508273	3.5E2.7.29.51659		
W1	32	465631832	2B3.23.827.2999	471	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	501	647313444	2B6.15.17.227.239		529	79153405	3.5.7.19.37.61.167		
432	438362984	2B3.19.43.47.1427		472	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	502	647313444	2B6.15.17.227.239		530	767949315	3.5.7E2.19.127.433		
R9 33	466417016	2B3.31.503.3739		473	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	503	647313444	2B6.15.17.227.239		531	767458215	2B3.17.19.291199		
433	438452626	2B4.29.179.5279		474	538318848	2B3.23.179.1359	L1	32	542671456	2E2.7E2.13.97.5.193	504	648009485	2B2.5.11.41.59.179		532	7700021784	2B3.47.1091.1999		
L1	32	434519376	2B4.47.499.1187	475	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	505	648380515	3B3.5.23.29.53.139		533	7749384445	3B2.5.13E2.11.29.311		
434	439232624	2B4.37.53.13999		476	538318848	2B3.23.179.1359	W1	32	542671456	2E2.7E2.13.97.5.193	506	648380515	3B3.5.23.29.53.139		534	784771235	3B2.5.13E2.233.479		
L1	32	451353576	2B4.89.151.2099	477	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	507	648380515	3B3.5.23.29.53.139		535	786508273	3.5.7E2.19.31.6359		
435	44248816	2B4.19.971.1499		478	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	508	648380515	3B3.5.23.29.53.139		536	79153405	3.5.7.19.37.61.167		
R9 33	461479184	2B4.19.179.269.599		479	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	509	648380515	3B3.5.23.29.53.139		537	7977384605	3.5.7.19.37.10667		
436	447761144	2B3.19.113.131.199		480	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	510	648380515	3B3.5.23.29.53.139		538	798845945	3.5.7.19.37.10667		
R9 32	451588565	2B3.19.197.15199		481	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	511	691075330	2.5.17.11.101.3659		539	798845945	3.5.7.19.37.10667		
437	46812218	2B3.25.11.99.29.1487		482	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	512	698002450	2.5.17.11.101.3659		540	8045965328	2B5.47.181.1981		
438	465605192	2B3.13.23.61.3191		483	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	513	698002450	2.5.17.11.101.3659		541	8045965328	2B5.47.181.1981		
R9 42	513836986	2B3.621.10601		484	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	514	698002450	2.5.17.11.101.3659		542	8045965328	2B5.47.181.1981		
439	466389344	2B5.71.131.1567		485	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	515	698002450	2.5.17.11.101.3659		543	8045965328	2B5.47.181.1981		
L1	32	472453729	2B5.107.137.19793	486	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	516	698002450	2.5.17.11.101.3659		544	8045965328	2B5.47.181.1981		
440	467406225	3B2.5E2.11.13.11.199		487	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	517	698002450	2.5.17.11.101.3659		545	8045965328	2B5.47.181.1981		
R9 33	4534612975	3.5E2.13.19.28859		488	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	518	698002450	2.5.17.11.101.3659		546	8045965328	2B5.47.181.1981		
441	471696198	3.5E2.7.23.292979		489	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	519	698002450	2.5.17.11.101.3659		547	8045965328	2B5.47.181.1981		
R9 33	5048824696	2.5.37.79.18503		490	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	520	698002450	2.5.17.11.101.3659		548	8045965328	2B5.47.181.1981		
442	471479596	2B3.21.31.41.61.139		491	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	521	698002450	2.5.17.11.101.3659		549	8045965328	2B5.47.181.1981		
R9 33	505757684	2B2.31.17.79.3037		492	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	522	698002450	2.5.17.11.101.3659		550	8045965328	2B5.47.181.1981		
443	475838415	3E3.5.13.13.17.41.389		493	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	523	698002450	2.5.17.11.101.3659		551	8045965328	2B5.47.181.1981		
W1	32	514823985	3E3.13.13.23.123.129	494	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	524	698002450	2.5.17.11.101.3659		552	8045965328	2B5.47.181.1981		
444	487169380	2B2.37.5.41.16957		495	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	525	698002450	2.5.17.11.101.3659		553	8045965328	2B5.47.181.1981		
W1	32	580938476	2B2.37.61.65267	496	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	526	698002450	2.5.17.11.101.3659		554	8045965328	2B5.47.181.1981		
445	491373104	2B4.23.187.12479		497	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	527	698002450	2.5.17.11.101.3659		555	8045965328	2B5.47.181.1981		
R9 33	514198565	2B4.127.389.647		498	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	528	698002450	2.5.17.11.101.3659		556	8045965328	2B5.47.181.1981		
446	492275992	2B3.13.13.23.1571		499	538318848	2B3.23.179.1359	R9 X	43	640415025	3E3.5E2.269.3527	529	698002450	2.5.17.11.101.3659		557	8045965328	2B5.47.181.1981		
R9 31	553544168	2B3.13.13.528191		500	538318848														

541	845397735	3.5..7E2.13.103.859	9D	571	954392504	2E3.13.37.197.1259	R9 33	1049959195	3.5..7..11..191.4759	10D	631	1195637144	2E3.13E2.383.2309	10D
R9 X	867557145	3.5..7..13..569..1117	R9 43	1036457896	2E3..43..1619..1861	R9 33	1055812485	3..5..7..13..79..9791	L1 X	1239287656	2E3..23..239..28181			
542	846862965	3E3..5..13..19..109..233		572	957871508	2E2..11..29..71..97..189	R9 602	1056277222	2..7E2..19..11..13..3967	L1 X	1197281380	2E2..5..31..967..1997		
W1 32	882865035	3E3..5..13..43..11699	R9 43	998051692	2E2..11..53..139..3079	R9 X	1223576858	2..7..19..41..151..743	R9 43	1402100636	2E2..17..2441..8447			
543	848764124	2E2..19..13..23..41..911		573	962951312	2E4..19..1693..1871	R9 603	1066176716	2E2..11..19..251..5081	L1 X	1206344152	2E3..13..37..251..1249		
R9 43	953056036	2E2..19..47..251..1063	L1 33	1003172848	2E4..131..307..1559	R9 33	1085338804	2E2..11..29..293..2983	R9 43	1307355848	2E3..41..1499..2659			
544	854687570	2..5..11..59..79..1667		574	965615992	2E3..11..23..349..1367	R9 604	1067740245	3E3..5..11..13..19..41..71	L1 X	12112209868	2E2..13..11..181..11699		
R9 43	874694830	2..5..19..23..200159	R9 42	1102000008	2E3..3359..40939	R9 52	1370813355	3E3..5..267..3779	R9 33	1292953532	2E2..13..41..389..1559			
545	855737264	2E4..23..1259..1847		575	965674256	2E4..17..599..5927	R9 605	1069306732	2E2..13..41..17..163..181	L1 X	1212636350	2..5E2..17..67..187..199		
R3 33	876651856	2E4..97..107..5279	L1 32	1019020144	2E4..191..333449	R9 32	1142871892	2E2..13..41..491..1091	W1 32	1246134850	2..5E2..17..719..2039			
546	856345272	2E3..23..29..383..419		576	967887488	2E7..61..113..1097	R9 606	1077722984	2E3..13..1913..5417	L1 X	1099987936	2E5..179..192837		
R9 44	885518728	2E3..47..59..179..223	R9 X	1011081832	2E3..61..37..55997	R9 607	10820838815	3E2..5..13..11..181..929	R9 32	1331747186	2..7E2..11..197..6271			
547	857161935	3E2..5..31..7..61..1439		577	967947856	2E4..1982..103..1627	R9 X	1031796176	2E4..3847..16763	L1 X	1216935225	3E3..5..28..2..31..11..17..311		
R9 33	925581105	3E2..5..31..19..47..743	R9 X	1031796176	2E4..3847..16763	R9 X	1135944253	3E2..5E2..13..83..4679	R9 X	1457179335	3E3..5..31..348191			
548	861314660	2E2..53..5..211..3851		578	968410624	2E9..61..101..307	R9 608	1086272836	2E2..11..29..47..59..307	L1 X	12232899664	2E6..251..271..281		
R9 33	998788572	2E2..53..23..317..641	R9 X	1024180592	2E4..241..265607	R9 43	1149067964	2E2..11..89..139..2111	R9 32	12311545152	2E6..223..86291			
549	869530723	3E2..5E2..783..19..593		579	969473384	2E3..11..67..164429	R9 609	1086321110	2..5..7..37..41..9429	L1 X	1224145112	2E3..17..31..103..2819		
R9 X	1045525273	3E2..5E2..89..199..479	L1 33	1043149816	2E3..53..101..24359	R9 X	1082798958	2..5E2..71..163..2089	R9 43	1309794088	2E3..53..79..39103			
550	878675856	2E4..23..313..7559		580	9696428956	2E3..17..31..349..659	R9 610	1088205734	2..7..11..17..19..131..167	L1 X	12169375225	3E3..5..58..2..31..11..17..311		
R9 33	895461184	2E4..83..179..3767	R9 43	1026197944	2E3..29..383..11549	R9 43	1211081946	2..7..11..179..197..223	R9 X	1457179335	3E3..5..31..348191			
551	874591558	2..5E2..7..1499..1667		581	978888550	2..5..82..31..43..1..77..773	R9 611	1090592428	2E6..109..223..701	L1 32	1106245312	2E6..1637..10559		
L1 32	986869456	2..5E2..71..277999	R9 X	1048124574	2..5..31..43..61..1289	R9 612	1091947540	2E2..23..55..137..1737	L1 X	1239061725	3E3..5..58..2..11..19..8783			
552	877324936	2E3..29..47..61..1319		582	989779882	2..7..19..13..17..113..149	R9 613	1318446572	2E2..23..91..11..15731	R9 33	1375056675	3E3..5..58..2..47..89..487		
R3 42	898449864	2E3..17..6547199	R9 X	1078636118	2..7..782..19..41..71..199	R9 613	1093957332	3E3..5..7..89..13007	L1 X	1239657136	2E4..17..727..6269			
553	901089368	2E3..13..23..401..929		583	991838384	2E4..23..167..16139	R9 614	1100526975	3E3..5..11..239..3251	L1 33	1307367344	2E4..181..451439		
R9 43	993165032	2E3..167..179..4153	R9 33	1025532496	2E4..79..503..1613	R9 614	1241180168	2E3..19..59..138401	L1 X	121321639011	3E4..7..11..29..73707			
554	9401261525	3E3..5E2..7..431..439		584	992776995	3E2..5..7..452..452039	R9 42	103103925	3E3..582..809..2399	L1 X	12252205632	2E6..479..40847		
R9 33	991581075	3E3..5E2..123..269	L1 X	1088990445	3E2..5..7..797..4019	R9 615	1101570165	3E3..5..17..23..41..509	R9 62	1239061725	3E3..5..58..2..11..19..8783			
555	984969615	3..5..7..13..53..81..149		585	994945492	2..7..82..5..11..62..97..173	R9 33	1191255435	3E3..5..17..29..67..251	R9 44	1249677032	2E3..23..67..167..697		
R9 43	934224585	3..5..7..19..59..7937	R9 X	1331936324	2..7..782..881..154..27	R9 616	111067384	2E5..97..179..1999	R9 44	1258808088	2E3..31..37..271..503			
556	902335744	2B8..303..9243		586	996688412	2E2..11..17..1..51..8819	R9 33	1111963616	2E5..83..499..839	L1 X	1251532282	2..7..11..2..13..17..3343		
L1 32	993709952	2..5..11..151..3067	R9 45	1030959268	2E2..23..37..41..83..89	R9 617	1112824376	2..5..7..59..227..1187	R9 X	1438327814	2..7..11..9339791			
557	903825416	2E3..47..17..179..1739		587	1000233608	2B3..11..59..383..503	R9 44	1227440590	2..5..37..43..179..431	R9 618	11128295765	2..5E2..23..19..137..419		
W1 32	972264184	2E3..47..131..179..1739	L1 43	108995192	2B3..11..47..863..3359	R9 53	1169555235	3E2..5..7..47..479..863	R9 31	1330378850	2..5E2..23..1159199			
558	905196774	2E3..11..31..389..853		588	1002372258	2..5..83..11..364499	R9 623	11131352454	2B2..5..53..1..17..62327	R9 649	1255307438	2..7..11..17..53..83..109		
R9 43	1013228828	2E3..13..179..487..1871	L1 23	1044655758	2..5..83..29..89..161..9	R9 624	1127580138	2..5..7..82..31..199..373	R9 43	1313101292	2..7..11..29..307..971			
559	907969984	2E3..19..79..93..111		589	1002455359	2..5..82..13..15..24239	R9 625	1127580138	2..5..7..82..31..199..373	R9 650	12466886590	2..5..52..17..53..67..419		
R9 32	930631096	2E3..19..127..4787	L1 X	105541136	2..5..11..59..154..937	R9 626	1127580138	2..5..7..82..31..199..373	R9 44	1258808088	2E3..31..37..271..503			
560	912448025	3E2..5E2..13..17..59..311		590	1015866225	3B3..5..82..11..41..47..71	R9 627	11272724250	2..7..5..53..727271	R9 X	1317021110	2..5..17..61..89..1427		
R9 X	988724295	3E2..5..13..61..1269	R9 X	114395535	3B3..5..17..59..93..991	R9 628	1129315275	3B2..5..82..31..11..41..359	L1 X	1459182118	2..7..11..1..251..37517			
561	914746450	2..5..2..31..19..89..349		591	1016475064	2B3..11..23..349..1439	R9 629	1131258975	3..5..3..2..31..7..11..7..1..89..77	L1 X	12733481176	2E3..11..29..569..877		
W1 32	969133550	2..5..2..31..59..10499	R9 42	1060894936	2B3..29..498383	R9 630	11317514465	3..5..3..17..1..47..59..61	R9 43	1429902824	2E3..179..379..2633			
562	916021964	2E2..13..11..59..271..143		592	1018330436	2..5..13..17..197..2339	R9 631	1133458156	2..5..82..11..3..47..5939	R9 43	1273666394	2..7..11..13..41..59..263		
R9 33	999258676	2E2..13..17..347..761	L1 32	1083299098	2..5..13..161..9..5147	R9 632	1141149196	2B2..11..19..1365011	R9 44	1275751408	2E4..41..79..103..239			
563	917168958	2..5..82..19..37..97..269		593	1020658815	3B2..5..11..19..47..2399	R9 633	11450182118	2..7..1..251..37517	R9 X	1324082192	2E4..89..727..1279		
W1 32	953023850	2..5..2..19..19..59..179..1799	R9 33	1055014785	3B2..5..11..31..197..349	R9 634	1152878964	2B2..11..43..53..11489	R9 43	1320808285	3..5..82..7..11..349..587			
564	925949992	2B3..83..11..331..383		594	1024796624	2B6..103..359..433	R9 635	1148440336	2B4..37..71..89..307	R9 X	1277879584	2E5..59..71..9533		
565	930793284	2E2..19..11..59..113..167		595	1033497104	2B7..83..211..461	R9 636	1202659184	2B4..167..659..683	L1 32	1316893856	2E5..125..32687		
R9 43	999728306	2E2..19..23..239..2393	R9 X	1064553376	2B5..1019..32647	R9 637	1162074910	2..7..11..13..43..13499	R9 X	1284072075	3E3..5..52..11..13..53..251			
566	932913124	2B2..11..13..1382..189..1151	R9 X	1066766012	2B2..11..43..89..6299	R9 638	1179749149	2..5..7..151..239..467	R9 X	1359746485	3E3..5..41..503..557			
R9 X	1015026716	2B2..11..19..11..120779		597	1040792450	2..5..82..31..19..59..599	R9 639	1179749149	3..5..7..151..239..467	R9 X	1289325975	3..5..52..7..2..41..43..199		
567	938342989	2..1..1..5..7..17..43..1667	L1 32	1101927550	2..5..82..31..7..9..8999	R9 640	1179781758	2..5..83..37..1..38239	R9 X	1323086825	3..5..52..7..2..9..113..769			
R9 53	1344840478	2..1..1..31..197..10007		598	1047381370	2..5..7..E3..47..7..89	R9 641	1183083825	3..5..82..7..11..349..587	L1 32	1292286248	2E3..11..499..29429		
568	94866928	2E5..7..263..1427		599	1047381370	2..5..5..59..443..4799	R9 X	1266759375	3..5..85..7..1..97..199	L1 33	1356413752	2E3..29..149..39239		
R9 33	951278752	2E5..189..223..1223	R9 X	1047784504	2B3..13..23..101..4337	R9 642	1191953763	3B2..7..82..11..13..41..461	R9 X	1303670522	2..7..1..19..41..10867			
569	949308932	2E2..19..11..13..113..773	R9 42	1182294536	2B3..167..884951	R9 643	1193945522	2..7..11..19..53..7699	R9 X	1325516038	2..7..1..12..19..41..1183			
570	950850148	2E2..5..1091..43577		600	1047827656	2B3..19..71..151..643	R9 644	1193945522	2..7..11..19..53..7699	R9 X	1305577385	3E3..5..19..17..79..379		
R9 34	1047811252	2E2..17..41..233..1613	W1 32	1066553144	2B3..19..227..30911	R9 645	1201062478	2..7..11..17..149..3079	R9 33	1320982695	3E3..5..19..31..37..449			

661	1300651310	2.5.11.29.571.719	10D	691	1532931010	2.5.13.29.79.5147	721	1756703660	2E2.5.23.31.123191	10D	751	1938775850	2.5E2.11.47.179.419	10D	
R9	31	1350971890	2.5.11.12355199	R9	33	1580579399	2.5.13.187.199.571	L1	43	2216977492	2E2.5.31.191.54751	R9	43	2110964950	2.5E2.41.149.6911
662	1312909796	2E2.11.17.109.161.03	R9	692	1546818128	284.47.109.113.167	L1	722	1763439651	2E3.11.29.251.2753	752	1954734364	2E2.11.19.593.3943		
R3	33	1365507484	2E2.11.43.269.2683	R9	43	1587981232	284.83.151.791	R9	43	1984203544	283.179.971.1427	R9	33	1981062116	2E2.11.43.59.17747
663	1321566765	3E4.5.7.59.7981	R9	693	1548287895	3.5.7.11.23.167.349	L1	723	1772982538	2.5.11.17.19.139.359	753	1957374964	2E3.31.17.187.4339		
R9	33	1432128195	3E4.5.17.79.2633	R9	43	1783116905	3.5.7.31.89.5879	R9	53	2146121470	2.5.107.199.10079	L1	31	2092365832	2E3.31.84.36959
664	1323789358	2.5E2.13.67.113.269	R9	694	1550703136	285.59.317.2591	L1	724	1774259235	3E4.5.7.19.32939	754	1964397815	3E4.5.783.79.179		
R9	X	1401348738	2.5.29.37.61.2141	L1	32	1564984544	285.89.549583	L1	725	1775992725	3E2.582.13.26399	R9	X	2217362984	3E3.5.19.131.6599
665	1327395368	2E3.13.1511.8447	R9	695	1558818261	3E2.7.11.13.23.7523	L1	726	1798778475	3E3.5E2.13.359.571	755	1974754485	3E4.5.11E2.113.359		
R9	34	1355013592	2E3.41.43.191.503	L1	22	1596205611	3E2.7.11.13.53.3343	R9	X	2052998415	3E2.5.13.11E3.29.79	L1	22	1987985835	3E4.5.11E2.113.359
666	13323290105	3E3.5.7.23.61343	R9	696	1559105080	284.43.67.149.227	R9	X	2052998415	3E2.5.13.11E3.3049	756	1978830976	2.7.5.23.97.12671		
R3	33	1493441415	3E3.5.17.191.3407	R9	43	16131013392	284.109.179.5167	R9	727	1783852785	2E3.13.17.787.1283	R9	44	2313924266	2.7.31.41.43.3023
667	1334748455	3E3.5.13.11.37.71.79	R9	697	1559592622	2E2.11.43.53.151	R9	42	2039387032	2E3.6047.42157	757	19816131584	2E5.59.71.14783		
R9	42	1532728665	3E2.5.13.431.6079	R9	43	1595431244	2E2.11.31.311.3761	R9	728	1786141665	3E3.5.7.11.171827	L1	32	2841981856	2E5.1187.53759
668	1347375272	2E3.19.89.177.727	R9	698	1563999255	3E2.7.13.5.167.2287	R9	33	2172775455	3E3.5.47.444.773	758	1983736876	2E2.11.1982.71.1759		
R9	43	1365152728	2E3.29.41.143519	R9	33	1793793769	3E2.7.13.23.131.727	R9	X	217818094	2E2.11.43.719.1523				
669	1348200932	2E5.59.461.1549	R9	699	1574216272	2E4.19.971.5333	L1	729	1786492785	3.5.5.7.11.293.5279	R9	X	2190120570	2.5.11.13.431.3229	
L1	X	1356857969	2E4.5.59.14699	R9	33	1640265482	284.107.761.1259	L1	22	1798052495	3.5.5.7.11.1231.1259	R9	44	2229439870	2.5.37.67.139.647
670	1357689830	2.5.7.107.109.1663	R9	700	1577617335	3E2.5.7.137.139.263	730	1793313733	2.5.3.31.13.479.929	760	1990992825	3E3.5E2.31.17.29.193			
R9	X	1488948258	2.5E3.47.126719	W1	32	1605082185	3E2.5.7.1439.3541	R9	33	1866455870	2.5.31.17.79.4339	L1	32	2165883975	3E3.5E2.31.89.1163
671	1363688048	2E4.17.191.26249	R9	701	1585667930	2.782.5.11.37.7951	R9	731	1796310355	2.5E2.23.19.229.359	761	1991349664	2E5.41.251.6047		
L1	32	1446831952	2E4.5.13.179999	R9	X	2134729282	2.7.83.227.8093	R9	32	1898816150	2.5E2.23.479.3449	L1	32	2841408352	2E5.293.21127
672	1365633296	2E4.37.197.21559	R9	702	1600185752	2E3.11.55.193.3331	R9	732	1812992713	2.5.17.23.29.59.271	762	1992605368	2E3.13.23.11.6359		
L1	33	1377316144	2E4.43.227.8819	R9	43	1768666402	2E3.101.167.13103	R9	42	1994136890	2.5.17.599.19583	R9	43	2238575432	2E3.79.461.3391
673	1375980832	2E4.17.379.13399	R9	703	1601150265	3E2.5.13.11.61.4079	R9	733	1813297395	3.5.5.7.13.19.139.503	763	2004732349	2E2.5.13.227.33967		
L1	32	1453522762	2E4.227.400199	R9	X	1713637575	3E2.5.13.109.1151	R9	43	1980082025	3.5.5.7.29.79.8231	R9	43	2549153612	2E2.71.151.59443
674	1386737770	2.5.11.17.59.15269	R9	704	1607090672	2E3.23.37.59.4001	R9	734	1814936354	2.7.1.11.19.11E2.17.31.107	764	200888310	2.11.13.5.23.103.593		
R9	43	1545591838	2.5.29.53.100559	R9	32	1677751928	2E3.23.2203.4139	R9	X	2425782366	2.7.1.19.71.227.503	R9	43	2474566666	2.11.13.43.311.647
675	1395217845	3E3.5.7.53.89.313	R9	705	1618957875	3.5E3.17.7.101.359	R9	735	1819124752	284.19.593.10091	765	2026348300	2E2.271.562.23.3251		
R9	43	1534778955	3E3.5.17.1.71.9419	R9	X	1681454445	3.5.17.11.23.67.389	R9	33	1897557008	2E4.131.347.2699	R9	X	2580356852	2E2.271.61.39023
676	1408733598	2.5.11.82.31.107.349	R9	706	1626481616	2E4.23.149.29663	R9	736	1829456594	2.5.13.29.127.3821	766	2033951989	3E3.5.41.13.23.1229		
R9	X	1495846470	2.5.17.139.151.419	R9	33	1684920784	2E4.107.199.4943	R9	33	1869016370	2.5.13.97.103.1439	R9	33	2131918415	3E3.5.41.17.139.163
677	1420875830	2.5.79.11.23.7109	R9	707	1662154065	3E2.5.13.11.258299	R9	737	18660360824	2E3.13.17.69.151.1523	767	2037127365	2E2.7.13.5.23.43.503		
L1	32	1527783370	2.5.79.17.113759	R9	711	1722609135	3E2.5.13.29.59.1721	R9	42	2125787416	283.931.28447	R9	42	2612381493	2E2.7.13.1511.2111
678	1444854411	3E2.7.13.23.11.39.367	R9	708	1666611045	3E4.5.11E2.71.479	R9	738	1861960700	2E2.5E2.17.593.1847	768	2040024987	3E3.7E2.11.13.41.263		
L1	32	1614396669	3E2.7.13.23.79.1193	R9	711	1670433435	3E4.5.11E2.89.383	R9	X	2425782372	2E2.131.433.10691	L1	32	2207125233	3E3.7E2.11.43.3527
679	1448711355	3.5.7.13.17.149.419	R9	709	1666776564	2.7.31.13.29.61.167	R9	739	1862890150	2.5E2.11.19.89.2003	769	2043986130	2.5.7E3.179.3329		
R9	43	1599846045	3.5.7.29.139.3779	R9	X	1693082394	2.7.31.11.67E2.79	R9	42	2162745056	2.5E2.1439.30059	R9	X	2271773078	2.5.29.73.239.449
680	1448989334	2.5.19.13.569.1031	R9	710	1667890144	2E5.37.223.6317	R9	740	1874188698	2.5.19.11.59.151.199	770	2049823934	2E3.23.43.179.1471		
R9	33	1515731270	2.5.19.37.251.859	R9	32	1720175264	2E5.2591.20747	L1	32	2065651310	2.5.19.151.71999	R9	33	2085551116	2E2.11.47.59.17093
681	1456694656	2.5E2.31.23.29.1499	R9	711	168926570	2.7E2.11.41.7643	R9	741	1879626735	3E3.5.107.7.29.641	771	2057011288	2E3.17.19.431.1847		
W1	32	1564540552	2.5E2.31.179.5639	R9	42	2263716406	2.7E2.1567.14741	R9	32	2114126865	3E3.5.107.19.7703	R9	43	225403112	2E3.83.127.26729
682	1458334432	2E5.53.73.11779	R9	712	1690397588	2E2.11E2.29.83.1451	R9	742	1888560272	284.29.107.38039	772	206755105	3E3.5.7.11.198899		
R9	X	1587257088	2E4.89.251.4217	R9	33	1716168652	2E2.11E2.41.197.439	R9	33	193327732	2E4.5.719.3169	R9	33	2515100895	3E3.5.47.389.1019
683	1476622335	3.5.7.13.29.97.383	R9	713	1699746184	2E3.23.41.233.967	R9	743	1892277387	3E2.7.11.13.41.47.109	773	2070206058	2.5E2.11.239.15749		
R9	43	1564822145	3.5.7.19.127.6173	R9	34	1725115256	2E3.23.12684671	R9	32	1982133333	2E2.7.11.13.139.1583	R9	33	2142873950	2.5E2.19.356.6299
684	1486565325	3E3.5E2.7.23.13679	R9	714	1721688856	2.7.31.582.107.1483	R9	744	1892277481	2E4.19.739.8423	774	2083300808	2E3.23.43.179.1471		
R9	32	1770369075	3E3.5E2.911.2879	R9	X	2094666296	2.7.31.61.83.953	R9	33	1972653712	2E4.107.1839.1109	R9	33	2113665592	2E3.23.137.191.439
685	1582495885	3.7E2.13.5.157247	R9	715	1723336461	3E2.7.11.17.19.7699	R9	745	1895700345	3.7.11E2.17.5.67.131	775	2083394785	3E2.5.7E3.79.1709		
R9	24	1589118611	3.7E2.13.11.17.41.103	R9	X	1736119531	3E2.7E3.11.29.41.43	R9	32	2230100103	3.7E2.11.17.31.2617	R9	X	2184265215	3E2.5.11.37.239.499
686	1585175088	2E5.71.167.3967	R9	716	1728342296	2E3.19.53.214541	R9	746	190066455	3E2.7.5.17.23.15427	776	2084019740	2E2.5.11.167.223.397		
R9	33	1518631456	2E5.127.433.864	L1	33	1747238104	2E3.17.521.24659	R9	34	2258828649	3E2.7.11.83.173.227	R9	52	2768701924	2E2.647.1069823
687	1517112765	3E2.5.7E2.47.14639	R9	717	1741985325	3E3.5E2.31.17.59.83	R9	747	1915705352	2E3.53.11.431.953	777	2091376035	3E2.5.7.29.179.1279		
R9	X	1667180355	3E2.5.11.59.113.487	R9	32	1857784275	3E3.5E2.31.47.1889	W1	32	2090178802	2E3.53.317.15551	R9	44	2221711965	3E2.5.11.59.127.599
688	1518524175	3.5E2.7.19.41.47.79	R9	718	1750776704	2E7.137.99839	R9	748	1929310106	2E2.5E2.83.191.1217	778	2099037232	2E4.37.89.39839		
R9	42	1681271025	3.5E2.7.139.23039	L1	22	1762592898	2E7.2879.4783	R9	X	2333417063	2E2.23.446.5683	L2	33	2124799568	2E4.59.113.19919
689	152522575	3E3.5E2.17.23.5779	R9	719	1754082603	3E2.7.13E3.19.23.29	R9	X	1930301618	2.7.19.17.37.83.139	779	2099442345	3.5.7.11.13.37.3779		
L1	22	1571070285	3E3.5E2.17.79.1733	R9	X	1810205397	3E2.7.13.11.67.2999	R9	X	1930741582	2.7.19.11E2.223.269	L1	41	2533809495	3.5.7.241.31519
690	1528753832	2E3.17.19.59.1623	R9	720	1755729656	2E3.19.23.349.1439	R9	750	1937813620	2E2.5.97.631.1583	780	2107566279	3E2.7.13.17.19.31.257		
L1	33	1666015768	2E3.47.809.5477	R9	43	187									

