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

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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

$$(220, 284) = (2^2 5.11, 2^2 71).$$

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

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

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

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

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

Now we describe an efficient algorithm to check whether a given positive integer m belongs to an AP (m, n) with $m < n$. This algorithm is based on the observation that when, for given γ and N, we want to verify one of the relations $\sigma(N)/N > \gamma$, $= \gamma$, $< \gamma$, and when the primes $2, 3, \ldots, p$ 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 $p_1, p_2, \ldots \leqslant m_2^{1/2}$. In case a prime power divisor p_{i-1}^e $(e \geqslant 1)$ 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 $4 \leqslant i \leqslant i_{\max}$, 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 $\alpha \geqslant 2$, 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 $p_1, p_2, \ldots \leqslant n_2^{1/2}$. In case a prime power divisor p_{i-1}^e $(e \geqslant 1)$ 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

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

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 $4 \leqslant i \leqslant i_{\max}$ 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 $10^8 < m \leqslant 10^{10}$ (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 $3 | M$ and $10^8 < m \leqslant 10^{10}$, 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 $10^8 < m \leqslant 10^{10}$ 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 $20 = 2^2 5$, $28 = 2^2 7$, $70 = 2.5.7$ and $88 = 2^3 11$. 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 $10^8 < m \leqslant 10^{10}$ 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 $10^8 < m \leqslant 10^{10}$ was 1191. In Appendix I (of the supplements section) all the APs with smaller member $\leqslant 10^{10}$ are given (including the 236 APs with smaller member $\leqslant 10^8$). For each pair we list the decimal representation and the prime factorization of the members, a rank number, a code (letter plus digit) referring to the discoverer, and the type of the pair (defined below). For example, pair #1427 reads as follows:

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

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

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

TABLE 1

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

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 $\leqslant 10^{10}$. It is easy to see that there are no regular pairs of type $(1, j)$, $j \geqslant 1$: 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 $(i, 1)$, $i \geqslant 2$, and of type (i, j) with $i < j$.

In [7] the total number of known APs with smaller member $\leqslant 10^{10}$ 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 $\leqslant 10^{10}$, 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 $(i, 1)$, $i \geqslant 2$, 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), $i \geqslant 2$, $j \geqslant 1$

$i =$	$j =$ 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.* □

Regular APs of type $(i, 1)$, $i \geqslant 2$, 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.* □

The proof of this theorem is left to the reader.

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

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

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

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) #1031, type (2,2) #1081, type (2,2)	#899, type (3,2) #1057, 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	29	31	37
32	35	1296000	7	4	3									
105	109	20528640	9	6	1		1							
137	138	37739520	10	4	1	1		1						
172	173	75479040	11	4	1	1		1						
272	276	321408000	10	4	3								1	
282	286	348364800	13	5	2	1								
350	351	556839360	6	6	1	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		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					
786	787	4716601344	13	2		1		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 $\leqslant 10^{10}$ 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 $\leqslant 37$. 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 $3^2 7.13$, 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 $3^6 5.23.137.547.1093$, and by $3^{10} 5.23.107.3851$.

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

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

By H. J. J. te Riele

Appendix I

The first 1427 APs

```
      1 220 2E2.5.11     3D
Ll 21 284 2E2.71
      2 1184 2E5.37
Ll X  1210 2.5.11E2
      3 2620 2E2.5.131
Ll 22 2924 2E2.17.43
      4 5020 2E2.5.251
Ll 22 5564 2E2.13.107
      5 6232 2E3.19.41
Ll X  6368 2E5.199
      6 10744 2E3.17.79
Ll 22 10856 2E3.23.59
      7 12285 3E3.5.7.13
Ll X  14595 3.5.7.139
      8 17296 2E4.23.47
Ll 21 18416 2E4.1151
      9 63020 2E2.23.5.137
Ll 21 76084 2E2.23.827
     10 66928 2E4.47.89
Ll 22 66992 2E4.53.79
     11 67095 3E3.5.7.71
Ll 22 71145 3E3.5.17.31
     12 69615 3E2.7.13.5.17
Ll 21 87633 3E2.7.13.107
     13 79750 2.5E3.11.29
Ll X  88730 2.5.19.467
     14 100485 3E2.5.7.11.29
Ll 32 124155 3E2.5.31.89
     15 122265 3E2.5.13.11.19
Ll 21 139815 3E2.5.13.239
     16 122368 2E9.239
Ll X  123152 2E4.43.179
     17 141664 2E5.19.233
Ll X  153176 2E3.41.467
     18 142310 2.5.7.19.107
Ll 32 168730 2.5.47.359
     19 171856 2E4.23.467
Ll 22 176336 2E4.103.107
     20 176272 2E4.23.479
Ll 22 180848 2E4.89.127
     21 185368 2E3.17.29.47
Ll 32 203432 2E3.59.431
     22 196724 2E2.11.17.263
Ll 22 202444 2E2.11.43.107
     23 280540 2E2.5.13E2.83
Ll X  365084 2E2.107.853
     24 308620 2E2.5.13.1187
Ll 32 389924 2E2.43.2267
     25 319550 2.7.5E2.11.83
Ll X  430402 2.7.71.433
     26 356408 2E3.13.23.149
Ll 32 399592 2E3.199.251
     27 437456 2E4.19.1439
Ll 22 455344 2E4.149.191
     28 469028 2E2.7E2.2393
Ll X  486178 2.7E2.11E2.41
     29 503056 2E4.23.1367
Ll 22 514736 2E4.53.607
     30 522405 3E2.5.13.19.47
Ll 22 525915 3E2.5.13.29.31

     31 600392 2E3.13.23.251     6D
Ll 32 669688 2E3.97.863
     32 609928 2E3.11.29.239
Ll 32 686072 2E3.191.449
     33 624184 2E3.11.41.173
Ll 32 691256 2E3.71.1217
     34 635624 2E3.11.31.233
Ll 32 712216 2E3.127.701
     35 643336 2E3.29.47.59
Ll 32 652664 2E3.17.4799
     36 667964 2E2.11.17.19.47
Ll 43 783556 2E2.31.71.89
     37 726104 2E3.17.19.281
Ll 32 796696 2E3.53.1879
     38 802725 3.5E2.7.11.139
Ll X  863835 3.5.7.19.433
     39 879712 2E5.37.743
Ll X  901424 2E4.53.1063
     40 898216 2E3.11.59.173
Ll 32 980984 2E3.47.2609
     41  947835 3E3.5.7.17.59
Ll 32 1125765 3E3.5.31.269
     42  998104 2E3.17.41.179
Ll 32 1043096 2E3.23.5669
     43 1077890 2.5.11.41.239
Ll 33 1099390 2.5.17.29.223
     44 1154450 2.5E2.11.2099
Ll 22 1189150 2.5E2.17.1399
     45 1156870 2.5.11.13.809
Ll 32 1292570 2.5.19.6803
     46 1175265 3E2.7E2.13.5.41
Ll 21 1438983 3E2.7E2.13.251
     47 1185376 2E5.17.2179
Ll X  1286744 2E3.41.3923
     48 1280565 3E2.5.13.11.199
Ll 22 1340235 3E2.5.13.29.79
     49 1328470 2.5.11.13.929
Ll X  1483850 2.5E2.59.503
     50 1358595 3E2.5.19.7.227
Ll 22 1486845 3E2.5.19.37.47
     51 1392368 2E4.17.5119
Ll 22 1464592 2E4.239.383
     52 1466150 2.5E2.7.59.71
Ll X  1747930 2.5.47.3719
     53 1468324 2E2.11.13.17.151
Ll 43 1749212 2E2.37.53.223
     54 1511930 2.5.7.21599
Ll 23 1598470 2.5.19.47.179
     55 1669910 2.5.11.17.19.47
Ll 42 2062570 2.5.239.863
     56 1798875 3E3.5E3.13.41
Ll X  1870245 3E2.5.13.23.139
     57 2082464 2E5.59.1103
Ll 22 2090656 2E5.79.827
     58 2236570 2.5.7.89.359
Ll 33 2429030 2.5.23.59.179
     59 2652728 2E3.13.23.1109
Ll 32 2941672 2E3.71.5179
     60 2723792 2E4.37.43.107
Ll 32 2874064 2E4.263.683
```

	61	2728726	2.7.11.13.29.47	7D
Ll	43	3077354	2.7.19.23.503	
	62	2739704	2E3.11.163.191	
Ll	32	2928136	2E3.31.11807	
	63	2802416	2E4.17.10303	
Ll	22	2947216	2E4.167.1103	
	64	2803580	2E2.5.13.41.263	
Ll	42	3716164	2E2.503.1847	
	65	3276856	2E3.11.23.1619	
Ll	32	3721544	2E3.647.719	
	66	3606850	2.5E2.31.13.179	
Ll	X	3892670	2.5.31.29.433	
	67	3786904	2E3.11.23.1871	
Ll	32	4300136	2E3.467.1151	
	68	3805264	2E4.29.59.139	
Ll	32	4006736	2E4.179.1399	
	69	4238984	2E3.17.71.439	
Ll	33	4314616	2E3.23.131.179	
	70	4246130	2.5.7.60659	
Ll	23	4488910	2.5.23.29.673	
	71	4259750	2.5E3.11.1549	
Ll	X	4445050	2.5E2.19.4679	
	72	4482765	3E2.5.19.7E2.107	
Ll	X	5120595	3E2.5.19.53.113	
	73	4532710	2.7.5.13.17.293	
Ll	42	6135962	2.7.71.6173	
	74	4604776	2E3.11E2.67.71	
Ll	X	5162744	2E3.113.5711	
	75	5123090	2.5.7.163.449	
Ll	33	5504110	2.5.19.59.491	
	76	5147032	2E3.11.23.2543	
Ll	32	5843048	2E3.383.1907	
	77	5232010	2.7.5.41.1823	
Ll	X	5799542	2.7E2.23.31.83	
	78	5357625	3.7.13.5E3.157	
Ll	X	5684679	3E2.7.13.11.631	
	79	5385310	2.5.7.107.719	
Ll	33	5812130	2.5.17.179.191	
	80	5459176	2E3.17.137.293	
Ll	X	5495264	2E5.83.2069	
	81	5726072	2E3.11.31.2099	
Ll	32	6369928	2E3.79.10079	
	82	5730615	3E3.5.11.17.227	
Ll	33	6088905	3E3.5.23.37.53	
	83	5864660	2E2.5.17.47.367	
Ll	42	7489324	2E2.53.35327	
	84	6329416	2E3.23.41.839	
Ll	33	6371384	2E3.19.167.251	
	85	6377175	3E2.5E2.7.4049	
Ll	22	6680025	3E2.5E2.11.2699	
	86	6955216	2E4.19.137.167	
Ll	31	7418864	2E4.463679	
	87	6993610	2.5.13.23.2339	
Ll	22	7158710	2.5.13.53.1039	
	88	7275532	2E2.11.37.41.109	
Ll	X	7471508	2E2.11E2.43.359	
	89	7288930	2.11.5.23.43.67	
Ll	43	8221598	2.11.7.197.271	
	90	7489112	2E3.17.53.1039	
Ll	33	7674088	2E3.23.179.233	
	91	7577350	2.5E2.11.23.599	7D
Ll	32	8493050	2.5E2.59.2879	
	92	7677248	2E6.139.863	
Ll	22	7684672	2E6.167.719	
	93	7800544	2E5.43.5669	
Ll	X	7916696	2E3.17.58211	
	94	7850512	2E4.37.89.149	
Ll	X	8052488	2E3.29.61.569	
	95	8262136	2E3.17.79.769	
Ll	33	8369864	2E3.29.43.839	
	96	8619765	3.5.11.7.17.439	
Ll	33	9627915	3.5.11.23.43.59	
	97	8666860	2E2.5.23.83.227	
Ll	43	10638356	2E2.47.71.797	
	98	8754130	2.5.7.11.11369	
Ll	32	10893230	2.5.757.1439	
	99	8826070	2.5.11.19.41.103	
Ll	43	10043690	2.5.31.179.181	
	100	9071685	3E2.5.31.7.929	
Ll	22	9498555	3E2.5.31.11.619	
	101	9199496	2E3.29.19.2087	
Ll	22	9592504	2E3.29.173.239	
	102	9206925	3.5E2.7.13.19.71	
Ll	X	10791795	3.5.7.79.1301	
	103	9339704	2E3.11.211.503	
Ll	33	9892936	2E3.47.83.317	
	104	9363584	2E7.191.383	
Ll	21	9437056	2E7.73727	
	105	9478910	2.5.7.19.7127	
Ll	33	11049730	2.5.71.79.197	
	106	9491625	3E2.5E3.13.11.59	
Ll	X	10950615	3E2.5.13.18719	
	107	9660950	2.5E2.13.89.167	
Ll	X	10025290	2.5.11.91139	
	108	9773505	3E2.5.7.19.23.71	
Ll	43	11791935	3E2.5.31.79.107	
	109	10254970	2.5.11.53.1759	
Ll	22	10273670	2.5.11.59.1583	
	110	10533296	2E4.19.34649	
Ll	X	10949704	2E3.29.109.433	
	111	10572550	2.5E2.31.19.359	
Ll	22	10854650	2.5E2.31.47.149	
	112	10596368	2E4.29.41.557	
Ll	X	11199112	2E3.53.61.433	
	113	10634085	3E4.7.11E2.5.31	
Ll	X	14084763	3.7.11E2.23.241	
	114	10992735	3E2.5.13.19.23.43	
Ll	32	12070305	3E2.5.13.47.439	
	115	11173460	2E2.5.53.83.127	
Ll	43	13212076	2E2.31.47.2267	
	116	11252648	2E3.11.71.1801	
Ll	33	12101272	2E3.67.107.211	
	117	11498355	3E4.5.11.29.89	
Ll	21	12024045	3E4.5.11.2699	
	118	11545616	2E4.19.163.233	
Ll	32	12247504	2E4.491.1559	
	119	11693290	2.7.5.167047	
Ll	X	12361622	2.7E2.13.31.313	
	120	11905504	2E5.13.28619	
Ll	X	13337336	2E3.107.15581	
	121	12397552	2E4.23.59.571	8D
Ll	32	13136528	2E4.359.2287	
	122	12707704	2E3.17.41.43.53	
Ll	42	14236136	2E3.107.16631	
	123	13671735	3.5.19.7E2.11.89	
Ll	X	15877065	3.5.19.17.29.113	
	124	13813150	2.5E2.13.79.269	
Ll	33	14310050	2.5E2.29.71.139	
	125	13921528	2E3.19.67.1367	
Ll	22	13985672	2E3.19.101.911	
	126	14311688	2E3.17.47.2239	
Ll	33	14718712	2E3.23.167.479	
	127	14426230	2.7.5.13.83.191	
Ll	43	18087818	2.7.31.71.587	
	128	14443730	2.5.7E3.4211	
Ll	X	15882670	2.5.19.179.467	
	129	14654150	2.5E2.7.149.281	
Ll	32	16817050	2.5E2.179.1879	
	130	15002464	2E5.37.12671	
Ll	22	15334304	2E5.227.2111	
	131	15363832	2E3.11.71.2459	
Ll	33	16517768	2E3.53.163.239	
	132	15938055	3E2.5.7.19.2663	
Ll	33	17308665	3E2.5.11.73.479	
	133	16137628	2E2.13.23.103.131	
Ll	33	16150628	2E2.13.31.43.233	
	134	16871582	2.7E2.19.13.17.41	
Ll	32	19325698	2.7E2.19.97.107	
	135	17041010	2.7.5.31.7853	
Ll	33	19150222	2.7.13.43.2447	
	136	17257695	3.5.7.13.47.269	
Ll	33	17578785	3.5.7.23.29.251	
	137	17754165	3E2.5.13.11.31.89	
Ll	32	19985355	3E2.5.13.127.269	
	138	17844255	3E2.5.13.11.47.59	
Ll	32	19895265	3E2.5.13.71.479	
	139	17908064	2E5.53.10559	
Ll	22	18017056	2E5.79.7127	
	140	18056312	2E3.17.103.1289	
Ll	33	18166888	2E3.19.107.1117	
	141	18194715	3E2.5.7.11.59.89	
Ll	43	22240485	3E2.5.31.107.149	
	142	18655744	2E9.83.439	
Ll	X	19154336	2E5.619.967	
	143	20014808	2E3.11.79.2879	
Ll	33	21457192	2E3.47.149.383	
	144	20022328	2E3.17.23.37.173	
Ll	42	22823432	2E3.1367.2087	
	145	20308995	3E3.5.7.21491	
Ll	23	20955645	3E3.5.17.23.397	
	146	21448630	2.5.7.131.2339	
Ll	33	23030090	2.5.19.53.2287	
	147	22227075	3E3.5E2.13.17.149	
Ll	32	24644925	3E3.5E2.29.1259	
	148	22249552	2E4.13.41.2609	
Ll	X	25325528	2E3.587.5393	
	149	22508145	3E3.5.11.23.659	
Ll	22	23111055	3E3.5.11.79.197	
	150	22608632	2E3.19.23.29.223	
Ll	42	25775368	2E3.1439.2239	
	151	23358248	2E3.37.23.47.73	8D
Ll	31	25233112	2E3.37.85247	
	152	23389695	3E3.5.7.53.467	
Ll	33	25132545	3E3.5.17.47.233	
	153	23628940	2E2.5.37E2.863	
Ll	X	27428276	2E2.17.251.1607	
	154	24472180	2E2.5.17.167.431	
Ll	43	30395276	2E2.47.107.1511	
	155	25596544	2E7.311.643	
Ll	X	25640096	2E5.67.11959	
	156	25966832	2E4.29.191.293	
Ll	32	26529808	2E4.47.35279	
	157	26090325	3E2.5E2.17.19.359	
Ll	33	26138475	3E2.5E2.11.59.179	
	158	28118032	2E4.47.139.269	
Ll	33	28128368	2E4.59.83.359	
	159	28608424	2E3.13.139.1979	
Ll	33	29603576	2E3.23.349.461	
	160	30724694	2.7.13.11.103.149	
Ll	32	32174506	2.7.13.17.10399	
	161	30830696	2E3.13.521.569	
Ll	X	31652704	2E5.449.2203	
	162	31536855	3E2.5.7.53.1889	
Ll	21	32148585	3E2.5.7.102059	
	163	31818952	2E3.11.41.8819	
Ll	33	34860248	2E3.97.167.269	
	164	32205616	2E4.17.167.709	
Ll	31	34352624	2E4.2147039	
	165	32642324	2E2.11.13.149.383	
Ll	44	35095276	2E2.17.47.79.139	
	166	32685250	2.5E3.13.89.113	
Ll	X	34538270	2.5.13.379.701	
	167	33501825	3E2.5E2.7.89.239	
Ll	33	36136575	3E2.5E2.19.79.107	
	168	34256222	2.7.11.13.71.241	
Ll	32	35997346	2.7.11.23.10163	
	169	34364912	2E4.43.199.251	
Ll	33	34380688	2E4.47.131.349	
	170	34765731	3E2.7.13.11.17.227	
Ll	33	36939357	3E2.7.13.23.37.53	
	171	35115795	3E3.5.11.13.17.107	
Ll	42	43266285	3E3.5.53.6047	
	172	35361326	2.7.13.11.17.1039	
Ll	32	40117714	2.7.13.53.4159	
	173	35373195	3E2.5.13.11.23.239	
Ll	32	40105845	3E2.5.13.179.383	
	174	35390008	2E3.19.23.53.191	
Ll	42	39259592	2E3.71.69119	
	175	35472592	2E4.43.47.1097	
Ll	32	36415664	2E4.53.42943	
	176	37363095	3E2.7.11.5.41.263	
Ll	32	45663849	3E2.7.11.131.503	
	177	37784810	2.7.5.539783	
Ll	24	39944086	2.7.13.41.53.101	
	178	37848915	3E2.5.13.23.29.97	
Ll	32	39202605	3E2.5.13.19.3527	
	179	38400512	2E9.179.419	
Ll	X	38938288	2E4.83.109.269	
	180	38637016	2E3.11.359.1223	
Ll	33	40678184	2E3.29.271.647	

181	38663950	2.5E2.13.17.3499	8D
L1 32	43362050	2.5E2.59.14699	
182	38783992	2E3.13.37.10079	
L1 33	41654408	2E3.47.139.797	
183	38807968	2E5.37.73.449	
L1 X	40912232	2E3.37.89.1553	
184	43096904	2E3.17.41.59.131	
L1 43	46715896	2E3.53.239.461	
185	44139856	2E4.29.251.379	
L1 33	44916944	2E4.83.149.227	
186	45263384	2E3.17.59.5641	
L1 33	46137016	2E3.19.433.701	
187	46237730	2.7.5.11E2.53.103	
L1 X	61319902	2.7.83.113.467	
188	46271745	3E2.5.13.19.23.181	
L1 X	49125375	3E2.5E3.13.3359	
189	46521405	3E3.5.7.19.2591	
L1 33	53011395	3E3.5.31.53.239	
190	46555250	2.5E3.7.37.719	
L1 X	55880590	2.5.103.227.239	
191	46991890	2.5.29.11.14731	
L1 X	48471470	2.5.29.19E2.463	
192	48639032	2E3.13.29.16127	
L1 33	52967368	2E3.59.293.383	
193	48641584	2E4.29.104831	
L1 23	48852176	2E4.47.167.389	
194	49215166	2.31.61.7.11.13E2	
L1 X	55349570	2.31.61.5.2927	
195	50997596	2E2.13.19.71.727	
L1 33	51737764	2E2.13.23.181.239	
196	52695376	2E4.17.151.1283	
L1 31	56208368	2E4.3513023	
197	56055872	2E6.79.11087	
L1 22	56598208	2E6.383.2309	
198	56512610	2.7.5.11.23.3191	
L1 X	75866014	2.7E2.774143	
199	56924192	2E5.13.193.709	
L1 X	64562488	2E3.283.28517	
200	58580540	2E2.23.5.347.367	
L1 32	70507972	2E2.23.521.1471	
201	59497888	2E5.41.101.449	
L1 X	61953512	2E3.29.97.2753	
202	63560025	3E3.5E2.17.29.191	
L1 33	65003175	3E3.5E2.23.53.79	
203	63717615	3E2.5.13.17.43.149	
L1 32	66011985	3E2.5.13.19.5939	
204	66595130	2.5.31.7.30689	
L1 22	74824390	2.5.31.59.4091	
205	66854710	2.5.17.13E3.179	
L1 X	71946890	2.5.17.83.5099	
206	67729064	2E3.13.431.1511	
L1 33	69439576	2E3.23.107.3527	
207	67738268	2E2.19.13.17.37.109	
L1 42	79732132	2E2.19.263.3989	
208	68891992	2E3.13.23.83.347	
L1 42	78437288	2E3.587.16703	
209	71015260	2E2.5.23.263.587	
L1 43	85458596	2E2.41.47.11087	
210	71241830	2.5.11.19.89.383	
L1 43	78057370	2.5.17.359.1279	