781	2118448384	E83.23.29.137.2887	811	2310786764	E82.11.13.19.149.1427	841	2517882425	3E3.5E2.11.13.89.293	871	2808979976	E83.11.2393.13339		
782	2115211995	3E3.5.13.17.31.2287	812	2317392152	E83.19.47.227.2141	842	2550651220	2E2.5.13.131.74887	872	2816751938	2.7.11.13.19.74051		
R9	31	2312891685	3E3.5.13.1317887	813	2317558348	E83.19.3761.4159	843	2551781898	2.5.7.19.61.71.443	873	2828720510	2.7.52.5.11.83.6123	
783	2125619998	2.5.17.13.41.23459	814	2331923265	E82.5.7.89.223.373	844	2555923990	2.5.17.23.29.22541	874	2848437756	2.5.22.9.13.E82.11.43.139		
L1	32	2343791530	2.5.17.3331.4139	W1	32	2372936895	E82.5.7.1427.5279	845	2592552994	2.5.17.29.43.15287	875	2856462364	2.5.127.47.64007
L1	32	2265625570	2.5.13.2339.7451	R9	42	2665327304	E83.6983.47711	846	2611143964	2E2.11.3E2.251.1399	876	2847788584	2.5.11.557.58099
785	2148484535	3E4.7.23.5.17.1931	815	2359263375	E83.5E3.7.37.2699	847	2735622291	3E2.7.82.13.19.41.613	877	2848466620	2.5.17.31.131.2063		
R9	32	2707011657	3E4.7.23.251.827	R9	32	2762528625	E83.5E3.449.1823	848	276142776	2E3.17.61.79.3989	878	2870595525	3.5E2.7.19.41.7019
786	2141689095	3E2.7.13.5.31.16871	816	2363563444	E82.19.11.23.83.1481	849	2799801224	2E3.37.107.199.433	879	2873121512	2E3.19.113.131.1277		
R9	33	2574912249	3E2.7.13.47.151.443	R9	43	2655972716	E82.19.47.233.3191	850	2813941943	3E2.13.127.4373	880	2874527158	2.5E2.11.137.38149
787	2152573605	3E2.7.13.37.5.14287	817	2378646285	E82.5.7.103.167.439	851	2808003136	2E4.809.216319	881	2800878058	2.5E2.19.3158819		
L1	22	2564027739	3E2.7.13.37.191.443	W1	32	2418472035	E82.5.7.839.9151	852	2869271285	3E3.5.23.17.139.367	882	2812196968	2E3.17.593.42571
788	2153378296	2.9.31.27.1319	818	2379891508	E82.5E2.31.11.97.1439	853	2874179844	3E3.5.17.47.67.419	883	2896764608	2E6.53.853999		
R9	43	2188445704	2E3.17.91.17599	R9	X	2659787290	2.5.31.83.167.619	854	2893789210	2E2.11.13.127.4373	884	28979667392	2E5.199.464819
789	2154386325	3.5E2.7.13.479.659	819	2424984875	E85.5E2.13.29.1849	855	28631762064	2E4.29.53.183.1039	885	2912196968	2E3.23.41.521.733		
R9	22	2326559075	3.5E2.7.43.75.559	R9	X	2673745525	E82.5E2.13.587.1499	856	28800878058	2E2.5E2.19.3158819	886	2930310555	3E2.5.19.23.164267
790	215025559075	2.5.17.15.151.15011	820	2404962862	E82.5E2.11.103.19.2543	857	289789210	2.5.31.37.43.509	887	2932637168	2E4.37.67.187.691		
R9	44	2574279216	2.7.37.41.53.228	L1	X	2764886155	E82.5.11.29.149.103	858	29008878058	2.5E2.19.3158819	888	2941867676	2E2.11E2.59.71.1451
791	21507711095	3E4.5.17.13.89.271	821	2407445150	E82.5.11.29.149.103	859	2969271285	3E3.5.23.17.139.367	889	2959967392	2E5.199.464819		
R9	32	2319933865	3E4.5.17.59.9711	R9	43	2684862950	2.5E2.59.449.2027	860	2965265756	2E2.11.13.199.23327	890	2970595525	3.5E2.7.19.41.7019
792	2172649216	288.257.33023	822	2410351540	E82.5.83.887.1637	861	297212795692	2E2.17.73.293.1871	891	2979030075	3.5E2.7.29.387.503		
L1	21	2181668894	288.25.20191	R9	44	272212795692	2E2.17.73.293.1871	862	2973121512	2E3.19.113.131.1277	892	29873121512	2E3.19.113.131.1277
793	2198463784	2E3.379.11.29.2273	823	2417154916	E82.11.23.47.89.571	863	298789210	2E2.11.13.127.4373	893	29896764608	2E6.53.853999		
R9	32	2467784216	2E3.379.179.4547	R9	43	2564461724	E82.11.187.127.4289	864	29979667392	2E5.199.464819	894	29979667392	2E5.199.464819
794	2201899310	2.5.31.13E3.53.61	824	2419787565	E82.5.13.17.23.71.149	865	26720876064	2E4.29.53.183.1039	895	29979667392	2E5.199.464819		
R9	X	23878486938	2.5.31.29.265697	R9	43	2675847635	E82.5.13.89.91.269	866	2708009285	2E5.5.17.167.11057	896	29979667392	2E5.199.464819
795	22008015735	3E3.5.7.79.131.227	825	2421696130	E82.7E2.5.11.131.1217	867	2708009285	2E5.5.17.167.11057	897	29979667392	2E5.199.464819		
R9	44	240262729865	3E3.5.31.37.59.263	R9	X	2856901502	2.7.13.1367.11483	868	2708009285	2E5.5.17.167.11057	898	29979667392	2E5.199.464819
796	2221700481	3E4.7.11E2.13.47.53	826	2428035478	E82.5.7.53.359.1823	869	2729117056	2E5.193.647.683	899	29979667392	2E5.199.464819		
R9	32	2450161791	3E4.7.11E2.11.71.503	R9	44	2677997170	2.5.29.71.113.1151	870	27291247270	2.7.5.16.07.24023	900	29979667392	2E5.199.464819
797	2221284454	2.5E2.11.1049.3851	827	2436224288	E82.5.307.4679	871	2730841943	3E3.5.14.43.509	901	29979667392	2E5.199.464819		
L1	32	22911931905	2.5E2.11.2696399	R9	33	2467554592	E82.5.167.389.1187	872	2741867676	2E2.11E2.23.439.593	902	29979667392	2E5.199.464819
798	2223111345	3.5.7.13E3.23.419	828	2440775024	E82.5.13.17.23.71.149	873	27464345992	3E3.7.51.21.5218919	903	29979667392	2E5.199.464819		
R9	33	2383044554	3.5.7.19.251.4759	R9	X	2510314336	E82.5.14.39.191.269	874	2751002696	2E3.23.317.719.2281	904	29979667392	2E5.199.464819
799	2232676011	2E4.19.2551.2879	829	2440883588	E82.11.13.83.51413	875	2768420526	2E3.19.167.131.1259	905	29979667392	2E5.199.464819		
L1	33	2324175184	2E4.127.263.4349	R9	X	2637996988	E82.11E2.1721.3167	876	27686362744	2E3.31.53.109.1899	906	29979667392	2E5.199.464819
800	2241281626	2E2.5.13.131.881.971	830	2441219715	E84.5.11.47.89.131	877	2768800928	2E5.7.167.397.2699	907	29979667392	2E5.199.464819		
R9	43	2511611756	2E2.17.47.478561	R9	33	2526711165	E84.5.11.197.2879	878	2768804768	2E5.259.1.33889	908	29979667392	2E5.199.464819
801	2246508224	2E6.227.239.647	831	2446241032	E83.19.61.193.1367	879	2768804768	2E5.259.1.33889	909	29979667392	2E5.199.464819		
R9	32	2256728898	2E6.217.179.1996991	R9	44	2490059168	E83.19.227.721.67	880	2768804768	2E5.19.359.44383	910	29979667392	2E5.199.464819
802	2264629079	2.5.11.101.103.1979	832	2448784558	E82.5.28.31.17.199.467	881	2770307740	2E3.11.13.191.587	911	29979667392	2E5.199.464819		
R9	33	2272200370	2.5.11.11.79.373.701	R9	X	2565188258	E82.5.28.31.189.3719	882	2773026965	3E2.5.13.17.127.2179	912	29979667392	2E5.199.464819
803	2265070275	3E2.5E2.13.19.53.769	833	2450252385	E82.5.7.107.139.523	883	27752109685	3E2.5.13.17.127.2179	913	29979667392	2E5.199.464819		
R9	32	2426816925	3E2.5E2.13.659.1259	W1	32	2493624735	E82.5.7.1571.5039	884	2773105848	3E2.11.13.191.523	914	29979667392	2E5.199.464819
804	2270766959	2.7.11.13.19.191.5939	834	2481907338	E82.5.7E2.23.1925	885	27750817652	3E2.5.17.139.131.1217	915	29979667392	2E5.199.464819		
L1	33	2327448662	2.7.11.19.19.307.2591	L1	X	2734933318	E82.5.17.1319.12197	886	27750817652	3E2.5.17.139.131.1217	916	29979667392	2E5.199.464819
805	2278422080	2E3.19.53.151.1873	835	2482324910	E82.5.13.23.41.20249	887	277512716	2.5.13.29.733823	917	29979667392	2E5.199.464819		
R9	32	2336115512	2E3.19.1367.11243	R9	44	2661499998	2.5.17.149.179.587	888	277512716	2.5.13.29.733823	918	29979667392	2E5.199.464819
806	2278650294	2E3.13.23.199.4787	836	2484011608	E83.13.151.367.431	889	277512716	2.5.13.29.733823	919	29979667392	2E5.199.464819		
R9	43	2547653704	2E3.113.839.3359	R9	44	2590502312	E83.37.127.137.583	890	277512716	2.5.13.29.733823	920	29979667392	2E5.199.464819
807	2282361092	2E2.11.19.239.11423	837	2498633158	E82.5.2E2.13.149.25799	891	277512716	2.5.13.29.733823	921	29979667392	2E5.199.464819		
R9	44	2323795708	2E2.13.23.127.15299	R9	33	2540106850	E82.5.28.21.17.139.21499	892	277512716	2.5.13.29.733823	922	29979667392	2E5.199.464819
808	2294183672	2E3.11.227.114847	838	2502894558	E82.5.28.24.33.149.601	893	2780179884	2E2.11.13.197.24799	923	29979667392	2E5.199.464819		
L1	33	2419178248	2E3.31.151.64601	R9	X	2670211850	E82.5.28.24.33.149.601	894	2780179884	2E2.11.13.197.24799	924	29979667392	2E5.199.464819
809	2298420678	2.7.5.13.197.12821	839	2509841530	E82.5.31.7.311.3719	895	2780179884	2E2.11.13.197.24799	925	29979667392	2E5.199.464819		
B4	42	2819711426	2.7.17.11847527	W1	32	2838387590	2.5.31.71.128959	896	2780179884	2E2.11.13.197.24799	926	29979667392	2E5.199.464819
810	2300473575	3E3.5E2.31.17.29.223	840	2511601365	3.5.7.13.53.149.233	897	2780179884	2E5.7.167.603.74019	927	29979667392	2E5.199.464819		
L1	32	2499219225	3E3.5E2.31.83.1439	W1	32	2583233835	3.5.7.13.971.1949	898	2780179884	2E5.19.37.7.11.739	928	29979667392	2E5.199.464819

R9 43 3297972350	2.5E2.41.449.3583	931 3331018845 3E2.7.5.11.17.193.293	R9 32 3647981015 3E4.5.11.11.599.1367	991 3833109376 2E7.7.1.197.2141
R9 43 38009763264	2E6.83.443.1279	932 3334417196 2E2.11.17.53.241.349	992 3513278192 2E4.41.43.59.2111	R9 X 3953660384 2E5.2753.44879
W1 32 3853074496	2E6.1439.33151	R9 43 3581168484 2E2.11.109.769.971	993 3554987885 3E3.5.13E3.23.521	R9 43 4173346904 2E3.79.83.79559
R9 43 3802065808	2E4.19.223.44549	933 3341224575 3E2.582.13.19.59.1019	R9 X 3681895715 3E3.5.11.41.59159	R9 X 3868601715 3E4.5.11E2.89.887
L1 33 3167838192	2E4.197.349.2879	L1 32 3564583425 3E2.582.13.23.59.5099	964 3554318372 2E2.11E3.19.41.857	994 3865930695 3E2.5.11.29.43.6263
R9 43 3024864112	2.5.11.13.23.91969	934 3359556915 3.5.11.17.13E2.19.373	R9 X 3831620181 2E2.11.103.845459	L1 22 3873366585 3E2.5.11.29.47.5741
R9 43 3649954316	2.5.67.1259.4327	R9 X 365089645 3.5.11E3.17.191.109	R9 X 3564199504 2E4.47.101.167.281	995 386864998 2.5.11.43.509.1687
R9 43 3845423630	2.5.23.17.19.40847	935 3370176315 3E4.11.5.23.31.1961	R9 32 3626340272 2E4.47.503.9587	W1 32 3925075330 2.5.11.89.400927
R9 33 3318157330	2.5.23.73.229.863	R9 43 3735470277 3E4.11.7.47.12743	996 357244481 2E4.43.97.199.269	996 3877164568 2E3.17.181.277.1819
R9 46 3036257456	2E4.19.439.22751	936 3373569544 2E3.41.31.71.4673	R9 43 3645843184 2E4.71.131.24499	W1 32 3932077832 2E3.17.5003.5779
L1 33 3170488144	2E4.157.263.4799	R9 33 3410834936 2E3.41.37.127.2213	967 3507492050 2.5E2.11.19.344249	997 38921637356 2E2.13.19.53.239.311
R9 47 3037569344	2E6.101.311.1511	937 3331430228 2E2.11.19.41.47.2099	R9 33 4086257950 2.5E2.14.269.2039	R9 43 4833135444 2E2.13.29.127.21059
L1 32 3073402432	2E6.503.95471	R3 54 3731017772 2E2.23.31.89.146599	968 3682732595 3.5.19.72.11.47.499	998 3909065089 3E2.7.13.11.41.59.179
R9 48 3054330279	3E2.7E3.13.11E2.17.17	938 3382872670 2.5.19.17.179.5851	R9 X 4276947405 3.5.19.23.29.149.151	R9 44 424393191.382.7.13.23.29.53.139
R9 X 3568431321	3E3.7E2.13.207479	R9 33 3429900130 2.5.19.23.461.1709	969 3684491345 3.5.19.23.29.39.37.107	999 3905117576 2E3.19.47.71.7699
R9 49 3065342660	2E2.5.9743.15731	939 3393478725 3.5E2.7.13.47.71.149	R9 52 4338226095 3.5.7.809.51071	R9 43 4078242424 2E3.23.2399.9239
R9 44 3372946876	2E2.13.107.347.1747	R9 42 3806060475 3.5E2.7.1049.6911	970 3611920304 2E4.29.593.13127	1000 3995322225 3.5E2.7.19.53.83.89
R9 40 3071356244	2E2.23.229.11.29.457	940 3396934125 3E3.583.13.139.557	L1 33 3640249456 2E4.53.109.39383	R9 X 4194159375 3.585.7.79.809
R9 32 3299606956	2E2.23.229.19.8243	R9 X 3427629075 3E3.582.13.167.2339	R9 43 3647464822 3E2.7.13.11.23.29.607	1001 3925579870 2.5.7.89.191.3299
911 301299916	2E2.11.13.113.47981	941 3401192925 3E2.582.13.41.79.359	R9 X 4001077899 3E2.7E2.13.31.47.479	R9 44 4285876930 2.5.19.199.263.431
R9 X 3331589323	2E2.11.12E2.263.26171	R9 33 3423370275 3E2.582.13.59.83.239	R9 43 3647562561 2E3.11.17.18.839.2459	1002 3940697128 2E3.19.53.163.3081
R9 12 3150174904	2E3.13E2.229672	942 3407059832 2E3.11.91.42499	R9 42 4163429432 2E3.1721.302399	R9 32 4035016472 2E3.19.603.38667
R9 X 3199343456	2E5.1097.91139	L1 33 3569740168 2E3.37.67.17.19999	973 3654283573 2E3.19.71.571.593	1003 3949406848 2E7.23.349.419
913 3107420056	2E3.13.19.331.4751	943 34082545632 2E3.23.47.229.1721	R9 43 3684785222 2E3.17.31.87.1119	R9 X 3997413152 2E5.139.499.1801
R9 43 3518768744	2E4.461.719.1327	R9 33 3435662168 2E3.23.71.409.643	974 3658862632 2E3.23.41.53.91.9151	1004 3956965155 3E3.5.11.13E2.15767
914 3123886972	2E2.11.13.431.12671	944 3411757220 2E2.173.5.691.1427	R9 43 3813562328 2E3.43.47.235871	R9 X 4353401565 3E3.5.17.71.26717
R9 33 3313974532	2E2.11.83.191.4751	W1 32 3809832988 2E2.173.13.423503	975 366339422226 2E2.5.71.2580241	1005 3961085625 3E3.584.7.33533
915 3124943756	2E2.11.19.1259.2969	945 3414281456 2E4.19.163.68983	L1 33 413789588 2E2.13.3163.25163	R9 X 4419731655 3E3.5.17.137.14057
L1 33 3161952244	2E2.11.29.149.16631	L1 33 3591877264 2E4.263.409.2087	976 3679227424 2E2.5.13.67.211247	1006 3963477872 2E4.41.43.71.1979
916 3159332032	2E7.101.107.2267	946 3415139192 2E3.19.47.71.6733	R9 43 4766617292 2E2.83.3671.3911	R9 42 4203499408 2E4.359.731807
R9 X 3225614188	2E5.3671.27539	R9 43 3566672008 2E3.23.2729.7103	977 36808156392 2E3.10.11.41.10099	1007 3971606470 2.5.13E2.17.132839
917 3186556056	3.5.782.13.29.47.241	947 3425919958 2.5E2.17.183.109.359	W1 32 4180855608 2E3.10.11.1009.5039	R9 X 4224919618 2.5.19.71.187.2927
R9 X 3525433995	3.5.7.41.131.6269	R9 44 368282558 2.5E2.29.59.71.171	978 3685631366 2E3.13E2.47.59.983	1008 3980355358 2.5E2.17.59.139.571
918 3143417344	2B9.89.101.683	948 3431458912 2E5.43.1439.171	R9 X 4093749032 2E3.79.2213.2927	R9 44 4062879850 2.5E2.23.131.149.181
R9 X 3280122416	2B4.113.659.2753	R9 33 3498122208 2E5.269.373.1887	979 3693013664 2E5.41.131.21487	1009 3986530499 2.5.929.7.11.5573
919 3152378344	2B3.23.31.419.1319	949 3434398695 3E2.7.13.5.191.4391	L1 31 3812143072 2E5.119129471	L1 31 49711166878 2.5.929.535103
R9 43 3234309656	2B3.19.2687.7919	R9 33 3932355609 3E2.7.13.23.187.1951	980 3710119780 2E2.227.5.17.53.907	1010 4000783984 2E4.43.113.51461
920 3288153956	2B2.11.29.31.317.367	950 3437107245 3E2.5.13.11E2.59.823	R9 42 4741427996 2E2.227.71.73547	L1 X 4003151168 2E9.1367.5717
R9 45 4966337535	3E3.5.439.69119	R9 X 3743368958 3E3.5.13.617.3457	981 3715179948 2E3.13.53.223.3023	1011 4007609528 2E3.13.29.1328783
921 3202734465	3E3.5.7.17.31.59.109	951 3437839568 2B4.29.659.11243	R9 44 39565644792 2E3.71.97.167.431	R9 33 4363729672 2E3.61.151.59219
R9 52 4996337535	3E3.5.439.69119	L1 33 3463727632 2E4.59.89.41227	982 373691293 2E3.17.43.639007	1012 4023332278 2.5.19.23.37.149.167
922 3216355702	2.5.11.47.769.809	R9 33 3437861427 3E3.7.11.13.131.971	983 3737773292 2E3.31.11.61.167.269	R9 43 4250031730 2.5.19.47.179.2659
R9 33 325056830	2.5.11.107.461.599	952 34379761613 3E3.7.11.17.53.1847	R9 44 3821742868 2E3.31.17.53.93.433	1013 4028769225 3E3.5E2.13.17.113.239
923 3232161384	2E7.173.227.643	953 3432351432 2E3.23.29.127.5081	984 3743928845 3E2.5.13.11.223.2609	1014 4029072075 3E2.5E2.7.19.134639
R9 X 3282775456	2E5.229.347.1291	R9 44 3582105368 2E3.43.83.109.151	R9 23 3917194515 3E2.5.13.23.347.839	R9 X 4652515125 3E3.5E3.109.12647
924 3254918625	3E2.5E3.13.11.113.179	954 34343961465 3E2.5.23.7.53.896	985 3751299651 2.5E2.19.29.136163	1015 4032465344 2E6.187.191.3083
R9 X 3732274555	3E2.5.13.47.479.13337	R9 32 3810113415 3E2.5.23.19.193751	L1 33 3846660554 2.5E2.17.349.12967	W1 32 4098162304 2E6.1151.55511
925 3260154664	2B3.13B3.251.739	955 3445207395 3.5.782.19.29.47.181	986 3762853094 2.7.11.13.373.5039	1016 4048940048 2E4.17.1451.19259
R9 X 3397181336	2B3.29.97.150959	R9 X 3725301405 3.5.7.19.1867319	987 3787631894 2E2.37.5.51.8431	1017 4049815258 2.5E3.13.43.28979
926 3274564293	3E3.7.11.13.17.7127	956 34520849632 2E5.43.263.959	988 37971392550 2.5E2.7.107.101399	L1 X 4304778994 2.5.13.857.38639
R9 33 3620358747	3E3.7.11.53.131.251	L1 32 35293198688 2E5.211.522719	989 3804416572 2E1.11.43.71.127.223	1018 4053148888 2E3.79.11.583819
927 3276339555	3E2.5.13.11.29.97.181	957 3459581824 2E7.97.278639	R9 43 3475340505 3E3.5.13.31.83.33791	W1 23 4342339912 2E3.79.187.157.499
R9 42 3732588765	3E2.5.13.17.139.35671	R9 X 3503631776 2E5.139.773.1019	990 3804517244 2E2.11.17.367.13859	1019 4056852735 3E3.5.19.13.89.1367
928 3279918015	3E2.7E2.13.5.73.1567	958 3474708976 2E4.67.109.131.227	R9 33 3953660554 2E2.227.71.73547	R9 33 4216811265 3E3.5.19.29.83.683
L1 32 3943277793	3E2.7E2.13.83.8287	R9 43 3503951504 2E4.37.158.3739	991 3884416572 2E1.11.43.71.127.223	1020 4063895408 2E4.19E2.449.1567
929 32935777950	2.5E2.31.13.149.1097	959 3475340505 3E3.5.7.13E2.47.463	R9 43 3205154662 2E2.11.31.83.33791	R9 X 4269946192 2E4.179.839.1777
L1 32 3568482850	2.5E2.31.853.2699	R9 X 4350149415 3E3.5.127.487.521	992 3804517244 2E2.11.17.367.13859	
930 3312096464	2E4.29.661.10799	960 3481924064 2E5.11.71.103.14879	R9 33 39536726656 2E5.127.870479	
L1 33 3337031504	2E4.59.89.39719	L1 32 3537626656 2E5.127.870479		

1021	4088056208	2E4.41.53.307.383	1051	4377238047	3E2.7.13.17.29.37.293	1081	4796703664	2E4.43.67.104059	1111	5131883330	2.5.7.17.103.149.281
R9 43	4227411568	2E4.71.1231.3023	R9 X	4406635233	3E2.7.13.1182.53.839	L1 22	485569456	2E4.43.37.373.18919	R9 53	6270843070	2.5.107.1079.3119
1022	4095021315	3.5.7.11.23.139.1109	1052	4377991936	2E8.293.58367	1082	4800749954	2.7.11.13.73.107.307	1112	5156687470	2.5.11.53.419.2111
R9 43	4497977085	3.5.7.31.83.16649	L1 22	4390866176	2E8.3583.4787	R9 43	5124163198	2.7.11.43.83.9323	R9 33	5189747690	2.5.11.131.139.2501
1023	4184095930	2.5.11.47.139.5711	1053	4396203070	2.5.7E2.107.191.439	1083	48025780325	3E3.5E2.7.293.3469	1113	5157409576	2E3.11.37.179.8849
R9 44	4186986310	2.5.13.89.101.3583	R9 X	4964856778	2.5.31.131.179.683	L1 X	5317615275	3.5E2.7.139.72869	R9 43	57387010424	2E3.113.269.2359
1024	4185247230	2.7.31.5.23.83.991	1054	4400527095	3E5.5.17.23.59.157	1084	4839564015	3E2.5.13.11.61.12329	1114	5164511625	3E2.7.13.583.61.827
R9 43	510162946	2.7.31.71.383.433	R9 43	4543739145	3E5.5.11.359.947	R9 X	5177919825	3E2.5E2.13.359.4931	R9 X	6495742071	3E2.7.13.103.77003
1025	4189466956	2.5E2.31.17.83.1879	1055	4414931650	2.5E2.31.23.59.2099	1085	4842186615	3E3.5.7E2.359.2039	1115	5188836656	2E4.59.61.251.359
R9 X	4349991610	2.5.31.23.433.1409	R9 33	4584492358	2.5E2.31.89.167.199	R9 X	5204405385	3E3.5.23.37.89.5089	R9 43	5272993744	2E4.53.199.31247
1026	4123833752	2E3.17.53.61.83.113	1056	4416889923	3E2.7E2.13.19.23.41.43	1086	4856901232	2E4.17.2939.6879	1116	5191917711	2E4.1.167.114299
R9 53	4532487208	2E3.71.227.35153	R2 32	4785272037	3E2.7E2.13.19.197.223	R9 33	5114763638	2E4.227.599.2351	L1 32	5523021424	2E4.761.453599
1027	4141715578	2.5.11.23E2.89.463	1057	4429428675	3.5E2.7.19.167.2659	1087	4863771495	3E3.5.11.39.1291	1117	5200086344	2E3.1.269.387.463
R9 X	4171865230	2.5.13.47.157.4349	L1 22	4436670525	3.5E2.7.19.239.1861	R9 32	4959562985	3E3.5.11.47.71059	R9 44	5218198456	2E3.19.1.593.521
1028	4143353654	2E3.13.29.509.2699	1058	4458625504	2E5.37.269.13999	1088	4875810975	3E2.5E2.31.7.37.2699	1118	5200799264	2E5.53.1439.2131
R9 43	4531746344	2E3.53.49.499.21419	L1 32	4598694496	2E5.79.179999	R9 32	5709225825	3E2.5E2.31.449.1823	R9 33	524612896	2E5.107.491.3119
1029	4144376143	3.5.7E2.13.41.71.149	1059	4488453968	2E4.17.2351.7019	1089	4878141598	2E2.5.23.4227	1119	5231345846	2E2.11.11.353.1361
R9 43	4542971055	3.5.7E2.53.139.839	R9 33	4724706352	2E4.223.701.1889	R9 33	5380167562	2.7E2.11.653.7643	R9 53	61189616	2E2.17.9.39.9533
1030	4149106333	3E4.5.11E3.43.179	1060	4498958220	2E2.5.7.31.62641	L1 22	5259164108	2E2.11.109.839.1307	1120	5228978728	1.7E2.53.139.307
L1 21	4268776545	3E4.5.11E3.79.19	L1 33	5072879188	2E2.13.10.3083.31643	1090	5493671672	2E3.41.89.307.613	R9 X	5493671672	2E3.41.89.307.613
1031	4150593233	2E4.43.61.98899	1061	4516391295	3E2.5.13.19.59.71.97	1091	508571656	2E3.19.71.83.5471	1121	5257013762	2.7.11.43.13.79.773
L1 22	4213181968	2E4.43.859.7129	R9 43	4727991105	3E2.5.13.29.83.3359	R9 32	5827825144	2E3.19.2267.14591	R9 23	5278899598	2.7.11.43.839.1931
1032	4152981848	2E2.11.182.23.53.7039	1062	45252539078	2.5.7.17.73.79.659	1092	5093365044	2E2.1.17.129.5807	1122	5250961055	2E5.67.199.12401
R9 X	4341313194	2E2.11.43.79.727.279	R9 53	5604923338	2.5.593.739.1279	R9 33	5609351436	2E2.11.19.1451.2711	R9 33	5335072544	2E5.149.211.5303
1033	4161901012	2E2.5.21.11.13.17.421	1063	4569376424	2E3.19.43.83.823	1093	591135351	2.5.7.74.49.983	1123	52696175750	2.5E3.17.29.97.443
L1 32	4360072772	2E2.5.21.11.11.8861	R9 43	4771154776	2E3.23.1871.13859	R9 34	5291079190	2.5.29.409.139	R9 X	5700176890	2.5.19.83.181.1997
1034	4186831005	3E3.5.7.67.89.743	1064	4570182110	2.5.13.23.479.319	1094	59312446565	1E2.5.7E2.29.67.1151	1124	5301374925	3.5E2.11.782.199.659
R9 43	4555466595	3E3.5.23.29.50591	R9 44	4696321570	2.5.17.37.127.5879	R9 X	5517299115	3E2.5.11.683.16319	R9 X	5894337075	3.5E2.11.23.113.2749
1035	4189882288	2E4.17.239.6421	1065	4582247428	2E2.11.29.79.11.371.347	1095	4937344976	2E4.37.61.2909	1125	5302349776	2E4.17.2267.8599
R9 33	4104680132	2E4.23.59.569.2027	R9 32	4678458172	2E2.11.29.463.709	R9 42	5264327504	2E4.5471.60139	R9 33	5581328624	2E4.257.449.3023
1036	4210137424	2E4.359.123.109.3.929	1066	4589683938	2.5.11.13.16.19219	1096	4960168580	2.5E2.13.89.179.477	1126	5319472184	2E3.13.41.199.6269
R9 42	465839376	2E4.359.123.107.4747	R9 X	51746855656	2.5E2.79.881.1487	R9 43	5164235150	2.5E2.19.863.6299	R9 43	5740807816	2E3.37.3079.6299
1037	41873505	3E3.5.7.17.23.11399	1067	4594486048	2E5.53.463.5851	1097	4960585125	3E3.5E3.31.17.2789	1127	5321930128	2E4.29.53.379.571
R9 43	524742495	3E3.5.8.9.607.719	R9 33	4640359808	2E5.173.223.3261	R9 X	5667344475	3E3.5E2.31.23.10529	R9 43	5593889072	2E4.197.569.3119
1038	4242143750	2.5E5.13.109.479	1068	46404839810	2.5.19.17.37.53.727	1098	4967434940	2.5.19.11.139.17899	1128	5325455919	2E4.43.139.233.239
R9 X	419801850	2.5.182.19.1567.2969	R9 42	5075347070	2.5.19.15.151.176903	R9 33	53746495919	2.5.19.11.13.167.1499	R9 43	5988345416	2E4.41.1559.5279
1039	4261889193	3E2.7E2.13.5.43.3457	1069	4617085725	3E3.5E2.7.53.103.179	1099	4988118698	2.5.31.19.61.83.167	1129	53756204956	2E4.29.83.97.1439
L1 32	5289468173	3E2.7E2.13.227.4003	R9 X	5140843875	3E3.5E3.479.3347	R9 43	5699236198	2.5.31.223.4339	R9 43	5646873984	2E4.199.503.3527
1040	42800119305	3.5.7.11.59.157.587	1070	4634941234	2.7.11.17.37.39.811	1100	49972253	3E2.5E2.7.17.29.47.137	1130	5381195288	2E3.13.23.191.11779
R9 44	4498673655	3.5.7.31.53.89.293	R9 X	4962509006	2.7E2.13.79.179.463	R9 X	6533296515	2E2.5.59.863.2851	R9 43	6017775112	2E3.127.433.13679
1041	4281566032	2E4.29.97.251.379	1071	4667500708	2E2.19.13.97.113.431	1101	500182352	2E2.11.19.1583.3779	1131	5389403950	2.5E2.7.1999.7783
R9 43	4466003636	2E4.21.239.12829	R9 43	4792055132	2E2.19.17.83.44687	R9 34	5059595348	2E2.11.59.187.131.139	R9 33	6074148050	2.5E2.79.641.2399
1042	4282854730	2.5.7.11.761.7309	1072	4671243424	2E5.43.3394799	1102	532905345	3E2.5.1.3E2.61.1.439	1132	5403806252	2E2.13.17.239.25577
R9 42	5342485430	2.5.1087.491489	W1 23	4739142176	2E5.229.23.2459	L1 X	5091357375	3E2.5E3.1382.61.439	L1 44	5424895828	2E2.11.23.521.18289
1043	4288758056	2E3.11.4513.10799	1073	4702051046	2.7.23.11E2.17.31.229	1103	5047872698	2.5.11.37.743.1669	1133	5442123375	3E3.5E3.13.71.179
R9 34	4486457944	2E3.47.73.149.1097	R9 X	5446976794	2.7.23.29.151.3863	R9 X	5151203150	2.5E2.17.191.31729	R9 33	5552656785	3E3.5.13.37.233.367
1044	4312833832	2E3.29.31.521.1151	1074	4709813710	2.5.7.1307.51479	1104	508426638	2.5.13.23.563.2999	1134	5444062533	3E2.782.13.19.23.41.53
R9 33	4346519768	2E3.29.47.191.2087	R9 X	4986547250	2.5E3.47.59.7193	R9 44	5184789370	2.5.17.31.349.2819	R9 32	5894848827	3E2.782.13.19.83.647
1045	4313390445	3E2.7.13.5.23.41.1117	1075	4721483056	2E4.23.139.241.383	1105	5066442170	2.5.7E2.31.79.4217	1135	5444435745	3E2.5.7.61.67.4229
R9 42	5551592339	3E2.7.13.103.16551	R9 43	4957897424	2E4.197.439.3583	R9 X	6018387910	2.5.7.13.113.72959	R9 X	5667780575	3E2.5E2.1.563.4879
1046	4321518201	3E2.7E2.13.11.17.29.139	1076	4754422208	2E6.157.269.1759	1106	5063925616	2E4.43.71.83.1249	1136	5447262776	2E3.23.47.83.7589
R9 X	5089774599	3E2.7E3.13.53.2393	R9 32	4789949992	2E6.197.379199	R9 43	5247914384	2E4.79.769.5399	R9 33	556974024	2E3.23.179.263.643
1047	4331542790	2.7.41.5.47.163.197	1077	4763730288	2E5.17.1949.4493	1107	5088828558	2.5E2.11.499.18539	1137	5454702435	3.5.7.13.43.199.467
R9 43	5095298698	2.7.41.23.187.3607	L1 X	5173851992	2E3.41.15773939	R9 33	5257291450	2.5E2.19.199.27889	W1 32	5615556765	3.5.7.13.1319.3119
1048	4346372745	3E2.11.13.17.5.67.593	1078	4771436296	2E3.11.23.271.8699	1108	5088398630	2.5.7E2.1319.7873	1138	5455094488	2E3.127.1982.107.139
R9 32	5180969079	3E2.11.13.17.43.507	R9 42	5451411704	2E3.7649.89887	R9 X	5575517050	2.5E2.37.1187.2539	R9 X	5605522952	2E3.127.41.53.2539
1049	4355468325	3E2.5E2.13.19.109.719	1079	4784209576	2E3.19.23.29.47189	1109	5113896443	3E2.7E2.13.17.23.2281	1139	5477707264	2E9.59.149.1217
R9 32	4581459675	3E2.5E2.13.89.17599	L1 42	5408838424	2E3.19.7.343199	R9 33	5113841733	3E2.7E2.13.11.83.977	R9 X	5736418736	2E4.131.1049.2609
1050	43735989875	3.5E2.11.7.17.44549	1080	4785332175	3E5.5E2.13E2.59.79.779	1110	5118127490	2.5.7.37.167.11833	1140	5497064685	3E2.5.7.83.167.1259
R9 32	4372219525	3.5E2.11.43.145799	R9 X	5126533425	3E2.5E2.13.479.3659	R9 X	5760821374	2.7.11E2.487.6983	R9 32	5598354195	3E2.5.7.3527.5039

1141 5502084136 2E3.17.199.263.773	1171 5857529678 2.7E3.13.11.29E2.71	1201 6155750475 3E2.5E2.7.23.109.1559	1231 6677930385 3E5.7.5.37.2121
R9 44 5532059864 2E3.31.31.53.89.4729	R9 X 6785209522 2.7.13.239.389.481	R9 X 7121971125 3E2.5E3.59.61.1759	R9 X 7412119407 3E5.7E2.11.56591
1142 5502767650 2.E5E2.19.37.89.1759	1172 5864752630 2.5.11E2.53.109.839	1202 6158780048 2E4.17.81.27919	1232 6682859001 3E2.7.13.17.23.41.509
W1 32 5692944350 2.E5E2.19.227.26399	R9 X 6080349770 2.5.11.2393.23099	L1 32 6491732272 2E4.173.2345279	R9 33 6790149639 3E2.7.13.17.29.67.251
1143 5513127795 3E2.5.17.7.29.131.271	1173 5871076575 3.5E2.7.13.79.10889	1203 6179708345 3.5.7.13.17.79.3371	1233 6692989624 2E3.17.181.293.1663
R9 42 6585084045 3E2.5.17.1887.7919	R9 33 6228149625 3.5E2.7.43.263.1849	R9 43 6872367495 3.5.7.47.59.23603	W1 32 6780019016 2E3.17.1087.45863
1144 5546461395 3.7.11.5.47.83.1231	1174 5885347545 3E3.5.7.11.257.2203	1204 6181674850 2.E5E2.13.59.359.449	1234 6716127352 2E3.53.11.971.1483
R9 44 5898483591 3.7.11.13.17.43.2687	R9 42 7215933735 3E3.5.47.1137263	R9 43 6473765150 2.E5E2.23.139.40499	W1 32 7304467202 2E3.53.211.81647
1145 5552366085 3E2.5.7.79.347.643	1175 5906679975 3E5.5E2.7.138899	1205 6206951625 3E3.5E3.11.19.59.149	1235 6718867096 2E3.13.59.79.13859
W1 32 5635344955 3E2.5.7.463.38639	R9 X 6632100825 3.5E2.7.2777.4549	R9 42 7277448375 3E3.5E3.719.2999	R9 44 7252812904 2E3.83.131.199.419
1146 55620837616 2E4.43.59.263.521	1176 5907430305 3E3.5.7.151.41399	1206 6217083755 3E2.5.13.19.23.83.293	1236 6722173755 3E2.5E2.13E2.17.10399
R9 43 5716169184 2E4.71.241.20879	R9 X 6174745695 3E3.5.17.129.3239	R9 43 6272624695 3E2.5.13.41.179.1567	L1 22 7083639225 3E2.5E2.13E2.311.599
1147 5574272535 3E2.5.13.19.43.107.109	1177 5907709665 3E2.5.13.11.79.11621	1207 6249563650 2.5E2.11.449.25307	1237 6741318356 2.5E2.13.89.116531
R9 43 584193265 3E2.5.13.23.449.967	R9 X 6275865375 3E2.5E3.13.429119	R9 34 6469113950 2.5.11.29.89.113.443	L1 X 6913901410 2.5.13.53.1003469
1148 5575534580 2.5E2.13.17.83.5679	1178 5924391392 2E5.43.493.9719	1208 62555734650 2.5E2.11.1487.7649	1238 6742313936 2E4.29.47.309167
R9 X 6393879978 2.5.41.139.151.743	R9 33 68386735656 2E5.263.647.11189	R9 34 64749716550 2.5E2.29.61.269.271	R9 33 70589455584 2E4.151.431.6779
1149 5579526590 2.5.11E2.89.197.263	1179 5935418265 3.5.7E2.19.47.9043	1209 6261264590 2.5.7E2.149.191.449	1239 6752847995 3E2.7.11.5.1151.1693
R9 32 5682989530 2.5.11E2.659.7127	R9 X 59418868555 3.5.7.19.37.181.797	R9 X 7035695450 2.5.37.53.499.719	W1 32 7860694149 3E2.7.11.31.365983
1150 5587489230 2.5.13.19.1451.1559	1180 5936514512 2E4.17.659.33119	1210 6262961888 2E5.41.47.737599	1240 6764433178 2.5.11.23.47.163.349
R9 33 5828795570 2.5.13.199.233.967	R9 33 6260919988 2E4.263.919.1619	W1 23 6367983712 2E5.179.1019.1091	R9 33 7518523630 2.5.19.383.103319
1151 5592854630 2.5.19.11.569.4793	1181 5939823970 2.5.11.29.383.4861	1211 6275937424 2E4.19.509.40559	1241 6768593964 2E4.29.289.6983
R9 33 59890274970 2.5.19.71.167.2659	W1 32 6159187870 2.5.11.4159.13463	W1 33 6549134576 2E4.179.199.11491	L2 33 6886266832 2E4.37.439.26189
1152 5607550165 2E3.13.149.361871	1182 5945041304 2E3.17.37E3.863	1212 6284451608 2E3.17.113.191.2141	1242 6771898208 2E5.71.151.19739
R9 34 5791414984 2E3.41.59.139.2153	R9 X 6195151496 2E3.23.821.401839	W1 32 6374245312 2E3.17.4787.9791	R9 33 68382799072 2E5.113.563.3359
1153 5609702696 2E3.13.29.197.17383	1183 5983595612 2E5.79.227.19427	1213 6287302312 2E3.19.29.881.1619	1243 6777003584 2E3.11.37.233.8933
R9 43 6218370984 2E3.89.317.27553	1184 5990705656 2E3.13.39.51.71.13751	R9 44 6572257680 2E3.41.89.149.1511	R9 43 7522400456 2E3.107.227.38713
1154 5619410456 2E4.29.79.83.1847	R9 43 5990705656 2E3.13.39.51.71.13751	1214 6305672368 2E4.17.751.30869	1244 6783735248 2E4.41.189.139.683
R9 42 5929859344 2E4.191.194.190399	R9 43 6485108744 2E3.41.647.303559	R9 33 6647873552 2E4.251.839.1973	R9 43 6926371952 2E4.47.2309.3989
1155 5640198165 3E2.5.19.782.61.2207	R9 43 6485108744 2E3.41.647.303559	1215 6307360510 2.5.11.29.461.4289	1245 6789822528 2E6.89.239.3987
R9 X 6532594515 3E2.5.19.47.162563	R9 44 6448607505 3E3.5.19.47.149.359	W1 32 6535896890 2.5.11.1451.40949	W1 32 6894659872 2E6.8599.12527
1156 5668019814 2E6.223.311.1277	1186 6001753725 3E5.5E2.11.19.29.163	1216 6343170730 2.5.17.13.67.42839	1246 6794712832 2E8.89.298223
R9 33 56635159744 2E6.283.431.727	R9 X 7323293475 3E2.5E2.79.491.839	R9 33 6870741590 2.5.17.21.293.509	R9 X 6926060892 2E5.227.653.1459
1157 56766464514 2.7.11E2.23.53.2749	1187 6824547696 2E4.29.83.311.503	1217 6353438175 3E3.5E2.7.29.199.233	1247 6845195390 2.5.11.53.139.8447
R9 X 5699641486 2.7E2.11.41.43.2999	R9 43 62596666064 2E4.107.293.12479	R9 42 7572421825 3E3.5E2.11.151.9749	R9 33 6950056090 2.5.11.167.239.1583
1158 5697735225 3.5E2.7.13.167.4999	1188 6831567575 3E2.5E2.11.19.47.2729	1218 6356368136 2E3.17.103.109.181	1248 6862936275 3E3.5E2.13.29.149.181
L1 32 5961847735 3.5E2.7.29.391999	R9 43 6646221225 3E2.5E2.17.167.18399	R9 53 7135510264 2E3.131.2027.3359	R9 X 73495093725 3E2.5E2.13.583.4999
1159 5715251290 2.5.7.53.15.1540499	1189 6842829905 3E3.5.7.23.29.9587	1219 6378495978 2.7E2.19.23.11.13523	1249 6885178846 2.7E2.19.13.23.83.149
R9 34 626367676170 2.5.23.89.157.1949	R9 43 7216121295 3E3.5.31.1223.1469	L1 21 6590150362 2E2.17.23.11.162287	R9 43 7597331354 2.7E2.19.31.293.549
1160 5725765580 2.5E2.5.17.467.36861	1190 6405115850 2.5E2.17.41.89.1949	1228 6386741384 2E3.37.23.71.73.181	R3 42 6878699896 2E3.37.701.33151
L1 43 7033258516 2E2.37.107.441431	R9 43 6293938150 2.5E2.29.53.81899	R3 42 6878699896 2E3.37.701.33151	R9 X 7154242552 2E3.23E2.971.1741
1161 5745724875 3E4.11.583.23.2243	1191 6066248175 3E2.5E2.13.31.149.449	1221 6397019750 2.5E3.11.19.191.641	1251 6889795156 2E2.11.13E2.269.3449
R9 X 6453503597 3E4.11.67.15443	1192 6120471825 3E2.5E2.13.31.67499	R9 X 74747929730 2.5.31.3209.7487	R9 X 7420038484 2E2.17.29.149.25253
1162 5747841099 3E2.7.11.11E2.31.1871	1192 6667647728 2E4.29.41.311.1019	1222 6451021016 2E3.11.41.103.17359	1252 6998164488 2E3.19.23.223.8861
R9 X 5852448693 3E5.7.13.23.37.311	R9 42 644248972 2E4.449.896783	R9 43 7198150384 2E3.97.11.151.8059	L1 42 7384527112 2E3.31.29776319
1163 5766520288 2E5.59.599.5899	1193 6882113815 3E4.5.11.29.179.263	1223 6469278688 2E5.61.199.16631	1253 6921765752 2E3.11.79.995651
R9 33 5800279712 2E5.181.359.4999	R9 32 6337714185 3E4.5.11.593.2399	R9 33 6532639712 2E5.139.4896	L1 33 7415623048 2E3.53.83.210719
1164 5771384168 2E3.11.183.599.1063	1194 6104216464 2E4.59.107.223.271	1224 6478496595 3E2.5.17.19.23.19379	1254 6943893957 3E2.7.13.19.11.113.359
R9 43 6179463832 2E3.37.233.89599	R9 44 6325000176 2E4.101.127.167.179	1221 6590185628 2E5.29.2053.3617	R9 33 7297123643 3E2.7E2.13.19.59.1151
1165 5797165010 2.7E2.5.13.881.1033	1195 6104279475 3E4.582.7.499.863	1225 6506173275 3.5E2.7.17.599.1217	1255 6960968212 2E2.19.11.37.139.1619
R9 43 73023630622 2.7E2.41.293.6203	R9 X 685917625 3E3.5E2.53.109.1759	R9 33 6542991525 3.5E2.7.19.51.125.1259	R9 44 7517943788 2E2.19.53.83.113.199
1166 5797844128 2E5.79.181.12671	1196 6107550855 3.5.7E2.19.41.10667	1226 6534418330 2.5.11.29.1319.1553	1256 699982624 2E4.19.149.191.809
R9 33 5825298032 2E5.83.1319.1663	R9 X 6151261305 3.5.7E2.19E2.97.239	W1 32 6757876070 2.5.11.59.102563	R9 42 7464267376 2E4.2049.23039
1167 5806329830 2.5.7.29.59.48874	1197 6108334785 3E2.5.7.83.167.1399	1227 6559154548 2E5.52.281.13763	1257 7035981610 2.5.7.53.109.127.137
R9 43 6759686170 2.5.47.89.161599	W1 32 6219908415 3E2.5.7.2239.8819	R9 32 6645706088 2E4.41.51.16433	R9 53 8073097430 2.5.29.197.141311
1168 5815268650 2.1.11.31.5E2.17.20063	1198 6135082624 2E4.59.7.127.701	1228 6562770525 3E3.5E2.31.17.19.971	1258 7072796115 3E2.5.7.11.709.2879
R9 X 7082199674 2.11.31.37.43.61.107	R9 43 6232751216 2E4.47.359.23087	R9 31 7322055075 3E3.5E2.31.349919	R9 44 8238666285 3E2.5.19.79.283.431
1169 5845926555 3E2.5.19.7.37.26399	1199 6143533695 3E4.5.13.17.68639	1229 6575884876 2E2.19.41.11E2.107.163	1259 7074650624 2E9.947.14591
R9 X 6674009445 3E3.5.19.439.5927	L1 22 6414291585 3E4.5.13.71.17159	R9 X 7275607604 2E2.19.41.113.20663	L1 22 7076729344 2E9.1367.10111
1170 5849277512 2E3.13.179.223.1409	1200 6146662545 3E2.5.17.19.53.79.101	1230 6589526450 2.5E2.13.29.1519	1260 7096666610 2.5.11.53.719.1693
R9 44 6089474488 2E3.41.59.419.751	R9 44 6226508655 3E2.5.17.29.59.67.71	R9 42 7659561550 2.5E2.11969.12799	R9 33 7129680910 2.5.11.83.269.2903

L2 33	7444382384	284.1.91.281.8669	1291	7579753125	3.5E5.7.19.6079	1321	8056058244	2E2.11.29.53.139.857	1351	8508405465	3E2.5.7.79.181.1889
L2 262	7125887110	2.5.17.19.13.21419	1292	7591540816	284.23.3533.5839	1322	8077248916	2E2.11.19.59.83.1973	1352	8663076135	3E2.5.7.1.1871.14699
R9 33	7394972929	2.5.17.29.1839.1427	1293	7763547824	284.71.151.4529	1323	8637003884	2E2.17.23.1879.2939	1353	8735245875	3E3.5B3.29.31.2879
L263	7127201475	3E3.5E2.31.23.59.251	1293	7592910975	383.5E2.13.43.20123	1323	8119394450	2.5E2.31.19.23.11987	1353	8521868555	3E6.5.13.17.71.149
R9 33	7271876925	3E3.5E2.31.53.79.83	1294	7778605185	382.5.13.43.29.18663	1324	9005223798	2.5.31.73.107.3719	1354	9326392245	3E6.5.23.53.2899
L264	7131782716	2.5.17.13.89.101.359	1294	7593626504	283.17.187.373.1399	1324	8135645416	2E3.19.41.911.1433	1354	8534619752	2E3.17.23.71.83.463
R9 42	7858790099	2.5.17.1223.37799	1295	7608153358	2.5E2.7.19.121439	1325	8342735384	2E3.19.1367.49151	1355	9650022888	2E3.34.7.503.6911
L265	7143425289	3E3.7.13.11.113.2339	1295	7608153358	2.5E2.7.19.121439	1325	8167602195	3E2.5.13.19.23.43.743	1355	855577850	2E2.5E3.197.283.307
R9 X	7197592311	3E3.7E2.13.17.103.239	1295	8655091450	2.5E2.137.383.3299	1325	8911299655	3E2.5.13.61.197.1279	R9 X	10355067452	2E2.23.9371.12811
L266	7148883170	2.5E2.179.251.3623	1296	7631131095	384.5.59.7.43.1061	1326	8188640048	2E4.41.47.349.761	1356	8575844056	2E3.13.71.347.3347
R9 X	818888356	2.5E2.179.251.3623	1296	8652642345	384.5.59.31.11681	1326	8479943152	2E4.97.239.22859	R9 44	9049528424	2E3.53.61.431.811
L267	7194969656	2.5E2.19.43.176129	1297	7644728944	284.67.83.151.569	1327	8201184795	3E4.5.17.19.71.883	1357	8628307636	2E2.13.17.79.123551
W1 23	7219690559	2.5E2.19.109.113.617	1297	7696789136	284.37.667.21419	1327	8433856485	3E4.5.17.47.67.389	R9 34	8807350694	2E2.13.31.131.179.233
L268	726766832	2E4.5.61.83.1693	1298	7689014456	283.17.101.389.1439	1328	8261274728	2B.19.107.223.743	1358	8645093145	3E5.5.13.23.53.449
R9 43	7499858416	284.71.461.14321	1298	7689014456	283.17.101.389.1439	1328	8312901168	2E4.71.1889.3967	R9 32	9186830055	3E5.5.13.599.971
L269	7274734155	3E2.5.13.19.53E2.233	1299	7693403445	282.7.13.47.5.71.563	1329	8237044498	2E3.17.47.1288649	1359	8651076434	2.7.11.13.23.89.2111
R9 X	7356799125	3E2.5E3.13.41.2269	1299	9334667979	282.7.13.47.28.863	1329	8463859592	3E2.43.53.109.4259	R9 43	9742585006	2.7.11.223.239.1187
L270	7278278885	3E2.5.13.17.233.349	1300	7696871176	283.19.53.127.7523	1330	8249841116	2E2.11.19.89.110879	1368	8658321632	2E5.71.79.48239
R9 32	785490715	3E4.5.13.19.10529	1301	7704894824	282.59.101.201.2023	1330	8515214884	2E2.11.59.71.46199	R9 33	8847095656	2E5.401.599.1151
L271	72837312410	2.5.19.37.29.73.601	1301	7716789124	282.59.17.19.9203	1331	8266626368	2E6.183.211.5939	1361	8676652328	2E3.19E2.47.7.659
L1 32	7634509790	2.5.19.37.179.6067	1301	8982948476	282.59.29.103.17243	1331	8371943072	2E3.85.159.587.761	R9 X	9066365272	2E3.43.59.587.761
L272	7317585748	2.5.19.11.71.113.1891	1302	7728248712	283.13.281.31121	1332	8263107788	2E2.23.47.13.17.8647	1362	8717951385	3E2.5.13.11E2.79.1559
R9 44	7744842732	2E2.19.37.53.167.311	1302	8877278480	283.37.107.181.1409	1332	93176735156	2E2.23.47.83.25943	R9 X	9407501415	3E2.5.13.37.223.1949
L273	7319982604	2E2.11E2.17.389.2287	1303	7735239556	283.12.13.43.71.89.647	1333	8269106625	3E2.13E2.31.61.583.23	1363	8804881385	3E3.5.11.37.191.839
R9 X	7633515956	2E2.11.41.659.6421	1303	7784412284	2E2.11.23.1759.4373	1334	940233759	2E2.13E2.31.61.7.467	R9 44	8845601895	3E3.13.29.151.1151
L274	733594912	2.17.349.7727	1304	779344980	2B.137.5.11.258107	1334	8275518971	2E2.782.13.19.17.41.109	1364	8808227056	2E4.59.71.113.1163
R9 33	7756843088	2E4.419.1049.1103	1304	816172582636	2E2.137.941.19727	1335	8279312830	2E2.11.37.881.2309	1365	8834761364	2E2.11.13.83.379.491
L275	7336292985	2E3.5.7.19.443.2767	1305	77880605075	3.582.7.17.149.5851	1335	8443831338	2.5.11E2.1187.5879	R9 X	95633895276	2E2.23.37.97.163.179
R9 X	8001520873	3E3.5E3.47.7.691	1305	7839110725	3.582.7E2.43.199.251	1336	8283367584	2E4.17.1439.21163	1366	885661358	2.7E2.19.11.601.719
L276	7336566710	2.5.19.11.83.42293	1306	7877338704	2E4.53.59.317.491	1336	8722329776	2E4.263.443.4679	R9 X	8937716242	2.7.19.13.89.113.257
R9 33	88011880010	2.5.19.151.293.953	1306	79072101936	2E4.53.239.39113	1337	8283986650	2.5E2.13.89.307.467	1367	8851379072	2E7.29.43.5587
L277	7373955488	285.1.71.3245579	1307	7880786940	2E2.5.13.167.179657	1337	85293896650	2.5E2.13.89.307.467	R9 X	9435713728	2E4.3467.170099
L1 X	7373955488	285.1.71.3245579	1307	79046628932	2E2.53.151.31.31051	1338	8550972720	2.5.13.131.181.2798	1368	8894283788	2E2.13.17.113.269.331
L278	73739069635	2E3.5.13.17.183.2393	1308	7887697504	2E5.59.1847.2239	1338	8575112128	2E3.269.13.13.23.12911	R9 54	9131961652	2E2.11.41.107.47309
R9 33	7784367515	3E3.5.13.83.227.233	1308	7893688096	2E5.109.123.233.10079	1339	8293692472	2E3.269.11.127.33893	1369	8902624875	3.5E3.17.199499
L279	7390033144	2E3.13.17.491.8513	1309	7822669772	2.782.11.19.167.2287	1339	8151723658	2.5E2.31.13.139.2969	L1 23	9023629125	3.5E3.7.29.113.1049
R9 42	8443693496	2E3.11351.92987	1309	7952449582	2.7.11.19.131.20747	W1 32	9098167558	2.5E2.31.659.8819	1370	89249474949	2.5.17.19.521.5393
L280	7393819030	2.5.19.13.227.13187	1310	7877338704	2E5.61.89.45432	W1 33	8600334850	2.5E2.17.2239.4519	R9 X	90170501415	3E2.5.13.37.223.1949
R9 33	7760775530	2.5.19.37.13.3527	1311	7900303190	2.5.31.13.619.3167	1341	8367278048	2E5.59.79.56099	1371	8935581375	3E2.5B3.7.53.79.271
L281	7430769453	3E2.5.13.11E2.13.91.292	1311	7938683050	2.5E2.31.47.59.1847	1341	8579376152	2E5.439.611999	R9 X	10128267568	3E2.5.19.47.103.2447
R9 X	7961723775	3E2.5E2.13.569.4787	1312	7920502317	3E2.7.13.19.17.79.379	1342	8376676496	2.7.5.13.19.1E2.43.593	1372	895214281	3E3.5.7.11.53.16249
L282	7460050875	3.5E3.7.13.349.479	1312	8013961683	3E2.7.13.19.31.37.449	1342	8169828056	2.7.367.864187	R9 43	11265457185	3E3.5.7.17.199499
R9 33	7635802125	3.5E3.7.47.59.1849	1313	7923037772	2E2.19.37.13.73.2969	1343	8452751584	2E5.59.151.2963	1373	8960697970	2.5.11.41.583.2099
L283	7480768832	2E6.233.239.2999	1313	8446176628	2E2.19.37.41.73259	1343	84875759456	2E5.79.1481.2267	R9 44	8906591710	2.5.17.37.71.20369
R9 33	7497103168	2E6.269.599.727	1314	7941148664	2E3.97.17.193.3119	1344	8455838230	2.7.5.97.911.1367	1374	8971549186	2E2.5.11.2953.13763
L284	7482418325	3E2.5E2.13.31.179.461	1314	7941148664	2E3.97.17.193.3119	R9 X	9150518762	2.7.11E2.83.151.431	R9 X	11589884804	2E2.151.21182.431
R9 33	7531628715	3E2.5.13.31.29.14321	1315	7941474368	2E6.79.373.4211	1345	8459517832	2E3.17E3.31.53.131	1375	8975660265	3E2.5.13.11.47.59.503
R9 43	8356509138	2.5.11.13.1499.3491	1315	7961973140	2E2.5.11.67.727.743	R9 X	9400398698	2E3.79.2887.7127	R6 43	10045057815	3E2.5.13.107.383.419
L285	7483202878	2.5.11.13.1499.3491	1316	7961973140	2E2.5.11.67.727.743	1346	8467262505	3E4.5.13E2.17.19.383	1376	8989017384	2E3.17.59.11.20391
R9 X	8810613652	2E2.1982.227.26879	1316	7983560655	3E2.5.17.7.29.101.509	R9 X	9899027415	3E4.5.31.487.1619	R9 34	916033016	2E3.37.53.103.5669
L286	7504585408	2E6.79.491.3023	1317	80068038764	2E2.13.17.19.307.1559	1347	8496604065	3E3.5.13.19.89.2861	1377	89896364572	2E2.17.29.13.89.3943
R9 33	7523483038	2.5E2.53.271.1069	1317	8035918180	2E2.13.139.701.1759	R9 43	8818771995	3E3.5.11.83.71549	R9 32	9788118628	2E2.17.29.1019.4871
R9 X	8601297138	2.5.37.71.327419	1318	8006813199	3E3.7E2.19.11.23.1259	1348	8491739828	2E2.13.11E2.183.13103	1378	9006915928	2E3.17.59.317.3541
R9 X	8810613652	2E2.1982.227.26879	1319	804514801	3E3.7.19.13.113.1619	R9 X	9271203916	2E2.13.23.227.9463	R9 43	9240051272	2E3.19.1931.31481
L1 X	7792465259	2.5E3.19.1640519	1319	8083873948	2E2.13.17.19.307.1559	1349	85092526305	3E2.7E2.13.5.47.6311	1379	9008575485	3.5.7.127.269.2953
L287	7527222157	3E4.7.11.13.59.1583	1320	8052147896	2E3.13.509.152111	R9 X	10355911803	3E2.7.13.53.227.1051	R9 43	1059215775	3E4.5E2.7.349.1823
R9 33	7883062803	3E4.7.11.23.179.307	1320	8239047304	2E3.23.97E2.4759	R9 X	10993367516	2E2.131.167.125627	R9 X	10138589475	3.5E2.7.19311599