211	72958556	2E2.11.19.197.443	8D
L1 33	74733604	2E2.11.53.73.439	
212	73032872	2E3.11.71.11689	
L1 33	78469528	2E3.59.83.2003	
213	74055952	2E4.23.61.3299	
L1 32	78166448	2E4.197.24799	
214	74386305	3E2.5.7.17.29.479	
L1 43	87354495	3E2.5.19.71.1439	
215	74769345	3E3.5.7E2.89.127	
L1 X	82824255	3E3.5.17.151.239	
216	75171808	2E5.53.127.349	
L1 32	77237792	2E5.479.5039	
217	75226888	2E3.11.59.14489	
L1 33	81265112	2E3.53.137.1399	
218	78088504	2E3.13.31.53.457	
L1 42	88110536	2E3.167.65951	
219	78447010	2.5.17.19.149.163	
L1 43	80960990	2.5.11.491.1499	
220	79324875	3E2.5E3.7E2.1439	
L1 X	87133365	3E2.5.11.103.1709	
221	80422335	3E3.5.7.85103	
L1 23	82977345	3E3.5.11.71.787	
222	82633005	3E2.7.13.5.17.1187	
L1 32	104177619	3E2.7.13.131.971	
223	83135650	2.5E2.13.79.1619	
L1 33	85603550	2.5E2.19.251.359	
224	84521745	3E3.5.7.11.47.173	
L1 42	107908335	3E3.5.383.2087	
225	84591405	3E3.5.17.29.31.41	
L1 43	89590995	3E3.5.13.71.719	
226	86158220	2E2.5.41.105071	
L1 33	99188788	2E2.23.43.25073	
227	87998470	2.5.7.29.67.647	
L1 43	102358010	2.5.47.89.2447	
228	88144630	2.5.7E2.29.6203	
L1 X	102814490	2.5.37.269.1033	
229	89477984	2E5.59.83.571	
L1 32	92143456	2E5.1637.1759	
230	90437150	2.5E2.23.19.4139	
L1 22	94372450	2.5E2.23.137.599	
231	91996816	2E4.29.331.599	
L1 33	93259184	2E4.79.89.829	
232	93837808	2E4.19.83.3719	
L1 32	99899792	2E4.1399.4463	
233	95629904	2E4.67.37.2411	
L1 22	97580944	2E4.67.227.401	
234	95791430	2.7.17.5.101.797	
L1 32	115187002	2.7.17.113.4283	
235	96304845	3.5.7E2.13.10079	
L1 23	96747315	3.5.7E2.23.59.97	
236	97041735	3E2.5.7.71.4339	
L1 22	97945785	3E2.5.7.239.1301	
237	102023145	3E4.7E2.5.53.97	
L1 32	116970399	3E4.7E2.13.2267	
238	102719740	2E2.5.29E2.31.197	
L1 X	129063812	2E2.43.431.1741	
239	103034776	2E3.13.990719	
L1 23	105016424	2E3.29.47.9631	
240	104887448	2E3.19.71.9719	
L1 33	105064552	2E3.23.47.12149	

241	108734050	2.5E2.31.29.41.59	9D
L1 32	116251550	2.5E2.31.179.419	
242	109410345	3E4.5.11.41.599	
L1 22	110132055	3E4.5.11.59.419	
243	110960710	2.5.67.7.59.401	
L1 32	125222330	2.5.67.31.6029	
244	114944072	2E3.17.19.44483	
R3 33	125269528	2E3.53.439.673	
245	115259625	3E3.5E3.13.37.71	
R9 X	123757335	3E3.5.13.151.467	
246	115447424	2E7.59.15287	
L1 X	118458976	2E5.349.10607	
247	115749344	2E5.47.76961	
L1 X	116983744	2E6.431.4241	
248	116654896	2E4.23.359.883	
L1 33	120115664	2E4.101.239.311	
249	118458830	2.7.5.37.45737	
L1 X	131819506	2.7E2.13.107.967	
250	120812175	3E3.5E2.11.53.307	
R9 X	126671985	3E3.5.11.197.433	
251	121293315	3E3.5.13.11.61.103	
R9 X	138690045	3E2.5.13.383.619	
252	127924335	3E2.5.7.11.36919	
L1 X	148532625	3E2.5E3.31.4259	
253	131118975	3E2.5E2.13.23.1949	
R9 X	132926625	3E2.5E3.13.61.149	
254	131483835	3E2.5.7.71.5879	
L1 22	132692805	3E2.5.7.223.1889	
255	133089500	2E2.5E3.23.71.163	
R9 X	176374564	2E2.383.115127	
256	133178325	3.5E2.7E3.31.167	
L1 X	133471275	3.5E2.7.31.59.139	
257	133768816	2E4.19.131.3359	
L1 32	141213584	2E4.199.44351	
258	134312152	2E3.13.127.10169	
L1 33	139057448	2E3.23.223.3389	
259	134886465	3E4.5.7E3.971	
L1 X	147382335	3E4.5.19.107.179	
260	136549413	3E2.7.11.13.23.659	
L1 22	140207067	3E2.7.11.13.79.197	
261	136770075	3E2.5E2.13.19.23.107	
R9 X	155711205	3E2.5.13.179.1487	
262	137424188	2E2.11.19.89.1847	
R9 33	141993412	2E2.11.59.83.659	
263	138605350	2.5E2.13E2.47.349	
R9 X	147313850	2.5E2.23.128099	
264	139009990	2.5.7.53.89.421	
R3 43	156322490	2.5.23.179.3797	
265	140744835	3E2.5.7.11.151.269	
R9 43	166562685	3E2.5.17.239.911	
266	140815384	2E3.19.23.47.857	
R9 43	155709416	2E3.89.383.571	
267	144788020	2E2.5.13.97.5741	
R9 43	186088988	2E2.83.293.1913	
268	145040288	2E5.41.227.487	
L1 32	149364256	2E5.1063.4391	
269	146648612	2E2.19.11E2.37.431	
R9 X	159017308	2E2.19.23.90971	
270	147366765	3E2.7E2.13.5.53.97	
L1 31	182028483	3E2.7E2.13.31751	

271	148077644	2E2.13.11.83.3119	9D
L1 32	160128436	2E2.13.47.65519	
272	153015550	2.5E2.19.23.47.149	
R9 43	168392450	2.5E2.79.89.479	
273	154190750	2.7E2.5E3.41.307	
R9 X	190889986	2.7E2.43.97.467	
274	155578180	2E2.5.223.34883	
R9 34	172610492	2E2.23.41.67.683	
275	155797390	2.5.7.863.2579	
L1 33	165195890	2.5.23.29.24767	
276	156226856	2E3.31.23.61.449	
L1 32	165181144	2E3.31.199.3347	
277	157151410	2.5.13E3.23.311	
R9 X	163634510	2.5.13.89.14143	
278	161088158	2.7.11.17.37.1663	
R9 55	166706530	2.5.23.31.103.227	
279	162936904	2E3.13.719.2179	
R9 33	166679096	2E3.19.839.1307	
280	164733752	2E3.31.53.83.151	
R9 43	166212808	2E3.17.383.3191	
281	165323696	2E4.37.97.2879	
R9 33	167155024	2E4.59.113.1567	
282	165742395	3.5.7.13.29.53.79	
R9 43	182622405	3.5.7.41.59.719	
283	166737550	2.5E2.7.359.1327	
R9 X	188953970	2.5.23.829.991	
284	168930032	2E4.23.47.9767	
L1 32	179904784	2E4.1583.7103	
285	169000448	2E9.71.4649	
L1 X	173499952	2E4.53.204599	
286	169335790	2.5.13.19.179.383	
L1 44	179029010	2.5.23.59.79.167	
287	169652512	2E5.71.89.839	
L1 32	173269088	2E5.191.28349	
288	169884784	2E4.29.109.3359	
R9 33	173843216	2E4.71.199.769	
289	170566690	2.5.7.29.73.1151	
R9 43	197704670	2.5.31.739.863	
290	172271385	3E2.5.13.11.19.1409	
L1 32	197261415	3E2.5.13.449.751	
291	175032884	2E2.13.17.389.509	
L1 21	175826716	2E2.13.17.198899	
292	176632390	2.5.11.43.107.349	
W1 32	182618810	2.5.11.719.2309	
293	177997352	2E3.13.653.2621	
L1 X	182108128	2E5.229.24851	
294	180038452	2E2.11.19.31.6947	
R9 44	193486028	2E2.23.29.47.1543	
295	181088985	3.5.7.11.83.1889	
R9 33	184694055	3.5.7.13.269.503	
296	182702024	2E3.19.53.22679	
L1 33	184713976	2E3.17.719.1889	
297	183408615	3E2.5.13.19.29.569	
L1 21	190055385	3E2.5.13.19.17099	
298	186753688	2E3.11.41.191.271	
L1 42	208059752	2E3.83.313343	
299	186878110	2.5.17.19.47.1231	
R9 44	196323170	2.5.23.41.109.191	
300	189406984	2E3.13.71.113.227	
R9 43	203592056	2E3.37.797.863	

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301	190888155	3E2.5.17.19.23.571
R9 42	194594085	3E2.5.7.617759
302	195857415	3E2.5.13.19.67.263
R9 X	196214265	3E3.5.13.23.4861
303	196421715	3E2.5.19.37.7.887
L1 21	224703405	3E2.5.19.37.7103
304	199432948	2E2.11.13.151.2309
R9 X	213484172	2E2.11E2.197.2239
305	200328232	2E3.13.157.12269
L1 X	206790368	2E5.6462199
306	200879055	3E3.5.13.17.6733
L1 X	206393265	3E5.5.13.73.179
307	201168592	2E4.29.491.883
L1 33	203314448	2E4.67.89.2131
308	203055622	2.7.19.11.29.2393
L1 X	210627578	2.7E2.19.31.41.89
309	203972715	3E3.5.31.17.47.61
L1 X	207429525	3E3.5E2.31.23.431
310	204134385	3.5.7.13.17.19.463
L1 42	244869135	3.5.7.383.6089
311	204756904	2E3.11.59.113.349
L1 43	226163096	2E3.79.449.797
312	205843365	3E2.7E2.13.5.43.167
L1 31	254264283	3E2.7E2.13.44351
313	208693628	2E2.11.13.23.29.547
R9 53	255308932	2E2.31.167.12329
314	209027128	2E3.23.29.43.911
R9 43	224355272	2E3.37.383.1979
315	209309704	2E3.29.71.97.131
R9 43	209816696	2E3.19.83.16631
316	211319745	3.7.5.13.23.53.127
R9 55	234587199	3.7.11.17.31.41.47
317	214748488	2E3.17.19.41.2027
L1 42	245201912	2E3.3041.10079
318	216392216	2E3.19.53.26861
L1 33	218772184	2E3.17.659.2441
319	221397165	3E3.5.11.29.53.97
R9 43	235831635	3E3.5.13.83.1619
320	223878416	2E4.37.79.4787
L1 32	227342704	2E4.41.346559
321	224888895	3E2.7.11.5.41.1583
L1 32	273272769	3E2.7.11.83.4751
322	226540432	2E4.23.615599
L1 23	231465968	2E4.59.359.683
323	227443340	2E2.5.17.43.47.331
R9 52	302651764	2E2.1187.63743
324	231111392	2E5.109.173.383
W1 32	231923488	2E5.71.102079
325	238162815	3E3.5.23.11.19.367
L1 32	270560385	3E3.5.23.79.1103
326	238238864	2E4.41.47.7727
R9 33	244730224	2E4.97.137.1151
327	242126704	2E4.23.47.13999
L1 32	257841296	2E4.1399.11519
328	242182930	2.5.11.19.115877
L1 33	258410030	2.5.17.61.24919
329	245618415	3E2.5.19.7.41039
W1 23	266560785	3E2.5.19.31.89.113
330	248658488	2E3.13E2.183919
W2 X	256201912	2E3.37.43.20129
331	250876395	3E2.5.7.11.17.4259
L1 43	323303445	3E2.5.53.283.479
332	251302370	2.5.11.23.71.1399
R9 44	271244830	2.5.29.59.83.191
333	252551048	2E3.17.31.37.1619
R9 43	279327352	2E3.107.179.1823
334	252940545	3E2.5.13.11.23.1709
W1 32	284847615	3E2.5.13.89.5471
335	253703776	2E5.59.83.1619
L1 32	260678624	2E5.449.18143
336	256755056	2E4.19.79.10691
L1 32	273568144	2E4.2591.6599
337	256948065	3E3.5.11.23.7523
L1 22	263110815	3E3.5.11.53.3343
338	258904646	2.7.13.11.79.1637
L1 33	269448634	2.7.13.23.59.1091
339	260231192	2E3.13.659.3797
L1 33	266171608	2E3.19.593.2953
340	264764630	2.5.17.13.47.2549
L1 32	290441770	2.5.17.359.4759
341	265192208	2E4.131.23.5501
L1 22	275148208	2E4.131.251.523
342	267217335	3E2.5.7E2.11.23.479
R9 X	347397705	3E2.5.89.127.683
343	270039910	2.5.7.47.211.389
R9 X	301444250	2.5E3.79.15263
344	270208672	2E5.59.167.857
L1 32	274655648	2E5.131.65519
345	271048340	2E2.5.17.797201
L1 33	331636372	2E2.41.73.27701
346	271629728	2E5.37.383.599
L1 32	279947872	2E5.1709.5119
347	273141836	2E2.11.23.29.41.227
L1 53	306014644	2E2.13.239.24623
348	274638460	2E2.5.1693.8111
R9 34	302514116	2E2.17.43.307.337
349	274893410	2.5.11.43.89.653
W1 32	284512030	2.5.11.1187.2179
350	275304590	2.5.11.61.89.461
W1 32	281534770	2.5.11.139.18413
351	275631376	2E4.43.53.7559
R9 33	281207984	2E4.83.107.1979
352	276339808	2E5.97.127.701
L1 32	278431136	2E5.83.104831
353	278247976	2E3.17.41.139.359
L1 43	293288024	2E3.31.149.7937
354	281499435	3E3.5.7.89.3347
L1 33	297034965	3E3.5.17.29.4463
355	285627615	3.5.7E2.13.167.179
R9 33	293528865	3.5.7E2.29.47.293
356	286000065	3E5.5.13.19.953
R9 X	297390015	3E3.5.13.41.4133
357	287250632	2E3.17.127.16631
R9 34	287551288	2E3.31.53.131.167
358	287793350	2.5E2.13.41.10799
L1 33	302793850	2.5E2.23.251.1049
359	291679245	3E3.5.29.11.13.521
R9 32	339731955	3E3.5.29.107.811
360	291974824	2E3.19.89.113.191
R9 32	299001176	2E3.19.1367.1439

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361	295824376	2E3.19.53.36721
L1 33	299072024	2E3.17.601.3659
362	300120652	2E2.17.13.23.29.509
L1 42	347620148	2E2.17.179.28559
363	300208696	2E3.23.29.127.443
L1 43	313576904	2E3.31.89.14207
364	301685895	3E2.5.19E2.7E2.379
L1 X	342005985	3E2.5.19E2.37.569
365	302424784	2E4.53.71.5023
L1 33	303107888	2E4.47.107.3767
366	302770672	2E4.29.257.2539
L1 X	306676928	2E6.773.6199
367	304443436	2E2.31.61.11.3659
L1 X	305517524	2E2.31.61.13E2.239
368	305178874	2.7.19.11.13.71.113
R9 43	356714246	2.7.19.83.107.151
369	305363984	2E4.43.89.4987
L1 22	306962896	2E4.43.173.2579
370	305911606	2.7E2.11.13.83.263
R9 32	331160522	2.7E2.11.97.3167
371	308939936	2E5.37.311.839
W1 32	318479584	2E5.2393.4159
372	311414355	3E3.5.7E2.179.263
R9 X	338659245	3E3.5.23.29.3761
373	311913855	3E3.5.11.41.47.109
W1 32	326754945	3E3.5.11.139.1583
374	312090808	2E3.19.29.101.701
R9 43	332345192	2E3.53.67.11699
375	316293016	2E3.13.3041279
R9 24	322375784	2E3.41.71.109.127
376	318323864	2E3.23.61.79.359
R9 43	324492136	2E3.29.47.29759
377	318580262	2.7E2.11.13.127.179
L1 X	343312858	2.7.17.23.59.1063
378	319682650	2.5E2.7.59.113.137
L1 X	382593830	2.5.61.367.1709
379	319904235	3E4.5.7.19.5939
R9 33	370086165	3E4.5.43.79.269
380	320829728	2E5.59.109.1559
L1 32	327818272	2E5.199.51479
381	323401712	2E4.23.431.2039
R3 33	332270608	2E4.101.127.1619
382	324644792	2E3.19.29.47.1567
R9 43	352731208	2E3.79.89.6271
383	330811850	2.5E2.31.19.47.239
W1 32	354858550	2.5E2.31.179.1279
384	332448224	2E5.53.211.929
R9 X	338290096	2E4.53.269.1483
385	332573392	2E4.29.431.1663
R9 33	335955248	2E4.47.191.2339
386	334438875	3E4.5E3.17.29.67
R9 X	358687845	3E4.5.17.59.883
387	339981512	2E3.13.41.71.1123
R9 43	373803448	2E3.83.167.3371
388	343175404	2E2.11.13.379.1583
R9 33	364682516	2E2.11.131.151.419
389	346657311	3E2.7E2.13.11.23.239
R9 X	370393569	3E2.7.13.17.37.719
390	347263216	2E4.17.137.9319
L1 31	370414064	2E4.23150879
391	347401035	3E3.5.17.19.31.257
R9 43	365917365	3E3.5.11.239.1031
392	348782488	2E3.31.23.47.1301
W1 32	371171432	2E3.31.557.2687
393	356775430	2.5.17.11.101.1889
L1 32	392753210	2.5.17.1427.1619
394	357197302	2.7.11.17.19.43.167
R9 42	409205258	2.7.11.863.3079
395	359156770	2.7E2.5.83.8831
R9 X	402020318	2.7.17.37.71.643
396	360027675	3E2.5E2.19.7.53.227
R9 X	433850085	3E2.5.19.557.911
397	360172336	2E4.17.149.8887
L1 32	383753264	2E4.2221.10799
398	360759652	2E2.11.17.29.16631
L1 32	393667868	2E2.11.263.34019
399	362645570	2.7E2.5.643.1151
R9 X	398531518	2.7.11.47.55061
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597	1040792450	2.5E2.31.19.59.599
L1 32	1101927550	2.5E2.31.79.8999
598	1047381370	2.5.7E3.47.73.89
R9 X	1254314630	2.5.59.443.4799
599	1047784504	2E3.13.23.101.4337
R9 42	1182294536	2E3.167.884951
600	1047827656	2E3.19.71.151.643
W1 32	1066553144	2E3.19.227.30911

601	1049859195	3.5.7.11.191.4759	10D
R9 33	1055812485	3.5.7.13.79.9791	
602	1056277222	2.7E2.19.11.13.3967	
R9 X	1223576858	2.7.19.41.151.743	
603	1066176716	2E2.11.19.251.5081	
R9 33	1085338804	2E2.11.29.293.2903	
604	1067740245	3E3.5.11.13.19.41.71	
R9 52	1370813355	3E3.5.2687.3779	
605	1069306732	2E2.13.41.17.163.181	
R9 32	1142071892	2E2.13.41.491.1091	
606	1077722984	2E3.13.1913.5417	
L1 X	1099987936	2E5.179.192037	
607	1082038815	3E2.5.13.11.181.929	
R9 X	1135944225	3E2.5E2.13.83.4679	
608	1086272836	2E2.11.29.47.59.307	
R9 43	1149067964	2E2.11.89.139.2111	
609	1086321110	2.5.7.37.419429	
R9 X	1208799850	2.5E2.71.163.2089	
610	1088205734	2.7.11.17.19.131.167	
R9 43	1211001946	2.7.11.179.197.223	
611	1090509248	2E6.109.223.701	
L1 32	1106245312	2E6.1637.10559	
612	1091947540	2E2.23.5.137.17327	
L1 32	1318446572	2E2.23.911.15731	
613	1093953735	3E3.5.7.89.13007	
L1 33	1153828665	3E3.5.11.239.3251	
614	1100526075	3E3.5E2.11.19.29.269	
R9 42	1310033925	3E3.5E2.809.2399	
615	1101570165	3E3.5.17.23.41.509	
R9 33	1119255435	3E3.5.17.29.67.251	
616	1110676384	2E5.97.179.1999	
R9 33	1111963616	2E5.83.499.839	
617	1112824370	2.5.7.59.227.1187	
R9 44	1227440590	2.5.37.43.179.431	
618	1118297565	3E2.5.7.11.29.31.359	
R9 53	1469555235	3E2.5.79.479.863	
619	1123132540	2E2.53.5.17.62327	
L1 32	1421345732	2E2.53.251.26711	
620	1127508130	2.5.7E2.31.199.373	
R9 X	1328325470	2.5.43.271.11399	
621	1129315275	3E2.5E2.31.11.41.359	
R9 X	1210534965	3E2.5.31.23.29.1301	
622	1131258975	3.5E2.31.7.11.71.89	
R9 X	1337154465	3.5.31.17.47.59.61	
623	1133458150	2.5E2.11.347.5939	
L1 X	1173447770	2.5.11.929.11483	
624	1141149196	2E2.11.19.1365011	
W1 23	1152070964	2E2.11.43.53.11489	
625	1148440336	2E4.37.71.89.307	
R9 43	1202659184	2E4.167.659.683	
626	1162074914	2.7.11.13.43.13499	
L1 33	1232933086	2.7.11.29.359.769	
627	1179749410	2.5.7.151.239.467	
R9 X	1278710750	2.5E3.37.138239	
628	1183083825	3.5E2.7.11.349.587	
R9 X	1266759375	3.5E5.7.97.199	
629	1191953763	3E2.7E2.11.13.41.461	
L1 21	1223611389	3E2.7E2.11.13.19403	
630	1193945522	2.7.11.19.53.7699	
L1 33	1201062478	2.7.11.17.149.3079	

631	1195637144	2E3.13E2.383.2309	10D
L1 X	1239287656	2E3.23.239.28181	
632	1197281380	2E2.5.31.967.1997	
R9 43	1402100636	2E2.17.2441.8447	
633	1206344152	2E3.13.37.251.1249	
R9 43	1307355848	2E3.41.1499.2659	
634	1211220868	2E2.13.11.181.11699	
R9 33	1292953532	2E2.13.41.389.1559	
635	1212636350	2.5E2.17.67.107.199	
W1 32	1246134850	2.5E2.17.719.2039	
636	1216541326	2.7E2.11.13.47.1847	
R9 32	1331747186	2.7E2.11.197.6271	
637	1216935225	3E3.5E2.31.11.17.311	
R9 X	1457179335	3E3.5.31.348191	
638	1223289664	2E6.251.271.281	
R9 32	1231545152	2E6.223.86291	
639	1224145112	2E3.17.31.103.2819	
R9 43	1309794088	2E3.53.79.39103	
640	1225052829	3E4.7.11.29.13.521	
L1 21	1321639011	3E4.7.11.29.7307	
641	1237888448	2E6.73.264959	
L1 22	1252205632	2E6.479.40847	
642	1239061725	3E3.5E2.11.19.8783	
R9 33	1375056675	3E3.5E2.47.89.487	
643	1239657136	2E4.17.727.6269	
L1 32	1307367344	2E4.181.451439	
644	1241180168	2E3.19.59.138401	
L1 33	1250055832	2E3.17.263.34949	
645	1241809540	2E2.5.17.37.98713	
R9 43	1594046252	2E2.113.131.26921	
646	1249677032	2E3.23.67.167.607	
R9 44	1250808088	2E3.31.37.271.503	
647	1251532282	2.7.11E2.13.17.3343	
R9 X	1438327814	2.7.11.9339791	
648	1254255550	2.5E2.23.19.137.419	
R9 31	1333078850	2.5E2.23.1159199	
649	1255307438	2.7.11.17.53.83.109	
R9 43	1331301202	2.7.11.29.307.971	
650	1264688650	2.5E2.17.53.67.419	
R9 X	1317021110	2.5.17.61.89.1427	
651	1272724250	2.7.5E3.727271	
L1 X	1450182118	2.7.11.251.37517	
652	1273481176	2E3.11.29.569.877	
R9 43	1429002824	2E3.179.379.2633	
653	1273666394	2.7.11.13.41.59.263	
R9 43	1408742566	2.7.11.83.307.359	
654	1275751408	2E4.41.79.103.239	
R9 43	1324082192	2E4.89.727.1279	
655	1277879584	2E5.59.71.9533	
L1 32	1316893856	2E5.1259.32687	
656	1284072075	3E3.5E2.11.13.53.251	
R9 X	1550746485	3E3.5.41.503.557	
657	1289325975	3.5E2.7E2.41.43.199	
R9 X	1323006825	3.5E2.7.29.113.769	
658	1292286248	2E3.11.499.29429	
L1 33	1356413752	2E3.29.149.39239	
659	1303670522	2.7.11.19.41.10867	
R9 X	1325516038	2.7.11E2.19.41183	
660	1305577305	3E3.5.19.17.79.379	
R9 33	1320982695	3E3.5.19.31.37.449	