1381 9029724795 3E2.7.13.5.31.83.857
 R9 43 11118146949 3E2.7.13.71.263.727
 1382 9054843104 2B5.67.383.11027
 L1 32 9086834464 2B5.71.3999487
 1383 9070949152 2B5.53.83.64439
 R9 32 9343940768 2B5.971.300719
 1384 9075291470 2.7E2.5.23.43.61.307
 R9 X 11614384306 2.7.41.113.241.743
 1385 9083125275 3.5B2.7.19.139.6551
 R9 33 9115709925 3.5B2.7.29.47.12739
 1386 9086970319 2.5.53.11.83.89.211
 R9 43 9607155770 2.5.53.17.719.1483
 1387 9097736655 3.5.7E2.19.47.83.167
 R9 32 9435270705 3.5.7E2.19.587.1151
 1388 9100969376 2B5.79.113.31859
 R9 33 9204512224 2E5.179.227.7079
 1389 9136521225 3E3.5E2.13.17.73.839
 R9 43 10287235575 3E3.5E2.59.97.2663
 1390 9153086085 3E2.5.13.11.37E2.1039
 R9 X 10021735035 3E2.5.13.47.389.937
 1391 9159365024 2B5.53.241.22409
 L1 X 9290429416 2B3.17.4157.16433
 1392 9160950225 3.5E2.19.7.17.89.607
 R9 43 10338665175 3.5E2.19.37.47.59.671
 1393 9173012056 2B3.13.8689.10151
 B4 33 9353372744 2B3.19.281.218987
 1394 9205801010 2.5.7E3.109.24623
 R9 X 10296460990 2.5.37.53.191.2749
 1395 9225491168 2B5.83.151.23003
 R9 33 9278558366 2B5.113.251.10223
 1396 9251688032 2B5.67.179.24107
 R9 33 9338472928 2B5.101.1229.2351
 1397 9257732715 3.5.7.11.347.23099
 L1 22 9263662485 3.5.7.11.449.17863
 1398 9262239250 2.5E3.11.1783.1889
 R9 X 9673564916 2.5.17.47.181.6689
 1399 9271316590 2E2.5B3.53.271.1291
 R9 X 11451453932 2E2.47.101.683.883
 1400 9286443650 2.5E2.11.59.419.683
 R9 41 9949825156 2.5E2.53.113.149.223
 1401 9294561770 2.5.13.29.53.181.257
 R9 42 9874755670 2.5.13.791.108359
 1402 9303632398 2.5.13.29.113.21839
 R9 33 9518953210 2.5.13.59.359.3457
 1403 9307840630 2.11.5.43.313.6287
 R9 44 9457161098 2.11.7.17.523.6987
 1404 9344815064 2E3.13.59.659.2311
 R9 44 9881776936 2E3.67.79.199.2141
 1405 9357224877 3E2.7E3.13.11E2.41.47
 R9 X 10162493523 3E5.7E3.13.83.113
 1406 9374110636 2E2.11.19.53.83.2549
 R9 54 10058113364 2E2.13.47.269.15299
 1407 9408690824 2E3.13.41.59.149.251
 R9 53 10595069176 2E3.167.1259.6299
 1408 9449854312 2E3.19.71.139.6299
 R9 44 9602145688 2E3.29.59.179.3919
 1409 9490622048 2E5.61.4861999
 L1 X 9500349952 2E9.4079.4549
 1410 9535950765 3E2.5.11.23.31.41.659
 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):

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1 220 2E2.5.11
L1 21 284 2B2.71
8 17294 2B4..23.47
L1 21 18416 2B4..1151
9 63026 2B2..23.5..137
L1 21 76084 2B2..23..827
12 69615 3B2..7..13..5..17
L1 21 87633 3B2..7..13..107
15 122265 3E2..7E2..13..5..41
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 3B4..5..11..29..89
L1 21 12024045 3B4..5..11..2699
162 31536855 3B2..5..7..53..1889
L1 21 32148587 3B2..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..17699
303 196421715 3E2..5..19..37..7..887
L1 21 224703495 3E2..5..19..37..7103
468 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
648 1225052829 3E4..7..11..29..13..521
L1 21 1321639811 3E4..7..11..29..7307
792 21726492116 2E8..257..33023
L1 21 2181168894 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 4266776545 3E4..5..11E3..7919
1191 60665249175 3E2..5E2..13..31..149..449
L1 21 6128471825 3E2..5E2..13..31..67499
1219 63708495978 2..7E2..19..23..11..13523
L1 21 6956103062 2..7E2..19..23..162287

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TOTAL NUMBER: 20

AMICABLE PAIRS OF TYPE (3,1):

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86 6955216 2E4..19..137..167
L1 31 7418864 2B4..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
194 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
394 34726321 2E4..17..137..9319
L1 31 370414064 2E4..23150879
446 492275992 2E3..131..13..23..1571
R9 31 55354416 2E3..131..528191
644 1254255550 2..582..23..19..137..419
R9 31 1333078850 2..582..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 2692365832 2E3..31..8436959
782 2115211995 3E3..5..13..17..31..2287
R9 31 2312891685 3E3..5..13..131..7887
979 3693013664 2E5..41..131..21487
L1 31 3812143072 2E5..119129471
1000 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

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TOTAL NUMBER: 16

AMICABLE PAIRS OF TYPE (4,1):

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779 2099442345 3..5..7..11..13..37..3779
L1 41 2533609495 3..5..7..24131519

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TOTAL NUMBER: 1

AMICABLE PAIRS OF TYPE (2,2):

3	2620	2E2.5.1.31	284	66595130	2.5.31.7.30689	
L1	22	2924	2E2.17.43	230	90437150	2.5E2.23.19.4139
4	5020	2E2.5.251	L1	22	94372454	2.5E2.23.137.599
L1	22	5564	2E2.13.107	233	95629904	2E4.67.37.2411
6	18744	2E3.17.79	L1	22	97580944	2E4.67.227.401
L1	22	10856	2E3.23.59	236	97841735	3E2.5.7.71.4339
10	66928	2E4.47.89	L1	22	97945784	3E2.5.7.239.1301
L1	22	66929	2E4.53.79	242	109410345	3E4.5.11.41.591
11	67095	3E3.5.7.71	L1	22	110132055	3E4.5.11.59.419
L1	22	71145	3E3.5.17.31	254	131483835	3E2.5.7.71.5079
19	171856	2E4.23.467	L1	22	132692805	3E2.5.7.223.1889
L1	22	176336	2E4.103.107	260	136549413	3E2.7.11.13.23.659
20	176272	2E4.23.479	L1	22	140207067	3E2.7.11.13.79.197
L1	22	180848	2E4.89.127	337	256948065	3E3.5.11.23.7523
22	196724	2E2.11.17.263	L1	22	263118815	3E3.5.11.53.3343
L1	22	202444	2E2.11.43.107	341	265192208	2E4.131.23.5501
27	437456	2E4.19.1439	L1	22	275148208	2E4.131.251.523
L1	22	455344	2E4.149.191	369	305363984	2E4.43.89.4987
29	503056	2E4.23.1367	L1	22	306962896	2E4.43.173.2579
L1	22	514736	2E4.53.607	478	59585064	2E4.37.179.5623
30	522485	3E2.5.13.19.47	L1	22	596654896	2E4.37.239.4217
L1	22	525915	3E2.5.13.29.31	495	651016665	3E2.5.13.19.37.1583
44	1154456	2.5E2.11.2099	L1	22	663576615	3E2.5.13.19.227.263
L1	22	1189156	2.5E2.17.1399	503	666030256	2E4.331.19.6619
48	1280565	3E2.5.13.11.199	L1	22	6966308544	2E4.331.199.661
L1	22	1340235	3E2.5.13.29.79	520	749388064	2E8.383.7643
50	1358595	3E2.5.19.7.227	L1	22	750555392	2E8.1567.1871
L1	22	1486845	3E2.5.19.37.47	528	766922835	3.5.7.11.503.1319
51	1392366	2E4.17.5119	L1	22	766512285	3.5.7.11.769.863
L1	22	1464592	2E4.239.383	530	770805945	3E2.7.13.41.5.4591
57	2082464	2E5.59.1183	L1	22	914053959	3E2.7.13.41.163.167
L1	22	2090656	2E5.79.827	556	902335744	2E8.383.9283
63	2882416	2E4.17.10303	L1	22	903709952	2E8.1151.3067
L1	22	2947216	2E4.167.1103	641	1237888448	2E6.73.264959
85	6377175	3E2.5E2.7.4049	L1	22	1252285632	2E6.479.48847
L1	22	6680025	3E2.5E2.11.2699	669	1525222575	3E3.5E2.17.23.5779
87	6993610	2.5.13.23.2339	L1	22	1571007825	3E3.5E2.17.79.1733
L1	22	7150716	2.5.13.53.1039	695	1558818261	3E2.7.11.13.23.7523
92	7677248	2E6.139.863	L1	22	159628561	3E2.7.11.13.53.3343
L1	22	7684672	2E6.167.719	708	1666611045	3E4.5.11E2.71.479
100	9071685	3E2.5.31.7.929	L1	22	1670433435	3E4.5.11E2.89.383
L1	22	9498555	3E2.5.31.11.619	718	1750776704	2E7.137.99839
101	9194946	2E3.29.19.2687	L1	22	1762592894	2E7.2879.4783
L1	22	9592504	2E3.29.173.239	729	1786492785	3.5.7.11.293.5279
109	10254970	2.5.11.53.1759	L1	22	1798052495	3.5.7.11.1231.1259
L1	22	10273670	2.5.11.59.1583	755	1974754485	3E4.5.11E2.59.683
111	10572550	2.5E2.31.19.359	L1	22	198798535	3E4.5.11E2.113.359
L1	22	10854650	2.5E2.31.47.149	767	2152573685	3E2.7.13.37.5.14287
125	13921528	2E3.19.67.1367	L1	22	2564027739	3E2.7.13.37.191.443
L1	22	13985672	2E3.19.181.911	994	3865930695	3E2.5.11.29.43.6263
130	15002464	2E5.37.12671	L1	22	387336585	3E2.5.11.29.47.5741
L1	22	15334304	2E5.227.2111	1031	4150593232	2E4.43.61.90899
139	1790064	2E5.53.10559	L1	22	4213181968	2E4.43.859.7129
L1	22	18017056	2E5.79.7127	1052	4377991936	2E8.293.58367
149	22508145	3E3.5.11.23.659	L1	22	4390866176	2E8.3583.4787
L1	22	2311055	3E3.5.11.79.197	1057	4429428675	3.5E2.7.19.167.2659
197	56955872	2E6.79.11087	L1	22	4436670525	3.5E2.7.19.239.1861
L1	22	56598208	2E6.383.2309	1081	4796783664	2E4.43.67.104059
			L1	22	4855069456	2E4.43.373.18919

AMICABLE PAIRS OF TYPE (2,1):

1090	4893008692	2E2.11.109.13.78479
L1	22	5259164108
1183	59835965152	2E5.79.227.18427
L1	22	5999426848
1199	6143533695	3E4.5.13.17.68639
L1	22	6141291585
1224	64784965959	3E2.5.17.19.23.19379
L1	22	6582073008
1236	6722173575	3E2.5E2.13E2.17.18399
L1	22	7083639225
1259	7074650624	2E9.947.14591
L1	22	7076729344
1397	92577327715	3.5.7.11.347.23099
L1	22	9263662486
1418	9834798285	3E2.5.11.19.139.7523
L1	22	9884118915

AMICABLE PAIRS OF TYPE (3,2):

14	100485	3E2.5.7.11.29
L1	32	124155
18	142310	2.5.7.19.107
L1	32	168730
21	185366	2E3.17.29.47
L1	32	201432
24	308620	2E2.5.13.1187
L1	32	389924
26	356408	2E3.13.23.149
L1	32	399592
31	600392	2E3.13.23.251
L1	32	669688
32	609928	2E3.11.29.239
L1	32	686072
33	624184	2E3.11.41.173
L1	32	691256
34	635624	2E3.11.31.233
L1	32	712216
35	643336	2E3.29.47.59
L1	32	652664
37	726104	2E3.17.19.281
L1	32	796696
40	898216	2E3.11.59.173
L1	32	980894
41	947835	3E3.5.7.17.59
L1	32	1125765
42	998184	2E3.17.41.179
L1	32	1043096
45	1156870	2.5.11.13.809
L1	32	1292570
59	2652728	2E3.13.23.1109
L1	32	2941672
60	2723792	2E4.37.43.107
L1	32	2874064
62	2739794	2E3.11.163.191
L1	32	2928136
65	3276856	2E3.11.23.1619
L1	32	321544
67	3786904	2E3.11.23.1871
L1	32	4300136
68	3805264	2E4.29.59.139
L1	32	4086736
76	5147032	2E3.11.23.2543
L1	32	5843048
81	5726072	2E3.11.31.2099
L1	32	6369928
91	7577350	2.5E2.11.23.599
L1	32	8493050
98	8754130	2.5.7.11.11369
L1	32	10893234
114	10992735	3E2.5.13.19.23.43
L1	32	12070305
118	11545616	2E4.19.163.233
L1	32	12247504
121	12397552	2E4.23.59.571
L1	32	13136528
129	14654150	2.5E2.7.149.281
L1	32	16817050

134	16871582	2.E82.19.13.17.41	290	172271385	3E2.5.13.11.19.1409	411	393463072	2E5.43.269.1063	532	786882915	3E2.7E2.13.5.97.283				
L1	32	19325698	2.7E2.19.19.97.107	L1	32	197261415	3E2.5.13.449.751	L1	32	402677088	2E5.251.50159				
137	17754165	3E2.5.13.11.31.89	292	176632390	2.5.11.43.107.349	419	406649992	2E5.47.167.1619	540	836535328	2E5.47.181.5507				
L1	32	19985355	3E2.5.13.127.269	W1	32	182618810	2.5.11.719.2309	L1	32	416378048	2E5.251.51839				
138	17844255	3E2.5.13.11.47.59	320	223878416	2E4.37.79.4787	421	41419782	2.7..11.13.19.10889	542	846862965	3E3.5.13.19.189.233				
L1	32	19895265	3E2.5.13.71.479	L1	32	227342784	2E4.41.346559	L1	32	463973818	2.7..11.83.36299				
147	22227075	3E3.5E2.13.71.17.149	321	224888895	3E2.7..11.5.41.1583	424	426191535	3E2.7..11.5.47.2617	551	8745911558	2.5E2.7.1499.1667				
L1	32	24644925	3E3.5E2.29.1259	L1	32	273272769	3E2.7..11.83.4751	W1	32	514780497	3E2.7..11.67.11087				
156	25966832	2E4.29.191.293	324	231111392	2E5..109.173.383	427	427950356	2.5E2..31.17.109.149	557	903825416	2E3.47.13.179.1033				
L1	32	26529888	2E4.47.35279	W1	32	231923488	2E5..71.102079	L1	32	455921650	2.5E2..31.107.2749				
160	38724694	2.7..13.11.103.149	325	238162815	3E3..5.23.11.19.367	438	436386015	3E3..5..19.13.23.569	559	907968904	2E3..19.79.83.911				
L1	32	32174508	2.7..13.17.18399	L1	32	270560385	3E3..5.23.79.1103	R9	32	482909985	3E3..5..19.59.3191				
168	34256222	2.7..11.13.71.241	327	242126784	2E4..23.47.13999	431	437888160	2E3..23.29.137.599	561	914746450	2.5E2..31.19.89.349				
L1	32	35997346	2.7..11.23.18163	L1	32	257841296	2E4..1399.11519	W1	32	456351832	2E3..23.827.2999				
172	35361326	2.7..13.11.17.1039	334	252948545	3E2.5.13.11.23.1709	436	447761144	2E3..19.113.131.199	563	917168958	2.5E2..19.37.97.269				
L1	32	40117714	2.7..13.53.4159	W1	32	284847615	3E2.5..13.89.5471	R9	32	455118856	2E3..19.197.15199				
173	35373195	3E2.5.13.11.23.239	335	253793776	2E5..59.83.1619	439	466389344	2E5..71..131.1567	564	925949992	2E3..83..11..331..303				
L1	32	40105845	3E2.5..13.179.383	L1	32	268678624	2E5..449.18143	L1	32	472453792	2E5..107.137983				
175	35472592	2E4..43.47.1897	336	256755056	2E4..19..79.10691	443	475838415	3E3..5..13..17..41.389	575	965674256	2E4..17..59..5927				
L1	32	64145664	2E4..53.42943	L1	32	273569144	2E4..2591.6599	W1	32	514823985	3E3..5..13..233.1259				
176	37363095	3E2.7..11.5..41..263	340	264764630	2.5..17..13..47..2549	444	4871619380	2E2..37..51..168657	592	101839430	2..5..13..17..197..2339				
L1	32	66638489	3E2.7..11..131..503	L1	32	298441770	2.5..17..359..4759	W1	32	589230476	2E2..37..61..65267				
178	37848915	3E2.5..13..23..29..97	344	270208672	2E5..59..167..857	456	525254366	2E5..37..271..1637	594	1024706624	2E6..103..359..433				
L1	32	39226055	3E2.5..13..19..3527	L1	32	274655648	2E5..131..65519	L1	32	541358816	2E5..148..11423				
181	38663956	2..5E2..13..17..3499	346	271629728	2E5..37..383..599	461	537882556	2.5E2..31..17..137..149	R9	32	508911296	2E6..1891..14879			
L1	32	43362058	2..5E2..59..14699	L1	32	279947872	2E5..1709..5119	597	1048792450	2..5E2..31..19..59..599					
200	58580549	2E2..23..5..347..367	349	274893410	2..5..11..43..89..653	464	545134144	2E6..157..227..239	W1	32	5201927550	2E3..19..71..151..643			
L1	32	705977972	2E2..23..521..1471	W1	32	284512030	2..5..11..1187..2179	R9	32	552877376	2E6..157..5471				
203	63717615	3E2..5..13..17..43..149	350	275304590	2..5..11..61..89..461	466	553978490	2..5..13..17..43..57..1	605	1069306732	2E2..13..41..17..1619..181				
L1	32	66601985	3E2..5..13..19..5939	L1	32	281534770	2..5..11..139..18413	W1	32	587641994	2..5..13..47..9437				
213	74955952	2E4..23..61..3299	352	276339888	2E5..97..127..781	468	558173344	2E5..41..467..911	R9	32	1142071892	2E2..13..41..491..1891			
L1	32	781664448	2E4..197..24799	L1	32	278431136	2E5..83..104831	611	1098589248	2E6..109..223..701					
216	75171808	2E5..53..127..349	359	291679245	3E3..5..29..11..13..521	L1	32	571181792	2E5..23..76667	L1	32	1106245312	2E6..1637..10559		
L1	32	77237792	2E5..285..479..5039	R9	32	339731955	3E3..5..29..107..811	612	1091947540	2E2..23..5..137..17327					
222	82633005	3E2..7..13..5..17..1187	360	291974824	2E3..19..89..113..191	483	602985390	2..5..11..41..131..1019	W1	32	619418696	2..5..11..239..23561			
L1	32	841477619	3E2..7..13..113..971	R9	32	299861176	2E3..19..1367..1439	486	621354896	2E4..17..167..13679					
229	89477984	2E5..59..83..571	370	305911668	2..7E2..11..13..03..263	L1	32	661663024	2E4..809..51071	L1	32	12126336350	2..5E2..17..67..107..199		
L1	32	92143456	2E5..163..1759	R9	32	331160522	2..7E2..11..97..3167	635	1264634850	2..5E2..17..719..2039					
232	93837808	2E4..19..83..37119	372	306933936	2E5..37..31..839	494	647314694	2..5..11..43..167..1279	L1	32	1246134850	2..5E2..17..719..2039			
L1	32	9989792	2E4..1399..4463	W1	32	318479584	2E5..2393..4159	636	1216541326	2..7E2..11..13..17..1847					
234	95791402	2..7..17..5..181..79	373	311913855	3E3..5..11..11..41..47..109	W1	32	6656118270	2..5..11..263..23039	R9	32	1331741786	2..7E2..11..197..6271		
L1	32	115187002	2..7..17..113..4283	W1	32	326754945	3E3..5..11..139..1583	638	122389964	2E6..251..271..281					
237	102023135	3E4..782..5..53..97	374	3280829728	2E5..59..109..1559	W1	32	743584348	2E2..13..701..20399	R9	32	1231545152	2E2..23..911..15731		
L1	32	116970399	3E4..782..13..2267	L1	32	327818272	2E5..199..51475	643	1239657136	2E4..17..17..67..2629					
241	108734058	2..5E2..31..29..41..59	375	3308111850	2..5E2..31..19..47..239	L1	32	753402554	2..5E2..189..138239	L1	32	1421245732	2E2..53..251..26711		
L1	32	116251550	2..5E2..31..179..419	W1	32	345485590	2..5E2..31..179..1279	635	1264634850	2..5E2..17..67..107..199					
243	119968710	2..5..67..7..59..481	376	348782488	2E3..31..23..47..1381	495	659854852	2E2..13..11..29..39779	605	1066553144	2E3..19..227..30911				
L1	32	125222330	2..5..67..31..6029	W1	32	371171432	2E3..31..557..2687	638	122389964	2E6..251..271..281					
257	133768816	2E4..19..131..3359	377	356775430	2..5..17..11..101..1889	W1	32	729739984	2E4..83..549503	R9	32	1231545152	2E6..223..86291		
L1	32	141213584	2E4..199..44351	L1	32	392753210	2..5..17..1427..1619	643	1239657136	2E4..17..17..67..2629					
268	145049288	2E5..41..227..487	378	368172336	2E4..17..149..8887	L1	32	753402554	2..5E2..189..138239	L1	32	1307367344	2E4..181..451439		
L1	32	149364256	2E5..1663..4391	L1	32	383753264	2E4..2221..18799	655	1277879584	2E5..59..71..9533					
271	149877644	2E2..13..11..83..3119	379	368759652	2E2..11..17..29..16631	L1	32	750993325	3..5E2..7..13..269..409	L1	32	1316893856	2E5..1259..32687		
L1	32	160128436	2E2..13..47..65519	L1	32	393667868	2E2..11..263..34019	671	1363688048	2E4..17..191..26249					
276	156226856	2E3..31..23..61..449	380	377141350	2..5E2..31..23..71..149	524	754484445	3E2..5..13E2..11..29..311	681	1456694650	2..5E2..31..23..29..1409				
L1	32	165181144	2E3..31..199..3347	W1	32	394237850	2..5E2..31..53..4799	524	754484445	3E2..5..13E2..233..479	W1	32	1564540550	2..5E2..31..179..5639	
284	168930032	2E4..23..47..9767	381	385465395	3..5..7..23..17..41..229	526	761511104	2E6..223..229..233	684	1486565325	3E3..5..12..23..13339				
L1	32	179904784	2E4..1583..7103	L1	32	415773645	3..5..7..23..187..1689	527	776695025	2E6..389..38911	R9	32	1770369075	3E3..5..12..23..13..7109	
287	169652512	2E5..71..89..839	382	391548675	3..5E2..7..17..19..2309	531	776682915	3E5..11..13..5..17..263	694	155078313	2E5..59..317..2591				
L1	32	173269888	2E5..191..28349	L1	32	433398525	3..5E2..7..139..5939	L1	32	966751929	3E5..11..13..43..647	L1	32	1564984544	2E5..89..549503