661	1309651310	2.5.11.29.571.719	10D
R9 31	1359071890	2.5.11.12355199	
662	1312909796	2E2.11.17.109.16103	
R3 33	1365507484	2E2.11.43.269.2683	
663	1321560765	3E4.5.7.59.7901	
R9 33	1432128195	3E4.5.17.79.2633	
664	1323789350	2.5E2.13.67.113.269	
R9 X	1401348730	2.5.29.37.61.2141	
665	1327395368	2E3.13.1511.8447	
R9 34	1355013592	2E3.41.43.191.503	
666	1333290105	3E3.5.7.23.61343	
R3 33	1493441415	3E3.5.17.191.3407	
667	1335474855	3E2.5.13.11.37.71.79	
R9 42	1532728665	3E2.5.13.431.6079	
668	1347375272	2E3.19.89.137.727	
R9 43	1365152728	2E3.29.41.143519	
669	1348200032	2E5.59.461.1549	
L1 X	1358657968	2E4.53.109.14699	
670	1357689830	2.5.7.107.109.1663	
R9 X	1488948250	2.5E3.47.126719	
671	1363688048	2E4.17.191.26249	
L1 32	1448631952	2E4.503.179999	
672	1365633296	2E4.37.107.21559	
L1 33	1377316144	2E4.43.227.8819	
673	1375090832	2E4.17.379.13339	
L1 32	1453522768	2E4.227.400199	
674	1386737770	2.5.11.17.59.12569	
R9 43	1545591830	2.5.29.53.100559	
675	1395217845	3E3.5.7.53.89.313	
R9 43	1534778955	3E3.5.17.71.9419	
676	1400735930	2.5.11E2.31.107.349	
R9 X	1495046470	2.5.17.139.151.419	
677	1420875830	2.5.79.11.23.7109	
L1 32	1527783370	2.5.79.17.113759	
678	1444854411	3E2.7.13.23.11.19.367	
L1 32	1641399669	3E2.7.13.23.79.1103	
679	1448711355	3.5.7.13.17.149.419	
R9 43	1599480645	3.5.7.29.139.3779	
680	1448998330	2.5.19.13.569.1031	
R9 33	1515731270	2.5.19.37.251.859	
681	1456694650	2.5E2.31.23.29.1409	
W1 32	1564540550	2.5E2.31.179.5639	
682	1458334432	2E5.53.73.11779	
R9 X	1507257008	2E4.89.251.4217	
683	1470622335	3.5.7.13.29.97.383	
R9 43	1564022145	3.5.7.19.127.6173	
684	1486565325	3E3.5E2.7.23.13679	
R9 32	1770369075	3E3.5E2.911.2879	
685	1502495085	3.7E2.13.5.157247	
R9 24	1509118611	3.7E2.13.11.17.41.103	
686	1505175008	2E5.71.167.3967	
R9 33	1518631456	2E5.127.433.863	
687	1517112765	3E2.5.7E2.47.14639	
R9 X	1607180355	3E2.5.11.59.113.487	
688	1518524175	3.5E2.7.19.41.47.79	
R9 42	1681271025	3.5E2.7.139.23039	
689	1525222575	3E3.5E2.17.23.5779	
L1 22	1571007825	3E3.5E2.17.79.1733	
690	1528753832	2E3.17.19.591623	
L1 33	1666015768	2E3.47.809.5477	
691	1532931010	2.5.13.29.79.5147	
R9 33	1580579390	2.5.13.107.199.571	
692	1546818128	2E4.47.109.113.167	
R9 43	1587981232	2E4.83.151.7919	
693	1548287895	3.5.7.11.23.167.349	
R9 43	1703116905	3.5.7.31.89.5879	
694	1550703136	2E5.59.317.2591	
L1 32	1564984544	2E5.89.549503	
695	1558818261	3E2.7.11.13.23.7523	
L1 22	1596205611	3E2.7.11.13.53.3343	
696	1559105008	2E4.43.67.149.227	
R9 43	1613013392	2E4.109.179.5167	
697	1559592628	2E2.11.43.53.103.151	
R9 43	1595431244	2E2.11.31.311.3761	
698	1563999255	3E2.7.13.5.167.2287	
R9 33	1793979369	3E2.7.13.23.131.727	
699	1574216272	2E4.19.971.5333	
R9 33	1640265488	2E4.107.761.1259	
700	1577617335	3E2.5.7.137.139.263	
W1 32	1605082185	3E2.5.7.1439.3541	
701	1585667930	2.7E2.5.11.37.7951	
R9 X	2134722982	2.7.83.227.8093	
702	1600185752	2E3.11.53.103.3331	
R9 43	1768066408	2E3.101.167.13103	
703	1601150265	3E2.5.13.11.61.4079	
R9 X	1713637575	3E2.5E2.13.509.1151	
704	1607089672	2E3.23.37.59.4001	
R9 32	1677751928	2E3.23.2203.4139	
705	1618057875	3.5E3.17.7.101.359	
R9 X	1681454445	3.5.17.11.23.67.389	
706	1626481616	2E4.23.149.29663	
R9 33	1684020784	2E4.107.199.4943	
707	1662154065	3E2.5.13.11.258299	
L1 23	1722609135	3E2.5.13.29.59.1721	
708	1666611045	3E4.5.11E2.71.479	
L1 22	1670433435	3E4.5.11E2.89.383	
709	1666776566	2.7.31.13.29.61.167	
R9 X	1693008394	2.7.31.11.67E2.79	
710	1667890144	2E5.37.223.6317	
R9 32	1720175264	2E5.2591.20747	
711	1689026570	2.7E2.5.11.41.7643	
R9 42	2263716406	2.7E2.1567.14741	
712	1690397588	2E2.11E2.29.83.1451	
R9 33	1716168652	2E2.11E2.41.197.439	
713	1699746184	2E3.23.41.233.967	
R3 42	1725115256	2E3.17.12684671	
714	1721688850	2.7.31.5E2.107.1483	
R9 X	2094066926	2.7.31.61.83.953	
715	1723336461	3E2.7.11.17.19.7699	
R9 X	1736119539	3E2.7E3.11.29.41.43	
716	1728342296	2E3.19.53.214541	
L1 33	1747238104	2E3.17.521.24659	
717	1741985325	3E3.5E2.31.17.59.83	
R9 32	1857784275	3E3.5E2.31.47.1889	
718	1750776704	2E7.137.99839	
L1 22	1762592896	2E7.2879.4783	
719	1754082603	3E2.7.13E3.19.23.29	
R9 X	1810205397	3E2.7.13.11.67.2999	
720	1755729656	2E3.19.23.349.1439	
R9 43	1873070344	2E3.31.1249.6047	
721	1756703660	2E2.5.23.31.123191	10D
L1 43	2216977492	2E2.53.191.54751	
722	1763439656	2E3.11.29.251.2753	
R9 43	1984203544	2E3.179.971.1427	
723	1772982530	2.5.11.17.19.139.359	
R9 53	2146121470	2.5.107.199.10079	
724	1774259235	3E4.5.7.19.32939	
L1 X	2052051165	3E9.5.29.719	
725	1775992725	3E2.5E2.13.23.26399	
R9 X	1798778475	3E3.5E2.13.359.571	
726	1783852785	3E2.5.13.11E3.29.79	
R9 X	2052998415	3E2.5.13.1151.3049	
727	1785186728	2E3.13.17.787.1283	
R9 42	2039387032	2E3.6047.42157	
728	1786141665	3E3.5.7.11.171827	
R9 33	2172775455	3E3.5.47.443.773	
729	1786492785	3.5.7.11.293.5279	
L1 22	1790052495	3.5.7.11.1231.1259	
730	1793313730	2.5.31.13.479.929	
R9 33	1806455870	2.5.31.17.79.4339	
731	1796310350	2.5E2.23.19.229.359	
R9 32	1899881650	2.5E2.23.479.3449	
732	1812992710	2.5.17.23.29.59.271	
R9 42	1994136890	2.5.17.599.19583	
733	1813297395	3.5.7.13.19.139.503	
R9 43	1980008205	3.5.7.29.79.8231	
734	1814936354	2.7.19.11E2.17.31.107	
R9 X	2156422366	2.7.19.71.227.503	
735	1819124752	2E4.19.593.10091	
R9 33	1897557008	2E4.131.347.2609	
736	1829456590	2.5.13.29.127.3821	
R9 33	1869016370	2.5.13.97.103.1439	
737	1860630824	2E3.13.17.691.1523	
R9 42	2125787416	2E3.9341.28447	
738	1861960700	2E2.5E2.17.593.1847	
R9 X	2425702372	2E2.131.433.10691	
739	1862890150	2.5E2.11.19.89.2003	
R9 42	2162745050	2.5E2.1439.30059	
740	1874188690	2.5.19.11.59.15199	
L1 32	2065651310	2.5.19.151.71999	
741	1879626735	3E3.5.107.7.29.641	
R9 32	2114126865	3E3.5.107.19.7703	
742	1888560272	2E4.29.107.38039	
R9 33	1932177328	2E4.53.719.3169	
743	1892277387	3E2.7.11.13.41.47.109	
R9 32	1982313333	3E2.7.11.13.139.1583	
744	1892277488	2E4.19.739.8423	
R9 33	1972653712	2E4.107.1039.1109	
745	1895700345	3.7.11E2.17.5.67.131	
R9 X	2230100103	3.7E2.11.17.31.2617	
746	1900066455	3E2.7.5.17.23.15427	
R9 44	2258828649	3E2.7.11.83.173.227	
747	1915705352	2E3.53.11.431.953	
W1 32	2090178808	2E3.53.317.15551	
748	1929310100	2E2.5E2.83.191.1217	
R9 X	2333417068	2E2.23.4463.5683	
749	1930301618	2.7.19.17.37.83.139	
R9 X	1930741582	2.7.19.11E2.223.269	
750	1937813620	2E2.5.97.631.1583	
R9 43	2182664588	2E2.13.593.70783	
751	1938775850	2.5E2.11.47.179.419	10D
R9 43	2110964950	2.5E2.41.149.6911	
752	1954734364	2E2.11.19.593.3943	
R9 33	1981062116	2E2.11.43.59.17747	
753	1957374968	2E3.31.17.107.4339	
L1 31	2092365832	2E3.31.8436959	
754	1964397015	3E4.5.7E3.79.179	
R9 X	2217362985	3E3.5.19.131.6599	
755	1974754485	3E4.5.11E2.59.683	
L1 22	1987985835	3E4.5.11E2.113.359	
756	1978830070	2.7.5.23.97.12671	
R9 44	2313024266	2.7.31.41.43.3023	
757	1981631584	2E5.59.71.14783	
L1 32	2041981856	2E5.1187.53759	
758	1983736876	2E2.11.19E2.71.1759	
R9 X	2071810004	2E2.11.43.719.1523	
759	1990129570	2.5.11.13.431.3229	
R9 44	2229439070	2.5.37.67.139.647	
760	1990992825	3E3.5E2.31.17.29.193	
L1 32	2165883975	3E3.5E2.31.89.1163	
761	1991349664	2E5.41.251.6047	
L1 32	2041408352	2E5.293.217727	
762	1992605368	2E3.13.23.131.6359	
R9 43	2238575432	2E3.179.461.3391	
763	2004732340	2E2.5.13.227.33967	
R9 43	2549153612	2E2.71.151.59443	
764	2008888310	2.11.13.5.23.103.593	
R9 43	2474566666	2.11.13.43.311.647	
765	2026348300	2E2.271.5E2.23.3251	
R9 X	2580356852	2E2.271.61.39023	
766	2033951985	3E3.5.41.13.23.1229	
R9 33	2131910415	3E3.5.41.17.139.163	
767	2037127365	3E2.7.13.5.23.43.503	
R9 42	2612381499	3E2.7.13.1511.2111	
768	2040024987	3E3.7E2.11.13.41.263	
L1 32	2207122533	3E3.7E2.11.43.3527	
769	2043906130	2.5.7E3.179.3329	
R9 X	2271773870	2.5.29.73.239.449	
770	2049829364	2E2.11.19.263.9323	
R9 33	2085551116	2E2.11.47.59.17093	
771	2057011288	2E3.17.19.431.1847	
R9 43	2254003112	2E3.83.127.26729	
772	2067555105	3E3.5.7.11.198899	
R9 33	2515100895	3E3.5.47.389.1019	
773	2070206050	2.5E2.11.239.15749	
R9 33	2148273950	2.5E2.19.359.6299	
774	2083300808	2E3.23.43.179.1471	
R9 33	2113665592	2E3.23.137.191.439	
775	2083894785	3E2.5.7E3.79.1709	
R9 X	2184265215	3E2.5.11.37.239.499	
776	2084019740	2E2.5.11.107.223.397	
R9 52	2768701924	2E2.647.1069823	
777	2091376035	3E2.5.7.29.179.1279	
R9 44	2221711965	3E2.5.11.59.127.599	
778	2099037232	2E4.37.89.39839	
L2 33	2124799568	2E4.59.113.19919	
779	2099442345	3.5.7.11.13.37.3779	
L1 41	2533809495	3.5.7.24131519	
780	2107566279	3E2.7.13.17.19.31.257	
R9 43	2219898681	3E2.7.13.11.239.1031	

781	2110489384	2E3.23.29.137.2887
L1 32	2193785816	2E3.23.359.33211
782	2115211995	3E3.5.13.17.31.2287
R9 31	2312891685	3E3.5.13.1317887
783	2125619990	2.5.17.13.41.23459
L1 32	2343791530	2.5.17.3331.4139
784	2128669790	2.5.13.17.179.5381
L1 32	2265625570	2.5.13.2339.7451
785	2140484535	3E4.7.23.5.17.1931
R9 32	2707011657	3E4.7.23.251.827
786	2141689095	3E2.7.13.5.31.16871
R9 33	2574912249	3E2.7.13.47.151.443
787	2152573605	3E2.7.13.37.5.14207
L1 22	2564027739	3E2.7.13.37.191.443
788	2153378296	2E3.29.31.227.1319
R9 43	2180445704	2E3.17.911.17599
789	2154386325	3.5E2.7.13.479.659
R9 33	2245332075	3.5E2.7.43.79.1259
790	2158256590	2.7.5.17.151.12011
R9 44	2574279218	2.7.37.41.53.2287
791	2158771095	3E4.5.17.13.89.271
R9 32	2319893865	3E4.5.17.59.5711
792	2172649216	2E8.257.33023
L1 21	2181168896	2E8.8520191
793	2198463784	2E3.379.11.29.2273
R9 32	2467784216	2E3.379.179.4547
794	2201899310	2.5.31.13E3.53.61
R9 X	2387806930	2.5.31.29.265607
795	2220015735	3E3.5.7.79.131.227
R9 44	2402729865	3E3.5.31.37.59.263
796	2221700481	3E4.7.11E2.13.47.53
R9 32	2450161791	3E4.7.11E2.71.503
797	2221834450	2.5E2.11.1049.3851
L1 32	2291939150	2.5E2.17.2696399
798	2223111345	3.5.7.13E3.23.419
R9 X	2383045455	3.5.7.19.251.4759
799	2232676016	2E4.19.2551.2879
L1 33	2324175184	2E4.127.263.4349
800	2241281620	2E2.5.131.881.971
R9 43	2511611756	2E2.17.47.785861
801	2246508224	2E6.227.239.647
R9 32	2256728896	2E6.179.196991
802	2264629070	2.5.11.101.103.1979
R9 33	2272200370	2.5.11.79.373.701
803	2265070275	3E2.5E2.13.19.53.769
R9 32	2426816925	3E2.5E2.13.659.1259
804	2270966698	2.7.11.13.191.5939
L1 33	2327448662	2.7.11.19.307.2591
805	2278422088	2E3.19.53.151.1873
R9 32	2336115512	2E3.19.1367.11243
806	2278650296	2E3.13.23.199.4787
R9 43	2547653704	2E3.113.839.3359
807	2282361092	2E2.11.19.239.11423
R9 44	2323795708	2E2.13.23.127.15299
808	2294183672	2E3.11.227.114847
L1 33	2419178248	2E3.31.151.64601
809	2298420670	2.7.5.13.197.12821
B4 42	2819711426	2.7.17.11847527
810	2300473575	3E3.5E2.31.17.29.223
L1 32	2499219225	3E3.5E2.31.83.1439
811	2310786764	2E2.11.13.19.149.1427
R9 54	2727197236	2E2.29.79.139.2141
812	2317392152	2E3.19.47.227.1429
R9 32	2377583848	2E3.19.3761.4159
813	2331923265	3E2.5.7.89.223.373
W1 32	2372936895	3E2.5.7.1427.5279
814	2332981816	2E3.11.23.283.4073
R9 42	2665327304	2E3.6983.47711
815	2359263375	3E3.5E3.7.37.2699
R9 32	2762528625	3E3.5E3.449.1823
816	2363563444	2E2.19.11.23.83.1481
R9 43	2655792716	2E2.19.47.233.3191
817	2378640285	3E2.5.7.103.167.439
W1 32	2418472035	3E2.5.7.839.9151
818	2379890150	2.5E2.31.11.97.1439
R9 X	2659787290	2.5.31.83.167.619
819	2402498475	3E5.5E2.13.29.1049
R9 X	2573745525	3E2.5E2.13.587.1499
820	2402562825	3E2.5E2.13.17.19.2543
L1 X	2764606455	3E2.5.13.929.5087
821	2407445150	2.5E2.11.29.149.1013
R9 43	2684862850	2.5E2.59.449.2027
822	2410351540	2E2.5.83.887.1637
R9 44	2721279692	2E2.17.73.293.1871
823	2417154916	2E2.11.23.47.89.571
R9 43	2564461724	2E2.11.107.127.4289
824	2419787565	3E2.5.13.17.23.71.149
R9 43	2675047635	3E2.5.13.89.191.269
825	2421696130	2.7E2.5.31.131.1217
R9 X	2856901502	2.7.13.1367.11483
826	2428035470	2.5.7.53.359.1823
R9 44	2677997170	2.5.29.71.113.1151
827	2436224288	2E5.53.307.4679
R9 33	2467554592	2E5.167.389.1187
828	2440775024	2E4.29.83.63377
L1 X	2510314336	2E5.557.140839
829	2440883588	2E2.11.13.83.51413
R9 X	2637996988	2E2.11E2.1721.3167
830	2441219715	3E4.5.11.47.89.131
R3 32	2526711165	3E4.5.11.197.2879
831	2446241032	2E3.19.61.193.1367
W1 32	2490050168	2E3.19.227.72167
832	2448784550	2.5E2.31.17.199.467
R9 X	2565180250	2.5E3.31.89.3719
833	2450252385	3E2.5.7.107.139.523
W1 32	2493624735	3E2.5.7.1571.5039
834	2481907330	2.5.7E2.263.19259
L1 X	2734933310	2.5.17.1319.12197
835	2482324910	2.5.13.23.41.20249
R9 44	2661499090	2.5.17.149.179.587
836	2484011608	2E3.13.151.367.431
R9 44	2590502312	2E3.37.127.137.503
837	2498633150	2.5E2.13.149.25799
R9 33	2540106850	2.5E2.17.139.21499
838	2502894550	2.5E2.43.13.149.601
R9 X	2670211850	2.5E2.43.79E2.199
839	2509841530	2.5.31.7.311.3719
W1 32	2838387590	2.5.31.71.128959
840	2511601365	3.5.7.13.53.149.233
W1 32	2583233835	3.5.7.13.971.1949
841	2517082425	3E3.5E2.11.13.89.293
R9 42	2995064775	3E3.5E2.587.7559
842	2550651220	2E2.5.13.131.74887
R9 43	3261855788	2E2.73.223.50093
843	2551781890	2.5.7.19.61.71.443
R9 53	3156424190	2.5.431.739.991
844	2555923990	2.5.17.23.29.22541
R9 33	2702673770	2.5.17.59.467.577
845	2592552904	2E3.17.29.43.15287
R9 43	2856090296	2E3.103.131.26459
846	2611143964	2E2.11.13E2.251.1399
R9 X	2812097636	2E2.17.29.167.8539
847	2612831949	3E2.7E2.13.19.17E2.83
L1 X	2737662291	3E2.7E2.13.19.41.613
848	2614326776	2E3.17.61.79.3989
R9 44	2729081224	2E3.37.107.199.433
849	2624170185	3E2.7.13.5.53.107.113
R9 X	3183941943	3E2.7E2.13.127.4373
850	2631762064	2E4.29.53.103.1039
R9 42	2800033136	2E4.809.216319
851	2648872395	3E3.5.23.13.137.479
R9 33	2692721205	3E3.5.23.17.139.367
852	2655265756	2E2.11.13.199.23327
R9 45	2831479844	2E2.29.41.47.53.239
853	2671748950	2.5E2.31.13.67.1979
R3 X	2937892010	2.5.31.43.433.509
854	2672087608	2E3.17.29.37.18311
L1 42	2964345992	2E3.71.5218919
855	2682405256	2E3.19.107.131.1259
R9 44	2706362744	2E3.31.53.109.1889
856	2688000928	2E5.71.107.11057
R9 33	2729180576	2E5.193.647.683
857	2702347270	2.7.5.1607.24023
R9 X	2860457978	2.7.17.29E2.31.461
858	2710037704	2E3.11.29.181.5867
R9 43	3057032696	2E3.233.719.2281
859	2710902590	2.5.11.23.397.2699
R9 44	2859823810	2.5.17.59.239.1193
860	2724296672	2E5.53.79.20333
L2 32	2809804768	2E5.2591.33889
861	2724801970	2.5.19.11.47.27739
L1 32	3027364430	2.5.19.359.44383
862	2732700555	3E2.5.13.19.47.5231
R9 33	2752109685	3E2.5.13.17.127.2179
863	2733105848	2E3.11.139.223439
L1 33	2897582152	2E3.31.251.46549
864	2750817650	2.5E2.7.599.13121
R9 33	3106843150	2.5E2.89.809.863
865	2766512710	2.5.13.29.733823
W1 23	2781196730	2.5.13.53.103.3919
866	2784657488	2E4.29.71.181.467
R9 43	2918727472	2E4.223.269.3041
867	2787570220	2E2.5.31.601.7481
R9 43	3266026196	2E2.17.4987.9631
868	2794450516	2E2.11.13.197.24799
R9 33	2980179884	2E2.11.79.659.1301
869	2796129128	2E3.13.17.887.1783
R9 42	3192116632	2E3.1997.199807
870	2807410016	2E5.47.643.2903
R9 33	2848002208	2E5.197.367.1231
871	2808979976	2E3.11.2393.13339
R9 34	2939492824	2E3.37.137.173.419
872	2816751938	2.7.11.13.19.74051
R9 33	3154801342	2.7.11.167.241.509
873	2828720510	2.7E2.5.11.83.6323
R9 X	3711610882	2.7.53.113.44267
874	2840437756	2E2.19.13E2.37.43.139
R9 X	3156691844	2E2.19.41.151.6709
875	2842515016	2E3.127.11.167.1523
R9 32	3056462264	2E3.127.47.64007
876	2847780584	2E3.11.557.58099
R9 34	2987783416	2E3.53.61.331.349
877	2848466620	2E2.5.17.31.131.2063
R9 53	3742595396	2E2.257.431.8447
878	2870595525	3.5E2.7.19.41.7019
R9 33	2979030075	3.5E2.7.29.389.503
879	2873321512	2E3.19.113.131.1277
W1 32	2896081688	2E3.19.107.178067
880	2874527150	2.5E2.11.137.38149
L1 32	3000878050	2.5E2.19.3158819
881	2881000792	2E3.23.41.521.733
R9 43	2912196968	2E3.17.503.42571
882	2894107455	3E3.5.17.19.31.2141
R9 33	3028094145	3E3.5.17.47.67.419
883	2896764608	2E6.53.853999
L1 X	2959967392	2E5.199.464819
884	2897960164	2E2.11E2.23.439.593
R9 33	2941867676	2E2.11E2.59.71.1451
885	2919883365	3E2.5.7.17.269.2027
R9 43	3230310555	3E2.5.19.23.164267
886	2931524416	2E6.79.569.1019
W1 32	2975499584	2E6.2719.17099
887	2932637168	2E4.37.67.107.691
R3 43	3054015376	2E4.101.683.2767
888	2935281375	3E3.5E3.13.149.449
L1 21	2961518625	3E3.5E3.13.67499
889	2944703025	3E3.5E2.11.17.41.569
R9 42	3467386575	3E3.5E2.151.34019
890	2952121352	2E3.61.19.29.10979
W1 32	3174718648	2E3.61.79.82349
891	2953084864	2E6.101.461.991
L1 32	2983785152	2E6.373.124991
892	2957909284	2E2.11.19.43.107.769
R9 43	3189277916	2E2.11.197.263.1399
893	2960375535	3E2.5.13E2.31.29.433
R9 X	2986743825	3E2.5E2.13.31.32939
894	2978701744	2E4.19.971.10091
L2 33	3103141136	2E4.173.179.6263
895	2982855752	2E3.19.47.239.1747
R9 32	3058232248	2E3.19.1279.15731
896	2995106895	3E3.5.19E2.11.37.151
L1 32	3342782385	3E3.5.19E2.113.607
897	2995750730	2.5.7E2.1223.4999
R9 X	3283369270	2.5.29.37.305999
898	2997567034	2.7.11.19.47.71.307
R9 43	3133653446	2.7.11.23.479.1847
899	3000210675	3.5E2.19.37.7.11.739
R9 32	3694598925	3.5E2.19.37.79.887
900	3000833115	3.5.7.17.19.23.3847
R9 X	3382537125	3.5E3.11.47.73.239

901	3001624450	2.5E2.11.47.83.1399
R9 43	3297972350	2.5E2.41.449.3583
902	3009763264	2E6.83.443.1279
W1 32	3053074496	2E6.1439.33151
903	3020065808	2E4.19.223.44549
L1 33	3167038192	2E4.197.349.2879
904	3024860410	2.5.11.13.23.91969
R9 43	3649954310	2.5.67.1259.4327
905	3034523630	2.5.23.17.19.40847
R9 33	3318157330	2.5.23.73.229.863
906	3036257456	2E4.19.439.22751
L1 33	3170488144	2E4.157.263.4799
907	3037569344	2E6.101.311.1511
L1 32	3073402432	2E6.503.95471
908	3054330279	3E2.7E3.13.11E2.17.37
R9 X	3568431321	3E3.7E2.13.207479
909	3065342660	2E2.5.9743.15731
R9 34	3372946876	2E2.13.107.347.1747
910	3071356244	2E2.23.229.11.29.457
R9 32	3299606956	2E2.23.229.19.8243
911	3101299916	2E2.11.13.113.47981
R9 X	3331358932	2E2.11E2.263.26171
912	3105174904	2E3.13E2.2296727
R9 X	3199343456	2E5.1097.91139
913	3107420056	2E3.13.19.331.4751
R9 43	3518768744	2E3.461.719.1327
914	3123806972	2E2.11.13.431.12671
R9 33	3313974532	2E2.11.83.191.4751
915	3124943756	2E2.11.19.1259.2969
L1 33	3161952244	2E2.11.29.149.16631
916	3135932032	2E7.101.107.2267
R9 X	3235061408	2E5.3671.27539
917	3130655065	3.5.7E2.13.29.47.241
R9 X	3535433895	3.5.7.41.131.6269
918	3143417344	2E9.89.101.683
R9 X	3280122416	2E4.113.659.2753
919	3152378344	2E3.23.31.419.1319
R9 43	3234309656	2E3.19.2687.7919
920	3188153956	2E2.13.17.31.317.367
R9 54	3417616796	2E2.11.137.211.2687
921	3202734465	3E3.5.7.17.31.59.109
R9 52	4096337535	3E3.5.439.69119
922	3216365570	2.5.11.47.769.809
R9 33	3250156030	2.5.11.107.461.599
923	3232160384	2E7.173.227.643
R9 X	3282775456	2E5.229.347.1291
924	3254018625	3E2.5E3.13.11.113.179
R9 X	3737227455	3E2.5.13.479.13337
925	3260154664	2E3.13E3.251.739
R9 X	3397181336	2E3.29.97.150959
926	3274564293	3E3.7.11.13.17.7127
R9 33	3623058747	3E3.7.11.53.131.251
927	3276399555	3E2.5.13.11.29.97.181
R9 42	3735288765	3E2.5.13.179.35671
928	3279018015	3E2.7E2.13.5.73.1567
L1 32	3943277793	3E2.7E2.13.83.8287
929	3293577950	2.5E2.31.13.149.1097
L1 32	3568482850	2.5E2.31.853.2699
930	3312096496	2E4.29.661.10799
L1 33	3337031504	2E4.59.89.39719
931	3331018845	3E2.7.5.11.17.193.293
R9 53	4356521379	3E2.7.23.41.73331
932	3334417196	2E2.11.17.53.241.349
R9 43	3581168404	2E2.11.109.769.971
933	3341224575	3E2.5E2.13.19.59.1019
L1 32	3564583425	3E2.5E2.13.239.5099
934	3359556915	3.5.11.17.13E2.19.373
R9 X	3736509645	3.5.11E3.17.101.109
935	3370176315	3E4.11.5.23.31.1061
R9 43	3735470277	3E4.11.7.47.12743
936	3373569544	2E3.41.31.71.4673
R9 33	3410834936	2E3.41.37.127.2213
937	3381430228	2E2.11.19.41.47.2099
R3 54	3731017772	2E2.23.31.89.14699
938	3382872670	2.5.19.17.179.5851
R9 33	3442900130	2.5.19.23.461.1709
939	3393478725	3.5E2.7.13.47.71.149
R9 42	3806060475	3.5E2.7.1049.6911
940	3396934125	3E3.5E3.13.139.557
R9 X	3427629075	3E3.5E2.13.167.2339
941	3401192925	3E2.5E2.13.41.79.359
R9 33	3423370275	3E2.5E2.13.59.83.239
942	3407059832	2E3.11.911.42499
L1 33	3569740168	2E3.37.67.179999
943	3408254632	2E3.23.47.229.1721
R9 33	3435662168	2E3.23.71.409.643
944	3411757220	2E2.173.5.691.1427
W1 32	3809832988	2E2.173.13.423503
945	3414281456	2E4.19.163.68903
L1 33	3591877264	2E4.263.409.2087
946	3415139192	2E3.19.47.71.6733
R9 43	3566672008	2E3.23.2729.7103
947	3425919050	2.5E2.17.103.109.359
R9 44	3468282550	2.5E2.29.59.71.571
948	3431450912	2E5.43.1439.1733
R9 33	3490122208	2E5.269.373.1087
949	3434398695	3E2.7.13.5.191.4391
R9 33	3932355609	3E2.7.13.23.107.1951
950	3437107245	3E2.5.13.11E2.59.823
R9 X	3743360595	3E3.5.13.617.3457
951	3437839568	2E4.29.659.11243
L1 33	3463727632	2E4.59.89.41227
952	3437861427	3E3.7.11.13.131.971
R9 33	3459761613	3E3.7.11.17.53.1847
953	3443251432	2E3.23.29.127.5081
R9 44	3582105368	2E3.43.83.109.1151
954	3443961465	3E2.5.23.7.53.8969
R9 32	3810113415	3E2.5.23.19.193751
955	3445207395	3.5.7E2.19.29.47.181
R9 X	3725301405	3.5.7.19.1867319
956	3452049632	2E5.43.263.9539
L1 32	3529398688	2E5.211.522719
957	3459581824	2E7.97.278639
R9 X	3503631776	2E5.139.773.1019
958	3474708976	2E4.67.109.131.227
R9 43	3503951504	2E4.37.1583.3739
959	3475340505	3E3.5.7.13E2.47.463
R9 X	4350149415	3E3.5.127.487.521
960	3481924064	2E5.71.103.14879
L1 32	3537626656	2E5.127.870479
961	3502908585	3E4.5.11.37.79.269
R9 32	3647901015	3E4.5.11.599.1367
962	3513278192	2E4.41.43.59.2111
R9 42	3746257168	2E4.7919.29567
963	3554097885	3E3.5.13E3.23.521
R9 X	3601895715	3E3.5.11.41.59159
964	3554318372	2E2.11E3.19.41.857
R9 X	3831620188	2E2.11.103.845459
965	3564199504	2E4.47.101.167.281
R9 32	3626340272	2E4.47.503.9587
966	3572444816	2E4.43.97.199.269
R9 43	3645843184	2E4.71.131.24499
967	3597402050	2.5E2.11.19.344249
R9 33	4086257950	2.5E2.149.269.2039
968	3602732595	3.5.19.7E2.11.47.499
R9 X	4276947405	3.5.19.23.29.149.151
969	3604491345	3.5.7.13.23.29.37.107
R9 52	4338226095	3.5.7.809.51071
970	3611920304	2E4.29.593.13127
L1 33	3640249456	2E4.53.109.39383
971	3647464821	3E2.7.13.11.23.29.607
R9 X	4001077899	3E2.7E2.13.31.47.479
972	3647562568	2E3.13.17.839.2459
R9 42	4163429432	2E3.1721.302399
973	3654203576	2E3.19.71.571.593
R9 43	3684785224	2E3.17.311.87119
974	3658862632	2E3.23.41.53.9151
R9 43	3813562328	2E3.43.47.235871
975	3663942220	2E2.5.71.2580241
L1 33	4138709588	2E2.13.3163.25163
976	3679922740	2E2.5.13.67.211247
R9 43	4766617292	2E2.83.3671.3911
977	3680156392	2E3.101.11.41.10099
W1 32	4108155608	2E3.101.1009.5039
978	3685361368	2E3.13E2.47.59.983
R9 X	4093749032	2E3.79.2213.2927
979	3693013664	2E5.41.131.21487
L1 31	3812143072	2E5.119129471
980	3710119780	2E2.227.5.17.53.907
R9 42	4741427996	2E2.227.71.73547
981	3715799048	2E3.13.53.223.3023
R9 44	3965644792	2E3.71.97.167.431
982	3736912936	2E3.17.43.639007
L1 33	3854502104	2E3.23.151.138731
983	3737773292	2E2.31.11.61.167.269
R9 44	3821742868	2E2.31.17.53.79.433
984	3743928045	3E2.5.13.11.223.2609
R9 33	3917194515	3E2.5.13.23.347.839
985	3751290650	2.5E2.19.29.136163
L1 33	3846660550	2.5E2.17.349.12967
986	3762853094	2.7.11.13.373.5039
R9 33	3837305626	2.7.11.19.167.7853
987	3787638940	2E2.37.5.5118431
W1 23	4381378532	2E2.37.43.73.9431
988	3797392550	2.5E2.7.107.101399
L1 X	4350300250	2.5E3.3719.4679
989	3804416572	2E2.11.43.71.127.223
R9 43	3825546692	2E2.11.31.83.33791
990	3804517244	2E2.11.17.367.13859
R9 33	3907408516	2E2.11.31.809.3541
991	3833109376	2E7.71.197.2141
R9 X	3953660384	2E5.2753.44879
992	3846301096	2E3.11.59.727.1019
R9 43	4173346904	2E3.79.83.79559
993	3848313645	3E4.5.11E5.59
R9 X	3868601715	3E4.5.11E2.89.887
994	3865930695	3E2.5.11.29.43.6263
L1 22	3873366585	3E2.5.11.29.47.5741
995	3868964990	2.5.11.43.509.1607
W1 32	3925075330	2.5.11.89.400927
996	3877164568	2E3.17.101.277.1019
W1 32	3932077832	2E3.17.5003.5779
997	3892163756	2E2.13.19.53.239.311
R9 43	4033135444	2E2.13.29.127.21059
998	3900906009	3E2.7.13.11.41.59.179
R9 44	4024393191	3E2.7.13.23.29.53.139
999	3905117576	2E3.19.47.71.7699
R9 43	4078242424	2E3.23.2399.9239
1000	3905322225	3.5E2.7.19.53.83.89
R9 X	4194159375	3.5E5.7.79.809
1001	3925579070	2.5.7.89.191.3299
R9 44	4285876930	2.5.19.199.263.431
1002	3940697128	2E3.19.53.163.3001
R9 32	4035016472	2E3.19.683.38867
1003	3949406848	2E7.211.349.419
R9 X	3997413152	2E5.139.499.1801
1004	3956965155	3E3.5.11.13E2.15767
R9 X	4353401565	3E3.5.17.71.26717
1005	3961085625	3E3.5E4.7.33533
R9 X	4419731655	3E3.5.17.137.14057
1006	3963477872	2E4.41.43.71.1979
R9 42	4203499408	2E4.359.731807
1007	3971606470	2.5.13E2.17.138239
R9 X	4224919610	2.5.19.71.107.2927
1008	3980355350	2.5E2.17.59.139.571
R9 44	4062879850	2.5E2.23.131.149.181
1009	3986534090	2.5.929.7.11.5573
L1 31	4971106870	2.5.929.535103
1010	4000783984	2E4.43.113.51461
L1 X	4001351168	2E9.1367.5717
1011	4007609528	2E3.13.29.1328783
R9 33	4363729672	2E3.61.151.59219
1012	4023332270	2.5.19.23.37.149.167
R9 43	4250331730	2.5.19.47.179.2659
1013	4028769225	3E3.5E2.13.17.113.239
R9 43	4520683575	3E3.5E2.41.379.431
1014	4029072075	3E2.5E2.7.19.134639
R9 X	4652515125	3E3.5E3.109.12647
1015	4032465344	2E6.107.191.3083
W1 32	4089162304	2E6.1151.55511
1016	4048940048	2E4.17.1451.10259
R9 33	4263876112	2E4.241.683.1619
1017	4049815250	2.5E3.13.43.28979
L1 X	4304770990	2.5.13.857.38639
1018	4053148088	2E3.79.11.583019
W1 23	4342339912	2E3.79.107.157.409
1019	4056852735	3E3.5.19.13.89.1367
R9 33	4216811265	3E3.5.19.29.83.683
1020	4063895408	2E4.19E2.449.1567
R9 X	4269946192	2E4.179.839.1777

1021	4088056208	2E4.41.53.307.383
R9 43	4227411568	2E4.71.1231.3023
1022	4095021315	3.5.7.11.23.139.1109
R9 43	4497977085	3.5.7.31.83.16649
1023	4104095930	2.5.11.47.139.5711
R9 44	4186986310	2.5.13.89.101.3583
1024	4105247230	2.7.31.5.23.83.991
R9 43	5110162946	2.7.31.71.383.433
1025	4109466950	2.5E2.31.17.83.1879
R9 X	4349991610	2.5.31.23.433.1409
1026	4123833752	2E3.17.53.61.83.113
R9 53	4532487208	2E3.71.227.35153
1027	4141715570	2.5.19.23E2.89.463
R9 X	4171865230	2.5.13.47.157.4349
1028	4143353656	2E3.13.29.509.2699
R9 43	4531746344	2E3.53.499.21419
1029	4144376145	3.5.7E2.13.41.71.149
R9 43	4542971055	3.5.7E2.53.139.839
1030	4149106335	3E4.5.11E3.43.179
L1 21	4268776545	3E4.5.11E3.7919
1031	4150593232	2E4.43.61.98899
L1 22	4213181968	2E4.43.859.7129
1032	4152981844	2E2.11E2.23.53.7039
R9 X	4341313196	2E2.11.43.797.2879
1033	4161910012	2E2.53.211.13.17.421
L1 32	4360072772	2E2.53.211.11.8861
1034	4186831005	3E3.5.7.67.89.743
R9 43	4555466595	3E3.5.23.29.50591
1035	4189882288	2E4.17.2399.6421
R9 33	4410460112	2E4.239.569.2027
1036	4210837424	2E4.23.109.113.929
R9 42	4465839376	2E4.359.777479
1037	4211873505	3E3.5.7.17.23.11399
R9 43	5243742495	3E3.5.89.607.719
1038	4242143750	2.5E5.13.109.479
R9 X	4419801850	2.5E2.19.1567.2969
1039	4261080915	3E2.7E2.13.5.43.3457
R3 32	5209468173	3E2.7E2.13.227.4003
1040	4280119305	3.5.7.11.59.107.587
R9 44	4498673655	3.5.7.31.53.89.293
1041	4281566032	2E4.29.97.251.379
R9 43	4446000368	2E4.113.239.10289
1042	4282854730	2.5.7.11.761.7309
R9 42	5342485430	2.5.1087.491489
1043	4288758056	2E3.11.4513.10799
R9 34	4486457944	2E3.47.73.149.1097
1044	4312833832	2E3.29.31.521.1151
R9 33	4346519768	2E3.29.47.191.2087
1045	4313390445	3E2.7.13.5.23.41.1117
R9 42	5531592339	3E2.7.13.1031.6551
1046	4321518201	3E2.7E2.13.11.17.29.139
R9 X	5089774599	3E2.7E3.13.53.2393
1047	4331452790	2.7.41.5.47.163.197
R9 43	5095298698	2.7.41.23.107.3607
1048	4346372745	3E2.11.13.17.5.67.593
R9 32	5180969079	3E2.11.13.17.43.5507
1049	4355468325	3E2.5E2.13.19.109.719
R9 32	4581459675	3E2.5E2.13.89.17599
1050	4373598075	3.5E2.11.7.17.44549
W3 32	5172219525	3.5E2.11.43.145799
1051	4377238047	3E2.7.13.17.29.37.293
R9 X	4406635233	3E2.7.13.11E2.53.839
1052	4377991936	2E8.293.58367
L1 22	4390866176	2E8.3583.4787
1053	4396203070	2.5.7E2.107.191.439
R9 X	4964856770	2.5.31.131.179.683
1054	4400527095	3E5.5.17.23.59.157
R9 43	4543739145	3E5.5.11.359.947
1055	4414931650	2.5E2.31.23.59.2099
R9 33	4584492350	2.5E2.31.89.167.199
1056	4416880923	3E2.7E2.13.19.23.41.43
R2 32	4785272037	3E2.7E2.13.19.197.223
1057	4429428675	3.5E2.7.19.167.2659
L1 22	4436670525	3.5E2.7.19.239.1861
1058	4458625504	2E5.37.269.13999
L1 32	4590694496	2E5.797.179999
1059	4488453968	2E4.17.2351.7019
R9 33	4724706352	2E4.223.701.1889
1060	4490950220	2E2.5.71.3162641
L1 33	5072879188	2E2.13.3083.31643
1061	4516391295	3E2.5.13.19.59.71.97
R9 43	4729791105	3E2.5.13.29.83.3359
1062	4522539070	2.5.7.17.73.79.659
R9 53	5604923330	2.5.593.739.1279
1063	4569376424	2E3.19.43.83.8423
R9 43	4771154776	2E3.23.1871.13859
1064	4570182110	2.5.13.23.479.3191
R9 44	4696321570	2.5.17.37.127.5879
1065	4582247428	2E2.11.29.79.131.347
R9 32	4678450172	2E2.11.29.463.7919
1066	4589689390	2.5.11.13.167.19219
R9 X	5174685650	2.5E2.79.881.1487
1067	4594486048	2E5.53.463.5851
R9 33	4643059808	2E5.173.223.3761
1068	4604839810	2.5.19.17.37.53.727
R9 42	5075347070	2.5.19.151.176903
1069	4617085725	3E3.5E2.7.53.103.179
R9 X	5410843875	3E3.5E3.479.3347
1070	4634941234	2.7.11.17.37.59.811
R9 X	4962509006	2.7E2.13.47.179.463
1071	4667500708	2E2.19.13.97.113.431
R9 43	4792055132	2E2.19.17.83.44687
1072	4671243424	2E5.43.3394799
W1 23	4739142176	2E5.229.263.2459
1073	4702051046	2.7.23.11E2.17.31.229
R9 X	5446976794	2.7.23.29.151.3863
1074	4709813710	2.5.7.1307.51479
R9 X	4986547250	2.5E3.47.59.7193
1075	4721483056	2E4.23.139.241.383
R9 43	4957897424	2E4.197.439.3583
1076	4754422208	2E6.157.269.1759
R9 32	4780940992	2E6.197.379199
1077	4763730208	2E5.17.1949.4493
L1 X	5173851992	2E3.41.15773939
1078	4771436296	2E3.11.23.271.8699
R9 42	5451411704	2E3.7649.89087
1079	4784209576	2E3.19.23.29.47189
L1 42	5408830424	2E3.197.3431999
1080	4785332175	3E5.5E2.13E2.59.79
R9 X	5126533425	3E2.5E2.13.479.3659
1081	4796703664	2E4.43.67.104059
L1 22	4855069456	2E4.43.373.18919
1082	4800749954	2.7.11.13.73.107.307
R9 43	5124163198	2.7.11.43.83.9323
1083	4802570325	3E3.5E2.7.293.3469
L1 X	5317615275	3.5E2.7.139.72869
1084	4839564015	3E2.5.13.11.61.12329
R9 X	5177919825	3E2.5E2.13.359.4931
1085	4842186615	3E3.5.7E2.359.2039
R9 X	5204405385	3E3.5.23.37.89.509
1086	4859601232	2E4.17.2939.6079
R9 33	5114760368	2E4.227.599.2351
1087	4863771495	3E3.5.11.43.59.1291
R9 32	4959562905	3E3.5.11.47.71059
1088	4875810975	3E2.5E2.31.7.37.2699
R9 32	5709225825	3E2.5E2.31.449.1823
1089	4878141590	2.7E2.5.233.42727
R9 33	5380167562	2.7E2.11.653.7643
1090	4893008692	2E2.11.109.13.78479
L1 22	5259164108	2E2.11.109.839.1307
1091	4900571656	2E3.19.71.83.5471
R9 32	5027825144	2E3.19.2267.14591
1092	4903965044	2E2.11.17.1129.5807
R9 33	5019351436	2E2.11.29.1451.2711
1093	4911038510	2.5.7.149.479.983
R9 44	5291073490	2.5.29.31.409.1439
1094	4931246565	3E2.5.7E2.29.67.1151
R9 X	5517209115	3E2.5.11.683.16319
1095	4937340976	2E4.37.47.61.2909
R9 42	5264327504	2E4.5471.60139
1096	4960116850	2.5E2.13.89.179.479
R9 43	5164235150	2.5E2.19.863.6299
1097	4960585125	3E3.5E3.31.17.2789
R9 X	5067344475	3E3.5E2.31.23.10529
1098	4967430490	2.5.19.11.139.17099
R9 33	5374649510	2.5.19.113.167.1499
1099	4980118690	2.5.31.19.61.83.167
R9 43	5099236190	2.5.31.17.223.4339
1100	4999722525	3E2.5E2.7.17.29.47.137
R9 X	6532396515	3E2.5.59.863.2851
1101	5001083252	2E2.11.19.1583.3779
R9 34	5057950348	2E2.11.59.107.131.139
1102	5032905345	3E2.5.13E2.61.19.571
L1 X	5091357375	3E2.5E3.13E2.61.439
1103	5047072690	2.5.11.37.743.1669
R9 X	5151203150	2.5E2.17.191.31729
1104	5048426630	2.5.13.23.563.2999
R9 44	5184789370	2.5.17.31.349.2819
1105	5060442170	2.5.7E2.31.79.4217
R9 X	6018387910	2.5.73.113.72959
1106	5063925616	2E4.43.71.83.1249
R9 43	5247914384	2E4.79.769.5399
1107	5088028550	2.5E2.11.499.18539
R9 33	5257291450	2.5E2.19.199.27809
1108	5088398630	2.5.7E2.1319.7873
R9 X	5575517050	2.5E2.37.1187.2539
1109	5113096443	3E2.7E2.13.17.23.2281
R9 33	5113841733	3E2.7E2.13.11.83.977
1110	5118127490	2.7.5.37.167.11833
R9 X	5760821374	2.7.11E2.487.6983
1111	5131883330	2.5.7.17.103.149.281
R9 53	6270843070	2.5.107.1879.3119
1112	5156687470	2.5.11.53.419.2111
R9 33	5189747090	2.5.11.131.139.2591
1113	5157409576	2E3.11.37.179.8849
R9 43	5738710424	2E3.113.269.23599
1114	5164511625	3E2.7.13.5E3.61.827
R9 X	6495742071	3E2.7.13.103.77003
1115	5188836656	2E4.59.61.251.359
R9 43	5272993744	2E4.53.199.31247
1116	5191917776	2E4.17.167.114299
L1 32	5523021424	2E4.761.453599
1117	5200086344	2E3.17.269.307.463
R9 44	5218198456	2E3.19.131.503.521
1118	5200799264	2E5.53.1439.2131
R9 33	5243612896	2E5.107.491.3119
1119	5221345844	2E2.11.13.19.353.1361
R9 53	6118775116	2E2.17.9439.9533
1120	5228978728	2E3.17E2.53.139.307
R9 X	5493671672	2E3.41.89.307.613
1121	5257013762	2.7.11.43.13.79.773
R9 32	5728089598	2.7.11.43.839.1031
1122	5290961056	2E5.67.199.12401
R9 33	5335072544	2E5.149.211.5303
1123	5296175750	2.5E3.17.29.97.443
R9 X	5700176890	2.5.19.83.181.1997
1124	5301374925	3.5E2.11.7E2.199.659
R9 X	5894337075	3.5E2.11.23.113.2749
1125	5302349776	2E4.17.2267.8599
R9 33	5581328624	2E4.257.449.3023
1126	5319472184	2E3.13.41.199.6269
R9 43	5740807816	2E3.37.3079.6299
1127	5321930128	2E4.29.53.379.571
R9 43	5593889072	2E4.197.569.3119
1128	5325459184	2E4.43.139.233.239
R9 43	5398854416	2E4.41.1559.5279
1129	5375620496	2E4.29.83.97.1439
R9 43	5648673904	2E4.199.503.3527
1130	5381495288	2E3.13.23.191.11779
R9 43	6017775112	2E3.127.433.13679
1131	5389403950	2.5E2.7.1999.7703
R9 33	6074148050	2.5E2.79.641.2399
1132	5403806252	2E2.13.17.239.25577
L1 44	5424895828	2E2.11.23.521.10289
1133	5442123375	3E3.5E3.13.71.1747
R9 X	5552656785	3E3.5.13.37.233.367
1134	5444062533	3E2.7E2.13.19.23.41.53
R9 32	5849488827	3E2.7E2.13.19.83.647
1135	5444435745	3E2.5.7.61.67.4229
R9 X	5683780575	3E2.5E2.11.563.4079
1136	5447262776	2E3.23.47.83.7589
R9 33	5569774024	2E3.23.179.263.643
1137	5454702435	3.5.7.13.43.199.467
W1 32	5615556765	3.5.7.13.1319.3119
1138	5455059448	2E3.127.19E2.107.139
R9 X	5605522952	2E3.127.41.53.2539
1139	5477707264	2E9.59.149.1217
R9 X	5736418736	2E4.131.1049.2609
1140	5497064685	3E2.5.7.83.167.1259
R9 32	5598354195	3E2.5.7.3527.5039