700	1577617335	3E2.5.7.137.139.263	831	2446241032	2E3.19.61.193.1367	1002	3940697128	2E3.19.53.163.3001	1233	6692989624	2E3.17.101.293.1663				
W1	32	1605882185	3E2.5.7.1439.3541	W1	32	2490058168	2E3.19.227.72167	W1	32	6780019016	2E3.17.1087.45863				
704	1607089672	2E3.23.37.59.4081	833	2450252385	3E2.5.7.107.139.523	1815	4032465344	2E6.107.191.3083	1234	6716127352	2E3.53.11.971.1483				
R9	32	1677751928	2E3.23.2203.4139	W1	32	2493624735	3E2.5.7.1571.5839	W1	32	7384467208	2E3.53.211.81647				
710	1667898144	2E5.37.223.6317	839	2509841530	2.5.31.7.311.3719	1833	4161910012	2E2.53.211.13.17.421	1239	6752047995	3E2.7.11.5.1151.1693				
R9	32	1720175264	2E5.2591.20747	W1	32	2838387590	2.5.31.71.128959	L1	32	4360872722	2E2.53.211.11.8861				
717	1741985325	3E3.5E2.31.17.59.83	846	2511601365	3.5.7.13.53.149.233	1839	426188915	3E2.7E2.13.5.43.3457	W1	32	7860694149	3E2.7.11.31.365903			
R9	32	1857784275	3E3.5E2.31.47.1889	W1	32	2583233835	3.5.7.13.971.1949	R3	32	5209468173	3E2.7E2.13.227.4903				
731	1796310350	2.5.E2.23.19.229.359	860	2724296672	2E5.53.79.20333	1844	4346372745	3E2.11.13.17.5.67.593	1245	6789022528	2E6.89.239.4987				
R9	32	1899881650	2.5.E2.23.47.3449	L2	32	2809804768	2E5.2591.33889	R3	32	689459872	2E6.8599.12527				
740	1874188690	2.5.19.11.59.15199	861	2724801970	2.5.19.11.47.27739	1845	4346372745	3E2.11.13.17.5.67.593	1270	7278178085	3E4.5.13.17.233.349				
L1	32	2065651310	2.5.19.151.71999	L1	32	3027364430	2.5.19.359.44383	R9	32	785490715	3E4.5.13.139.10529				
741	1879626735	3E3.5.107.7.29.641	875	2842515016	2E3.127.11.167.1523	1846	4355468325	3E2.5E2.13.19.109.719	1271	7387312410	2.5.19.37.29.73.491				
R9	32	2114126865	3E3.5.107.19.7783	R3	32	3056462264	2E3.127.47.64807	R9	32	4581459675	2.5.19.37.179.6067				
743	1892277387	3E2.7.11.13.41.47.109	879	2873321512	2E3.19.113.131.1277	1850	4373590875	3.5E2.11.7.17.44549	L1	32	734530790	2.5.19.37.179.6067			
R9	32	1982133333	3E2.7.11.13.19.159.1583	W1	32	2896081688	2E3.19.107.178067	W3	32	51722719525	3E2.127.127.92987				
747	1915705325	2E3.53.11.431.953	880	2874527150	2.5E2.11.137.38149	1854	441688923	3E2.7E2.13.19.23.41.43	1294	75936265804	2E3.17.107.373.1399				
W1	32	2890178888	2E3.53.31.175.15551	881	2874527150	2.5E2.11.137.38149	R2	32	4785272037	3E2.7E2.13.19.197.223					
757	1981613158	2E5.53.71.14783	882	2931524416	2E6.79.569.1019	1855	44586255044	2E5.37.269.13999	1296	7631131095	3E4.5.59.7.43.1061				
L1	32	2041981854	2E5.1187.53759	W1	32	3000878058	2.5.582.19.3158819	L1	32	4590694496	2E5.27.97.179999				
760	1990992825	3E3.5E2.31.17.29.193	886	2975499584	2E6.2719.170999	1856	4582247428	2E2.11.29.79.131.347	1298	7689014456	2E3.17.101.389.1439				
L1	32	2165883974	3E3.5E2.31.89.1163	890	2952121352	2E3.61.19.29.10979	R9	32	4678450172	2E2.11.29.463.7919					
761	1991349664	2E5.41.251.6847	W1	32	3174718648	2E3.61.79.82349	1876	4754422208	2E6.157.269.1759	1299	7693403445	3E2.7.13.47.5.71.563			
L1	32	2041483517	2E5.293.217.2277	891	2953848464	2E6.181.461.991	R9	32	47804996929	2E2.19.37.145.147599	R9	32	9334667979	3E2.7.13.47.281.063	
768	2040024987	3E3.7E2.11.13.41.263	L1	32	2983785152	2E6.37.13.124991	1887	4863771495	3E3.5.11.43.59.1291	1304	773494980	2E2.137.5.11.258107			
L1	32	2267125933	3E3.7E2.11.43.3527	895	2982855752	2E3.19.47.239.1747	R9	32	4959562905	3E3.5.11.47.71.059	R9	32	101215282636	2E2.137.941.19727	
781	2110489384	2E3.23.23.137.2887	R9	32	3058232248	2E3.19.1279.15731	1888	4875819975	3E2.5E2.31.7.37.2699	1306	7787330704	2E4.53.59.317.491			
L1	32	2193785816	2E3.23.33.359.3321	896	2995106895	3E3.5.1982.11.37.151	R9	32	50709225825	3E2.5E2.31.449.1823	1307	7927109936	2E4.53.239.39113		
783	2125619995	2.5.17.13.41.23459	L1	32	3342782385	3E3.5.1982.11.37.151	1891	4900571656	2E3.19.79.131.347	1308	7977348704	2E5.61.89.45343			
L1	32	2343791534	2.5.17.13.3331.4139	899	3000821675	3.5E2.19.37.7.11.739	R9	32	508221544	2E3.19.2267.14591	L1	32	8062881856	2E5.239.1054247	
784	2128669794	2.5.13.17.179.5381	R9	32	3694598925	3.5E2.19.37.79.887	1116	519191776	2E4.17.167.114299	1310	7923037772	2E2.19.37.13.73.2969			
L1	32	2265652574	2.5.13.2339.7451	902	3009763264	2E6.83.443.1279	L1	32	55230812424	2E4.761.453599	R9	32	8446176622	2E2.19.37.41.73259	
785	219484533	3E4.7.23.5.17.1931	W1	32	3953874496	2E6.143.33151	1121	5257813762	2E.7.11.43.13.79.73	1315	7941747368	2E6.79.373.4211			
R9	32	2707011657	3E4.7.23.251.827	907	30375469344	2E6.181.311.511	R9	32	5728089598	2.7.11.43.83.1031	L1	32	8063451712	2E6.4679.26927	
L1	32	2221709481	3E4.7.11E2.13.47.53	L1	32	3073402432	2E6.583.95471	1134	54446462533	3E2.7E2.13.19.23.41.53	1324	8135645416	2E3.19.41.911.1433		
796	22450161791	3E4.7.11E2.13.71.503	910	3073156244	2E2.23.229.11.29.457	1137	5454702435	3.5.7.13.43.199.467	1331	8206626368	2E6.103.21.5939				
R9	32	2319898364	3E4.5.17.59.5711	R9	32	3299606956	2E2.23.229.19.8243	W1	32	5615556765	3.5.7.13.1319.3119	L1	32	8371943872	2E6.857.152639
793	2198463794	2E3.379.11.29.2273	912	3079018015	3E2.7E2.13.5.15.157	1140	5497864685	3E2.5.7.83.167.1259	1332	8263107788	2E2.23.47.13.17.8647				
R9	32	2467784216	2E3.379.179.4547	L1	32	3943277793	3E2.7E2.13.83.8287	R9	32	5598351495	2E2.5.7.3527.5039	L1	32	9310736156	2E2.23.47.83.259493
796	2221709481	3E4.7.11E2.13.47.53	913	3093577950	2.5E2.31.13.149.1097	1142	5502767650	2.5E2.19.37.89.1759	1334	8275510971	3E2.7E2.13.19.17.41.109				
R9	32	2450161791	3E4.7.11E2.13.71.503	L1	32	3568482850	2.5E2.31.853.2699	W1	32	56929944356	2.5E2.19.227.26399	R9	32	8978525829	3E2.7E2.13.19.139.593
797	2221834450	2.5E2.31.11.19.4931	913	3341242575	3E2.5E2.13.13.15.19.1091	1145	5552360805	3E2.5.7.37.947.643	1335	8307551728	2E3.269.13.23.12911				
L1	32	2291193150	2.5E2.31.17.2696399	914	35456483425	3E2.5E2.13.23.29.5099	W1	32	5635304955	3E2.5.7.463.38639	R9	32	9263092472	2E3.269.127.33893	
801	2246508224	2E6.227.239.647	914	3417157220	2E2.173.5.691.1427	1142	5579526598	3.5.5.11E2.89.197.263	1339	8315723650	2.5E2.31.13.139.2969				
R9	32	2256278896	2E6.179.196991	W1	32	3809832988	2E2.173.13.423503	R9	32	5682998530	2.5.5.11E2.659.7127	W1	32	9080167550	2.5E2.31.659.8819
803	2265070975	3E2.5E2.13.19.53.769	915	3443961465	3E2.5.23.7.53.8969	1150	569773525	3.5E2.7.13.167.4999	1341	8367278048	2E5.59.79.56099				
R9	32	2426816925	3E2.5E2.13.59.1259	R9	32	3810113415	3E2.5.23.19.193751	L1	32	5968184775	3.5E2.7.29.391999	L1	32	8597361952	2E5.439.611999
805	2221834450	2E6.222088	916	3452849632	2E5.43.263.9539	1181	5939023970	2.5.11.29.383.4861	1351	8508405465	3E2.5.7.19.1.1889				
R9	32	2336115512	3E2.19.1367.11243	L1	32	3529398688	2E5.211.522719	W1	32	6159187878	2.5.11.4159.13463	R9	32	8663076135	3E2.5.7.1.1871.14699
810	23060473575	3E3.5E2.31.17.29.223	916	3481924064	2E5.71.193.14879	1193	6082113015	3E4.5.11.29.17.263	1352	8645093145	3E5.5.13.23.53.449				
L1	32	2399219235	3E3.5E2.31.83.1439	L1	32	3537626656	2E5.127.870479	R9	32	6337714185	3E4.5.11.593.2399	R9	32	9186830055	3E5.5.13.599.971
812	23171392152	2E3.19.47.227.1429	916	3529085858	3E4.5.11.37.79.269	1197	6108334785	3E2.5.7.83.167.1399	1377	8996364572	2E2.17.29.13.89.3493				
R9	32	2377583848	2E3.19.3761.4159	R9	32	3647901015	3E4.5.11.599.1367	W1	32	6219908415	3E2.5.7.2239.8819	R9	32	9788118628	2E2.17.29.1019.4871
813	2331921265	3E2.5.7.89.223.373	917	3564199504	2E4.47.191.167.281	1202	6158070048	2E4.17.81.27919	1382	9854843104	2E5.67.383.11827				
W1	32	2372936995	3E2.5.7.1427.5279	R9	32	3626340272	2E4.47.583.9587	L1	32	6491732272	2E4.17.2345279	L1	32	9086834464	2E5.71.399487
815	2359263375	3E3.5E3.37.2699	917	3680156392	2E3.101.11.4.10099	1212	6284451608	2E3.17.113.191.2141	1383	9870949152	2E5.53.83.64439				
R9	32	2762528625	3E3.5E3.449.1823	W1	32	4108155608	2E3.101.109.5039	W1	32	6374254312	2E3.17.4787.9791	R9	32	9343949768	2E5.971.308719
817	2370649285	3E2.5.7.103.167.439	918	3688694990	2.5.11.43.509.1687	1215	6307360510	3.5.11E2.89.461.4289	1387	9897736655	3.5.7E2.19.47.183.167				
W1	32	2418472035	3E2.5.7.839.9151	W1	32	3925075330	2.5.11.89.400927	W1	32	6535689890	2.5.11.1451.40949	R9	32	9435278705	3.5.7E2.19.587.1151
818	2441219715	3E4.5.11.47.89.131	919	3877164568	2E3.17.101.277.1019	1226	63543418338	3.5.11.29.1319.1553	1412	961675744	2E6.83.317.5711	W1	32	9766758144	2E6.2351.64871
R9	32	2526711165	3E4.5.11.197.2879	W1	32	3932877832	2E3.17.5003.5779	W1	32	6757860708	2.5.11.599.102563	1414	9703910930	2.7.17.5.47.173501	

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	2003580	282..5..13..41..263	
L1	42	3716164	282..503..1847
73	4532710	2..7..5..13..17..293	
L1	42	6135962	2..7..7..6173
83	5864660	282..5..17..47..367	
L1	42	7489324	282..53..35327
122	12707704	2E3..17..41..43..53	
L1	42	14236136	2E3..187..16631
144	20022328	2E3..17..23..37..173	
L1	42	22823432	2E3..1367..2087
150	22688632	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	35398008	2E3..19..23..53..191	
L1	42	39259592	2E3..71..69119
207	67738268	2E2..19..13..17..37..109	
L1	42	79731232	2E2..19..263..3989
208	68891992	2E3..13..23..83..347	
L1	42	78437288	2E3..587..16703
218	78088564	2E3..13..31..53..457	
L1	42	88110536	2E3..167..65951
224	84521745	3E3..5..5..11..47..173	
L1	42	187989335	3E3..5..383..2087
298	186753681	2E3..11..41..191..271	
L1	42	208659752	2E3..83..313343
301	190888155	3E2..5..17..19..23..571	
R9	42	194594085	3E2..5..7..6..17..759
310	264134385	3..5..7..13..17..19..463	
L1	42	24869135	3..5..7..383..6089
317	214748488	2E3..17..19..41..2927	
L1	42	245201912	2E3..3041..0079
362	300120652	2E2..17..13..23..29..509	
L1	42	347620142	2E2..17..17..19..28559
394	357197302	2..7..11..17..43..167	
R9	42	409205256	2..7..11..863..3079
400	362700728	2E3..13..19..173..1061	
R9	42	413408872	2E3..811..63719
404	373305350	2..5..2E2..11..19..139..257	
R9	42	432893052	2..5..2E2..11..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	519257292	2E4..29..83..97..139	
R9	42	552549108	2E4..881..39199
498	659084584	2E3..13..23..61..4517	
L1	42	752700136	2E3..3347..28111
507	681709490	2..5..7..11..929..953	
L1	42	851496670	2..5..2879..29573
519	728921270	2..5..7..11..929..1819	
L1	42	910259530	2..5..2447..37199
552	877324936	2E3..29..47..61..1319	
R3	42	980419064	2E3..17..6547199
569	949308932	2E2..19..11..13..113..773	
R9	42	1126801788	2E2..19..3191..4643

574	965615992	2E3..11..23..349..1367	
R9	42	1102800088	2E3..3359..41839
591	1016475064	2E3..11..23..349..1439	
R9	42	1160804936	2E3..2999..46383
599	1047784504	2E3..13..23..181..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..6879
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	1785186726	2E3..13..17..787..1283	
R9	42	2039387832	2E3..6047..42157
732	1812992710	2..5..17..23..29..59..271	
R9	42	1991436890	2..5..17..599..19583
737	1860630824	2E3..13..17..691..1523	
R9	42	2125787416	2E3..9341..28447
739	1862890150	2..5E2..11..19..59..149	
R9	42	2162745050	3E3..5E2..11..19..59..149
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..17..11847527
814	2332981816	2E3..11..23..283..4073	
R9	42	2665327304	2E3..6983..4771
841	2517082425	3E3..5E2..11..13..89..293	
R9	42	293564775	3E3..5E2..587..7559
850	2631762064	2E4..29..53..103..1039	
R9	42	200803136	2E4..809..261319
854	2672087608	2E3..17..29..37..18311	
L1	42	2964345992	2E3..1..51..21..18919
869	2796129128	2E3..13..17..887..1783	
R9	42	3192116632	2E3..1997..199867
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	3806606475	3..5E2..7..1049..6911
962	3513278192	2E4..41..43..59..2111	
R9	42	3746257168	2E4..7919..29567
972	3647562568	2E3..13..17..839..2459	
R9	42	4136329432	2E3..1721..302399
980	3710119780	2E2..227..5..17..53..007	
R9	42	4741427996	2E2..227..71..73547
1006	3963477872	2E4..41..43..71..1979	
R9	42	4203499408	2E4..359..731807
1036	4210837424	2E4..23..189..113..929	
R9	42	4465839376	2E4..359..777479
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	4784289576	2E3..19..23..29..47189	
L1	42	5498030424	2E3..197..341999
1095	4937340976	2E4..37..47..61..2909	
R9	42	5264327584	2E4..5471..60139
1143	5513127795	3E2..5..17..7..29..131..271	
R9	42	6505084045	3E2..5..17..1087..7919
1154	5619491456	2E4..29..79..83..1847	
R9	42	5929859344	2E4..191..194039
1174	5885347545	3E3..5..7..11..257..2203	
R9	42	7215933733	3E3..5..7..11..23..71..78..181
1192	6067647728	2E4..29..41..313..1019	
R9	42	6442489602	2E4..449..896783
1265	6208951625	3E3..5E2..11..19..59..149	
R9	42	7277448483	3E3..5E2..719..2999
1217	6353438175	3E3..5E2..7..29..199..233	
R9	42	7574421825	3E3..5E2..1151..9749
1220	6386714184	2E3..37..123..37..73..181	
R3	42	6878698984	2E3..37..703..33151
1230	6589526450	2..5E2..13..23..29..15199	
R9	42	6765961550	2..5E2..11..1969..12799
1252	6908168480	2E3..19..23..23..8861	
L1	42	7384527112	2E3..31..29776319
1256	6999082624	2E4..19..149..191..809	
R9	42	7464267374	2E4..20249..23039
1264	7131782710	2..5..17..13..89..101..359	
R9	42	7858790090	2..5..17..1223..37799
1279	7398033144	2E3..13..17..491..8513	
R9	42	8443693496	2E3..11..351..92981
1317	7983560655	3E2..5..17..19..29..181..509	
R9	42	9545089545	3E2..5..17..2447..5099
1401	929456170	2..5..13..29..53..181..257	
R9	42	9874755670	2..5..13..701..108359
1424	9881488340	2E4..249..47..89..4157	
R9	42	105359549896	2E4..5279..124739
1427	9967523980	2E2..257..5..17..37..3083	
R9	42	12890541236	2E2..257..107..117191
1431	1093732350	2..5..13..29..73..3083	
R9	42	13874810532	2E2..37..4..5..51..8431
1461	1481370532	2E2..37..43..73..9431	
1018	4853148008	2E3..79..11..50..819	
W1	23	4342339912	2E3..79..107..157..409
1072	4671243424	2E5..43..3394799	
W1	23	473914276	2E5..229..263..2459
1210	6262961898	2E5..1..47..3599	
W1	23	637983712	2E5..17..9..109..1091
1267	71946963658	2..5E2..19..4..17..129	
W1	23	7219609558	2..5E2..19..109..113..617
1369	8902642875	3..5E3..7..17..199499	
L1	23	982629125	3..5E3..7..29..113..1049
1412	981473976	2E3..19..59..1068407	
W1	23	9649808024	2E3..19..151..593..709

AMICABLE PAIRS OF TYPE (2,1):	TOTAL NUMBER: 78		
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	2768781924	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..51971
1316	7961973140	2E2..5..11..67..727..743	
R9	52	106008038764	2E2..1637..1618943
AMICABLE PAIRS OF TYPE (5,2):	TOTAL NUMBER: 6		
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	2768781924	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..51971
1316	7961973140	2E2..5..11..67..727..743	
R9	52	106008038764	2E2..1637..1618943
AMICABLE PAIRS OF TYPE (5,2):	TOTAL NUMBER: 21		
54	1511938	2..5..7..21599	
L1	23	1598470	2..5..19..47..179
70	4246136	2..5..7..60559	
L1	23	4488916	2..5..23..29..673
145	2830995	3E3..5..7..21491	
L1	23	28955645	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	96380845	3..5..7..82..13..10079	
L1	23	96747315	3..5..7..82..23..59..97
239	183834776	2E3..13..99719	
L1	23	185016424	2E3..29..47..9631
322	226540432	2E4..23..61559	
L1	23	231465964	2E4..59..359..683
329	245618415	3E2..5..19..7..41039	
W1	23	266560785	3E2..5..19..31..89..113
415	397287345	3..5..7..82..13..11..157	
W1	23	399852815	3..5..7..82..13..11..3919
589	1093373250	2..5..53..11..364999	
L1	23	1844659750	2..5..53..29..89..1619
624	1141149196	2E2..11..19..1365011	
W1	23	1152079964	2E2..11..43..53..11489
707	1662154965	3E2..5..13..11..258299	
L1	23	1722609135	3E2..5..13..29..59..1721
865	2766512710	2..5..13..29..730323	
W1	23	2781196730	2..5..13..53..103..3919
987	2787639949	2E2..37..4..5..51..8431	
W1	23	4381370532	2E2..37..43..73..9431
1018	4853148008	2E3..79..11..50..819	
W1	23	4342339912	2E3..79..107..157..409
1072	4671243424	2E5..43..3394799	
W1	23	473914276	2E5..229..263..2459
1210	6262961898	2E5..1..47..3599	
W1	23	637983712	2E5..17..9..109..1091
1267	71946963658	2..5E2..19..4..17..129	
W1	23	7219609558	2..5E2..19..109..113..617
1369	8902642875	3..5E3..7..17..199499	
L1	23	982629125	3..5E3..7..29..113..1049
1412	981473976	2E3..19..59..1068407	
W1	23	9649808024	2E3..19..151..593..709

AMICABLE PAIRS OF TYPE (3,3):

	169	34364912	2E4.-43.199.251
L1	33	34380688	2E4.-47.131.349
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	4230984	2B3.-17.71.439	
L1	33	4314616	2B3.-23.131.179
75	5123690	2.5.-7.163.449	
L1	33	5564110	2.5.-19.-59.491
79	5385310	2.5.-7.187.719	
L1	33	5812130	2.5.-17.179.191
82	5730615	3E3.-5.11.19.2591	
L1	33	6088985	3E3.-5.23.37.53
84	6329416	2E3.-23.41.839	
L1	33	6371380	2E3.-19.-167.251
90	7499112	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	9339784	2E3.-11.211.503	
L1	33	9892936	2E3.-47.83.317
105	9478916	2.5.-7.19.7127	
L1	33	11049730	2.5.-71.79.197
116	1152644	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	14311680	2E3.-17.47.2239	
L1	33	14718712	2E3.-23.167.479
131	15363823	2E3.-11.71.2459	
L1	33	16517766	2E3.-53.163.239
132	15938055	3E2.-5.-7.19.2663	
L1	33	17388665	3E2.-5.11.73.479
133	16137628	2E3.-13.-23.103.131	
L1	33	16150628	2E3.-13.-31.43.233
135	17801010	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	18166880	2E3.-19.-107.1117
143	20014888	2E3.-11.-79.2879	
L1	33	21457192	2E3.-47.149.383
146	21448630	2.5.-7.131.2339	
L1	33	23030890	2.5.-19.-53.2287
152	23389695	3E3.-5.-7.53.-467	
L1	33	25132545	3E3.-5.-17.-47.233
157	26099325	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	34868248	2E3.-97.-167.269
167	33501825	3E2.-5E2.-7.-89.239	
L1	33	36136575	3E2.-5E2.-19.-79.107

R9	33	238238864	2E4.-41.47.7727
	328	242182938	2.5.-11.-19.-115877
L1	33	258410930	2.5.-17.-61.24919
	338	258946464	2.7.-13.-11.-79.1637
L1	33	269448634	2.7.-13.-23.-59.1891
	339	260231192	2E3.-13.-659.3797
L1	33	266171608	2E3.-19.-593.2953
	345	271048348	2E2.-5.-17.-79.7201
L1	33	331636372	2E2.-41.-73.-27701
	351	275631372	2E4.-43.-53.-7559
R9	33	281207981	2E4.-83.-107.-1979
	354	281499435	3E3.-5.-7.-89.-3347
L1	33	297034965	3E3.-5.-17.-29.-4463
	355	295627615	3.5.-7E2.-13.-167.-179
R9	33	295288665	3.5.-7E2.-29.-47.-293
	358	287793350	2.-5E2.-13.-41.-10799
L1	33	307293850	2.5E2.-23.-251.-1849
	361	295824376	2E3.-19.-53.-36721
L1	33	299072624	2E3.-17.-601.-3659
	365	382424784	2E4.-53.-71.-5023
L1	33	303107888	2E4.-47.-107.-3767
	379	319984233	3E4.-5.-19.-5939
R9	33	370086165	3E4.-5.-43.-79.-269
	381	323481712	2E4.-23.-431.-2039
R9	33	332706002	2E4.-101.-127.-1619
	385	332573392	2E4.-29.-431.-1663
R9	33	335955244	2E4.-47.-191.-2339
	388	341375404	2E2.-11.-13.-379.-1583
R9	33	364682511	2E2.-11.-131.-151.-419
	401	36182075	3E4.-5E2.-17.171.-149
R9	33	365012325	3E4.-5E2.-19.-53.-179
	402	370032675	2E2.-17.-13.-19.-22031
R9	33	467256281	2E2.-17.-67.-71.-1259
	407	382170512	2E4.-41.-83.-7019
R9	33	385592848	2E4.-59.-97.-4211
	413	395378272	2E5.-103.-139.-863
R9	33	397151642	2E5.-181.-191.-359
	417	404185672	2E3.-11.-1877.-2447
L1	33	423362468	2E3.-31.-101.-16901
	423	425948056	2.-5E2.-11.-269.-2879
R9	33	441853554	2.-5E2.-19.-479.-971
	426	427448512	2.5.-17.-19.-59.-2243
R9	33	445018690	2.5.-17.-67.-89.-439
	428	429035590	2E2.-11.-17.-43.-13339
R9	33	458447924	2E2.-11.-173.-229.-263
	429	430848592	2E4.-29.-67.-13859
R9	33	445657808	2E4.-131.-149.-1427
	433	438452624	2E4.-29.-179.-5279
L1	33	445419370	2E4.-47.-499.-1187
	434	439232624	2E4.-37.-53.-13999
L1	33	451335370	2E4.-89.-151.-2099
	435	442480814	2E4.-19.-971.-1499
R9	33	461479184	2E4.-179.-269.-599
	441	471696190	2.5.-7.-23.-292979
R9	33	540842690	2.5.-37.-79.-18503
	445	491373104	2E4.-23.-107.-12479
R9	33	511419856	2E4.-127.-389.-647
	450	569379344	2E4.-23.-347.-3989
R9	33	523679536	2E4.-83.-179.-2203

451 512412550 2.5E2.-13.-73.-10799
 452 514439224 2E3.-13.-89.-55579
 L1 33 536922776 2E3.-29.-97.-23819
 454 520218704 2E4.-29.-71.-15791
 R9 33 537213616 2E4.-107.-167.-1879
 457 526271456 2E5.-79.-179.-1163
 R9 33 529709344 2E5.-193.-199.-431
 463 541114080 2E3.-13.-863.-6029
 L1 33 552968392 2E3.-23.-89.-33767
 467 557346512 2E3.-13.-397.-13499
 R9 33 570983288 2E3.-19.-1049.-3581
 471 573216416 2E5.-79.-197.-1151
 R9 33 576387424 2E5.-131.-359.-383
 474 579980048 2E4.-29.-179.-6983
 R9 33 589141552 2E4.-79.-89.-5237
 477 586200224 2E5.-79.-461.-503
 R9 33 587353696 2E5.-131.-167.-839
 481 6012020945 3E3.-5.-7.-647.-983
 L1 33 623232495 3E3.-5.-17.-23.-11807
 487 625955024 2E4.-29.-47.-28703
 R9 33 655391536 2E4.-23.-367.-467
 501 664747983 3E2.-782.-13.-11.-83.-127
 R9 33 673747893 3E2.-782.-13.-17.-31.-223
 506 681318575 3E3.-582.-11.-89.-1031
 R9 33 700743825 3E3.-582.-17.-79.-773
 R9 33 732706002 2E4.-101.-127.-1619
 509 685939088 2E4.-29.-503.-2939
 R9 33 692097712 2E4.-41.-349.-3023
 513 698049512 2E3.-5.-17.-19.-270143
 L1 33 761280806 2E3.-47.-1259.-1607
 513 785268310 2.-7.-37.-5.-387.-887
 R9 33 791333578 2E7.-2.-37.-17.-73.-1231
 523 752458216 2E3.-17.-19.-291199
 L1 33 820621784 2E3.-47.-1891.-1999
 527 76262128 2E4.-19.-263.-9539
 R9 33 798845072 2E4.-239.-317.-659
 533 788056335 3E2.-5.-11.-17.-107.-1319
 R9 33 813177585 3E2.-5.-11.-31.-107.-269
 536 807964592 2E4.-29.-47.-37049
 R9 33 845947408 2E4.-199.-389.-683
 537 8211903384 2E3.-29.-41.-71.-1217
 R9 33 835551016 2E3.-29.-97.-107.-347
 545 855737264 2E4.-23.-1259.-1847
 R3 33 876651856 2E4.-97.-187.-5279
 547 857161935 3E2.-5.-31.-7.-61.-1439
 R9 33 925581185 3E2.-5.-31.-19.-47.-743
 548 861314660 2E2.-53.-5.-211.-3851
 R9 33 990788572 2E2.-53.-23.-317.-641
 558 876675856 2E4.-23.-313.-7559
 R9 33 895461104 2E4.-83.-179.-3767
 554 894012525 3E3.-582.-7.-431.-439
 R9 33 991581075 3E3.-582.-43.-127.-269
 562 916021964 2E2.-13.-11.-59.-27143
 R9 33 995258676 2E2.-13.-79.-347.-781
 568 946769928 2E5.-79.-263.-142
 R9 33 951278752 2E5.-189.-223.-1223
 573 962951312 2E4.-19.-1693.-1871
 L1 33 1003172848 2E4.-131.-387.-1559
 579 969473384 2E3.-11.-67.-164429
 L1 33 1043149816 2E3.-5.-101.-24359