1141	5502084136	2E3.17.199.263.773
R9 44	5532059864	2E3.31.53.89.4729
1142	5502767650	2.5E2.19.37.89.1759
W1 32	5692944350	2.5E2.19.227.26399
1143	5513127795	3E2.5.17.7.29.131.271
R9 42	6585084045	3E2.5.17.1087.7919
1144	5546461305	3.7.11.5.47.83.1231
R9 44	5898483591	3.7.11.13.17.43.2687
1145	5552366085	3E2.5.7.79.347.643
W1 32	5635304955	3E2.5.7.463.38639
1146	5562037616	2E4.43.59.263.521
R9 43	5716169104	2E4.71.241.20879
1147	5574272535	3E2.5.13.19.43.107.109
R9 43	5841932265	3E2.5.13.23.449.967
1148	5575354850	2.5E2.13.17.83.6079
R9 X	6393879070	2.5.41.139.151.743
1149	5579526590	2.5.11E2.89.197.263
R9 32	5682998530	2.5.11E2.659.7127
1150	5587409230	2.5.13.19.1451.1559
R9 33	5828795570	2.5.13.199.233.967
1151	5592854630	2.5.19.11.569.4703
R9 33	5990274970	2.5.19.71.167.2659
1152	5607553016	2E3.13.149.361871
R9 34	5791414984	2E3.41.59.139.2153
1153	5609702696	2E3.13.29.107.17383
R9 43	6218370904	2E3.89.317.27551
1154	5619401456	2E4.29.79.83.1847
R9 42	5929859344	2E4.191.1940399
1155	5640198165	3E2.5.19.7E2.61.2207
R9 X	6532594155	3E2.5.19.47.162563
1156	5668081984	2E6.223.311.1277
R9 33	5675159744	2E6.283.431.727
1157	5676646514	2.7.11E2.23.53.2749
R9 X	5699641486	2.7E2.11.41.43.2999
1158	5697735225	3.5E2.7.13.167.4999
L1 32	5968184775	3.5E2.7.29.391999
1159	5715251290	2.5.7.53.1540499
R9 34	6263676710	2.5.23.89.157.1949
1160	5725765580	2E2.5.17.467.36061
L1 43	7033258516	2E2.37.107.444131
1161	5745724875	3E4.11.5E3.23.2243
R9 X	6453305397	3E4.11.7.67.15443
1162	5747841099	3E2.7.13.11E2.31.1871
R9 X	5852448693	3E5.7.13.23.37.311
1163	5766520288	2E5.59.599.5099
R9 33	5800279712	2E5.101.359.4999
1164	5771384168	2E3.11.103.599.1063
R9 43	6179463832	2E3.37.233.89599
1165	5797165010	2.7E2.5.13.881.1033
R9 43	7302630622	2.7E2.41.293.6203
1166	5797844128	2E5.79.181.12671
R9 33	5825928032	2E5.83.1319.1663
1167	5806329830	2.5.7.29.59.48479
R9 43	6759686170	2.5.47.89.161599
1168	5815260550	2.11.31.5E2.17.20063
R9 X	7082199674	2.11.31.37.43.61.107
1169	5845926555	3E2.5.19.7.37.26399
R9 X	6674009445	3E3.5.19.439.5927
1170	5849277512	2E3.13.179.223.1409
R9 44	6089474488	2E3.41.59.419.751
1171	5857529678	2.7E3.13.11.29E2.71
R9 X	6785209522	2.7.13.239.389.401
1172	5864752630	2.5.11E2.53.109.839
R9 X	6080349770	2.5.11.2393.23099
1173	5871076575	3.5E2.7.13.79.10889
R9 33	6228149025	3.5E2.7.43.263.1049
1174	5885347545	3E3.5.7.11.257.2203
R9 42	7215933735	3E3.5.47.1137263
1175	5906679975	3E5.5E2.7.138899
R9 X	6632100825	3.5E2.7.2777.4549
1176	5907430305	3E3.5.7.151.41399
R9 34	6174745695	3E3.5.17.31.229.379
1177	5907709665	3E2.5.13.11.79.11621
R9 X	6275865375	3E2.5E3.13.429119
1178	5924391392	2E5.43.443.9719
R9 33	6038673568	2E5.263.647.1109
1179	5935418265	3.5.7E2.19.47.9043
R9 X	5941886055	3.5.7.19.37.101.797
1180	5936514512	2E4.17.659.33119
R9 33	6260919088	2E4.263.919.1619
1181	5939023970	2.5.11.29.383.4861
W1 32	6159187870	2.5.11.4159.13463
1182	5945041304	2E3.17.37E3.863
R9 X	6199515496	2E3.23.821.41039
1183	5983596512	2E5.79.227.10427
L1 22	5999426848	2E5.79.631.3761
1184	5990705656	2E3.13.59.71.13751
R9 43	6485108744	2E3.41.647.30559
1185	5992992495	3E3.5.7.71.179.499
R9 44	6448607505	3E3.5.19.47.149.359
1186	6001753725	3E5.5E2.11.19.29.163
R9 X	7322393475	3E2.5E2.79.491.839
1187	6024547696	2E4.29.83.311.503
R9 43	6259666064	2E4.107.293.12479
1188	6031567575	3E2.5E2.11.19.47.2729
R9 43	6642621225	3E2.5E2.17.167.10399
1189	6042829905	3E3.5.7.23.29.9587
R9 43	7211621295	3E3.5.31.1223.1409
1190	6045115850	2.5E2.17.41.89.1949
R9 43	6293938150	2.5E2.29.53.81899
1191	6066248175	3E2.5E2.13.31.149.449
L1 21	6120471825	3E2.5E2.13.31.67499
1192	6067647728	2E4.29.41.313.1019
R9 42	6442489072	2E4.449.896783
1193	6082113015	3E4.5.11.29.179.263
R9 32	6337714185	3E4.5.11.593.2399
1194	6104216464	2E4.59.107.223.271
R9 44	6135000176	2E4.101.127.167.179
1195	6104279475	3E4.5E2.7.499.863
R9 X	6859176525	3E3.5E2.53.109.1759
1196	6107550855	3.5.7E2.19.41.10667
R9 X	6151261305	3.5.7E2.19E2.97.239
1197	6108334785	3E2.5.7.83.167.1399
W1 32	6219908415	3E2.5.7.2239.8819
1198	6135028624	2E4.59.73.127.701
R9 43	6232751216	2E4.47.359.23087
1199	6143533695	3E4.5.13.17.68639
L1 22	6414291585	3E4.5.13.71.17159
1200	6146662545	3E2.5.17.19.53.79.101
R9 44	6226508655	3E2.5.17.29.59.67.71
1201	6155750475	3E2.5E2.7.23.109.1559
R9 X	7121971125	3E2.5E3.59.61.1759
1202	6158708048	2E4.17.811.27919
L1 32	6491732272	2E4.173.2345279
1203	6179700345	3.5.7.13.17.79.3371
R9 43	6872367495	3.5.7.47.59.23603
1204	6181674850	2.5E2.13.59.359.449
R9 43	6473765150	2.5E2.23.139.40499
1205	6200951625	3E3.5E3.11.19.59.149
R9 42	7277448375	3E3.5E3.719.2999
1206	6217030755	3E2.5.13.19.23.83.293
R9 43	6727624605	3E2.5.13.41.179.1567
1207	6249563650	2.5E2.11.449.25307
R9 34	6460113950	2.5E2.29.89.113.443
1208	6255734650	2.5E2.11.1487.7649
R9 34	6447916550	2.5E2.29.61.269.271
1209	6261264590	2.5.7E2.149.191.449
R9 X	7035695410	2.5.37.53.499.719
1210	6262961888	2E5.41.4773599
W1 23	6367983712	2E5.179.1019.1091
1211	6275937424	2E4.19.509.40559
L1 33	6549134576	2E4.179.199.11491
1212	6284451608	2E3.17.113.191.2141
W1 32	6374254312	2E3.17.4787.9791
1213	6287302312	2E3.19.29.881.1619
R9 44	6572257688	2E3.41.89.149.1511
1214	6305672368	2E4.17.751.30869
R9 33	6647873552	2E4.251.839.1973
1215	6307360510	2.5.11.29.461.4289
W1 32	6535869890	2.5.11.1451.40949
1216	6343170730	2.5.17.13.67.42839
R9 33	6870741590	2.5.17.271.293.509
1217	6353438175	3E3.5E2.7.29.199.233
R9 42	7574241825	3E3.5E2.1151.9749
1218	6356368136	2E3.17.23.103.109.181
R9 53	7135510264	2E3.131.2027.3359
1219	6370495978	2.7E2.19.23.11.13523
L1 21	6950103062	2.7E2.19.23.162287
1220	6386741384	2E3.37.23.71.73.181
R3 42	6878699896	2E3.37.701.33151
1221	6397019750	2.5E3.11.19.191.641
R9 X	7447992730	2.5.31.3209.7487
1222	6451021016	2E3.11.41.103.17359
R9 43	7198105384	2E3.97.1151.8059
1223	6460278688	2E5.61.199.16631
R9 33	6532639712	2E5.139.359.4091
1224	6478496595	3E2.5.17.19.23.19379
L1 22	6582073005	3E2.5.17.19.37.12239
1225	6506173275	3.5E2.7.17.599.1217
R9 33	6542991525	3.5E2.7.19.521.1259
1226	6534418330	2.5.11.29.1319.1553
W1 32	6757876070	2.5.11.599.102563
1227	6559115488	2E5.53.281.13763
R9 X	6645570608	2E4.41.971.10433
1228	6562770525	3E3.5E2.31.17.19.971
R9 31	7322055075	3E3.5E2.31.349919
1229	6575884876	2E2.19.41.11E2.107.163
R9 X	7275607604	2E2.19.41.113.20663
1230	6589526450	2.5E2.13.23.29.15199
R9 42	7659561550	2.5E2.11969.12799
1231	6677930385	3E5.7.5.37.21221
R9 X	7412119407	3E5.7E2.11.56591
1232	6682859001	3E2.7.13.17.23.41.509
R9 33	6790149639	3E2.7.13.17.29.67.251
1233	6692989624	2E3.17.101.293.1663
W1 32	6780019016	2E3.17.1087.45863
1234	6716127352	2E3.53.11.971.1483
W1 32	7304467208	2E3.53.211.81647
1235	6718067096	2E3.13.59.79.13859
R9 44	7252812904	2E3.83.131.199.419
1236	6722173575	3E2.5E2.13E2.17.10399
L1 22	7083639225	3E2.5E2.13E2.311.599
1237	6741318350	2.5E2.13.89.116531
L1 X	6913901410	2.5.13.53.1003469
1238	6742313936	2E4.29.47.309167
R9 33	7058945584	2E4.151.431.6779
1239	6752047995	3E2.7.11.5.1151.1693
W1 32	7860694149	3E2.7.11.31.365903
1240	6764433170	2.5.11.23.47.163.349
R9 53	7518523630	2.5.19.383.103319
1241	6768593968	2E4.29.2089.6983
L2 33	6806206832	2E4.37.439.26189
1242	6771898208	2E5.71.151.19739
R9 33	6838279072	2E5.113.563.3359
1243	6777002584	2E3.11.37.233.8933
R9 43	7522400456	2E3.107.227.38713
1244	6788375248	2E4.41.109.139.683
R9 43	6926371952	2E4.47.2309.3989
1245	6789022528	2E6.89.239.4987
W1 32	6894059072	2E6.8599.12527
1246	6794712832	2E8.89.298223
R9 X	6920608928	2E5.227.653.1459
1247	6845195390	2.5.11.53.139.8447
R9 33	6950050690	2.5.11.167.239.1583
1248	6862936275	3E3.5E2.13.29.149.181
R9 X	7354903725	3E2.5E2.13.503.4999
1249	6885178846	2.7E2.19.13.23.83.149
R9 43	7593733154	2.7E2.19.31.293.449
1250	6891050528	2E5.29.2053.3617
R9 X	7154242552	2E3.23E2.971.1741
1251	6898979516	2E2.11.13E2.269.3449
R9 X	7420038484	2E2.17.29.149.25253
1252	6908106488	2E3.19.23.223.8861
L1 42	7384527112	2E3.31.29776319
1253	6921765752	2E3.11.79.995651
L1 33	7415623048	2E3.53.83.210719
1254	6943893957	3E2.7.13.19.11.113.359
R9 X	7397123643	3E2.7E2.13.19.59.1151
1255	6960968212	2E2.19.11.37.139.1619
R9 44	7517943788	2E2.19.53.83.113.199
1256	6999092624	2E4.19.149.191.809
R9 42	7464267376	2E4.20249.23039
1257	7035981610	2.5.7.53.109.127.137
R9 53	8073097430	2.5.29.197.141311
1258	7072796115	3E2.5.7.11.709.2879
R9 44	8238666285	3E2.5.19.79.283.431
1259	7074650624	2E9.947.14591
L1 22	7076729344	2E9.1367.10111
1260	7096666610	2.5.11.53.719.1693
R9 33	7129680910	2.5.11.83.269.2903