583	991838384	2E4.23.167.16139	735	1819124752	2E4.19.593.10091	884	2897960164	2E2.11E2.23.439.593	1019	4056852735	3E3.5.19.13.89.1367			
R9	33	1025532496	2E4.79.503.1613	R9	33	189757008	2E4.13L.347.2609	R9	33	4216811265	3E3.5.19.29.83.683			
593	1020658815	3E2.5.11.19.47.2309	736	1829456590	2.5.13.29.127.3821	894	2978701744	2E4.19.971.18091	1035	4189982288	2E4.17.2399.6421			
R9	33	1055014785	3E2.5.11.31.197.349	R9	33	1869016370	2.5.13.97.103.1439	L2	33	3103141136	2E4.173.179.6263			
596	1034955988	2E2.11.17.1049.1319	742	1888560272	2E4.29.107.38039	903	3020065808	2E4.19.223.44549	R9	33	41041460112	2E4.239.569.2027		
R3	33	1060676012	2E2.11.43.89.6299	R9	33	1932177326	2E4.53.719.3169	L1	33	3167038192	2E4.197.349.2879			
601	1049859195	3.5.7.11.191.4759	744	1892277488	2E4.19.739.8423	905	3034523631	2.5.23.17.19.40647	R9	33	4346519768	2E3.29.47.191.2087		
R9	33	1055812485	3.5.7.13.79.9791	R9	33	1972653712	2E4.187.1039.1109	1055	4414931650	2.5E2.31.89.59.2099				
603	1066176716	2E2.11.19.251.5081	752	1954734364	2E2.11.19.593.3943	906	3036257450	2E4.19.439.22751	R9	33	4584492350	2.5E2.31.89.167.199		
R9	33	1085338808	2E2.11.29.293.2903	R9	33	1981062116	2E2.11.43.59.17747	L1	33	3179488144	2E4.157.263.4799			
613	1093953735	3E3.5.7.89.13067	766	2033951985	3E3.5.41.13.23.1229	914	3123866972	2E2.11.13.431.12671	1060	4490950220	2E2.5.71.3162641			
L1	33	1153282665	3E3.5.11.239.3251	R9	33	2131918415	3E3.5.41.17.139.163	R9	33	3131974532	2E2.11.181.191.4751			
615	1101570165	3E3.5.17.23.41.509	768	2049829364	2E2.11.19.263.9323	915	3124947352	2E2.11.19.1259.2969	L1	33	5072879198	2E2.13.3083.31643		
R9	33	1192552453	3E3.5.17.29.67.251	R9	33	2085551116	2E2.11.47.59.17893	1067	4594496049	2E5.53.463.5851				
616	1110673684	2E5.97.179.1999	772	2067555165	3E3.5.7.11.198899	L1	33	3161952244	2E2.11.29.149.16631	R9	33	4643059808	2E5.173.223.3761	
R9	33	111963616	2E5.83.499.839	R9	33	215100895	3E3.5.47.389.1019	922	3216385672	2.5.11.47.765.866	1086	4850661322	2E4.17.2939.6979	
626	1162874914	2.7.11.13.43.13499	R9	33	2070206050	2.5E2.11.239.15749	R9	33	3250156030	2.5.11.107.461.599	R9	33	5114760368	2E4.227.599.2351
L1	33	1232933298	2.7.11.29.359.769	R9	33	2148273950	2.5E2.19.359.6299	926	3274564293	3E3.5.11.13.17.7127	1089	4878141569	2.7E2.5.233.42727	
630	1193945522	2.7.11.19.53.7699	774	2083300808	2E3.23.43.179.1471	R9	33	3362305747	2E2.11.13.53.131.251	R9	33	5380167562	2.7E2.11.653.7643	
L1	33	1201662478	2.7.11.17.149.3079	R9	33	213665592	2E3.23.137.191.439	930	3312096496	2E4.29.661.16799	1092	4903965044	2E2.11.17.1129.5807	
634	1211220866	2E2.13.11.181.11699	778	2099037232	2E4.37.89.3939	L1	33	3337031580	2B4.59.89.39719	R9	33	5619351436	2E2.11.29.1451.2711	
R9	33	129953532	2E2.13.41.389.1559	L2	33	2124799568	2E4.59.113.19919	936	3373565454	2E3.41.31.71.4673	1098	4967430499	2.5.19.11.139.17099	
642	1239061725	3E3.5E2.11.19.8783	786	2141689095	3E2.7.13.5.31.16871	R9	33	3410834365	2E3.41.37.127.2213	R9	33	5374649510	2.5.19.11.13.167.1499	
R9	33	1375056675	3E3.5E2.47.89.487	R9	33	21574912249	3E2.7.13.47.151.443	938	33802322618	2.5.11.17.109.5051	1187	50989038550	2.5E2.11.499.18539	
644	1241180165	2E3.19.59.138491	789	2154386325	3.5E2.7.13.479.659	R9	33	3442900139	2.5.19.23.461.1799	R9	33	5257291450	2.5E2.19.199.27809	
L1	33	125055832	2E3.19.263.34949	R9	33	2245332075	3.5E2.7.43.79.1259	R9	34	3401192925	3E2.5E2.13.41.79.359	1189	5113096443	3E2.7E2.13.17.23.2281
658	1292286248	2E3.11.499.29429	799	2232676016	2E4.19.2551.2879	R9	33	3423370725	3E2.5E2.13.41.79.339	R9	33	5138491732	3E2.7E2.13.11.83.2977	
L1	33	1356413752	2E3.29.149.39239	L1	33	2324175184	2E4.127.263.4349	R9	34	3407059832	2E3.11.91.42499	1192	5156687470	2.5.11.53.419.2111
660	1305573705	3E3.5.19.17.79.379	802	2264629070	2.5.11.101.103.1979	L1	33	3569740168	2E3.37.67.179999	R9	33	5189747099	2.5.11.131.139.2591	
R9	33	1320982695	3E3.5.19.31.37.449	R9	33	2272200370	2.5.11.79.373.701	943	34080254632	2E3.23.47.229.1721	1198	5200799264	2E5.53.1439.2131	
662	13129009796	2E2.11.17.189.16103	804	2270966698	2.7.11.13.191.5939	R9	33	3435662268	2E3.23.71.409.643	R9	33	5243612896	2E5.107.491.3119	
R9	33	1365507482	2E2.11.43.269.2663	L1	33	23724748662	2.7.11.19.307.2591	945	3414261456	2E4.19.163.68903	1202	5209061056	2E5.67.199.12401	
663	1321560765	3E4.5.7.59.79.701	808	2294183672	2E3.11.227.1114847	L1	33	3591762264	2E4.263.409.2087	R9	33	535072544	2E5.149.211.5303	
R9	33	1432128195	3E4.5.17.79.2633	L1	33	2419178248	2E3.31.151.64601	948	3431450924	2E5.43.1439.1733	1205	536234776	2E4.17.2267.8599	
666	1333290105	3E3.5.7.23.61343	827	2436224288	2E5.53.307.4679	R9	33	3496122208	2E5.269.373.1087	R9	33	5581328624	2E4.257.449.3023	
R3	33	1493441415	3E3.5.17.191.3407	R9	33	2467554592	2E5.167.389.1187	949	3434398695	3E2.7.13.5.191.4391	1211	5369403950	2.5E2.7.1999.7703	
672	1365633296	2E4.37.107.21559	837	2498633150	2.5E2.13.149.25799	R9	33	3932355608	2E2.7.13.23.107.1951	R9	33	56074148050	2.5E2.79.641.2399	
L1	33	1377316144	2E4.43.227.88919	R9	33	2549106850	2.5E2.17.139.21499	951	3437839568	2E4.29.659.112427	1216	5447262776	2E3.23.47.83.5589	
680	1448998330	2.5.19.13.569.1031	844	2555923990	2.5.17.23.29.22541	L1	33	3463727632	2E4.59.89.41227	R9	33	5569774024	2E3.23.179.263.643	
R9	33	151571270	2.5.19.37.251.859	R9	33	2702673770	2.5.17.59.467.577	952	3473861427	3E3.7.11.13.131.971	1218	5587409230	2.5.13.19.1451.1559	
686	1505175008	2E5.71.167.3967	851	2648872395	3E3.5.23.13.177.479	R9	33	3495761613	3E3.7.11.17.53.1847	R9	33	5597875570	2.5.13.199.233.967	
R9	33	1518631456	2E5.127.433.863	R9	33	2692721205	3E3.5.23.17.139.367	957	36579402050	2.5E2.11.19.34249	1220	5657403950	2.5.19.11.569.4703	
690	1528753832	2E3.17.19.591.623	856	2688000928	2E5.71.107.111057	R9	33	4006257958	2.5E2.149.266.2039	R9	33	599274970	2.5.19.71.167.2659	
L1	33	1666915768	2E3.47.809.5477	R9	33	2729105076	2E5.193.647.6683	970	3611920304	2E2.29.59.131.1327	1227	5668081984	2E6.223.311.1277	
691	152931010	2.5.13.29.79.5147	862	2732700555	3E2.5.13.19.47.5231	L1	33	3648249456	2E4.53.109.39387	R9	33	5657159744	2E6.283.431.727	
R9	33	1580759390	2.5.13.187.199.571	863	2733105848	2E3.11.139.223439	975	3636942220	2E2.5.71.2580241	1231	5766520288	2E5.59.599.5099		
698	1563999255	3E2.7.13.5.167.2287	R9	33	2752109685	3E2.5.13.17.127.2179	R9	33	5668081984	2E6.223.311.1277				
R9	33	1793979363	3E2.7.13.23.131.727	864	2750817650	2.5E2.7.599.13121	976	3769844220	2E2.5.7.13.29.22541	1237	577844128	2E5.79.181.12671		
699	1574216272	2E4.19.971.5333	866	2750817650	2.5E2.7.599.13121	L1	33	3854502184	2E3.23.151.138731	R9	33	5825928032	2E5.83.1319.1663	
R9	33	1640265488	2E4.107.761.1259	R9	33	3106843150	2.5E2.89.886.863	984	3743928045	3E2.5.13.11.223.2609	1238	5871076573	3.5E2.7.13.79.18889	
706	1626481616	2E4.23.149.29663	868	2794450516	2E2.11.13.197.24799	R9	33	3917194515	3E2.5.13.23.347.839	R9	33	5924391392	2E5.43.443.9719	
R9	33	1684920784	2E4.107.19.4943	R9	33	2980179884	2E2.11.79.659.1301	985	3751290650	2.5E2.19.29.136163	1240	5936514512	2E4.17.659.33119	
712	1690397588	2E2.11E2.29.83.1451	870	2807410016	2E5.47.643.2903	L1	33	3846660550	2.5E2.17.349.12967	R9	33	5936514512	2E4.17.659.33119	
R9	33	1716169652	2E2.11E2.41.197.439	R9	33	2849802208	2E5.197.367.1231	986	3762853094	2.7.11.13.373.5039	R9	33	6260919088	2E4.263.919.1619
716	1728342296	2E3.19.53.214541	872	2816751938	2.7.11.13.19.74851	R9	33	3804517244	2E2.11.17.367.13859	990	3804517244	2E2.11.17.367.13859		
L1	33	1747238104	2E3.17.521.24659	R9	33	3154881342	2.7.11.167.241.509	984	3743928045	3E2.5.13.11.223.2609	1241	6275937424	2E4.19.509.40559	
728	1786141665	3E3.5.7.11.17.171827	878	2870595525	3.5E2.7.19.41.7819	R9	33	3907400516	2E2.11.31.809.3541	1011	4007609528	2E3.13.29.1328783		
R9	33	2172775455	3E3.5.47.443.773	R9	33	2979030075	3.5E2.7.29.389.503	1010	4007609528	2E3.13.29.1328783	1214	6305672368	2E4.17.751.30869	
730	1793313730	2.5.31.13.479.929	882	2894167455	3E3.5.17.19.31.2141	R9	33	4138709588	2E2.13.3163.25163	R9	33	6467873552	2E4.251.839.1973	
R9	33	1806455870	2.5.31.17.79.439	R9	33	3028094145	3E3.5.17.47.67.419	989	3854502184	2E3.23.151.138731	1216	643170730	2.5.17.13.67.42839	
99	33	189757008	2E4.13L.347.2609	R9	33	3106843150	2.5E2.89.886.863	990	3917194515	3E2.5.13.23.347.839	1216	678744128	2E4.17.2399.6421	

		AMICABLE PAIRS OF TYPE (4,3):										
R9 33	6460278688	2E5 .61 .199 .16631	1360	8658321632	2E5 .71 .79 .48239	R9 43	209309704	2E3 .29 .71 .97 .131	R9 43	209816696	2E3 .19 .83 .16631	
R9 33	6532639712	2E5 .139 .359 .4891	R9 33	8847009568	2E5 .401 .599 .1151	L1 43	221397165	3E3 .5 .11 .29 .53 .97	R9 43	235831635	3E3 .5 .13 .83 .1619	
L1 33	6506173275	3 .5E2 .7 .17 .599 .1217	1385	9083125278	3 .5E2 .7 .19 .13 .6551	L1 43	250876395	3E2 .5 .7 .11 .17 .4259	L1 43	323303445	3E2 .5 .53 .283 .479	
R9 33	6542991525	3 .5E2 .7 .19 .521 .1259	R9 33	9115709925	3 .5E2 .7 .29 .47 .12739	L1 43	2728726	2 .7 .11 .13 .17 .151	333	252551048	2E3 .17 .31 .37 .1619	
L1 33	6682859001	3E2 .7 .13 .17 .23 .41 .509	1388	9100969376	2E5 .79 .113 .31859	L1 43	3077354	2 .7 .19 .23 .5083	R9 43	279327352	2E3 .167 .179 .1823	
R9 33	6790149639	3E2 .7 .13 .17 .29 .67 .251	R9 33	9284512224	2E5 .179 .227 .7079	89	7288936	2 .11 .5 .23 .43 .67	353	278247976	2E3 .17 .41 .139 .359	
L1 33	6742313936	2E4 .29 .47 .309167	1393	9173812856	2E3 .13 .8669 .10151	L1 43	8221598	2 .11 .5 .23 .43 .67	L1 43	293288024	2E3 .31 .149 .7937	
R9 33	7058945584	2E4 .151 .431 .6779	B4 .33	9353372744	2E3 .19 .281 .218987	97	8666660	2E2 .5 .23 .83 .227	363	309208696	2E3 .23 .29 .127 .443	
L1 41	6768593968	2E4 .29 .2089 .6983	1395	9225491168	2E5 .83 .151 .23083	L1 43	18638356	2E2 .47 .71 .797	L1 43	313576904	2E3 .31 .89 .14287	
L2 33	6806206832	2E4 .37 .439 .26189	R9 33	9278558366	2E5 .113 .251 .10223	99	8826070	2 .5 .11 .19 .41 .103	368	305178874	2 .7 .19 .11 .13 .71 .113	
L1 42	6771898208	2E5 .71 .151 .19739	1396	9251680834	2E5 .67 .179 .24167	L1 43	18043690	2 .5 .31 .179 .181	R9 43	356714246	2 .7 .19 .83 .107 .151	
R9 33	6838279072	2E5 .113 .563 .3359	1402	9303632398	2 .5 .13 .29 .113 .21839	108	9773565	3E2 .5 .7 .19 .23 .71	374	312098008	2E3 .19 .29 .101 .701	
L1 42	6845195390	2 .5 .11 .53 .139 .8447	R9 33	9518953210	2 .5 .13 .59 .359 .3457	L1 43	11791935	3E2 .5 .31 .79 .197	R9 43	332345192	2E3 .53 .67 .11699	
R9 33	6950850690	2 .5 .11 .167 .239 .1583	1421	9852159848	2E3 .31 .23 .433 .3989	115	11713466	2E2 .5 .53 .83 .127	376	318323864	2E3 .23 .61 .79 .359	
L1 53	6921765752	2E3 .11 .79 .995651	1422	9875558210	2 .5 .29 .7 .233 .20879	L1 43	13212076	2E2 .31 .47 .2267	R9 43	324492136	2E3 .29 .47 .29759	
L1 33	7096666610	2 .5 .11 .53 .719 .1693	R9 33	11231616198	2 .5 .29 .239 .347 .467	127	14426238	2 .7 .5 .13 .83 .191	382	324644792	2E3 .19 .29 .47 .1567	
R9 33	7096880910	2 .5 .11 .83 .269 .2903	1425	9883587238	2 .5 .11 .47 .191 .10009	L1 43	16008718	2 .7 .31 .71 .587	R9 43	352731208	2E3 .79 .89 .6271	
L1 61	7107900496	2E4 .23 .79 .244943	R9 33	100842879338	2 .5 .11 .127 .571 .1259	141	18194715	3E2 .5 .7 .11 .59 .89	387	339981512	2E3 .13 .41 .71 .1123	
L2 33	7444382384	2E4 .191 .281 .8669	1426	9959895128	2E3 .19 .103 .197 .3229	L1 43	22249485	3E2 .5 .31 .187 .149	R9 43	373803448	2E3 .83 .167 .3371	
R9 33	7309479290	2 .5 .17 .29 .1039 .1427	R9 33	9994662872	2E3 .19 .113 .659 .883	154	24472180	2E2 .5 .17 .167 .431	391	347401035	3E3 .5 .17 .19 .31 .257	
L1 63	7127201475	3E3 .582 .31 .23 .59 .251	R9 33	10096563352	2E3 .31 .61 .251 .2659	L1 43	30302526	2E2 .47 .107 .1511	R9 43	365917365	3E3 .5 .11 .239 .1031	
R9 33	7271876925	3E3 .582 .31 .53 .79 .83	TOTAL NUMBER: 280	184	430096984	2E3 .17 .41 .59 .131	185	375401624	2E3 .13 .73 .197 .251	495	375401624	2E3 .13 .73 .197 .251
L1 74	7335948912	2E4 .17 .349 .77279	R9 33	4715896	2E3 .17 .41 .59 .131	L1 43	399982216	2E3 .43 .97 .11987	L1 43	399982216	2E3 .43 .97 .11987	
R9 33	7756843888	2E4 .419 .1049 .1103	209	71015269	2E2 .5 .23 .263 .587	R9 43	388904355	3E3 .5 .7 .23 .29 .617	R9 43	388904355	3E3 .5 .7 .23 .29 .617	
L1 76	7336566719	2 .5 .19 .11 .83 .42293	R9 33	85459856	2E2 .41 .47 .11087	L1 43	465418845	3E3 .5 .59 .71 .823	R9 43	465418845	3E3 .5 .59 .71 .823	
R9 33	8011980010	2 .5 .19 .151 .293 .953	210	71241830	2 .5 .11 .19 .89 .383	210	405370035	3E3 .5 .7 .19 .107 .211	R9 43	405370035	3E3 .5 .7 .19 .107 .211	
L1 78	735370965	3E3 .5 .13 .17 .183 .2393	R9 33	85989990	2E2 .5 .17 .359 .1279	L1 43	473836365	3E3 .5 .29 .127 .953	R9 43	473836365	3E3 .5 .29 .127 .953	
R9 33	7704367515	3E3 .5 .13 .83 .227 .233	214	74386385	3E2 .5 .7 .17 .29 .479	214	473862984	2E3 .19 .43 .47 .1427	R9 43	466417816	2E3 .31 .503 .3739	
L1 98	7393919030	2 .5 .19 .13 .227 .13187	R9 33	87354495	3E2 .5 .19 .71 .1429	L1 43	474179596	2E2 .31 .11 .41 .61 .139	R9 43	474179596	2E2 .31 .11 .41 .61 .139	
R9 33	7766775530	2 .5 .19 .37 .313 .3527	219	78447018	2 .5 .17 .19 .149 .163	L1 43	5055757684	2E2 .31 .17 .79 .3037	R9 43	5055757684	2E2 .31 .17 .79 .3037	
L1 82	7460005075	3 .583 .7 .17 .349 .479	R9 33	89598990	2 .5 .11 .491 .1499	225	84591405	3E3 .5 .17 .29 .31 .41	459	529714744	2E3 .13 .59 .131 .659	
R9 33	7635802125	3 .583 .7 .17 .47 .1049	R9 33	89598995	3E3 .5 .18 .71 .71	L1 43	567997256	2E3 .47 .109 .13859	R9 43	567997256	2E3 .47 .109 .13859	
L1 83	74807688032	2E6 .233 .239 .2899	227	90998840	2 .5 .7 .29 .67 .647	469	558410475	3 .582 .19 .7 .17 .37 .89	R9 43	558410475	3 .582 .19 .7 .17 .37 .89	
R9 33	7497130168	2E6 .269 .599 .727	R9 43	102358010	2 .5 .7 .47 .89 .2447	264	139099990	3E2 .5 .7 .59 .89 .421	469	662939925	3 .582 .19 .23 .113 .179	
L1 90	7572722157	3E4 .7 .11 .13 .59 .1583	R9 43	139099990	2 .5 .7 .59 .89 .421	264	559334930	3 .5 .7 .59 .89 .421	R9 43	662939925	3 .582 .19 .23 .113 .179	
R9 33	7803362803	3E4 .7 .11 .23 .179 .307	R9 43	140744835	2 .5 .7 .19 .239 .3797	265	559516718	2 .7 .71 .281 .2687	R9 43	559516718	2 .7 .71 .281 .2687	
L1 92	75915498916	2E4 .28 .33 .3535 .5839	R9 43	140744835	2 .5 .7 .19 .239 .3797	265	580557992	2E3 .17 .23 .359 .521	R9 43	580557992	2E3 .17 .23 .359 .521	
R9 33	7763547824	2E4 .71 .151 .45259	R9 43	1466562685	2E2 .5 .17 .239 .911	R9 43	623663608	2E3 .59 .107 .12527	R9 43	623663608	2E3 .59 .107 .12527	
L1 95	7600153350	2 .582 .7 .179 .121439	R9 43	148015384	2E3 .19 .23 .47 .857	490	608418918	2 .7 .5 .13 .23 .28687	R9 43	608418918	2 .7 .5 .13 .23 .28687	
R9 33	83558091458	2 .582 .137 .383 .3299	R9 43	153070038	2E2 .83 .293 .1913	267	144788020	2E2 .5 .13 .97 .5741	485	613290028	2E2 .17 .13 .29 .47 .509	
L1 98	7807697504	2E5 .59 .1847 .2339	R9 43	155015550	2 .5E2 .19 .23 .47 .149	R9 43	682191572	2E2 .17 .71 .101 .1399	R9 43	682191572	2E2 .17 .71 .101 .1399	
R9 33	7839688096	2E5 .109 .223 .10079	R9 43	168392450	2 .5E2 .79 .89 .479	272	153015550	2 .5E2 .19 .23 .47 .149	495	653978426	2 .7 .31 .11 .13 .17 .619	
L1 102	7920502317	3E2 .11 .13 .19 .7 .79 .379	R9 43	168392450	2 .5E2 .79 .89 .479	R9 43	786829414	2 .7 .31 .53 .79 .433	R9 43	786829414	2 .7 .31 .53 .79 .433	
R9 33	8013961683	3E2 .7 .13 .19 .31 .37 .449	R9 43	164733752	2E3 .31 .53 .83 .151	281	164733752	2 .5E2 .19 .41 .59 .199	512	698002450	2 .5E2 .19 .41 .59 .199	
L1 104	80201184795	3E4 .5 .17 .19 .67 .389	R9 43	166212888	2E3 .17 .383 .3191	R9 43	708157558	2 .5E2 .19 .41 .59 .199	R9 43	708157558	2 .5E2 .19 .41 .59 .199	
R9 33	8433856485	3E4 .5 .18 .47 .67 .389	R9 43	165742395	3 .5 .7 .13 .29 .53 .79	282	165742395	3 .5 .7 .13 .29 .53 .79	539	826499835	3E3 .5 .7 .31 .89 .317	
L1 106	8249841116	2E2 .11 .19 .89 .110879	R9 43	182622485	3 .5 .7 .41 .59 .19	R9 43	931912965	3E3 .5 .23 .59 .5087	R9 43	931912965	3E3 .5 .23 .59 .5087	
R9 33	8515214884	2E2 .11 .19 .71 .461199	R9 43	170566698	2 .5 .7 .29 .73 .1151	289	170566698	2 .5 .7 .29 .73 .1151	543	848764124	2E2 .19 .13 .23 .41 .911	
L1 108	8283367504	2E4 .14 .1439 .21163	R9 43	197784670	2 .5 .31 .73 .863	R9 43	953056036	2E2 .19 .47 .251 .1067	R9 43	953056036	2E2 .19 .47 .251 .1067	
R9 33	8722329776	2E4 .263 .443 .4679	R9 43	18946984	2E3 .13 .71 .113 .227	300	18946984	2E3 .13 .71 .113 .227	544	854687578	2 .5 .11 .59 .79 .1667	
L1 109	8348580350	2 .5E2 .11 .3163 .4799	R9 43	203592056	2E3 .37 .797 .863	R9 43	874694830	2 .5 .19 .23 .200159	R9 43	874694830	2 .5 .19 .23 .200159	
L1 33	8600334850	2 .5E2 .17 .2239 .4519	311	204756984	2E3 .11 .59 .113 .349	553	891089368	2E3 .13 .23 .401 .929	R9 43	891089368	2E3 .13 .23 .401 .929	
L1 110	8452751584	2E5 .59 .1911 .2963	L1 43	226163096	2E3 .79 .449 .797	R9 43	9319165032	2E3 .167 .179 .4153	R9 43	9319165032	2E3 .167 .179 .4153	
R9 33	8487575456	2E5 .79 .1481 .2267	L1 43	209027128	2E3 .23 .29 .43 .911	555	894696815	3 .5 .7 .13 .53 .83 .149	R9 43	894696815	3 .5 .7 .13 .53 .83 .149	
L1 112	8517106125	3E3 .5E3 .11 .383 .599	R9 33	8735245875	3E3 .29 .1 .2879	R9 43	224355272	2E3 .37 .383 .1979	R9 43	934224585	3 .5 .7 .19 .59 .7937	

558	905196776	2E3.11.31.389.853	733	1813297395	3.5.7.13.19.139.503	935	3370176315	3E4.11.5.23.31.1061	1106	5063925616	2E4.43.71.83.1249
R9 43	1013228824	2E3.139.487.1871	R9 43	1980008205	3.5.7.29.79.8231	R9 43	3735470277	3E4.11.7.47.12743	R9 43	5247914384	2E4.79.769.5399
565	938793204	2E2.19.11.59.113.167	750	1937813620	2E2.5.97.631.1583	946	3415139192	2E3.19.47.71.6733	1113	5157409576	2E3.11.37.179.8849
R9 43	999728396	2E2.19.23.239.2393	R9 43	2182664588	2E2.13.593.70783	R9 43	3566672008	2E3.23.2729.7103	R9 43	5378618424	2E3.113.269.23599
571	954392504	2E3.13.37.197.1259	751	1938775850	2.5E2.11.47.179.419	958	3474788976	2E4.67.109.131.227	1115	5188836656	2E4.59.61.251.359
R9 43	1036457894	2E3.43.1619.1861	R9 43	2110964950	2.5E2.41.149.6911	R9 43	3503951580	2E4.37.1583.3739	R9 43	5272993744	2E4.53.199.31247
572	957871508	2E2.11.29.71.97.109	762	1992605368	2E3.13.23.131.6359	966	3572444810	2E4.43.97.199.269	1126	5319472184	2E3.13.41.199.6269
R9 43	990051692	2E2.11.53.139.3079	R9 43	2238575432	2E3.179.461.3391	R9 43	3645848130	2E4.71.131.24499	R9 43	5748807816	2E3.37.3079.6299
580	969642856	2E3.17.31.349.659	763	2004732340	2E2.5.13.227.33967	973	3654203576	2E3.19.71.571.593	1127	5321938128	2E4.29.53.379.571
R9 43	1000233608	2E3.11.59.383.503	R9 43	2549153612	2E2.71.151.59443	R9 43	3684785224	2E3.17.311.87119	R9 43	5593889072	2E4.197.569.3119
L1 43	1089955192	2E2.47.863.3356	764	2008888310	2.11.13.5.23.103.593	974	3658862632	2E3.23.41.53.9151	1128	5325459184	2E4.43.139.233.239
608	1086272832	2E2.11.29.47.59.307	771	2057811288	2E3.17.19.431.1847	R9 43	381362328	2E3.43.47.23587	R9 43	5398854416	2E4.41.1559.5279
R9 43	1149067964	2E2.11.89.139.2111	R9 43	2254003112	2E3.83.127.26729	976	3679922744	2E2.5.13.67.21247	1129	5375620496	2E4.29.83.97.1439
610	1088205734	2.7.11.17.19.131.167	780	2107566279	3E2.7.13.17.19.31.257	R9 43	4766617292	2E2.83.3671.3911	R9 43	5648673904	2E4.199.503.3521
R9 43	211001946	2.7.11.179.197.223	R9 43	2219898681	3E2.7.13..11.239.1031	989	3804416572	2E2.11.43.71.127.223	1130	5381495288	2E3.13.23.191.11779
625	1148440333	2E4.37.71.89.307	788	2153372926	2E3.29.31.227.1319	R9 43	3825546692	2E2.11.31.83.33791	R9 43	6817775112	2E3.127.433.13679
R9 43	1282659184	2E4.167.659.682	R9 43	2180445704	2E3.17.911.17599	992	3846301093	2E3.11.59.727.1819	1146	5562037616	2E4.43.59.263.521
632	1197281384	2E2.5.31.967.1997	800	2241281620	2E2.5.131.881.971	R9 43	4173346984	2E3.79.83.79559	R9 43	5716169104	2E4.71.241.20879
R9 43	1482100636	2E2.17.2441.8447	R9 43	2511611756	2E2.17.47.785861	997	3892163756	2E3.13.19.53.239.311	1147	5574272535	3E2.5.13.19.43.107.109
633	1296341522	2E3.13.37.25.121.1249	806	2278650296	2E3.13.23.199.4787	R9 43	4033135444	2E2.13.19.29.127.21059	R9 43	5841932265	3E2.5.13.23.449.967
R9 43	1387558048	2E3.41.1499.2659	R9 43	2547653704	2E3.113.839.3359	999	3905117572	2E3.19.47.71.7699	1153	5609702696	2E3.13.29.107.17383
639	1224145112	2E3.17.31.103.2819	816	2363563444	2E2.19.11.23.83.1481	R9 43	4078244244	2E3.23.2399.9239	R9 43	6218078904	2E3.89.317.27554
R9 43	1389794088	2E3.53.79.391.301	R9 43	2555792716	2E2.19.47.233.3191	1012	4023332270	2E5.19.23.37.149.167	1168	5725765580	2E2.5.17.467.36061
645	1241809543	2E2.5.17.37.98713	821	2407445156	2.5E2.11.29.149.1013	R9 43	4250331730	2.5.19.47.179.2659	L1 43	7033258516	2E2.37.187.444131
R9 43	1594046252	2E2.113.131.26921	R9 43	2684862850	2.5E2.59.449.2027	1013	4280769925	3E3.582.13.17.113.239	1164	5771384168	2E3.11.183.599.1063
649	1255307438	2.7.11.17.53.83.109	R9 43	27115154916	2E2.11.23.47.89.571	R9 43	4286863575	3E3.582.41.37.399.431	R9 43	6797546332	2E3.37.233.89599
R9 43	1331301202	2E2.7.11.29.307.971	R9 43	2564461724	2E2.11.107.127.4289	1021	4088605628	2E4.41.53.307.383	1165	5797565012	2.782.5.13.881.1033
652	1273481172	2E3.11.29.569.877	824	2419787565	3E2.5.13.17.23.71.149	R9 43	4227411568	2E4.71.123.1.23.119.1109	R9 43	7306538622	2.782.41.293.5283
R9 43	1429002824	2E3.179.379.2633	R9 43	2675847635	3E2.5.13.89.191.269	1022	4095802135	3.5.7.11.23.139.1109	1167	5806329830	2.5.7.29.55.40479
653	1273666394	2.7.11.13.41.59.263	842	25506561220	2E2.5.13.131.74887	R9 43	4497977005	3.5.7.31.83.16649	R9 43	6759686778	2.5.47.89.161599
R9 43	1480742561	2.7.11.83.307.359	R9 43	3261855780	2E2.73.223.50093	1024	4105247230	2.7.31.51.71.383.433	1184	5996875656	2E3.13.59.71.13751
654	1275751480	2E4.41.79.103.239	845	2592552904	2E3.17.29.43.15287	R9 43	5110162496	2.7.41.71.383.433	R9 43	6485108744	2E3.41.647.30554
R9 43	1324082192	2E4.89.727.1277	R9 43	2856909296	2E3.103.131.26459	1028	4143353656	2E3.13.29.509.2699	1187	6824547696	2E4.29.83.311.503
668	1347375272	2E3.19.89.137.127	858	2710037704	2E3.11.29.181.587	R9 43	4531746344	2E3.53.499.21419	R9 43	6259666064	2E4.167.293.12479
R9 43	1365152728	2E3.29.41.143519	R9 43	30578032696	2E3.23.331.719.2281	1029	4144376145	3.5.782.13.41.71.149	1188	6831567575	3E2.582.11.19.47.2729
674	1366737770	2.5.11.17.59.12569	866	2784657488	2E4.29.71.181.467	R9 43	4542971055	3.5.782.153.139.839	R9 43	6642621225	3E2.582.17.167.10399
R9 43	1545591830	2.5.29.53.100559	R9 43	2918727472	2E4.223.269.3041	1034	4186831085	3E3.5.7.67.89.743	1189	6842829985	3E3.5.23.29.9587
675	1352178483	3.5.7.53.89.313	867	2785750226	2E2.5.31.601.7481	R9 43	4555466595	3E3.5.23.29.50591	R9 43	7211621295	3E3.5.31.1223.1409
R9 43	1534778955	3.5.7.31.89.5879	R9 43	3266926196	2E2.17.49.987.961	1037	4211875385	3E3.5.7.17.23.11399	1198	6845115850	2.5E2.17.41.89.1949
679	13749711355	3.5.7.13.17.149.419	R9 43	2881008792	2E3.23.41.521.733	R9 43	4281566032	2E3.29.47.251.379	R9 43	6293938150	2.5E2.29.53.81899
R9 43	15994806455	3.5.7.29.139.3779	R9 43	2912196962	2E3.17.503.42571	1041	4446006386	2E4.11.33.239.10289	1198	6845182624	2E4.59.73.127.701
683	1470622333	3.5.7.13.29.97.383	R9 43	2919883365	3E2.5.7.17.269.2027	1047	43314352790	2.7.41.5.47.163.197	1203	683323215216	2E4.47.359.23887
R9 43	1564022145	3.5.7.19.127.6173	R9 43	3230310555	3E2.5.19.23.164267	R9 43	50595298698	2.7.41.23.107.3607	R9 43	6179708345	3.5.7.13.17.79.3371
692	1546818128	2E4.47.109.113.167	867	2932637168	2E4.37.67.187.691	1054	44080527095	3E5.5.17.23.59.157	1204	6181674850	2.5E2.13.59.359.449
R9 43	1587981232	2E4.83.151.7919	R9 43	3054915376	2E4.101.683.2767	R9 43	4543739145	3E5.5.11.359.947	R9 43	6473765150	2.5E2.23.139.40499
693	1548287895	3.5.7.11.23.167.349	892	2957909284	2E2.11.19.43.187.769	1061	4516391952	3E2.5.13.19.59.71.97	1206	6217038755	3E2.5.13.19.23.83.293
R9 43	1703116905	3.5.7.31.89.5879	R9 43	3189277916	2E2.11.19.263.1399	R9 43	4729791185	3E2.5.13.29.83.3359	R9 43	6727624605	3E2.5.13.41.179.1567
696	1559185008	2E4.43.67.149.227	898	2997567034	2.7.11.19.47.71.387	1063	4569376424	2E3.19.43.83.8423	1222	6451021016	2E3.11.41.103.17359
R9 43	1613013392	2E4.109.179.5167	R9 43	3133653446	2.7.11.23.479.1847	R9 43	4771154776	2E3.23.1871.13859	R9 43	61798105384	2E3.97.1151.8859
697	1559592628	2E2.11.43.53.183.151	901	3001624456	2.5E2.11.47.83.1399	1071	4667500708	2E2.19.13.97.113.431	1243	6777002584	2E3.11.37.233.893
R9 43	1595431244	2E2.11.31.311.3761	R9 43	3297972350	2.5E2.41.449.3583	R9 43	4792055132	2E2.19.17.83.44687	R9 43	7522400456	2E3.107.227.38713
702	1600185752	2E3.11.53.103.3331	904	3024860410	2.5.11.13.23.91969	1075	4721483056	2E4.23.139.241.383	1244	6788375248	2E4.41.103.139.683
R9 43	1768066408	2E3.101.167.13103	R9 43	3649954310	2.5.67.1259.4327	R9 43	4957897424	2E4.197.439.3583	R9 43	6926317952	2E4.47.2309.3989
720	1755729656	2E3.19.23.349.1439	913	3107420058	2E3.13.19.331.4751	1082	480074954	2.7.11.13.707.307	1249	6865178846	2.782.19.13.23.83.149
R9 43	1873070344	2E3.31.1249.6047	R9 43	3518768744	2E3.461.719.1327	R9 43	5124163198	2.7.11.43.83.9323	R9 43	7593733154	2.782.19.31.293.449
721	1756783660	2E2.5.23.131.123191	919	3152378344	2E3.23.31.419.1319	1096	4968116850	2.5E2.13.89.179.479	1268	7268766832	2E4.53.61.83.1693
L1 43	2216977492	2E2.53.191.54751	R9 43	3234309656	2E3.19.2687.7919	R9 43	5164235150	2.5E2.19.863.6299	R9 43	7499858416	2E4.71.461.14321
722	1763439656	2E3.11.29.251.2753	932	3334417196	2E2.11.17.53.241.349	1099	49881168690	2.5.31.13.91.681.167	1285	748320870	2.5.11.13.1499.3491
R9 43	1984203544	2E3.179.971.1427	R9 43	3581168404	2E2.11.109.769.971	R9 43	5099236190	2.5.31.17.223.4339	R9 43	8356509130	2.5.19.3023.14549

1297 7644728944 284.67.83.151.569
R9 43 7696789136 284.37.687.21419
1301 7716789124 282.59.11.17.19.9203
R9 43 8982948476 282.59.29.183.12743
1303 7735239556 282.11.43.71.89.647
R9 43 7784412284 282.11.23.1759.4373
1307 78087056948 282.5.13.167.179657
L1 43 9946628932 282.53.1511.31051
1319 8938783948 282.13.17.19.307.1559
R9 43 8912550452 282.13.139.701.1759
1321 8956850244 282.11.29.53.139.857
R9 43 8289879356 282.11.43.187.40949
1325 8167602105 382.5.13.19.23.43.743
R9 43 8991299655 382.5.13.61.197.1279
1326 8188640048 284.41.47.349.761
R9 43 8479843152 284.97.239.22859
1328 8226127472 284.29.187.223.743
R9 43 8512801168 284.71.1889.3967
1347 8496504986 383.5.13.19.89.2861
R9 43 8818771995 383.5.11.83.71549
1353 8521866055 386.5.13.17.71.149
R9 43 9326392245 386.5.23.53.2099
1359 8561976434 282.7.11.13.23.89.2111
R9 43 9742505096 2.7.11.232.239.1187
1364 8808227856 284.59.71.113.1163
R9 43 8962421264 284.53.227.46559
1372 8952142015 383.5.7.11.53.16249
R9 43 11265457185 383.5.17.91.31.1499
1375 8975668265 382.5.13.11.47.59.503
R6 43 10845057815 282.5.18.167.383.419
1378 9008915926 283.19.59.317.3541
R9 43 9240051242 283.19.1931.31481
1379 9008575485 3.5.7.13.17.23.16879
R9 43 10592758595 3.5.7.127.269.2953
1381 9829724995 382.7.13.5.31.81.857
R9 43 11118146949 382.7.13.73.263.727
1386 9008970308 2.5.53.11.83.89.211
R9 43 9687155775 2.5.53.11.719.1483
1389 9136521225 383.582.13.17.73.839
R9 43 10287235575 383.582.59.97.2663
1410 9535950765 382.5.11.23.31.41.659
R9 43 10390515795 382.5.11.127.197.839
1415 9723853488 284.23.89.307.967
R9 43 10240668752 284.263.461.5279

TOTAL NUMBER: 201

AMICABLE PAIRS OF TYPE (5, 3):

313 208693628 282.11.13.23.29.547
R9 53 255380932 282.31.167.12329
347 273141836 282.11.23.29.41.227
L1 53 306814644 282.13.239.24623
567 938304296 2.11.5.7.17.43.1667
R9 53 1344480478 2.11.31.197.10007
618 1118297565 382.5.7.11.29.31.359
R9 53 1469555235 382.5.79.479.863
723 1772982530 2.5.11.17.19.139.359
R9 53 2146121470 2.5.107.199.10079
843 2551781896 2.5.7.19.61.71.443
R9 53 3156424198 2.5.431.739.991
877 28484666268 282.5.17.31.131.2063
R9 53 3742595396 282.257.431.8447
931 3331818845 382.7.5.11.17.193.293
R9 53 4356521379 382.7.23.41.73331
1826 4123833752 283.17.53.61.83.113
R9 53 4532487208 283.71.227.35153
1862 4525239970 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 6270843870 2.5.107.1879.3119
1119 5221345844 282.11.13.19.353.1361
R9 53 6118775116 282.17.9439.9533
1218 6356368136 283.17.23.183.109.181
R9 53 7135510264 283.131.2027.3359
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 8073897430 2.5.29.197.141311
1350 8508118108 282.5.17.37.307.2203
R9 53 10993367516 282.131.167.125627
1354 8534619752 283.17.23.71.83.463
R9 53 96508822808 283.347.583.6911
1407 9408698824 283.13.41.59.149.251
R9 53 10595069176 283.167.1259.6299

TOTAL NUMBER: 18

AMICABLE PAIRS OF TYPE (2, 4):

177 37784819 2.7.5.539783
L1 24 399444086 2.7.13.41.53.101
375 316293016 283.13.3041279
R9 24 322375784 283.41.71.109.127
484 606235455 383.5.7.641519
R9 24 625402945 383.5.19.43.53.107
685 1582495805 3.782.13.5.157247
R9 24 1589118611 3.782.13.11.17.41.103

TOTAL NUMBER: 4

AMICABLE PAIRS OF TYPE (3, 4):

274 155578180 282.5.223.34883
R9 34 172610492 282.23.41.67.683
348 274638460 282.5.1693.8111
R9 34 302514111 282.17.43.307.337
357 287250632 283.17.127.16631
R9 34 287551280 283.31.53.131.167
416 400250565 384.11.5.13.6911
R9 34 4279251304 384.11.17.23.31.41
479 596668490 2.5.11.41.123299
R9 34 603557110 2.5.13.53.251.349
490 637756665 3.5.7.13.59.7919
R9 34 639580393 3.5.7.29.41.47.109
502 665113060 282.5.31.1872763
R9 34 766681756 282.23.107.257.307
525 761197736 283.13.1151.6359
L1 34 777413464 283.41.47.211.239
570 950850140 282.5.1091.43577
R9 34 1047811252 282.17.41.233.1613
665 1327395362 283.13.1511.8447
R9 34 1355013592 283.41.43.191.503
871 208897976 283.11.2393.13339
R9 34 239492826 283.37.137.173.419
876 2847780584 283.11.557.58099
R9 34 2987783416 283.53.61.331.349
909 3065342666 282.5.9743.15731
R9 34 3372946876 282.13.107.347.1747
1043 4288785856 283.11.4513.10799
R9 34 4486457944 283.47.73.149.1097
1101 5001083252 282.11.19.1583.3779
R9 34 56875950346 282.11.59.187.131.139
1152 5687553016 283.13.149.361871
R9 34 5791414984 283.41.59.139.2153
1159 5715251296 2.5.7.53.1540499
R9 34 6263676710 2.5.23.89.157.1949
1176 598743035 383.5.7.151.41399
R9 34 6174745695 383.5.17.31.229.379
1287 6249563656 2.582.11.449.25307
R9 34 6460113956 2.582.29.89.113.443
1288 6255734656 2.582.11.1487.7649
R9 34 6447916556 2.582.29.61.269.271
1302 7720248712 283.11.2819.31121
R9 34 8077278488 283.37.107.181.1489
1329 8237844088 283.17.47.1288649
R9 34 8463859592 283.43.53.189.4259
1357 8628307636 282.13.17.79.123551
R9 34 8807350604 282.13.31.131.179.233
1376 8990017384 283.17.59.1120391
R9 34 9160333016 283.37.53.103.5669

AMICABLE PAIRS OF TYPE (4, 4):

165 32642324 282.11.13.149.383
L1 44 35985276 282.17.47.179.139
286 169335790 2.5.13.19.179.383
L1 44 179029010 2.5.23.59.79.167
294 180038452 282.11.19.31.6947
R9 44 193486028 282.23.29.47.1543
299 186878110 2.5.17.19.47.1231
R9 44 196323170 2.5.23.41.109.191
332 251302379 2.5.11.23.71.1399
R9 44 271244838 2.5.29.59.83.191
420 407641130 2.5.13.17.139.1327
R9 44 435691990 2.5.23.59.97.331
437 468122410 2.5.11.29.29.1487
R9 44 484817110 2.5.19.71.83.433
448 504555070 2.5.17.19.31.5039
R9 44 549539330 2.5.23.71.79.419
458 526552472 283.19.71.97.503
R9 44 549314728 283.41.83.89.223
476 586188070 2.5.13.41.71.1549
R9 44 594968339 2.5.19.29.83.1361
493 643006485 383.5.11.41.59.179
R9 44 663361515 383.5.23.29.53.139
505 677781140 282.17.227.337.443
R9 44 759308332 282.17.73.151.1613
534 802162790 2.5.11.13.167.3359
R9 44 904824730 2.5.47.89.91.223
546 856385272 283.23.29.383.419
R9 44 885518728 283.47.59.179.223
617 1112824370 2.5.7.59.227.1187
R9 44 1227440590 2.5.37.43.179.431
646 1249677832 283.23.67.167.687
R9 44 1250808866 283.31.37.271.503
746 1900666455 282.5.17.23.5427
R9 44 2258828649 382.7.11.83.173.227
756 197883070 2.7.5.23.97.12671
R9 44 2313824266 2.7.31.41.43.3823
759 1990129570 2.5.11.13.431.3229
R9 44 2229439870 2.5.37.67.139.647
646 249677832 283.23.67.167.687
R9 44 2508088866 283.31.37.271.503
746 1900666455 282.5.17.23.5427
R9 44 2574279218 2.7.37.41.53.2287
795 2220015735 383.5.7.79.131.227
R9 44 2402729865 383.5.31.37.59.263
807 2282361092 282.11.19.239.11423
R9 44 2323795708 282.13.23.127.15299
822 2410351540 282.5.83.887.1637
R9 44 2721279692 282.17.73.293.1871
826 2428835476 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 283.13.151.367.431
R9 44 2590502312 283.37.127.137.563
848 2614326776 283.17.61.79.3989
R9 44 27298081224 283.37.187.199.433
855 2682405256 283.19.167.131.1259
R9 44 2706362744 283.31.53.109.1889

TOTAL NUMBER: 24

R9 44	2859823810	2.5.17.59.239.1193	1400	9286443650	2.5E2.11.59.419.683	L1 X	105963638	2E4.29.41.557
R9 44	3425919850	2.5E2.17.103.109.359	R9 44	9949825150	2.5.E2.53.113.149.223	L1 X	11199112	2E3.53.61.433
R9 44	3468282550	2.5E2.29.59.71.571	R9 44	397848638	2.11.5.43.313.6287	L1 X	10634085	3E4.7.11E2.5.31
R9 44	3443251432	2E3.23.29.127.5081	R9 44	945161098	2.11.7.17.523.6967	L1 X	14084763	3.7.11E2.23.241
R9 44	3582105368	2E3.43.83.169.1151	R9 44	9344815064	2E3.13.59.659.2311	L1 X	11693290	2.7.5.167847
R9 44	3715799048	2E3.13.53.223.3023	R9 44	9881776936	2E3.67.79.189.2141	L1 X	12361622	2.7E2.13.31.31.31
R9 44	3965644792	2E3.71.97.167.431	R9 44	9449854312	2E3.19.71.139.6299	L1 X	11985504	2E5.13.28619
R9 44	3737773292	2E2.31.11.61.167.269	R9 44	9602145688	2E3.29.59.179.3919	L1 X	13337336	2E3.107.15581
R9 44	3821742868	2E2.31.17.53.79.433	TOTAL NUMBER:	63		L1 X	13671733	3.5.19.7E2.17.29.113
R9 44	3900906089	3E2.7.13.11.41.59.179				L1 X	15877065	3.5.19.17.29.113
R9 44	4024393191	3E2.11.13.23.29.53.139				L1 X	122368	289.239
R9 44	3925579070	2.5.7.89.191.3295				L1 X	123152	2E4.43.179
R9 44	4285876938	2.5.19.199.263.431				L1 X	141664	2E5.19.233
R9 44	3980355356	2.5E2.17.59.139.571				L1 X	153176	2E3.241.467
R9 44	4062879850	2.5E2.23.131.143.181				L1 X	288548	2E2.5.13E2.83
R9 44	4104895938	2.5.11.47.139.571				L1 X	365084	2E2.197.853
R9 44	4186986318	2.5.13.89.91.1583				L1 X	319550	2.7.5E2.11.83
R9 44	4280119305	3.5.7.11.59.167.587				L1 X	4384002	2.7.71.433
R9 44	4498673655	3.5.7.31.59.89.233				L1 X	469828	2E2.782.2393
R9 44	45018183	2.5.13.23.479.3191				L1 X	486178	2.7E2.11E2.41
R9 44	4669321570	2.5.11.37.127.5079				L1 X	802225	3.5E2.7.11.139
R9 44	4911030610	2.5.7.149.479.903				L1 X	863835	3.5.7.19.433
R9 44	5291673499	29.31.489.1439				L1 X	398712	2E5.37.743
R9 44	5648426630	2.5.13.23.563.2999				L1 X	901424	2E4.5.1663
R9 44	5164789370	2.5.17.31.349.2819				L1 X	1185376	2E5.17.2179
R9 44	5200086344	2E3.17.269.307.463				L1 X	1286744	2E3.41.3923
R9 44	5218199456	2E3.19.131.503.567				L1 X	1328470	2.5.11.13.929
R9 44	5493806252	2E2.13.17.239.2557				L1 X	1483850	2.5E2.59.503
R9 44	5424885928	2E2.11.23.521.10289				L1 X	1747930	2.5.47.3719
R9 44	5582884136	2E3.17.199.263.773				L1 X	1798875	3E3.5E3.13.41
R9 44	5532059864	2E3.31.53.89.4729				L1 X	1872045	3E2.5.13.23.139
R9 44	5546461305	3.7.11.5.47.83.1231				L1 X	663666850	2.5E2.31.13.179
R9 44	5898483591	3.7.11.13.17.43.2687				L1 X	3892670	2.5.31.29.433
R9 44	5892277512	2E3.13.17.199.223.1049				L1 X	714259750	2.5E3.11.1549
R9 44	6089474488	2E3.41.59.419.751				L1 X	4445050	2.5E2.19.4679
R9 44	5992992495	3E3.5.7.71.179.499				L1 X	51205953	3E2.5.19.53.113
R9 44	6448607505	3E3.5.19.47.149.359				L1 X	744684776	3E2.11E2.67.71
R9 44	6104216464	2E3.45.59.167.223.1041				L1 X	5162744	2E3.11.5171
R9 44	6130500176	2E4.101.127.167.179				L1 X	75230810	2.7.5.41.1823
R9 44	6146662545	3E2.5.17.19.53.79.181				L1 X	5799542	2.7E2.23.31.83
R9 44	6226506855	3E2.5.17.29.59.67.71				L1 X	78537625	3.7.13.5E3.157
R9 44	6287302312	2E3.19.29.881.1619				L1 X	58648719	3E2.7.13.11.631
R9 44	6572257688	2E3.41.89.149.1511				L1 X	609549176	2E3.17.137.293
R9 44	6710067096	2E3.13.59.79.13859				L1 X	5945264	2E5.83.2069
R9 44	7252812904	2E3.83.131.199.419				L1 X	68723552	2E2.11.37.41.109
R9 44	6960966212	2E2.19.11.37.139.1619				L1 X	7471568	2E2.11E2.43.359
R9 44	7517947388	2E2.19.53.83.113.199				L1 X	7800544	2E5.43.5669
R9 44	7872796115	3E2.5.7.11.709.2879				L1 X	7916696	2E3.17.58211
R9 44	8238666285	3E2.5.19.79.283.431				L1 X	94785052	2E4.37.89.149
R9 44	1272731585748	2E2.19.11.71.113.1691				L1 X	8052488	2E3.29.61.569
R9 44	7740482732	2E2.19.37.53.167.311				L1 X	10226925	3.5E2.7.13.19.71
R9 44	1356857844056	2E3.13.71.347.3347				L1 X	102719740	2E2.5.2982.31.197
R9 44	9940528424	2E3.53.61.431.811				L1 X	10791795	3.5.7.79.1301
R9 44	88044881305	3E3.5.11.37.191.839				L1 X	10941625	3E2.5E3.13.11.59
R9 44	8845601895	3E3.5.13.29.151.1151				L1 X	10950615	3E2.5.13.18719
R9 44	8960679970	2.5.11.41.683.2999				L1 X	10960950	2.5E2.13.89.167
R9 44	9986591710	2.5.17.37.71.28369				L1 X	10925290	2.5.11.91139
R9 44	9168950225	3.5E2.19.7.17.89.607				L1 X	10533296	2E4.19.34649
R9 44	10380656175	3.5E2.19.37.47.59.71				L1 X	10949704	2E3.29.109.433
			TOTAL NUMBER:	3				
			AMICABLE PAIRS OF TYPE (4,4):					
			511 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				
			R9 54 3731817772	2E2.23.31.89.14699				
			1322 8677248916	2E2.11.19.59.83.1973				
			R9 54 8637003884	2E2.17.23.1879.2939				
			1368 8694828788	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 9836011130	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	2E2.11.13.199.2327				
			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	2.5.23.31.103.327				
			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				
			EXOTIC AMICABLE PAIRS:					
			2 1184 2E5.37					
			L1 X 1210 2.5.11E2					
			5 6232 2E3.19.41					
			L1 X 6368 2E5.199					
			7 12285 3E3.7.13					
			L1 X 14595 3.5.7.139					
			13 79756 2.5E3.11.29					
			L1 X 88736 2.5.19.467					
			16 122368 2E2.29.239					
			L1 X 123152 2E4.43.179					
			17 141664 2E5.19.233					
			L1 X 153176 2E3.241.467					
			23 288548 2E2.5.13E2					
			L1 X 365084 2E2.197.853					
			25 319550 2.7.5E2.11.83					
			L1 X 4384002 2.7.71.433					
			28 469828 2E2.782.2393					
			L1 X 486178 2.7E2.11E2.41					
			30 802225 3.5E2.7.11.139					
			L1 X 863835 3.5.7.19.433					
			31 89712 2E5.37.743					
			L1 X 901424 2E4.5.1663					
			47 1185376	2E5.17.2179				
			L1 X 1286744 2E3.41.3923					
			49 1328470 2.5.11.31.929					
			L1 X 1483850 2.5E2.59.503					
			52 1466150 2.5E2.7.23.59.71					
			L1 X 1747930 2.5.47.3719					
			56 1798875 3E3.5E3.13.41					
			L1 X 1872045 3E2.5.13.23.139					
			66 3606850 2.5E2.31.13.179					
			L1 X 3892670 2.5.31.29.433					
			71 4259750 2.5E3.11.1549					
			L1 X 4445050 2.5E2.19.4679					
			72 4482765 3E2.5.19.7E2.107					
			L1 X 51205953 3E2.5.19.53.113					
			74 4684776 3E2.11.6E2.67.71					
			L1 X 5162744 2E3.11.5171					
			77 5232081 2.7.5.41.1823					
			L1 X 5799542 2.7E2.23.31.83					
			78 5357625 3.7.13.5E3.157					
			L1 X 5864879 3E2.7.13.11.631					
			80 549176 2E3.17.137.293					
			L1 X 5945264 2E5.83.2069					
			88 7275532 2E2.11.37.41.109					
			L1 X 7471568 2E2.11E2.43.359					
			93 7800544 2E5.43.5669					
			L1 X 7916696 2E3.17.58211					
			94 7850512 2E4.37.89.149					
			L1 X 8052488 2E3.29.61.569					
			102 9206925 3.5E2.7.13.19.71					
			L1 X 10791795 3.5.7.79.1301					
			106 9491625 3E2.5E3.13.11.59					
			L1 X 10950615 3E2.5.13.18719					
			107 9660950 2.5E2.13.89.167					

249	118458030	3E4.5.7.5.37.45737	L1 X	131819586	2.7E2.13.107.967	377	3185889262	2.7B2.11.13.127.179	L1 X	343312858	2.7.17.23.59.1063	529	769289955	3.5.7.E2.19.31.1777	L1 X	787384605	3.5.7.19.37.10667	647	1251532282	2.7.11E2.13.17.3343
250	120812175	3E3.5E2.11.53.387	L1 X	319682650	2.5B2.7.59.113.137	378	319682650	2.5B2.7.59.113.137	L1 X	807834886	2E5.61.163.2539	535	807834886	2E5.61.163.2539	R9 X	1438327814	2.7.11.9339791	650	126468685	2.5E2.17.53.67.419
R9 X	126671985	3E3.5.13.11.197.433	L1 X	382593839	2.5.6.11.367.1789	384	332448224	2E5.53.211.929	L1 X	819324494	2E6.1301.9839	538	821921625	3E2.5E3.7.29.59.61	R9 X	1317021110	2.5.17.61.89.1427	651	1272724250	2.7.5E3.727271
251	121293315	3E3.5.13.11.61.103	R9 X	332448224	2E5.53.211.929	384	332448224	2E5.53.211.929	R9 X	988676775	3E2.5E2.71.199.311	541	845397733	3.5.7E2.13.103.859	L1 X	1450162118	2.7.11.251.37517	656	1284672975	3E3.5E2.11.13.53.251
R9 X	138690045	3E2.5.13.383.619	R9 X	336290096	2E4.53.269.1483	386	334438875	3E4.53.17.29.67	R9 X	967557145	3.5.7.13.569.1117	R9 X	1550746485	3E3.5.41.503.557	657	1289325975	3.5E2.7E2.41.43.199			
252	127924335	3E2.5.7.11.36919	R9 X	336687845	3E4.5.17.59.883	389	346657311	3E2.7B2.13.11.23.239	R9 X	1045525275	3E2.5E2.89.109.479	549	869530725	3E2.5E2.7E3.19.593	R9 X	1323006825	3.5.82.7.29.113.769	659	1303670522	2.7.11.19.41.18867
253	131118975	3E2.5E2.13.23.1949	R9 X	370393569	3E2.7.13.17.37.719	395	359156770	2.7B2.5.83.8831	R9 X	402020318	2.7.17.37.71.643	560	912404925	3E2.5E2.13.17.59.311	R9 X	1325516932	2.7.11E2.19.41183	664	1323789356	2.5E2.13.67.113.269
R9 X	132926625	3E2.5E3.13.61.149	R9 X	402020318	2.7.17.37.71.643	396	360027675	3E2.5E2.19.7.53.227	R9 X	1015026716	2.7.19.1.191.128779	566	93931124	2E2.11.13E2.189.1151	R9 X	1401348738	2.5.29.37.61.2141	669	1348200032	2E5.59.461.1549
255	133089500	2E2.5E3.23.71.163	R9 X	402020318	2.7.17.37.71.643	397	433850085	3E2.5.19.557.911	R9 X	1015026716	2.7.19.1.191.128779	576	967807488	2E7.61.113.1097	R9 X	1401348738	2.5.29.37.61.2141	670	1357689836	2.5.1.107.189.1663
R9 X	176374564	2E2.383.115127	R9 X	402020318	2.7.17.37.71.643	399	362645570	2.7B2.5.643.1151	R9 X	1017818132	2E5.63.37.55997	577	967947856	2E4.19E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	676	1495846470	2.5.17.139.151.419
L1 X	133178325	3.5E2.7E3.31.167	R9 X	402020318	2.7.17.37.71.643	400	371840350	2.7.31.5E2.43.797	R9 X	1031796176	2E4.3847.16763	578	968416624	2E9.61.181.307	R9 X	1495846470	2.5.17.139.151.419	682	14958334432	2E5.53.73.11779
L1 X	133471275	3.5E2.7.31.159.139	R9 X	402020318	2.7.17.37.71.643	401	433850085	3E2.5.19.557.911	R9 X	1015026716	2.7.19.1.191.128779	578	967807488	2E7.61.113.1097	R9 X	1401348738	2.5.29.37.61.2141	687	151112765	3E2.5.7E2.47.14639
L1 X	134886465	3E4.5.7E3.971	R9 X	402020318	2.7.17.37.71.643	402	362645570	2.7B2.5.643.1151	R9 X	1017818132	2E5.63.37.55997	579	967979882	2.7.19.13.17.113.149	R9 X	14097735936	2.5.1.107.189.1663	690	1528657966	2E4.53.109.14669
L1 X	147382335	3E4.5.19.187.179	R9 X	402020318	2.7.17.37.71.643	403	371840350	2.7.31.5E2.43.797	R9 X	1031796176	2E4.3847.16763	580	967947856	2E4.19E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	693	1537689836	2.5.1.107.189.1663
261	136770075	3E2.5E2.13.19.23.107	R9 X	402020318	2.7.17.37.71.643	404	464106146	2.7B2.31.152767	R9 X	1031796176	2E4.3847.16763	581	968416624	2E9.61.181.307	R9 X	14097735936	2.5.1.11E2.31.107.349	697	1549846470	2.5.17.139.151.419
R9 X	155711205	2E5.5.13.17.197.1467	R9 X	402020318	2.7.17.37.71.643	405	394800078	2.7.5.41.151.911	R9 X	1031796176	2E4.3847.16763	582	967979882	2.7.19.13.17.113.149	R9 X	14097735936	2.5.1.11E2.31.107.349	700	1567112765	3E2.5.11.59.112.487
263	138605350	2.5E2.13E2.47.349	R9 X	402020318	2.7.17.37.71.643	406	43597882	2.7B2.13.191.1823	R9 X	1031796176	2E4.3847.16763	583	968416624	2E5.63.37.55997	R9 X	14097735936	2.5.1.11E2.31.107.349	701	1585667938	2.7.8E2.5.11.37.7951
R9 X	147313850	2.5E2.23.120899	R9 X	402020318	2.7.17.37.71.643	407	443597882	2.7B2.13.191.1823	R9 X	1031796176	2E4.3847.16763	584	9692776695	3E2.5.7E2.450239	R9 X	14097735936	2.5.1.11E2.31.107.349	702	159610265	3E2.5.13.11.61.4879
266	146648612	2E2.11.19E2.37.431	R9 X	402020318	2.7.17.37.71.643	408	447062255	3E2.5E2.13.11.73.199	R9 X	1031796176	2E4.3847.16763	585	9694945490	2.7E2.5.11E2.9.173	R9 X	14097735936	2.5.1.11E2.31.107.349	703	160110265	3E2.5.13.11.61.4879
R9 X	1690817308	2E9.19.23.90971	R9 X	402020318	2.7.17.37.71.643	409	49717185	3.5.11.61.131.379	R9 X	1031796176	2E4.3847.16763	586	9697888558	2.5E2.31.43.69.1773	R9 X	14097735936	2.5.1.11E2.31.107.349	704	1601454445	3.5.1.7.11.23.67.399
273	154190750	2.7E2.5E3.1.307	R9 X	402020318	2.7.17.37.71.643	410	419649364	2E2.13.11.83.889	R9 X	1031796176	2E4.3847.16763	587	9697888558	2.7.19.13.17.113.149	R9 X	14097735936	2.5.1.11E2.31.107.349	705	1610957875	3E2.5.17.7.101.359
R9 X	190889886	2E2.7E2.43.97.467	R9 X	402020318	2.7.17.37.71.643	411	426386025	3E5.5E2.13.5399	R9 X	1031796176	2E4.3847.16763	588	96979882	2.7.19.13.17.113.149	R9 X	14097735936	2.5.1.11E2.31.107.349	706	1616776566	2.7.31.13.29.61.167
277	157151410	2.5.13.1E3.23.311	R9 X	402020318	2.7.17.37.71.643	412	394800078	2.7.5.41.151.911	R9 X	1031796176	2E4.3847.16763	589	969945494	2.7E2.5.11E2.9.173	R9 X	14097735936	2.5.1.11E2.31.107.349	707	1620153558	2.5.1.7.11.23.67.399
R9 X	163634510	2.5.13.189.14143	R9 X	402020318	2.7.17.37.71.643	413	426684375	3E3.5E5.13.389	R9 X	1031796176	2E4.3847.16763	590	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	708	1627112765	3E2.5.11.59.112.487
283	166737550	2.5E2.7.359.1327	R9 X	402020318	2.7.17.37.71.643	414	467406225	3E2.5E2.13.11.73.199	R9 X	1031796176	2E4.3847.16763	591	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	709	1630983934	2.7.31.11.67.399
R9 X	188953978	2.5.23.829.991	R9 X	402020318	2.7.17.37.71.643	415	503412975	3.5E2.13.19.28859	R9 X	1031796176	2E4.3847.16763	592	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	710	1638667938	2.7.8E2.5.11.37.7951
285	169080448	2E9.71.4649	R9 X	402020318	2.7.17.37.71.643	416	506466956	2.5E2.13.21.021.2059	R9 X	1031796176	2E4.3847.16763	593	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	711	1649898550	2.7.8E2.5.11.37.7951
L1 X	173499952	3E4.5.23.8459	R9 X	402020318	2.7.17.37.71.643	417	534612975	3.5E2.13.23.569.1151	R9 X	1031796176	2E4.3847.16763	594	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	712	16549866926	2.7.31.61.83.953
L1 X	206790368	2E5.23.6462199	R9 X	402020318	2.7.17.37.71.643	418	552145832	2E3.13.17.29.26201	R9 X	1031796176	2E4.3847.16763	595	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	713	16601454445	3.5.1.7.11.23.67.399
306	200879055	3E3.5.13.17.6733	R9 X	402020318	2.7.17.37.71.643	419	579926204	2E2.7B2.11.167.467	R9 X	1031796176	2E4.3847.16763	596	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	714	16721688850	2.7.8E2.5.11.37.7951
L1 X	206393265	3E5.5.13.17.73.179	R9 X	402020318	2.7.17.37.71.643	420	604015025	3E3.5E2.269.3527	R9 X	1031796176	2E4.3847.16763	597	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	715	16752336461	3E2.5.7E2.11.17.19.7699
308	203855622	2.7.19.11.19.23.293	R9 X	402020318	2.7.17.37.71.643	421	626233995	3E7.5.41.11.127	R9 X	1031796176	2E4.3847.16763	598	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	716	1736119539	3E2.7E2.11.29.41.43
L1 X	210625758	2.7E2.19.31.41.89	R9 X	402020318	2.7.17.37.71.643	422	628610875	3.5.7.1.23.28779	R9 X	1031796176	2E4.3847.16763	599	10018990405	3E2.5.7E2.103.1627	R9 X	14097735936	2.5.1.11E2.31.107.349	717	1736119539	3E2.7E2.11.29.41.43
309	203972715	3E3.5.31.17.41.47.61	R9 X	402020318	2.7.17.37.71.643	423	63272165	3E3.5.41.23.31.163	R9 X	1031796176	2E4.3847.16763	600	100172508130	3.5.7.2E2.31.199.373	R9 X	14097735936	2.5.1.11E2.31.107.349	718	1736119539	3E2.7E2.11.29.41.43
L1 X	207425253	3E3.5E2.31.23.431	R9 X	402020318	2.7.17.37.71.643	424	630007455	3.5.7.2E1.11.29.2687	R9 X	1031796176	2E4.3847.16763	601	100172508130	3.5.7.2E2.31.199.373	R9 X	14097735936	2.5.1.11E2.31.107.349	719	1736109539	3E2.7E2.11.29.41.43
330	248658484	2E3.13.283.193919	R9 X	402020318	2.7.17.37.71.643	425	639778785	3.5.7.23.28779	R9 X	1031796176	2E4.3847.16763	602	100172508130	3.5.7.2E2.31.199.373	R9 X	14097735936	2.5.1.11E2.31.107.349	720	1736109539	3E2.7E2.11.29.41.43
W2 X	256201912	2E3.37.43.28129	R9 X	402020318	2.7.17.37.71.643	426	640001054	2.7B2.19.11.31247	R9 X	1031796176	2E4.3847.16763	603	10017722984	2E3.13.1913.5417	R9 X	14097735936	2.5.1.11E2.31.107.349	721	174252935	3E4.5.7E2.103.1627
R9 X	347397705	3E2.5.89.127.603	R9 X	402020318	2.7.17.37.71.643	427	642416866	2.7.19.13.37.5021	R9 X	1031796176	2E4.3847.16763	604</								