1261	7107900496	2E4.23.79.244493
L2 33	7444382384	2E4.191.281.8669
1262	7125887110	2.5.17.19.103.21419
R9 33	7309479290	2.5.17.29.1039.1427
1263	7127201475	3E3.5E2.31.23.59.251
R9 33	7271876925	3E3.5E2.31.53.79.83
1264	7131782710	2.5.17.13.89.101.359
R9 42	7858790090	2.5.17.1223.37799
1265	7143425289	3E3.7.13.11.113.2339
R9 X	7197592311	3E3.7E2.13.17.103.239
1266	7148883170	2.5.11.13.89.56171
R9 X	8138888350	2.5E2.179.251.3623
1267	7194869650	2.5E2.19.43.176129
W1 23	7219609550	2.5E2.19.109.113.617
1268	7268766832	2E4.53.61.83.1693
R9 43	7499850416	2E4.71.461.14321
1269	7274734155	3E2.5.13.19.53E2.233
R9 X	7356799125	3E2.5E3.13.41.12269
1270	7278278085	3E4.5.13.17.233.349
R9 32	7705490715	3E4.5.13.139.10529
1271	7307312410	2.5.19.37.29.73.491
L1 32	7634530790	2.5.19.37.179.6067
1272	7317585748	2E2.19.11.71.113.1091
R9 44	7740482732	2E2.19.37.53.167.311
1273	7319982604	2E2.11E2.17.389.2287
R9 X	7633515956	2E2.11.41.659.6421
1274	7335940912	2E4.17.349.77279
R9 33	7756843088	2E4.419.1049.1103
1275	7336299285	3E2.5.7.19.443.2767
R9 X	8001520875	3E3.5E3.47.73.691
1276	7336566710	2.5.19.11.83.42293
R9 33	8011080010	2.5.19.151.293.953
1277	7347995392	2E8.269.106703
L1 X	7373955488	2E5.71.3245579
1278	7353700965	3E3.5.13.17.103.2393
R9 33	7704367515	3E3.5.13.83.227.233
1279	7390033144	2E3.13.17.491.8513
R9 42	8443963496	2E3.11351.92987
1280	7393819030	2.5.19.13.227.13187
R9 33	7760775530	2.5.19.37.313.3527
1281	7430796945	3E2.5.13.11E2.113.929
R9 X	7967123775	3E2.5E2.13.569.4787
1282	7460005875	3.5E3.7.17.349.479
R9 33	7635802125	3.5E3.7.47.59.1049
1283	7480768832	2E6.233.239.2099
R9 33	7497103168	2E6.269.599.727
1284	7482410325	3E2.5E2.13.31.179.461
R9 X	7531628715	3E2.5.13.31.29.14321
1285	7483202870	2.5.11.13.1499.3491
R9 43	8356509130	2.5.19.3023.14549
1286	7504585408	2E6.79.491.3023
W1 32	7611543872	2E6.1279.92987
1287	7523483030	2.5.7E2.53.271.1069
R9 X	8601297130	2.5.37.71.327419
1288	7534469228	2E2.19.11.13.761.911
R9 X	8810613652	2E2.19E2.227.26879
1289	7562801950	2.5E2.11.2099.6551
L1 X	7792465250	2.5E3.19.1640519
1290	7572722157	3E4.7.11.13.59.1583
R9 33	7883062803	3E4.7.11.23.179.307
1291	7579753125	3.5E5.7.19.6079
R9 X	7619274075	3.5E2.7.19.419.1823
1292	7591540816	2E4.23.3533.5839
R9 33	7763547824	2E4.71.151.45259
1293	7592910975	3E3.5E2.13.43.20123
R9 X	7778605185	3E2.5.13.43.29.10663
1294	7593626504	2E3.17.107.373.1399
W1 32	7674549496	2E3.17.479.117809
1295	7608153350	2.5E2.7.179.121439
R9 33	8655091450	2.5E2.137.383.3299
1296	7631131095	3E4.5.59.7.43.1061
R9 32	8652642345	3E4.5.59.31.11681
1297	7644728944	2E4.67.83.151.569
R9 43	7696789136	2E4.37.607.21419
1298	7689014456	2E3.17.101.389.1439
W1 32	7777449544	2E3.17.599.95471
1299	7693403445	3E2.7.13.47.5.71.563
R9 32	9334667979	3E2.7.13.47.281.863
1300	7696871576	2E3.19.53.127.7523
R9 31	7904894824	2E3.19.52005887
1301	7716789124	2E2.59.11.17.19.9203
R9 43	8982948476	2E2.59.29.103.12743
1302	7720248712	2E3.11.2819.31121
R9 34	8077278488	2E3.37.107.181.1409
1303	7735239556	2E2.11.43.71.89.647
R9 43	7784412284	2E2.11.23.1759.4373
1304	7779344980	2E2.137.5.11.258107
R9 32	10172582636	2E2.137.941.19727
1305	7780806075	3.5E2.7.17.149.5851
R9 X	7893190725	3.5E2.7E2.43.199.251
1306	7787330704	2E4.53.59.317.491
W1 32	7927109936	2E4.53.239.39113
1307	7800706940	2E2.5.13.167.179657
L1 43	9946628932	2E2.53.1511.31051
1308	7807697504	2E5.59.1847.2239
R9 33	7839688096	2E5.109.223.10079
1309	7822669778	2.7E2.11.19.167.2287
R9 X	7952449582	2.7.11.19.131.20747
1310	7877348704	2E5.61.89.45343
L1 32	8062881056	2E5.239.1054247
1311	7900303190	2.5.31.13.619.3167
R9 X	7938683050	2.5E2.31.47.59.1847
1312	7920502317	3E2.7.13.19.17.79.379
R9 33	8013961683	3E2.7.13.19.31.37.449
1313	7923037772	2E2.19.37.13.73.2969
R9 32	8446176628	2E2.19.37.41.73259
1314	7941148664	2E3.97.17.193.3119
R9 33	8074560136	2E3.97.23.389.1163
1315	7941474368	2E6.79.373.4211
L1 32	8063451712	2E6.4679.26927
1316	7961973140	2E2.5.11.67.727.743
R9 52	10600838764	2E2.1637.1618943
1317	7983560655	3E2.5.17.7.29.101.509
R9 42	9545098545	3E2.5.17.2447.5099
1318	8006813199	3E3.7E2.19.11.23.1259
R9 X	8540514801	3E3.7.19.13.113.1619
1319	8038783948	2E2.13.17.19.307.1559
R9 43	8912550452	2E2.13.139.701.1759
1320	8052147896	2E3.13.509.152111
R9 X	8239047304	2E3.23.97E2.4759
1321	8056050244	2E2.11.29.53.139.857
R9 43	8289879356	2E2.11.43.107.40949
1322	8077248916	2E2.11.19.59.83.1973
R9 54	8637003884	2E2.17.23.1879.2939
1323	8119394450	2.5E2.31.19.23.11987
R9 X	9005223790	2.5.31.73.107.3719
1324	8135645416	2E3.19.41.911.1433
W1 32	8342735384	2E3.19.1367.40151
1325	8167602105	3E2.5.13.19.23.43.743
R9 43	8991299655	3E2.5.13.61.197.1279
1326	8188640048	2E4.41.47.349.761
R9 43	8479043152	2E4.97.239.22859
1327	8201184795	3E4.5.17.19.71.883
R9 33	8433856485	3E4.5.17.47.67.389
1328	8226127472	2E4.29.107.223.743
R9 43	8512801168	2E4.71.1889.3967
1329	8237044408	2E3.17.47.1288649
R9 34	8463859592	2E3.43.53.109.4259
1330	8249841116	2E2.11.19.89.110879
R9 33	8515214884	2E2.11.59.71.46199
1331	8260626368	2E6.103.211.5939
L1 32	8371943872	2E6.857.152639
1332	8263107788	2E2.23.47.13.17.8647
L1 32	9310735156	2E2.23.47.83.25943
1333	8269106625	3E2.13E2.31.61.5E3.23
L1 X	9402333759	3E2.13E2.31.61.7.467
1334	8275510971	3E2.7E2.13.19.17.41.109
R9 32	8978525829	3E2.7E2.13.19.139.593
1335	8279312030	2.5.11.37.881.2309
R9 X	8443831330	2.5.11E2.1187.5879
1336	8283367504	2E4.17.1439.21163
R9 33	8722329776	2E4.263.443.4679
1337	8293896650	2.5E2.13.89.307.467
R9 X	8596897270	2.5.13.131.181.2789
1338	8307557128	2E3.269.13.23.12911
R9 32	9263092472	2E3.269.127.33893
1339	8315723650	2.5E2.31.13.139.2969
W1 32	9008167550	2.5E2.31.659.8819
1340	8348580350	2.5E2.11.3163.4799
L1 33	8600334850	2.5E2.17.2239.4519
1341	8367278048	2E5.59.79.56099
L1 32	8597361952	2E5.439.611999
1342	8376676490	2.7.5.13.19E2.43.593
R9 X	11698280566	2.7.967.864107
1343	8452751584	2E5.59.1511.2963
R9 33	8487575456	2E5.79.1481.2267
1344	8455838230	2.7.5.97.911.1367
R9 X	9150518762	2.7.11E2.83.151.431
1345	8459517832	2E3.17E3.31.53.131
R9 X	9400398968	2E3.79.2087.7127
1346	8467262505	3E4.5.13E2.17.19.383
R9 X	9899027415	3E4.5.31.487.1619
1347	8490604005	3E3.5.13.19.89.2861
R9 43	8818771995	3E3.5.11.83.71549
1348	8491739828	2E2.13.11E2.103.13103
R9 X	9271203916	2E2.13.83.227.9463
1349	8502526305	3E2.7E2.13.5.47.6311
R9 X	10355911839	3E2.7.13.53.227.1051
1350	8508118180	2E2.5.17.37.307.2203
R9 53	10993367516	2E2.131.167.125627
1351	8508405465	3E2.5.7.79.181.1889
R3 32	8663076135	3E2.5.7.1871.14699
1352	8517106125	3E3.5E3.11.383.599
R9 33	8735245875	3E3.5E3.29.31.2879
1353	8521860555	3E6.5.13.17.71.149
R9 43	9326392245	3E6.5.23.53.2099
1354	8534619752	2E3.17.23.71.83.463
R9 53	9650022808	2E3.347.503.6911
1355	8557778500	2E2.5E3.197.283.307
R9 X	10355067452	2E2.23.9371.12011
1356	8575844056	2E3.13.71.347.3347
R9 44	9040528424	2E3.53.61.431.811
1357	8628307636	2E2.13.17.79.123551
R9 34	8807350604	2E2.13.31.131.179.233
1358	8645093145	3E5.5.13.23.53.449
R9 32	9186830055	3E5.5.13.599.971
1359	8651076434	2.7.11.13.23.89.2111
R9 43	9742585006	2.7.11.223.239.1187
1360	8658321632	2E5.71.79.48239
R9 33	8847009568	2E5.401.599.1151
1361	8676652328	2E3.19E2.47.97.659
R9 X	9066365272	2E3.43.59.587.761
1362	8717951385	3E2.5.13.11E2.79.1559
R9 X	9407501415	3E2.5.13.37.223.1949
1363	8804881305	3E3.5.11.37.191.839
R9 44	8845601895	3E3.5.13.29.151.1151
1364	8808227056	2E4.59.71.113.1163
R9 43	8962421264	2E4.53.227.46559
1365	8834761364	2E2.11.13.83.379.491
R9 55	9633895276	2E2.23.37.97.163.179
1366	8850661358	2.7E2.19.11.601.719
R9 X	8937716242	2.7.19.13.89.113.257
1367	8851379072	2E7.29.433.5507
R9 X	9435731728	2E4.3467.170099
1368	8894283788	2E2.13.17.113.269.331
R9 54	9131961652	2E2.11.41.107.47309
1369	8902642875	3.5E3.7.17.199499
L1 23	9023629125	3.5E3.7.29.113.1049
1370	8924047490	2.5.17.19.521.5303
R9 X	9017050750	2.5E3.17.271.7829
1371	8935581375	3E2.5E3.7.53.79.271
R9 X	10128267585	3E2.5.19.47.103.2447
1372	8952142815	3E3.5.7.11.53.16249
R9 43	11265457185	3E3.5.179.311.1499
1373	8960679970	2.5.11.41.683.2909
R9 44	9096591710	2.5.17.37.71.20369
1374	8971549180	2E2.5.11.2963.13763
R9 X	11589884804	2E2.151.211E2.431
1375	8975660265	3E2.5.13.11.47.59.503
R6 43	10045057815	3E2.5.13.107.383.419
1376	8990017384	2E3.17.59.1120391
R9 34	9160333016	2E3.37.53.103.5669
1377	8996364572	2E2.17.29.13.89.3943
R9 32	9788118628	2E2.17.29.1019.4871
1378	9006915928	2E3.17.59.317.3541
R9 43	9240051272	2E3.19.1931.31481
1379	9008575485	3.5.7.13.17.23.16879
R9 43	10592750595	3.5.7.127.269.2953
1380	9018517725	3E4.5E2.7.349.1823
R9 X	10138589475	3.5E2.7.19311599

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1381  9029724795 3E2.7.13.5.31.83.857
R9 43 11118146949 3E2.7.13.71.263.727
1382 9054843104 2E5.67.383.11027
L1 32 9086834464 2E5.71.3999487
1383 9070949152 2E5.53.83.64439
R9 32 9343940768 2E5.971.300719
1384  9075291470 2.7E2.5.23.43.61.307
R9 X  11614384306 2.7.41.113.241.743
1385 9083125275 3.5E2.7.19.139.6551
R9 33 9115709925 3.5E2.7.29.47.12739
1386 9086970310 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 2E5.79.113.31859
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 2E5.53.241.22409
L1 X  9290429416 2E3.17.4157.16433
1392  9160950225 3.5E2.19.7.17.89.607
R9 44 10380656175 3.5E2.19.37.47.59.71
1393 9173012056 2E3.13.8689.10151
B4 33 9353372744 2E3.19.281.218987
1394  9205801010 2.5.7E3.109.24623
R9 X  10296406990 2.5.37.53.191.2749
1395 9225491168 2E5.83.151.23003
R9 33 9278558368 2E5.113.251.10223
1396 9251688032 2E5.67.179.24107
R9 33 9338472928 2E5.101.1229.2351
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  9673564910 2.5.17.47.181.6689
1399  9271316500 2E2.5E3.53.271.1291
R9 X  11451453932 2E2.47.101.683.883
1400 9286443650 2.5E2.11.59.419.683
R9 44 9949825150 2.5E2.53.113.149.223
1401 9294561770 2.5.13.29.53.181.257
R9 42 9874755670 2.5.13.701.108359
1402 9303632390 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 2.11.7.17.523.6907
1404 9344815064 2E3.13.59.659.2311
R9 44 9881776936 2E3.67.79.109.2141
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 9449054312 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
1411  9549021568 2E7.37.101.19963
R9 X  10182996752 2E4.9043.70379
1412 9581473976 2E3.19.59.1068407
W1 23 9649870024 2E3.19.151.593.709
1413 9616775744 2E6.83.317.5711
W1 32 9760750144 2E6.2351.64871
1414  9703910930 2.7.17.5.47.173501
L1 32 11882513902 2.7.17.1223.40823
1415  9723053488 2E4.23.89.307.967
R9 43 10240668752 2E4.263.461.5279
1416  9766111856 2E4.17.137.262079
L1 32 10415096464 2E4.12959.50231
.1417  9818506568 2E3.13E2.29.179.1399
R9 X  10933693432 2E3.89.1049.14639
1418 9834780285 3E2.5.11.19.139.7523
L1 22 9884118915 3E2.5.11.19.569.1847
1419  9836011130 2.5.11.17.79.139.479
R9 54 11065876870 2.5.31.107.149.2239
1420  9844469775 3E2.5E2.7.23.29.9371
R9 X  11910566385 3E2.5.19.991.14057
1421  9852159848 2E3.31.23.433.3989
R9 33 10096563352 2E3.31.61.251.2659
1422  9875558210 2.5.29.7.233.20879
R9 33 11231616190 2.5.29.239.347.467
1423  9880655085 3E2.5.7.17.233.7919
R9 X  10935385875 3E2.5E3.19.431.1187
1424  9881488304 2E4.29.47.109.4157
R9 42 10535954896 2E4.5279.124739
1425  9883587230 2.5.11.47.191.10009
R9 33 10042879330 2.5.11.127.571.1259
1426 9958985128 2E3.19.103.197.3229
R9 33 9994662872 2E3.19.113.659.883
1427  9967523980 2E2.257.5.17.37.3083
R9 42 12890541236 2E2.257.107.117191
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Appendix II

The first 1427 APs ordered according to the various occurring types

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AMICABLE PAIRS OF TYPE (2,1):

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

TOTAL NUMBER:   20
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AMICABLE PAIRS OF TYPE (3,1):

   86 6955216 2E4.19.137.167
L1 31 7418864 2E4.463679
  151 23358248 2E3.37.23.47.73
L1 31 25233112 2E3.37.85247
  164 32205616 2E4.17.167.709
L1 31 34352624 2E4.2147039
  196 52695376 2E4.17.151.1283
L1 31 56208368 2E4.3513023
  270 147366765 3E2.7E2.13.5.53.97
L1 31 182028483 3E2.7E2.13.31751
  312 205843365 3E2.7E2.13.5.43.167
L1 31 254264283 3E2.7E2.13.44351
  390 347263216 2E4.17.137.9319
L1 31 370414064 2E4.23150879
  446 492275992 2E3.131.13.23.1571
R9 31 553544168 2E3.131.528191
  648 1254255550 2.5E2.23.19.137.419
R9 31 1333078850 2.5E2.23.1159199
  661 1309651310 2.5.11.29.571.719
R9 31 1359071890 2.5.11.12355199
  753 1957374968 2E3.31.17.107.4339
L1 31 2092365832 2E3.31.8436959
  782 2115211995 3E3.5.13.17.31.2287
R9 31 2312891685 3E3.5.13.1317887
  979 3693013664 2E5.41.131.21487
L1 31 3812143072 2E5.119129471
 1009 3986534090 2.5.929.7.11.5573
L1 31 4971106870 2.5.929.535103
 1228 6562770525 3E3.5E2.31.17.19.971
R9 31 7322055075 3E3.5E2.31.349919
 1300 7696871576 2E3.19.53.127.7523
R9 31 7904894824 2E3.19.52005887

TOTAL NUMBER:   16
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AMICABLE PAIRS OF TYPE (4,1):

  779 2099442345 3.5.7.11.13.37.3779
L1 41 2533809495 3.5.7.24131519

TOTAL NUMBER:    1
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AMICABLE PAIRS OF TYPE (2,2):

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  3 2620 2E2.5.131
L1 22 2924 2E2.17.43
  4 5020 2E2.5.251
L1 22 5564 2E2.13.107
  6 10744 2E3.17.79
L1 22 10856 2E3.23.59
  10 66928 2E4.47.89
L1 22 66992 2E4.53.79
  11 67095 3E3.5.7.71
L1 22 71145 3E3.5.17.31
  19 171856 2E4.23.467
L1 22 176336 2E4.103.107
  20 176272 2E4.23.479
L1 22 180848 2E4.89.127
  22 196724 2E2.11.17.263
L1 22 202444 2E2.11.43.107
  27 437456 2E4.19.1439
L1 22 455344 2E4.149.191
  29 503056 2E4.23.1367
L1 22 514736 2E4.53.607
  30 522405 3E2.5.13.19.47
L1 22 525915 3E2.5.13.29.31
  44 1154450 2.5E2.11.2099
L1 22 1189150 2.5E2.17.1399
  48 1280565 3E2.5.13.11.199
L1 22 1340235 3E2.5.13.29.79
  50 1358595 3E2.5.19.7.227
L1 22 1486845 3E2.5.19.37.47
  51 1392368 2E4.17.5119
L1 22 1464592 2E4.239.383
  57 2082464 2E5.59.1103
L1 22 2090656 2E5.79.827
  63 2802416 2E4.17.10303
L1 22 2947216 2E4.167.1103
  85 6377175 3E2.5E2.7.4049
L1 22 6680025 3E2.5E2.11.2699
  87 6993610 2.5.13.23.2339
L1 22 7158710 2.5.13.53.1039
  92 7677248 2E6.139.863
L1 22 7684672 2E6.167.719
 100 9071685 3E2.5.31.7.929
L1 22 9498555 3E2.5.31.11.619
 101 9199496 2E3.29.19.2087
L1 22 9592504 2E3.29.173.239
 109 10254970 2.5.11.53.1759
L1 22 10273670 2.5.11.59.1583
 111 10572550 2.5E2.31.19.359
L1 22 10854650 2.5E2.31.47.149
 125 13921528 2E3.19.67.1367
L1 22 13985672 2E3.19.101.911
 130 15002464 2E5.37.12671
L1 22 15334304 2E5.227.2111
 139 17908064 2E5.53.10559
L1 22 18017056 2E5.79.7127
 149 22508145 3E3.5.11.23.659
L1 22 23111055 3E3.5.11.79.197
 197 56055872 2E6.79.11087
L1 22 56598208 2E6.383.2309
 204 66595130 2.5.31.7.30689
L1 22 74824390 2.5.31.59.4091
 230 90437150 2.5E2.23.19.4139
L1 22 94372450 2.5E2.23.137.599
 233 95629904 2E4.67.37.2411
L1 22 97580944 2E4.67.227.401
 236 97041735 3E2.5.7.71.4339
L1 22 97945785 3E2.5.7.239.1301
 242 109410345 3E4.5.11.41.599
L1 22 110132055 3E4.5.11.59.419
 254 131483835 3E2.5.7.71.5879
L1 22 132692805 3E2.5.7.223.1889
 260 136549413 3E2.7.11.13.23.659
L1 22 140207067 3E2.7.11.13.79.197
 337 256948065 3E3.5.11.23.7523
L1 22 263110815 3E3.5.11.53.3343
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L1 22 306962896 2E4.43.173.2579
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L1 22 914053959 3E2.7.13.41.163.167
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L1 22 903709952 2E8.1151.3067
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L1 22 1670433435 3E4.5.11E2.89.383
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L1 22 1762592896 2E7.2879.4783
 729 1786492785 3.5.7.11.293.5279
L1 22 1790052495 3.5.7.11.1231.1259
 755 1974754485 3E4.5.11E2.59.683
L1 22 1987985835 3E4.5.11E2.113.359
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L1 22 2564027739 3E2.7.13.37.191.443
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L1 22 4436670525 3.5E2.7.19.239.1861
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L1 22 4855069456 2E4.43.373.18919
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L1 22 5259164108 2E2.11.109.839.1307
1183 5983596512 2E5.79.227.10427
L1 22 5999426848 2E5.79.631.3761
1199 6143533695 3E4.5.13.17.68639
L1 22 6414291585 3E4.5.13.71.17159
1224 6478496595 3E2.5.17.19.23.19379
L1 22 6582073005 3E2.5.17.19.37.12239
1236 6722173575 3E2.5E2.13E2.17.10399
L1 22 7083639225 3E2.5E2.13E2.311.599
1259 7074650624 2E9.947.14591
L1 22 7076729344 2E9.1367.10111
1397 9257732715 3.5.7.11.347.23099
L1 22 9263662485 3.5.7.11.449.17863
1418 9834780285 3E2.5.11.19.139.7523
L1 22 9884118915 3E2.5.11.19.569.1847
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TOTAL NUMBER: 67

AMICABLE PAIRS OF TYPE (3,2):