769	2043906130	2.5.7.E3.179.3329	923	3232160384	2E7.173.227.643	1046	4321518201	3E2.7E2.13.11.17.29.139	1155	5640198165	3E2.5.19.7E2.61.2207
R9 X	2271773878	2.5.29.73.239.449	R9 X	3282775456	2E5.229.347.1291	R9 X	5089774599	3E2.7E3.13.13.53.2393	R9 X	6532594155	3E2.5.19.47.162563
775	2083894785	3E2.5.7.E3.79.1709	924	3254018625	3E2.5E3.13.11.113.179	1051	4377238047	3E2.7.13.17.29.37.293	1157	5676646514	2.7.11E2.23.53.2749
R9 X	2184265215	3E2.5.11.37.239.499	R9 X	3737227455	3E2.5.13.479.13337	R9 X	4406635233	3E2.7.13.11E2.53.839	R9 X	5699641486	2.7E2.11.41.43.2999
794	2201899310	2.5.31.13.E3.53.61	925	3260154664	2E3.13E3.251.739	1053	4396263070	2.5.7E2.107.191.439	1161	5745724875	3E4.11.5E3.23.2243
R9 X	2387806938	2.5.31.29.265607	R9 X	3397181336	2B3.29.97.150959	R9 X	4964856770	2.5.31.131.179.683	R9 X	6453305397	3E4.11.7.67.15443
798	2223111345	3.5.7.13E3.23.419	934	3359556915	3.5..11.17.13E2.19.373	1066	458969390	2.5.11.13.167.19219	1162	5747841099	3E2.7.13.11E2.31.1871
R9 X	2383845455	3.5.7.19.251.4759	R9 X	3736589641	3.5..11B3.17.181.109	R9 X	5174685650	2.5E2.79.881.1487	R9 X	5852448693	3E5.7.13.23.37.311
818	2379899158	2.5B2.31.11.97.1439	940	3396934125	3E3.5B3.13.139.557	1069	4617085725	3E3.5B2.7.53.103.179	1168	5815260558	2.11.31.5B2.17.20063
R9 X	2659787298	2.5.31.83.167.619	R9 X	3427629875	3E3.5E2.13.167.2339	R9 X	5410843875	3E3.5E3.479.3347	R9 X	7082199674	2.11.31.37.43.61.107
819	2482498475	3E5.5E2.13.29.1849	950	3437187245	3E2.5..11E2.59.823	1078	4634941234	2.7.11.17.37.59.811	1169	5845926555	3E2.5.19.7.37.26399
R9 X	253745525	3E2.5E2.13.507.1499	R9 X	37433606595	3E3.5..13.617.59.823	R9 X	4962509096	2.7E2.13.47.179.463	R9 X	6674009445	3E3.5.19.439.5927
820	2492562825	3E2.5E2.13.17.19.2543	955	3445207395	3.5..7E2.19.29.47.181	1073	4702851046	2.7.23.11E2.17.31.229	1171	5857529672	2.7E3.13.11.29E2.71
L1 X	2764686455	3E2.5.13.92.5087	R9 X	3725301485	3.5..7..19.18E7.319	R9 X	5446976794	2.7.23.13.151.3863	R9 X	6785209522	2.7.13.239.389.401
825	2421696138	2.7B2.5..31.131.1217	957	3459581824	2E7.97.279639	1074	4709813710	2.5..7.1307.51479	1172	5864752630	2.5.11E2.53.109.839
R9 X	2865918052	2.7.13.1367.11483	R9 X	3503631776	2E5.139.773.1819	R9 X	4986547250	2.5E3.47.59.7193	R9 X	6000349774	2.5..11.2393.23099
828	2440775024	2E4.29.83.63379	959	3475340505	3E3.5..13E3.47.463	1077	4763730208	2E5.17.1949.4493	1175	5996679975	3E5.5E2.7.138899
L1 X	2510314336	2B5.557.140839	R9 X	4350149415	3E3.5..127.467.521	L1 X	5173851192	2E3.41.15773939	R9 X	6632100825	3..5E2.7.2777.4549
829	2440683588	2B2.11..13.63.51413	963	3554097085	3E3.5..13E3.23.521	1080	4785332175	3E5.5B2.13E2.59.779	1177	5987789665	3E2.5..13.11.79.11621
R9 X	2637996949	2B2.11E2.72.31.317	R9 X	3691095715	3E3.5..13.613.59159	R9 X	5126533425	3E2.5E2.13.479.3659	R9 X	6275865375	3E2.5E3.13.429111
832	2448784545	2.5B2.31..13.507.1499	964	3554318372	2E2.11B3.19.41.857	1083	4902570325	3E3.5B2.7.293.3469	1179	5935418265	3.5..7E2.19.47.9043
R9 X	2565186250	2.5B2.31..13.89.3719	R9 X	381620188	2E2.11..103.84549	L1 X	5317615275	3..5E2.7.139.72869	R9 X	5941886055	3.5..7.19.37.101.797
834	2481907338	2.5..7E2.263.19259	968	3692372595	3.5..19.7E2.29.47.499	1084	4939564015	3E3.5..13.11.61.12329	1182	5945041303	2E3.17.37E3.861
L1 X	2734933318	2.5..17.1319.2197	R9 X	4276947405	3.5..19.21.29.149.151	R9 X	5177919825	3E2.5E2.13.359.4931	R9 X	6199515496	2E3.23.821.41039
838	2502894550	2.5B2.43.13.149.601	971	3647464821	3E2.713.11..23.29.607	1085	484212186615	3E3.5..7E2.359.2039	1186	60001753725	3E5..5E2.11.19.29.163
R9 X	2670211850	2.5B2.43.79E2.199	R9 X	4801677899	3E2.7E2.13.31.47.479	R9 X	5204405385	3E3.5..23.37.89.509	R9 X	7322393475	3E2.5E2.7.291.491.839
846	2611143964	2B2.11..13E2.51.1399	978	3685361368	2E3.13E2.47.59.983	1094	4931246565	3E2.5..7E2.29.67.1151	1195	6184279475	3E4..5E2.7.499.863
R9 X	2812897636	2B2.17.29.167.8539	R9 X	4993749932	2E3.79.2231.2927	R9 X	551709115	3E2.5..11.683.1631	R9 X	6859176522	3E3..5E2.53.189.1759
847	2612831949	3E2.7E2.13.19.17E2.83	988	3797392550	2.5E2.7.107.101399	1097	4966585125	3E3.5B3.31..17.2789	1196	6167550855	3.5..7E2.19.41.10667
L1 X	2737662291	3E2.7E2.13..19.41.613	L1 X	4930810250	2.5E3.1..19.46779	R9 X	50673447445	3E3.5B2.31..23.10529	R9 X	6151261305	3..5..7E2.19E2.97.239
849	2624170185	3E2.7.13..5.53.107.113	991	3833109374	2E7.71.197.2141	1100	4999722525	3E2.5B2.7.17.29.47.137	1201	6155750473	3E2..5E2.7.23.109.1559
R9 X	3183941943	3E2.7E2.13..127.47373	R9 X	3953660384	2E5.2753.44879	R9 X	65332995615	3E2.5..5B2.13.59.2851	R9 X	712171123	3E2..5B3.59.61.1759
853	2671748959	2.5B2.31..13.17.1979	993	3848313645	3E4..5..11E5.59	1102	5032995345	3E2.5..13E2.61.19..571	1209	6261264590	2.5..7E2.149.191.7149
R3 X	2937982018	2.5..31.43.433.509	R9 X	3868601715	3E4..5..11E2.89.887	L1 X	5091357375	3E2.5..13E2.61..439	R9 X	7035695410	2.5..37..53.499.7109
857	2702347278	2.7.5..16E7.24923	1000	3985322225	3..5E2.7.19.53.83.89	1103	5047972690	2.5..11..37..743.1669	1211	6397019750	2.5E3..11..19.191.641
R9 X	2664579798	2.7.17..17.29E2.31.461	R9 X	4194159375	3..5E5..7.79.809	R9 X	5151283105	2..5B2.17..191.31729	R9 X	7447992730	2.5..31..3209.7487
873	2828726518	2..7E2.5..113.6323	1003	3949466848	2E7.211..349.419	1105	5066442170	2.5..7E2.31..79.4217	1227	6559115488	2E5..5..281.13763
R9 X	3711610882	2.7..53..13..44267	R9 X	3997413152	2E5..139..499.1801	R9 X	601833879150	2.5..7..113..72959	R9 X	6454578608	2E4..41..971..10433
874	2844843776	2B2.19.13E2.37.43.139	1004	3956965155	3E3..5..11..13E2.15767	1108	5088396839	2.5..7..13..1319..7873	1229	6575984876	2E2..19..41..11E2..107..163
R9 X	3156691844	2.5B2.19..41.151.679	R9 X	4353401565	3E3..5..17..21..26717	R9 X	5575517050	2..5E2..37..11E7..2539	R9 X	7255697604	2E2..19..41..113..20663
883	2896764608	2B6..55..83.9999	1005	3961085625	3E3..5B4..7..33533	1110	5118127498	2.5..3..17..167..11833	1231	6577938365	2.5..3..17..167..2121
L1 X	2959967392	2B5..199..464819	R9 X	4419731655	3E3..5..17..13..14057	R9 X	5766821374	2.7..1..18..2..467..6983	R9 X	7412119497	3E5..7E2..11..56591
893	2963075535	3E2..5..13E2..31..29..433	1007	3971606470	2.5..13E2..17..138239	1114	5164511625	3E2..7..13..5E3..61..827	1237	6741318350	2..5E2..13..89..116531
R9 X	2986743825	3E2..5E2..13..31..32939	R9 X	4224916910	2.5..19..71..107.2927	R9 X	6495742071	3E2..7..13..103..7003	L1 X	6913901410	2..5..13..53..1003469
897	2995759738	2.5..7E2..1223..4999	1010	4000783984	2E4..43..113..51461	1120	5228978728	2E3..1762..53..139..307	1246	6794712832	2E8..89..298223
R9 X	3283369278	2.5..29..37..305999	L1 X	4001351160	2E9..1367..5717	R9 X	5493671672	2E3..41..89..307..613	R9 X	6920689928	2E5..227..653..1459
900	3000833115	3.5..7..17..19..23..3847	1014	4029872075	3E2..5E2..7..19..134639	1123	5296175750	2..5B3..17..29..97..443	1248	6862936275	3E3..5E2..13..29..149..181
R9 X	3382537125	3..5B3..11..47..73..239	R9 X	4652515125	3E3..5B3..109..12647	R9 X	5700176890	2..5..19..83..181..1997	R9 X	7354983725	3E2..5E2..13..583..4999
908	3054330279	3E2..7E3..13..11E2..17..37	1017	4049815250	2..5E3..13..43..28979	1124	5301374925	3..5B2..11..7E2..19..659	1250	689105052	2E5..29..2053..3617
R9 X	3568431321	3E3..7E2..13..207479	L1 X	4384770990	2..5..13..857..36339	R9 X	589437075	3..5B2..11..23..113..2749	R9 X	7154242552	2E3..23E2..971..1741
911	3101299916	2B2..11..13..113..47981	1020	4063895406	2E4..19E2..449..1567	1133	5442123375	3E3..5B3..13..71..1747	1251	6898979516	2E2..11..13E2..269..3449
R9 X	3331358932	2B2..11E2..263..26171	R9 X	4269946192	2E4..179..839..1777	R9 X	5552656785	3E3..5..13..37..233..367	R9 X	7420038484	2E2..17..29..149..25253
912	3105174904	2B3..13E2..2296727	1025	4109466950	2..5E2..31..17..83..1879	1135	5444435745	3E2..5..7..61..67..4229	1254	6943893957	3E2..7..13..19..11..13..359
R9 X	3199343456	2B5..19..97..91..39	R9 X	4349991610	2..5..3..1..23..433..1409	R9 X	5683788575	3E2..5E2..11..563..4079	R9 X	7397123643	3E2..7E2..13..19..59..1151
916	3135932032	2B7..101..107..2267	1027	4141715570	2..5..19..23E2..89..463	1138	5455059448	2E3..127..19E2..107..139	1265	7143425289	3E3..7..13..11..113..2339
R9 X	3235061408	2B5..3671..27539	R9 X	4171865230	2..5..13..47..157..4349	R9 X	5605522952	2E3..127..41..53..2539	R9 X	715975231	3E3..7E2..13..17..103..239
917	3138655965	3..5..7E2..13..29..47..241	1032	4152981844	2B2..11E2..23..53..7039	1139	5477707264	2E9..59..149..1217	1266	7148883170	2..5..11..13..89..56171
R9 X	31353433895	3..5..7..4..1..13..6269	R9 X	4341313196	2E2..11..43..797..2879	R9 X	5736418736	2E4..131..1049..2609	R9 X	8138888350	2..5E2..179..251..3623
918	3143417344	2B9..89..191..683	1038	4242143750	2..5E5..13..109..479	1148	5575354850	2..5E2..13..17..83..6079	1269	7274734155	3E2..5..13..19..53E2..233
R9 X	3280122416	2E4..113..659..2753	R9 X	4419801850	2..5E2..19..1567..2969	R9 X	6393879070	2..5..41..139..151..743	R9 X	7356799125	3E2..5E3..13..41..12269

1273	7319982604	2E2.11E2.17.389.2287	1370	8924047490	2.5.17.19.521.5303
R9 X	7633515956	2E2.11.41.659.6421	R9 X	98178050750	2.583.17.271.7829
1275	7336299285	3E2.5.7.19.443.2767	1371	8935581375	3E2.5E3.7.53.79.271
R9 X	8001520075	3E3.5E3.47.73.691	R9 X	10128267585	3E2.5.19.47.183.2447
1277	7347995392	2B8.269.106703	1374	8971549180	2E2.5.11.2963.13763
L1 X	7373955488	2E5.71.3245579	R9 X	11589848864	2E2.151.211E2.431
1281	7438796945	3E2.5.13.11E2.113.929	1380	9018517725	3E4.5E2.7.349.1823
R9 X	7967123775	3E2.5E2.13.569.4787	R9 X	10138589475	3.5E2.7.19311599
1284	7482418325	3E2.5E2.13.31.179.461	1384	9075291470	2.7E2.5.23.43.61.307
R9 X	7531628715	3E2.5.13.31.29.14321	R9 X	11614384306	2.7.41.113.241.743
1287	7523483030	2.5.7E2.53.271.1869	1390	9153086085	3E2.5.13.11.37E2.1039
R9 X	8601297138	2.5.37.71.327419	R9 X	10021735035	3E2.5.13.47.389.937
1288	7534469228	2E2.19.11.13.761.911	1391	9159365024	2E5.53.241.22489
R9 X	8810613652	2E2.19E2.227.26879	L1 X	9290429416	2B3.17.4157.16433
1289	7562801950	2.5E2.11.2099.6551	1394	9205801010	2.5.7E3.109.24623
L1 X	7792465250	2.5E3.19.16E40519	R9 X	102964606990	2.5.37.53.191.2749
1291	7579753125	3.5E5.7.19.6079	1398	9262239258	2.5E3.11.1783.1889
R9 X	7619274075	3.5E2.7.19.419.1823	R9 X	9673564916	2.5.17.47.181.6689
1293	7592918975	3E3.5E2.13.43.20123	1399	9271316500	2E2.5E3.53.271.1291
R9 X	7778605185	3E2.5.13.43.29.10663	R9 X	11451453932	2E2.47.101.683.883
1305	7780806675	3.5E2.7.17.149.5851	1405	9357224877	3E2.7E3.13.11E2.41.47
R9 X	7893190725	3.5E2.7E2.43.199.251	R9 X	1616293523	3E5.7E3.13.83.113
1309	7822669778	2.7E2.11.19.167.2287	1409	9490622048	2E5.61.4961999
R9 X	7952449582	2.7.11.19.131.20747	L1 X	9508349952	2B9.4079.4549
1311	7900303198	2.5.31.13.619.3167	1411	9549021568	2E7.37.101.19963
R9 X	7938683050	2.5E2.31.47.59.1847	R9 X	10182996752	2E4.9E43.70379
1318	8006813199	3E3.7E2.11.23.1259	1417	9818506568	2E3.13E2.29.179.1399
R9 X	8548514801	3E3.7.19.13.113.1619	R9 X	10933693432	2E3.89.1049.14639
1320	8052147896	2E3.13.509.152111	1420	9844469775	3E2.5E2.7.23.9.9371
R9 X	8239847304	2E3.23.97E2.4759	R9 X	11910566385	3E2.5.19.991.14057
1323	8119394458	2.5E2.31.19.23.11987	1423	98806559085	3E2.5.7.17.233.7919
R9 X	9005223798	2.5.31.13.101.3719	R9 X	10935385875	3E2.5E3.19.431.1107
1333	8269106625	3E2.13E2.31.61.5E3.23	L1 X	9402333759	3E2.13E2.31.61.7.467
R9 X	8279312030	2.5.11.37.881.2389	TOTAL NUMBER:	345	
1335	8293831330	2.5.11E2.1187.5879	R9 X	8443831330	2.5.11E2.1187.5879
1337	8293896650	2.5E2.13.89.307.467	R9 X	8557778500	2E2.5E2.13.89.307.467
R9 X	8596897278	2.5.13.131.181.2789	R9 X	8647262505	3E4.5.13E2.17.19.383
1342	8376676490	2.7.5.13.19E2.43.593	R9 X	8699827415	3E4.5.31.487.1619
R9 X	11698208566	2.7.9E7.8E4167	R9 X	871203916	2E2.13.83.227.9463
1344	8455838230	2.7.5.97.911.1367	R9 X	9150518762	2.7.11E2.83.151.431
R9 X	9150518762	2.7.11E2.83.151.431	R9 X	8459517832	2B3.1783.31.53.131
1345	8459517832	2B3.1783.31.53.131	R9 X	9400398968	2E3.79.2087.7127
R9 X	9400398968	2E3.79.2087.7127	R9 X	8467262505	3E4.5.13E2.17.19.383
1346	8467262505	3E4.5.13E2.17.19.383	R9 X	9899827415	3E4.5.31.487.1619
R9 X	9899827415	3E4.5.31.487.1619	R9 X	8491739828	2B2.13.11E2.103.13103
1348	8491739828	2B2.13.11E2.103.13103	R9 X	9271203916	2E2.13.83.227.9463
R9 X	9271203916	2E2.13.83.227.9463	R9 X	8502526305	3E2.7E2.13.5.47.6311
1349	8502526305	3E2.7E2.13.5.47.6311	R9 X	10355911839	3E2.7.13.53.227.1051
R9 X	10355911839	3E2.7.13.53.227.1051	R9 X	8557778500	2E2.5E2.13.89.307.467
1355	8557778500	2E2.5E2.13.89.307.467	R9 X	10355967452	2E2.23.9371.12011
R9 X	10355967452	2E2.23.9371.12011	R9 X	8676652328	2B3.19E2.47.97.659
1361	8676652328	2B3.19E2.47.97.659	R9 X	9066365272	2B3.43.59.587.761
R9 X	9066365272	2B3.43.59.587.761	R9 X	8717951385	3E2.5.13.37.223.1949
1362	8717951385	3E2.5.13.37.223.1949	R9 X	9407501415	3E2.5.13.37.223.1949
R9 X	8850661358	2.7E2.19.11.66.719	R9 X	8937716242	2.7.19.13.89.113.257
1366	8850661358	2.7E2.19.11.66.719	R9 X	8851379872	2B7.29.433.5587
R9 X	8851379872	2B7.29.433.5587	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	2	278									
4	67		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	578	586
			632	645	721	738	748	750	763	776	808	887
			811	822	842	846	852	867	877	909	928	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	49	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
			156	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
			588	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	218
			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
			1864	1866	1874	1893	1183	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	76	11	207	269	543	565	569	816	874	1071	1255	1277			
		63	68	86	118	121	156	158	164	169	175		92	4	9	200	515	612								
		179	185	193	216	231	232	248	257	261			98	6	28	273	585	711	1089	1165						
		284	285	288	307	320	322	326	327	336	351			105	24	7	38	102	136	282	295	310	489	490		
		365	366	381	385	390	397	407	429	433	434				555	601	679	683	693	733	779	798	917	965		
		435	445	450	453	454	474	486	487	509	514				1022	1040	1203	1379								
		527	536	545	556	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	983	906	918	930	945	951	958	962	966															
		978	1086	1810	1016	1020	1021	1035	1036	1041	1059															
		1075	1086	1895	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		130	16	87	166	277	449	466	592	691	736	784	865	
		287	324	335	344	346	352	371	380	411	413			1017	1158	1237	1337	1401	1482							
		419	439	456	457	468	471	477	535	540	568			135	47	11	41	82	145	152	171	189	215	221	224	
		595	616	655	686	694	710	757	761	827	856				225	319	354	372	391	409	418	481	484	493		
		866	870	883	916	923	948	956	957	960	979				518	539	590	604	613	656	666	675	728	754		
		991	1003	1058	1067	1072	1118	1122	1163	1166	1178				772	795	921	959	963	1004	1005	1034	1037	1085		
		1210	1223	1242	1246	1277	1308	1310	1341	1343	1368				1174	1176	1185	1189	1347	1363	1372					
		1382	1382	1383	1388	1395	1396	1409						136	5	996	1212	1233	1294	1298						
44	37		22	88	211	262	304	388	398	428	566	572		148	2	444	987									
		596	683	608	624	662	697	752	758	770	823			152	16	125	360	436	559	608	895	812	831	879	895	
		829	868	892	911	914	915	932	964	989	998				1002	1091	1300	1324	1412	1426						
		1032	1092	1101	1273	1303	1321	1330						154	16	168	394	421	618	626	638	647	649	653	804	
		342	465	497	618	687	775	777	885	1094	1100				872	898	986	1082	1157	1359						
45	26		14	108	132	141	214	220	252	265	301	331		165	2	96	414									
		1135	1258	1275	1371	1420	1423							178	13	205	340	393	426	511	650	732	783	844	1216	
		1838	1096	1107	1131	1190	1204	1207	1208	1230	1289				1262	1264	1370									
		1295	1340	1400										182	4	160	172	338	1171							
		133	195	271	422	473	499	504	562	634	997			184	6	431	704	774	781	943	1136					
		1319	1348	1357										190	10	680	740	861	938	1012	1068	1098	1151	1276	1286	
63	2	746	931											212	2											
64	22		92	197	464	526	594	611	638	641	801	886		225	10	548	619									
		891	902	987	1015	1076	1156	1245	1283	1286	1315			230	1	85	157	167	518	538	549	1014	1186	1188	1201	
		1331	1413											231	1		905									
		362	402	485										232	3	1144										
																181	537	1944								

SUPPLEMENT

236	1	1301
238	2	234 1414
248	4	276 392 753 1421
250	1	588
255	1	705
256	4	520 556 792 1052
266	8	308 368 491 582 602 734 749 1366
273	1	78
285	2	123 968
286	1	764
290	2	191 1422
296	3	151 183 1220
310	11	66 204 730 794 818 839 853 1025 1099 1311 1323
315	13	162 236 254 472 584 700 813 817 833 1140 1145 1197 1351
322	1	1873
328	1	936
376	1	557
405	5	259 379 663 724 1346
424	2	747 1234
434	5	483 496 709 714 1024
465	1	622
484	2	712 884
488	2	576 890
495	4	516 533 593 1410
512	1	1259
518	1	517
525	17	410 521 628 657 688 789 878 939 1000 1083 1158 1173 1175 1225 1305 1380 1385

530	1	1386
548	1	1304
574	1	1047
585	41	15 30 48 56 106 114 137 138 173 178 188 203 251 261 290 302 334 560 607 667 703 787 726 820 824 862 924 927 950 984 1061 1084 1147 1177 1206 1269 1281 1325 1362 1375 1390
592	1	478
632	1	1018
664	1	564
678	1	243
675	15	147 202 462 506 554 614 642 684 841 889 1813 1069 1195 1217 1389
682	1	1168
688	3	369 1031 1081
692	1	944
693	5	176 321 424 715 1239 235 355 415 1029
735	4	965
765	3	1143 1200 1317
776	1	1314
798	1	677
808	1	977
819	19	12 170 222 389 698 719 767 780 786 849 949 971 998 1045 1051 1114 1162 1349 1381
825	2	1050 1124
848	2	384 1306
850	1	635
855	7	50 72 329 396 482 1155 1169
884	1	291
891	3	416 935 1161

5296	1	503
5535	2	488 766
5733	10	46 270 312 501 532 908 928 1039 1046 1109
6237	1	1290
6622	1	1121
6885	3	386 791 1327
6975	1	1088
7030	1	1271
7564	1	367
7605	1	524
8775	2	425 940
9009	3	260 695 743
9290	1	1009
9405	1	1418
9975	2	1057 1291
11115	2	297 495
11475	1	689
13041	1	785
13330	1	581
13923	1	1232
13965	2	1196 1387
14355	1	994
14445	1	741
14535	1	1224
14553	1	768
15561	2	1254 1312
15795	1	1358
16245	1	364
16275	1	256

	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		