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  21 185368 2E3.17.29.47
L1 32 203432 2E3.59.431
  24 308620 2E2.5.13.1187
L1 32 389924 2E2.43.2267
  26 356408 2E3.13.23.149
L1 32 399592 2E3.199.251
  31 600392 2E3.13.23.251
L1 32 669688 2E3.97.863
  32 609928 2E3.11.29.239
L1 32 686072 2E3.191.449
  33 624184 2E3.11.41.173
L1 32 691256 2E3.71.1217
  34 635624 2E3.11.31.233
L1 32 712216 2E3.127.701
  35 643336 2E3.29.47.59
L1 32 652664 2E3.17.4799
  37 726104 2E3.17.19.281
L1 32 796696 2E3.53.1879
  40 898216 2E3.11.59.173
L1 32 980984 2E3.47.2609
  41  947835 3E3.5.7.17.59
L1 32 1125765 3E3.5.31.269
  42  998104 2E3.17.41.179
L1 32 1043096 2E3.23.5669
  45 1156870 2.5.11.13.809
L1 32 1292570 2.5.19.6803
  59 2652728 2E3.13.23.1109
L1 32 2941672 2E3.71.5179
  60 2723792 2E4.37.43.107
L1 32 2874064 2E4.263.683
  62 2739704 2E3.11.163.191
L1 32 2928136 2E3.31.11807
  65 3276856 2E3.11.23.1619
L1 32 3721544 2E3.647.719
  67 3786904 2E3.11.23.1871
L1 32 4300136 2E3.467.1151
  68 3805264 2E4.29.59.139
L1 32 4006736 2E4.179.1399
  76 5147032 2E3.11.23.2543
L1 32 5843048 2E3.383.1907
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L1 32 8493050 2.5E2.59.2879
  98  8754130 2.5.7.11.11369
L1 32 10893230 2.5.757.1439
 114 10992735 3E2.5.13.19.23.43
L1 32 12070305 3E2.5.13.47.439
 118 11545616 2E4.19.163.233
L1 32 12247504 2E4.491.1559
 121 12397552 2E4.23.59.571
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 129 14654150 2.5E2.7.149.281
L1 32 16817050 2.5E2.179.1879
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Ll 32 19325698 2.7E2.19.97.107
137 17754165 3E2.5.13.11.31.89
Ll 32 19985355 3E2.5.13.127.269
138 17844255 3E2.5.13.11.47.59
Ll 32 19895265 3E2.5.13.71.479
147 22227075 3E3.5E2.13.17.149
Ll 32 24644925 3E3.5E2.29.1259
156 25966832 2E4.29.191.293
Ll 32 26529808 2E4.47.35279
160 30724694 2.7.13.11.103.149
Ll 32 32174506 2.7.13.17.10399
168 34256222 2.7.11.13.71.241
Ll 32 35997346 2.7.11.23.10163
172 35361326 2.7.13.11.17.1039
Ll 32 40117714 2.7.13.53.4159
173 35373195 3E2.5.13.11.23.239
Ll 32 40105845 3E2.5.13.179.383
175 35472592 2E4.43.47.1097
Ll 32 36415664 2E4.53.42943
176 37363095 3E2.7.11.5.41.263
Ll 32 45663849 3E2.7.11.131.503
178 37848915 3E2.5.13.23.29.97
Ll 32 39202605 3E2.5.13.19.3527
181 38663950 2.5E2.13.17.3499
Ll 32 43362050 2.5E2.59.14699
200 58580540 2E2.23.5.347.367
Ll 32 70507972 2E2.23.521.1471
203 63717615 3E2.5.13.17.43.149
Ll 32 66011985 3E2.5.13.19.5939
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Ll 32 78166448 2E4.197.24799
216 75171808 2E5.53.127.349
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Ll 32 92143456 2E5.1637.1759
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Ll 32 99899792 2E4.1399.4463
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Ll 32 115187002 2.7.17.113.4283
237 102023145 3E4.7E2.5.53.97
Ll 32 116970399 3E4.7E2.13.2267
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Ll 32 116251550 2.5E2.31.179.419
243 110960710 2.5.67.7.59.401
Ll 32 125222330 2.5.67.31.6029
257 133768816 2E4.19.131.3359
Ll 32 141213584 2E4.199.44351
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Ll 32 149364256 2E5.1063.4391
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Ll 32 160128436 2E2.13.47.65519
276 156226856 2E3.31.23.61.449
Ll 32 165181144 2E3.31.199.3347
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Ll 32 179904784 2E4.1583.7103
287 169652512 2E5.71.89.839
Ll 32 173269088 2E5.191.28349
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Ll 32 197261415 3E2.5.13.449.751
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Wl 32 182618810 2.5.11.719.2309
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321 224888895 3E2.7.11.5.41.1583
Ll 32 273272769 3E2.7.11.83.4751
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Ll 32 257841296 2E4.1399.11519
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Wl 32 284512030 2.5.11.1187.2179
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Wl 32 281534770 2.5.11.139.18413
352 276339808 2E5.97.127.701
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380 320829728 2E5.59.109.1559
Ll 32 327818272 2E5.199.51479
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Wl 32 354858550 2.5E2.31.179.1279
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Wl 32 371171432 2E3.31.557.2687
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Ll 32 393667868 2E2.11.263.34019
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Wl 32 394237850 2.5E2.31.53.4799
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Ll 32 415773645 3.5.7.23.107.1609
410 391548675 3.5E2.7.17.19.2309
Ll 32 433398525 3.5E2.7.139.5939
411 393463072 2E5.43.269.1063
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419 406640992 2E5.47.167.1619
Ll 32 416370848 2E5.251.51839
421 414195782 2.7.11.13.19.10889
Ll 32 463973818 2.7.11.83.36299
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Wl 32 514780497 3E2.7.11.67.11087
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Ll 32 729739984 2E4.83.549503
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Ll 32 850529972 2E2.23.971.9521
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Wl 32 960133550 2.5E2.31.59.10499
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Ll 32 1318446572 2E2.23.911.15731
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Ll 32 1421345732 2E2.53.251.26711
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Wl 32 1246134850 2.5E2.17.719.2039
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673 1375090832 2E4.17.379.13339
Ll 32 1453522768 2E4.227.400199
677 1420875830 2.5.79.11.23.7109
Ll 32 1527783370 2.5.79.17.113759
678 1444854411 3E2.7.13.23.11.19.367
Ll 32 1641399669 3E2.7.13.23.79.1103
681 1456694650 2.5E2.31.23.29.1409
Wl 32 1564540550 2.5E2.31.179.5639
684 1486565325 3E3.5E2.7.23.13679
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 860 2724296672 2E5.53.79.20333
L2 32 2809804768 2E5.2591.33889
 861 2724801970 2.5.19.11.47.27739
L1 32 3027364430 2.5.19.359.44383
 875 2842515016 2E3.127.11.167.1523
R9 32 3056462264 2E3.127.47.64007
 879 2873321512 2E3.19.113.131.1277
W1 32 2896081688 2E3.19.107.178067
 880 2874527150 2.5E2.11.137.38149
L1 32 3000878050 2.5E2.19.3158819
 886 2931524416 2E6.79.569.1019
W1 32 2975499584 2E6.2719.17099
 890 2952121352 2E3.61.19.29.10979
W1 32 3174718648 2E3.61.79.82349
 891 2953084864 2E6.101.461.991
L1 32 2983785152 2E6.373.124991
 895 2982855752 2E3.19.47.239.1747
R9 32 3058232248 2E3.19.1279.15731
 896 2995106895 3E3.5.19E2.11.37.151
L1 32 3342782385 3E3.5.19E2.113.607
 899 3000210675 3.5E2.19.37.7.11.739
R9 32 3694598925 3.5E2.19.37.79.887
 902 3009763264 2E6.83.443.1279
W1 32 3053074496 2E6.1439.33151
 907 3037569344 2E6.101.311.1511
L1 32 3073402432 2E6.503.95471
 910 3071356244 2E2.23.229.11.29.457
R9 32 3299606956 2E2.23.229.19.8243
 928 3279018015 3E2.7E2.13.5.73.1567
L1 32 3943277793 3E2.7E2.13.83.8287
 929 3293577950 2.5E2.31.13.149.1097
L1 32 3568482850 2.5E2.31.853.2699
 933 3341224575 3E2.5E2.13.19.59.1019
L1 32 3564583425 3E2.5E2.13.239.5099
 944 3411757220 2E2.173.5.691.1427
W1 32 3809832988 2E2.173.13.423503
 954 3443961465 3E2.5.23.7.53.8969
R9 32 3810113415 3E2.5.23.19.193751
 956 3452049632 2E5.43.263.9539
L1 32 3529398688 2E5.211.522719
 960 3481924064 2E5.71.103.14879
L1 32 3537626656 2E5.127.870479
 961 3502908585 3E4.5.11.37.79.269
R9 32 3647901015 3E4.5.11.599.1367
 965 3564199504 2E4.47.101.167.281
R9 32 3626340272 2E4.47.503.9587
 977 3680156392 2E3.101.11.41.10099
W1 32 4108155608 2E3.101.1009.5039
 995 3868964990 2.5.11.43.509.1607
W1 32 3925075330 2.5.11.89.400927
 996 3877164568 2E3.17.101.277.1019
W1 32 3932077832 2E3.17.5003.5779
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 1002 3940697128 2E3.19.53.163.3001
R9 32 4035016472 2E3.19.683.38867
 1015 4032465344 2E6.107.191.3083
W1 32 4089162304 2E6.1151.55511
 1033 4161910012 2E2.53.211.13.17.421
L1 32 4360072772 2E2.53.211.11.8861
 1039 4261080915 3E2.7E2.13.5.43.3457
R3 32 5209468173 3E2.7E2.13.227.4003
 1048 4346372745 3E2.11.13.17.5.67.593
R9 32 5180969079 3E2.11.13.17.43.5507
 1049 4355468325 3E2.5E2.13.19.109.719
R9 32 4581459675 3E2.5E2.13.89.17599
 1050 4373598075 3.5E2.11.7.17.44549
W3 32 5172219525 3.5E2.11.43.145799
 1056 4416880923 3E2.7E2.13.19.23.41.43
R2 32 4785272037 3E2.7E2.13.19.197.223
 1058 4458625504 2E5.37.269.13999
L1 32 4590694496 2E5.797.179999
 1065 4582247428 2E2.11.29.79.131.347
R9 32 4678450172 2E2.11.29.463.7919
 1076 4754422208 2E6.157.269.1759
R9 32 4780940992 2E6.197.379199
 1087 4863771495 3E3.5.11.43.59.1291
R9 32 4959562905 3E3.5.11.47.71059
 1088 4875810975 3E2.5E2.31.7.37.2699
R9 32 5709225825 3E2.5E2.31.449.1823
 1091 4900571656 2E3.19.71.83.5471
R9 32 5027825144 2E3.19.2267.14591
 1116 5191917776 2E4.17.167.114299
L1 32 5523021424 2E4.761.453599
 1121 5257013762 2.7.11.43.13.79.773
R9 32 5728089598 2.7.11.43.839.1031
 1134 5444062533 3E2.7E2.13.19.23.41.53
R9 32 5849488827 3E2.7E2.13.19.83.647
 1137 5454702435 3.5.7.13.43.199.467
W1 32 5615556765 3.5.7.13.1319.3119
 1140 5497064685 3E2.5.7.83.167.1259
R9 32 5598354195 3E2.5.7.3527.5039
 1142 5502767650 2.5E2.19.37.89.1759
W1 32 5692944350 2.5E2.19.227.26399
 1145 5552366085 3E2.5.7.79.347.643
W1 32 5635304955 3E2.5.7.463.38639
 1149 5579526590 2.5.11E2.89.197.263
R9 32 5682998530 2.5.11E2.659.7127
 1158 5697735225 3.5E2.7.13.167.4999
L1 32 5968184775 3.5E2.7.29.391999
 1181 5939023970 2.5.11.29.383.4861
W1 32 6159187870 2.5.11.4159.13463
 1193 6082113015 3E4.5.11.29.179.263
R9 32 6337714185 3E4.5.11.593.2399
 1197 6108334785 3E2.5.7.83.167.1399
W1 32 6219908415 3E2.5.7.2239.8819
 1202 6158708048 2E4.17.811.27919
L1 32 6491732272 2E4.173.2345279
 1212 6284451608 2E3.17.113.191.2141
W1 32 6374254312 2E3.17.4787.9791
 1215 6307360510 2.5.11.29.461.4289
W1 32 6535869890 2.5.11.1451.40949
 1226 6534418330 2.5.11.29.1319.1553
W1 32 6757876070 2.5.11.599.102563
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 1233 6692989624 2E3.17.101.293.1663
W1 32 6780019016 2E3.17.1087.45863
 1234 6716127352 2E3.53.11.971.1483
W1 32 7304467208 2E3.53.211.81647
 1239 6752047995 3E2.7.11.5.1151.1693
W1 32 7860694149 3E2.7.11.31.365903
 1245 6789022528 2E6.89.239.4987
W1 32 6894059072 2E6.8599.12527
 1270 7278278085 3E4.5.13.17.233.349
R9 32 7705490715 3E4.5.13.139.10529
 1271 7307312410 2.5.19.37.29.73.491
L1 32 7634530790 2.5.19.37.179.6067
 1286 7504585408 2E6.79.491.3023
W1 32 7611543872 2E6.1279.92987
 1294 7593626504 2E3.17.107.373.1399
W1 32 7674549496 2E3.17.479.117809
 1296 7631131095 3E4.5.59.7.43.1061
R9 32 8652642345 3E4.5.59.31.11681
 1298 7689014456 2E3.17.101.389.1439
W1 32 7777449544 2E3.17.599.95471
 1299 7693403445 3E2.7.13.47.5.71.563
R9 32 9334667979 3E2.7.13.47.281.863
 1304  7779344980 2E2.137.5.11.258107
R9 32 10172582636 2E2.137.941.19727
 1306 7787330704 2E4.53.59.317.491
W1 32 7927109936 2E4.53.239.39113
 1310 7877348704 2E5.61.89.45343
L1 32 8062881056 2E5.239.1054247
 1313 7923037772 2E2.19.37.13.73.2969
R9 32 8446176628 2E2.19.37.41.73259
 1315 7941474368 2E6.79.373.4211
L1 32 8063451712 2E6.4679.26927
 1324 8135645416 2E3.19.41.911.1433
W1 32 8342735384 2E3.19.1367.40151
 1331 8260626368 2E6.103.211.5939
L1 32 8371943872 2E6.857.152639
 1332 8263107788 2E2.23.47.13.17.8647
L1 32 9310735156 2E2.23.47.83.25943
 1334 8275510971 3E2.7E2.13.19.17.41.109
R9 32 8978525829 3E2.7E2.13.19.139.593
 1338 8307557128 2E3.269.13.23.12911
R9 32 9263092472 2E3.269.127.33893
 1339 8315723650 2.5E2.31.13.139.2969
W1 32 9008167550 2.5E2.31.659.8819
 1341 8367278048 2E5.59.79.56099
L1 32 8597361952 2E5.439.611999
 1351 8508405465 3E2.5.7.79.181.1889
R3 32 8663076135 3E2.5.7.1871.14699
 1358 8645093145 3E5.5.13.23.53.449
R9 32 9186830055 3E5.5.13.599.971
 1377 8996364572 2E2.17.29.13.89.3943
R9 32 9788118628 2E2.17.29.1019.4871
 1382 9054843104 2E5.67.383.11027
L1 32 9086834464 2E5.71.3999487
 1383 9070949152 2E5.53.83.64439
R9 32 9343940768 2E5.971.300719
 1387 9097736655 3.5.7E2.19.47.83.167
R9 32 9435270705 3.5.7E2.19.587.1151
 1413 9616775744 2E6.83.317.5711
W1 32 9760750144 2E6.2351.64871
 1414  9703910930 2.7.17.5.47.173501
L1 32 11882513902 2.7.17.1223.40823
 1416  9766111856 2E4.17.137.262079
L1 32 10415096464 2E4.12959.50231
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TOTAL NUMBER: 271

AMICABLE PAIRS OF TYPE (4,2):

55	1669910	2.5.11.17.19.47
L1 42	2062570	2.5.239.863
64	2803580	2E2.5.13.41.263
L1 42	3716164	2E2.503.1847
73	4532710	2.7.5.13.17.293
L1 42	6135962	2.7.71.6173
83	5864660	2E2.5.17.47.367
L1 42	7489324	2E2.53.35327
122	12707704	2E3.17.41.43.53
L1 42	14236136	2E3.107.16631
144	20022328	2E3.17.23.37.173
L1 42	22823432	2E3.1367.2087
150	22608632	2E3.19.23.29.223
L1 42	25775368	2E3.1439.2239
171	35115795	3E3.5.11.13.17.107
L1 42	43266285	3E3.5.53.6047
174	35390008	2E3.19.23.53.191
L1 42	39259592	2E3.71.69119
207	67738268	2E2.19.13.17.37.109
L1 42	79732132	2E2.19.263.3989
208	68891992	2E3.13.23.83.347
L1 42	78437288	2E3.587.16703
218	78088504	2E3.13.31.53.457
L1 42	88110536	2E3.167.65951
224	84521745	3E3.5.7.11.47.173
L1 42	107908335	3E3.5.383.2087
298	186753688	2E3.11.41.191.271
L1 42	208059752	2E3.83.313343
301	190888155	3E2.5.17.19.23.571
R9 42	194594085	3E2.5.7.617759
310	204134385	3.5.7.13.17.19.463
L1 42	244869135	3.5.7.383.6089
317	214748488	2E3.17.19.41.2027
L1 42	245201912	2E3.3041.10079
362	300120652	2E2.17.13.23.29.509
L1 42	347620148	2E2.17.179.28559
394	357197302	2.7.11.17.19.43.167
R9 42	409205258	2.7.11.863.3079
400	362700728	2E3.13.19.173.1061
R9 42	413408872	2E3.811.63719
404	373305350	2.5E2.11.19.139.257
R9 42	432893050	2.5E2.859.10079
438	465605192	2E3.13.23.61.3191
R9 42	531830968	2E3.6271.10601
447	494495768	2E3.13.23.61.3389
R9 42	564811432	2E3.5039.14011
453	519257296	2E4.29.83.97.139
R9 42	552549104	2E4.881.39199
498	659084504	2E3.13.23.61.4517
L1 42	752700136	2E3.3347.28111
507	681709490	2.5.7.11.929.953
L1 42	851406670	2.5.2879.29573
519	728921270	2.5.7.11.929.1019
L1 42	910259530	2.5.2447.37199
552	877324936	2E3.29.47.61.1319
R3 42	890419064	2E3.17.6547199
569	949308932	2E2.19.11.13.113.773
R9 42	1126001788	2E2.19.3191.4643

574	965615992	2E3.11.23.349.1367
R9 42	1102800008	2E3.3359.41039
591	1016475064	2E3.11.23.349.1439
R9 42	1160804936	2E3.2999.48383
599	1047784504	2E3.13.23.101.4337
R9 42	1182294536	2E3.167.884951
614	1100526075	3E3.5E2.11.19.29.269
R9 42	1310033925	3E3.5E2.809.2399
667	1335474855	3E2.5.13.11.37.71.79
R9 42	1532728665	3E2.5.13.431.6079
688	1518524175	3.5E2.7.19.41.47.79
R9 42	1681271025	3.5E2.7.139.23039
711	1689026570	2.7E2.5.11.41.7643
R9 42	2263716406	2.7E2.1567.14741
713	1699746184	2E3.23.41.233.967
R3 42	1725115256	2E3.17.12684671
727	1785186728	2E3.13.17.787.1283
R9 42	2039387032	2E3.6047.42157
732	1812992710	2.5.17.23.29.59.271
R9 42	1994136890	2.5.17.599.19583
737	1860630824	2E3.13.17.691.1523
R9 42	2125787416	2E3.9341.28447
739	1862890150	2.5E2.11.19.89.2003
R9 42	2162745050	2.5E2.1439.30059
767	2037127365	3E2.7.13.5.23.43.503
R9 42	2612381499	3E2.7.13.1511.2111
809	2298420670	2.7.5.13.197.12821
B4 42	2819711426	2.7.17.11847527
814	2332981816	2E3.11.23.283.4073
R9 42	2665327304	2E3.6983.47711
841	2517082425	3E3.5E2.11.13.89.293
R9 42	2995064775	3E3.5E2.587.7559
850	2631762064	2E4.29.53.103.1039
R9 42	2800033136	2E4.809.216319
854	2672087608	2E3.17.29.37.18311
L1 42	2964345992	2E3.71.5218919
869	2796129128	2E3.13.17.887.1783
R9 42	3192116632	2E3.1997.199807
889	2944703025	3E3.5E2.11.17.41.569
R9 42	3467386575	3E3.5E2.151.34019
927	3276399555	3E2.5.13.11.29.97.181
R9 42	3735288765	3E2.5.13.179.35671
939	3393478725	3.5E2.7.13.47.71.149
R9 42	3806060475	3.5E2.7.1049.6911
962	3513278192	2E4.41.43.59.2111
R9 42	3746257168	2E4.7919.29567
972	3647562568	2E3.13.17.839.2459
R9 42	4163429432	2E3.1721.302399
980	3710119780	2E2.227.5.17.53.907
R9 42	4741427996	2E2.227.71.73547
1006	3963477872	2E4.41.43.71.1979
R9 42	4203499408	2E4.359.731807
1036	4210837424	2E4.23.109.113.929
R9 42	4465839376	2E4.359.777479
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	4784209576	2E3.19.23.29.47189
L1 42	5408830424	2E3.197.3431999
1095	4937340976	2E4.37.47.61.2909
R9 42	5264327504	2E4.5471.60139
1143	5513127795	3E2.5.17.7.29.131.271
R9 42	6585084045	3E2.5.17.1087.7919
1154	5619401456	2E4.29.79.83.1847
R9 42	5929859344	2E4.191.1940399
1174	5885347545	3E3.5.7.11.257.2203
R9 42	7215933735	3E3.5.47.1137263
1192	6067647728	2E4.29.41.313.1019
R9 42	6442489072	2E4.449.896783
1205	6200951625	3E3.5E3.11.19.59.149
R9 42	7277448375	3E3.5E3.719.2999
1217	6353438175	3E3.5E2.7.29.199.233
R9 42	7574241825	3E3.5E2.1151.9749
1220	6386741384	2E3.37.23.71.73.181
R3 42	6878699896	2E3.37.701.33151
1230	6589526450	2.5E2.13.23.29.15199
R9 42	7659561550	2.5E2.11969.12799
1252	6908106488	2E3.19.23.223.8861
L1 42	7384527112	2E3.31.29776319
1256	6999092624	2E4.19.149.191.809
R9 42	7464267376	2E4.20249.23039
1264	7131782710	2.5.17.13.89.101.359
R9 42	7858790090	2.5.17.1223.37799
1279	7390033144	2E3.13.17.491.8513
R9 42	8443963496	2E3.11351.92987
1317	7983560655	3E2.5.17.7.29.101.509
R9 42	9545098545	3E2.5.17.2447.5099
1401	9294561770	2.5.13.29.53.181.257
R9 42	9874755670	2.5.13.701.108359
1424	9881488304	2E4.29.47.109.4157
R9 42	10535954896	2E4.5279.124739
1427	9967523980	2E2.257.5.17.37.3083
R9 42	12890541236	2E2.257.107.117191

TOTAL NUMBER: 78

AMICABLE PAIRS OF TYPE (5,2):

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

TOTAL NUMBER: 6

AMICABLE PAIRS OF TYPE (2,3):

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

TOTAL NUMBER: 21

AMICABLE PAIRS OF TYPE (3,3):

43	1077890	2.5.11.41.239
L1 33	1099390	2.5.17.29.223
58	2236570	2.5.7.89.359
L1 33	2429030	2.5.23.59.179
69	4238984	2E3.17.71.439
L1 33	4314616	2E3.23.131.179
75	5123090	2.5.7.163.449
L1 33	5504110	2.5.19.59.491
79	5385310	2.5.7.107.719
L1 33	5812130	2.5.17.179.191
82	5730615	3E3.5.11.17.227
L1 33	6088905	3E3.5.23.37.53
84	6329416	2E3.23.41.839
L1 33	6371384	2E3.19.167.251
90	7489112	2E3.17.53.1039
L1 33	7674088	2E3.23.179.233
95	8262136	2E3.17.79.769
L1 33	8369864	2E3.29.43.839
96	8619765	3.5.11.7.17.439
L1 33	9627915	3.5.11.23.43.59
103	9339704	2E3.11.211.503
L1 33	9892936	2E3.47.83.317
105	9478910	2.5.7.19.7127
L1 33	11049730	2.5.71.79.197
116	11252648	2E3.11.71.1801
L1 33	12101272	2E3.67.107.211
124	13813150	2.5E2.13.79.269
L1 33	14310050	2.5E2.29.71.139
126	14311688	2E3.17.47.2239
L1 33	14718712	2E3.23.167.479
131	15363832	2E3.11.71.2459
L1 33	16517768	2E3.53.163.239
132	15938055	3E2.5.7.19.2663
L1 33	17308665	3E2.5.11.73.479
133	16137628	2E2.13.23.103.131
L1 33	16150628	2E2.13.31.43.233
135	17041010	2.7.5.31.7853
L1 33	19150222	2.7.13.43.2447
136	17257695	3.5.7.13.47.269
L1 33	17578785	3.5.7.23.29.251
140	18056312	2E3.17.103.1289
L1 33	18166888	2E3.19.107.1117
143	20014808	2E3.11.79.2879
L1 33	21457192	2E3.47.149.383
146	21448630	2.5.7.131.2339
L1 33	23030090	2.5.19.53.2287
152	23389695	3E3.5.7.53.467
L1 33	25132545	3E3.5.17.47.233
157	26090325	3E2.5E2.17.19.359
L1 33	26138475	3E2.5E2.11.59.179
158	28118032	2E4.47.139.269
L1 33	28128368	2E4.59.83.359
159	28608424	2E3.13.139.1979
L1 33	29603576	2E3.23.349.461
163	31818952	2E3.11.41.8819
L1 33	34860248	2E3.97.167.269
167	33501825	3E2.5E2.7.89.239
L1 33	36136575	3E2.5E2.19.79.107
169	34364912	2E4.43.199.251
L1 33	34380688	2E4.47.131.349
170	34765731	3E2.7.13.11.17.227
L1 33	36939357	3E2.7.13.23.37.53
180	38637016	2E3.11.359.1223
L1 33	40678184	2E3.29.271.647
182	38783992	2E3.13.37.10079
L1 33	41654408	2E3.47.139.797
185	44139856	2E4.29.251.379
L1 33	44916944	2E4.83.149.227
186	45263384	2E3.17.59.5641
L1 33	46137016	2E3.19.433.701
189	46521405	3E3.5.7.19.2591
L1 33	53011395	3E3.5.31.53.239
192	48639032	2E3.13.29.16127
L1 33	52967368	2E3.59.293.383
195	50997596	2E2.13.19.71.727
L1 33	51737764	2E2.13.23.181.239
202	63560025	3E3.5E2.17.29.191
L1 33	65003175	3E3.5E2.23.53.79
206	67729064	2E3.13.431.1511
L1 33	69439576	2E3.23.107.3527
211	72958556	2E2.11.19.197.443
L1 33	74733604	2E2.11.53.73.439
212	73032872	2E3.11.71.11689
L1 33	78469528	2E3.59.83.2003
217	75226888	2E3.11.59.14489
L1 33	81265112	2E3.53.137.1399
223	83135650	2.5E2.13.79.1619
L1 33	85603550	2.5E2.19.251.359
226	86158220	2E2.5.41.105071
L1 33	99188788	2E2.23.43.25073
231	91996816	2E4.29.331.599
L1 33	93259184	2E4.79.89.829
240	104887448	2E3.19.71.9719
L1 33	105064552	2E3.23.47.12149
244	114944072	2E3.17.19.44483
R3 33	125269528	2E3.53.439.673
248	116654896	2E4.23.359.883
L1 33	120115664	2E4.101.239.311
258	134312152	2E3.13.127.10169
L1 33	139057448	2E3.23.223.3389
262	137424188	2E2.11.19.89.1847
R9 33	141993412	2E2.11.59.83.659
275	155797390	2.5.7.863.2579
L1 33	165195890	2.5.23.29.24767
279	162936904	2E3.13.719.2179
R9 33	166679096	2E3.19.839.1307
281	165323696	2E4.37.97.2879
R9 33	167155024	2E4.59.113.1567
288	169884784	2E4.29.109.3359
R9 33	173843216	2E4.71.199.769
295	181088985	3.5.7.11.83.1889
R9 33	184694055	3.5.7.13.269.503
296	182702024	2E3.19.53.22679
L1 33	184713976	2E3.17.719.1889
307	201168592	2E4.29.491.883
L1 33	203314448	2E4.67.89.2131
318	216392216	2E3.19.53.26861
L1 33	218772184	2E3.17.659.2441
326	238238864	2E4.41.47.7727
R9 33	244730224	2E4.97.137.1151
328	242182930	2.5.11.19.115877
L1 33	258410030	2.5.17.61.24919
338	258904646	2.7.13.11.79.1637
L1 33	269448634	2.7.13.23.59.1091
339	260231192	2E3.13.659.3797
L1 33	266171608	2E3.19.593.2953
345	271048340	2E2.5.17.797201
L1 33	331636372	2E2.41.73.27701
351	275631376	2E4.43.53.7559
R9 33	281207984	2E4.83.107.1979
354	281499435	3E3.5.7.89.3347
L1 33	297034965	3E3.5.17.29.4463
355	285627615	3.5.7E2.13.167.179
R9 33	293528865	3.5.7E2.29.47.293
358	287793350	2.5E2.13.41.10799
L1 33	302793850	2.5E2.23.251.1049
361	295824376	2E3.19.53.36721
L1 33	299072024	2E3.17.601.3659
365	302424784	2E4.53.71.5023
L1 33	303107888	2E4.47.107.3767
379	319904235	3E4.5.7.19.5939
R9 33	370086165	3E4.5.43.79.269
381	323401712	2E4.23.431.2039
R3 33	332270608	2E4.101.127.1619
385	332573392	2E4.29.431.1663
R9 33	335955248	2E4.47.191.2339
388	343175404	2E2.11.13.379.1583
R9 33	364682516	2E2.11.131.151.419
401	364182075	3E4.5E2.17.71.149
R9 33	365012325	3E4.5E2.19.53.179
402	370032676	2E2.17.13.19.22031
R9 33	407256284	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	397151648	2E5.181.191.359
417	404185672	2E3.11.1877.2447
L1 33	423336248	2E3.31.101.16901
423	425948050	2.5E2.11.269.2879
R9 33	441853550	2.5E2.19.479.971
426	427448510	2.5.17.19.59.2243
R9 33	445018690	2.5.17.67.89.439
428	429035596	2E2.11.17.43.13339
R3 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	445419376	2E4.47.499.1187
434	439232624	2E4.37.53.13999
L1 33	451335376	2E4.89.151.2099
435	442480816	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
R3 33	511419856	2E4.127.389.647
450	509379344	2E4.23.347.3989
R9 33	523679536	2E4.83.179.2203
451	512412550	2.5E2.13.73.10799
L1 33	528145850	2.5E2.19.167.3329
452	514439224	2E3.13.89.55579
L1 33	536022776	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	541114808	2E3.13.863.6029
L1 33	552968392	2E3.23.89.33767
467	557346712	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	601020945	3E3.5.7.647.983
L1 33	623232495	3E3.5.17.23.11807
487	625955024	2E4.29.47.28703
R9 33	655391536	2E4.239.367.467
501	664747083	3E2.7E2.13.11.83.127
R9 33	673747893	3E2.7E2.13.17.31.223
506	681310575	3E3.5E2.11.89.1031
R9 33	700743825	3E3.5E2.17.79.773
509	685939088	2E4.29.503.2939
R9 33	692097712	2E4.41.349.3023
513	698049512	2E3.17.19.270143
L1 33	760728088	2E3.47.1259.1607
517	705280310	2.7.37.5.307.887
R9 33	791333578	2.7.37.17.73.1231
523	752458216	2E3.17.19.291199
L1 33	820021784	2E3.47.1091.1999
527	762662128	2E4.19.263.9539
R9 33	798845072	2E4.239.317.659
533	788056335	3E2.5.11.17.71.1319
R9 33	813177585	3E2.5.11.31.197.269
536	807964592	2E4.29.47.37049
R9 33	845947408	2E4.199.389.683
537	821903384	2E3.29.41.71.1217
R9 33	835551016	2E3.29.97.107.347
545	855737264	2E4.23.1259.1847
R3 33	876651856	2E4.97.107.5279
547	857161935	3E2.5.31.7.61.1439
R9 33	925581105	3E2.5.31.19.47.743
548	861314660	2E2.53.5.211.3851
R9 33	990788572	2E2.53.23.317.641
550	870675856	2E4.23.313.7559
R9 33	895461104	2E4.83.179.3767
554	894012525	3E3.5E2.7.431.439
R9 33	991581075	3E3.5E2.43.127.269
562	916021964	2E2.13.11.59.27143
R9 33	999258676	2E2.13.79.347.701
568	948760928	2E5.79.263.1427
R9 33	951278752	2E5.109.223.1223
573	962951312	2E4.19.1693.1871
L1 33	1003172848	2E4.131.307.1559
579	969473384	2E3.11.67.164429
L1 33	1043149816	2E3.53.101.24359

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  583  991838384 2E4.23.167.16139
R9 33 1025532496 2E4.79.503.1613
  593 1020658815 3E2.5.11.19,47.2309
R9 33 1055014785 3E2.5.11.31.197.349
  596 1034955988 2E2.11.17.1049.1319
R3 33 1060676012 2E2.11.43.89.6299
  601 1049859195 3.5.7.11.191.4759
R9 33 1055812485 3.5.7.13.79.9791
  603 1066176716 2E2.11.19.251.5081
R9 33 1085338804 2E2.11.29.293.2903
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  626 1162074914 2.7.11.13.43.13499
L1 33 1232933086 2.7.11.29.359.769
  630 1193945522 2.7.11.19.53.7699
L1 33 1201062478 2.7.11.17.149.3079
  634 1211220868 2E2.13.11.181.11699
R9 33 1292953532 2E2.13.41.389.1559
  642 1239061725 3E3.5E2.11.19.8783
R9 33 1375056675 3E3.5E2.47.89.487
  644 1241180168 2E3.19.59.138401
L1 33 1250055832 2E3.17.263.34949
  658 1292286248 2E3.11.499.29429
L1 33 1356413752 2E3.29.149.39239
  660 1305577305 3E3.5.19.17.79.379
R9 33 1320982695 3E3.5.19.31.37.449
  662 1312909796 2E2.11.17.109.16103
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  663 1321560765 3E4.5.7.59.7901
R9 33 1432128195 3E4.5.17.79.2633
  666 1333290105 3E3.5.7.23.61343
R3 33 1493441415 3E3.5.17.191.3407
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R9 33 1515731270 2.5.19.37.251.859
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R9 33 1518631456 2E5.127.433.863
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R9 33 1580579390 2.5.13.107.199.571
  698 1563999255 3E2.7.13.5.167.2287
R9 33 1793979369 3E2.7.13.23.131.727
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R9 33 1716168652 2E2.11E2.41.197.439
  716 1728342296 2E3.19.53.214541
L1 33 1747238104 2E3.17.521.24659
  728 1786141665 3E3.5.7.11.171827
R9 33 2172775455 3E3.5.47.443.773
  730 1793313730 2.5.31.13.479.929
R9 33 1806455870 2.5.31.17.79.4339

  735 1819124752 2E4.19.593.10091
R9 33 1897557008 2E4.131.347.2609
  736 1829456590 2.5.13.29.127.3821
R9 33 1869016370 2.5.13.97.103.1439
  742 1888560272 2E4.29.107.38039
R9 33 1932177328 2E4.53.719.3169
  744 1892277488 2E4.19.739.8423
R9 33 1972653712 2E4.107.1039.1109
  752 1954734364 2E2.11.19.593.3943
R9 33 1981062116 2E2.11.43.59.17747
  766 2033951985 3E3.5.41.13.23.1229
R9 33 2131910415 3E3.5.41.17.139.163
  770 2049829364 2E2.11.19.263.9323
R9 33 2085551116 2E2.11.47.59.17093
  772 2067555105 3E3.5.7.11.198899
R9 33 2515100895 3E3.5.47.389.1019
  773 2070206050 2.5E2.11.239.15749
R9 33 2148273950 2.5E2.19.359.6299
  774 2083300808 2E3.23.43.179.1471
R9 33 2113665592 2E3.23.137.191.439
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L2 33 2124799568 2E4.59.113.19919
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  789 2154386325 3.5E2.7.13.479.659
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R9 33 3106843150 2.5E2.89.809.863
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R9 33 2848002208 2E5.197.367.1231
  872 2816751938 2.7.11.13.19.74051
R9 33 3154801342 2.7.11.167.241.509
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  884 2897960164 2E2.11E2.23.439.593
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  905 3034523630 2.5.23.17.19.40847
R9 33 3318157330 2.5.23.73.229.863
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L1 33 3170488144 2E4.157.263.4799
  914 3123806972 2E2.11.13.431.12671
R9 33 3313974532 2E2.11.83.191.4751
  915 3124943756 2E2.11.19.1259.2969
L1 33 3161952244 2E2.11.29.149.16631
  922 3216365570 2.5.11.47.769.809
R9 33 3250156030 2.5.11.107.461.599
  926 3274564293 3E3.7.11.13.17.7127
R9 33 3623058747 3E3.7.11.53.131.251
  930 3312096496 2E4.29.661.10799
L1 33 3337031504 2E4.59.89.39719
  936 3373569544 2E3.41.31.71.4673
R9 33 3410834936 2E3.41.37.127.2213
  938 3382872670 2.5.19.17.179.5851
R9 33 3442900130 2.5.19.23.461.1709
  941 3401192925 3E2.5E2.13.41.79.359
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  942 3407059832 2E3.11.911.42499
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R9 33 3435662168 2E3.23.71.409.643
  945 3414281456 2E4.19.163.68903
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TOTAL NUMBER: 280

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   946 3415139192 2E3.19.47.71.6733
R9 43 3566672008 2E3.23.2729.7103
   958 3474708976 2E4.67.109.131.227
R9 43 3503951504 2E4.37.1583.3739
   966 3572444816 2E4.43.97.199.269
R9 43 3645843184 2E4.71.131.24499
   973 3654203576 2E3.19.71.571.593
R9 43 3684785224 2E3.17.311.87119
   974 3658862632 2E3.23.41.53.9151
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   992 3846301096 2E3.11.59.727.1019
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  1021 4088056208 2E4.41.53.307.383
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  1028 4143353656 2E3.13.29.509.2699
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  1037 4211873505 3E3.5.7.17.23.11399
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  1041 4281566032 2E4.29.97.251.379
R9 43 4446000368 2E4.113.239.10289
  1047 4331452790 2.7.41.5.47.163.197
R9 43 5095298698 2.7.41.23.107.3607
  1054 4400527095 3E5.5.17.23.59.157
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  1063 4569376424 2E3.19.43.83.8423
R9 43 4771154776 2E3.23.1871.13859
  1071 4667500708 2E2.19.13.97.113.431
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  1075 4721483056 2E4.23.139.241.383
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  1082 4800749954 2.7.11.13.73.107.307
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  1115 5188836656 2E4.59.61.251.359
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  1126 5319472184 2E3.13.41.199.6269
R9 43 5740807816 2E3.37.3079.6299
  1127 5321930128 2E4.29.53.379.571
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  1128 5325459184 2E4.43.139.233.239
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  1129 5375620496 2E4.29.83.97.1439
R9 43 5648673904 2E4.199.503.3527
  1130 5381495288 2E3.13.23.191.11779
R9 43 6017775112 2E3.127.433.13679
  1146 5562037616 2E4.43.59.263.521
R9 43 5716169104 2E4.71.241.20879
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R9 43 5841932265 3E2.5.13.23.449.967
  1153 5609702696 2E3.13.29.107.17383
R9 43 6218370904 2E3.89.317.27551
  1160 5725765580 2E2.5.17.467.36061
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  1198 6135028624 2E4.59.73.127.701
R9 43 6232751216 2E4.47.359.23087
  1203 6179700345 3.5.7.13.17.79.3371
R9 43 6872367495 3.5.7.47.59.23603
  1204 6181674850 2.5E2.13.59.359.449
R9 43 6473765150 2.5E2.23.139.40499
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  1222 6451021016 2E3.11.41.103.17359
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  1243 6777002584 2E3.11.37.233.8933
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R9 43 6926371952 2E4.47.2309.3989
  1249 6885178846 2.7E2.19.13.23.83.149
R9 43 7593733154 2.7E2.19.31.293.449
  1268 7268766832 2E4.53.61.83.1693
R9 43 7499850416 2E4.71.461.14321
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R9 43 8356509130 2.5.19.3023.14549
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1297	7644728944	2E4.67.83.151.569
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R9 43	8982948476	2E2.59.29.103.12743
1303	7735239556	2E2.11.43.71.89.647
R9 43	7784412284	2E2.11.23.1759.4373
1307	7800706940	2E2.5.13.167.179657
L1 43	9946628932	2E2.53.1511.31051
1319	8038783948	2E2.13.17.19.307.1559
R9 43	8912550452	2E2.13.139.701.1759
1321	8056050244	2E2.11.29.53.139.857
R9 43	8289879356	2E2.11.43.107.40949
1325	8167602105	3E2.5.13.19.23.43.743
R9 43	8991299655	3E2.5.13.61.197.1279
1326	8188640048	2E4.41.47.349.761
R9 43	8479043152	2E4.97.239.22859
1328	8226127472	2E4.29.107.223.743
R9 43	8512801168	2E4.71.1889.3967
1347	8490604005	3E3.5.13.19.89.2861
R9 43	8818771995	3E3.5.11.83.71549
1353	8521860555	3E6.5.13.17.71.149
R9 43	9326392245	3E6.5.23.53.2099
1359	8651076434	2.7.11.13.23.89.2111
R9 43	9742585006	2.7.11.223.239.1187
1364	8808227056	2E4.59.71.113.1163
R9 43	8962421264	2E4.53.227.46559
1372	8952142815	3E3.5.7.11.53.16249
R9 43	11265457185	3E3.5.179.311.1499
1375	8975660265	3E2.5.13.11.47.59.503
R6 43	10045057815	3E2.5.13.107.383.419
1378	9006915928	2E3.17.59.317.3541
R9 43	9240051272	2E3.19.1931.31481
1379	9008575485	3.5.7.13.17.23.16879
R9 43	10592750595	3.5.7.127.269.2953
1381	9029724795	3E2.7.13.5.31.83.857
R9 43	11118146949	3E2.7.13.71.263.727
1386	9086970310	2.5.53.11.83.89.211
R9 43	9607155770	2.5.53.17.719.1483
1389	9136521225	3E3.5E2.13.17.73.839
R9 43	10287235575	3E3.5E2.59.97.2663
1410	9535950765	3E2.5.11.23.31.41.659
R9 43	10390515795	3E2.5.11.127.197.839
1415	9723053488	2E4.23.89.307.967
R9 43	10240668752	2E4.263.461.5279

TOTAL NUMBER: 201

AMICABLE PAIRS OF TYPE (5,3):

313	208693628	2E2.11.13.23.29.547
R9 53	255308932	2E2.31.167.12329
347	273141836	2E2.11.23.29.41.227
L1 53	306014644	2E2.13.239.24623
567	938304290	2.11.5.7.17.43.1667
R9 53	1344480478	2.11.31.197.10007
618	1118297565	3E2.5.7.11.29.31.359
R9 53	1469555235	3E2.5.79.479.863
723	1772982530	2.5.11.17.19.139.359
R9 53	2146121470	2.5.107.199.10079
843	2551781890	2.5.7.19.61.71.443
R9 53	3156424190	2.5.431.739.991
877	2848466620	2E2.5.17.31.131.2063
R9 53	3742595396	2E2.257.431.8447
931	3331018845	3E2.7.5.11.17.193.293
R9 53	4356521379	3E2.7.23.41.73331
1026	4123833752	2E3.17.53.61.83.113
R9 53	4532487208	2E3.71.227.35153
1062	4522539070	2.5.7.17.73.79.659
R9 53	5604923330	2.5.593.739.1279
1111	5131883330	2.5.7.17.103.149.281
R9 53	6270843070	2.5.107.1879.3119
1119	5221345844	2E2.11.13.19.353.1361
R9 53	6118775116	2E2.17.9439.9533
1218	6356368136	2E3.17.23.103.109.181
R9 53	7135510264	2E3.131.2027.3359
1240	6764433170	2.5.11.23.47.163.349
R9 53	7518523630	2.5.19.383.103319
1257	7035981610	2.5.7.53.109.127.137
R9 53	8073097430	2.5.29.197.141311
1350	8508118180	2E2.5.17.37.307.2203
R9 53	10993367516	2E2.131.167.125627
1354	8534619752	2E3.17.23.71.83.463
R9 53	9650022808	2E3.347.503.6911
1407	9408690824	2E3.13.41.59.149.251
R9 53	10595069176	2E3.167.1259.6299

TOTAL NUMBER: 18

AMICABLE PAIRS OF TYPE (2,4):

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

TOTAL NUMBER: 4

AMICABLE PAIRS OF TYPE (3,4):

274	155578180	2E2.5.223.34883
R9 34	172610492	2E2.23.41.67.683
348	274638460	2E2.5.1693.8111
R9 34	302514116	2E2.17.43.307.337
357	287250632	2E3.17.127.16631
R9 34	287551288	2E3.31.53.131.167
416	400250565	3E4.11.5.13.6911
R9 34	442792251	3E4.11.17.23.31.41
479	596668490	2.5.11.41.132299
R9 34	603557110	2.5.13.53.251.349
490	637756665	3.5.7.13.59.7919
R9 34	639580935	3.5.7.29.41.47.109
502	665113060	2E2.5.31.1072763
R9 34	776681756	2E2.23.107.257.307
525	761197736	2E3.13.1151.6359
L1 34	777413464	2E3.41.47.211.239
570	950850140	2E2.5.1091.43577
R9 34	1047811252	2E2.17.41.233.1613
665	1327395368	2E3.13.1511.8447
R9 34	1355013592	2E3.41.43.191.503
871	2808979976	2E3.11.2393.13339
R9 34	2939492824	2E3.37.137.173.419
876	2847780584	2E3.11.557.58099
R9 34	2987783416	2E3.53.61.331.349
909	3065342660	2E2.5.9743.15731
R9 34	3372946876	2E2.13.107.347.1747
1043	4288758056	2E3.11.4513.10799
R9 34	4486457944	2E3.47.73.149.1097
1101	5001083252	2E2.11.19.1583.3779
R9 34	5057950348	2E2.11.59.107.131.139
1152	5607553016	2E3.13.149.361871
R9 34	5791414984	2E3.41.59.139.2153
1159	5715251290	2.5.7.53.1540499
R9 34	6263676710	2.5.23.89.157.1949
1176	5907430305	3E3.5.7.151.41399
R9 34	6174745695	3E3.5.17.31.229.379
1207	6249563650	2.5E2.11.449.25307
R9 34	6460113950	2.5E2.29.89.113.443
1208	6255734650	2.5E2.11.1487.7649
R9 34	6447916550	2.5E2.29.61.269.271
1302	7720248712	2E3.11.2819.31121
R9 34	8077278488	2E3.37.107.181.1409
1329	8237044408	2E3.17.47.1288649
R9 34	8463859592	2E3.43.53.109.4259
1357	8628307636	2E2.13.17.79.123551
R9 34	8807350604	2E2.13.31.131.179.233
1376	8990017384	2E3.17.59.1120391
R9 34	9160333016	2E3.37.53.103.5669

TOTAL NUMBER: 24

AMICABLE PAIRS OF TYPE (4,4):

165	32642324	2E2.11.13.149.383
L1 44	35095276	2E2.17.47.79.139
286	169335790	2.5.13.19.179.383
L1 44	179029010	2.5.23.59.79.167
294	180038452	2E2.11.19.31.6947
R9 44	193486028	2E2.23.29.47.1543
299	186878110	2.5.17.19.47.1231
R9 44	196323170	2.5.23.41.109.191
332	251302370	2.5.11.23.71.1399
R9 44	271244830	2.5.29.59.83.191
420	407641130	2.5.13.17.139.1327
R9 44	435691990	2.5.23.59.97.331
437	460122410	2.5.11.29.97.1487
R9 44	484817110	2.5.19.71.83.433
448	504555070	2.5.17.19.31.5039
R9 44	540539330	2.5.23.71.79.419
458	526552472	2E3.19.71.97.503
R9 44	540314728	2E3.41.83.89.223
476	586188070	2.5.13.41.71.1549
R9 44	594986330	2.5.19.29.83.1301
493	643006485	3E3.5.11.41.59.179
R9 44	663361515	3E3.5.23.29.53.139
505	677781140	2E2.5.227.337.443
R9 44	759308332	2E2.17.73.151.1013
534	802162790	2.5.11.13.167.3359
R9 44	904824730	2.5.47.89.97.223
546	856305272	2E3.23.29.383.419
R9 44	885518728	2E3.47.59.179.223
617	1112824370	2.5.7.59.227.1187
R9 44	1227440590	2.5.37.43.179.431
646	1249677032	2E3.23.67.167.607
R9 44	1250808088	2E3.31.37.271.503
746	1900066455	3E2.7.5.17.23.15427
R9 44	2258828649	3E2.7.11.83.173.227
756	1978830070	2.7.5.23.97.12671
R9 44	2313024266	2.7.31.41.43.3023
759	1990129570	2.5.11.13.431.3229
R9 44	2229439070	2.5.37.67.139.647
777	2091376035	3E2.5.7.29.179.1279
R9 44	2221711965	3E2.5.11.59.127.599
790	2158256590	2.7.5.17.151.12011
R9 44	2574279218	2.7.37.41.53.2287
795	2220015735	3E3.5.7.79.131.227
R9 44	2402729865	3E3.5.31.37.59.263
807	2282361092	2E2.11.19.239.11423
R9 44	2323795708	2E2.13.23.127.15299
822	2410351540	2E2.5.83.887.1637
R9 44	2721279692	2E2.17.73.293.1871
826	2428035470	2.5.7.53.359.1823
R9 44	2677997170	2.5.29.71.113.1151
835	2482324910	2.5.13.23.41.20249
R9 44	2661499090	2.5.17.149.179.587
836	2484011608	2E3.13.151.367.431
R9 44	2590502312	2E3.37.127.137.503
848	2614326776	2E3.17.61.79.3989
R9 44	2729081224	2E3.37.107.199.433
855	2682405256	2E3.19.107.131.1259
R9 44	2706362744	2E3.31.53.109.1889

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 859 2710902590 2.5.11.23.397.2699
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 953 3443251432 2E3.23.29.127.5081
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R9 44 3965644792 2E3.71.97.167.431
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R9 44 3821742868 2E2.31.17.53.79.433
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R9 44 4024393191 3E2.7.13.23.29.53.139
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R9 44 4285876930 2.5.19.199.263.431
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R9 44 4062879850 2.5E2.23.131.149.181
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 1064 4570182110 2.5.13.23.479.3191
R9 44 4696321570 2.5.17.37.127.5879
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L1 44 5424895828 2E2.11.23.521.10289
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 1144 5546461305 3.7.11.5.47.83.1231
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R9 44 6135000176 2E4.101.127.167.179
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R9 44 7517943788 2E2.19.53.83.113.199
 1258 7072796115 3E2.5.7.11.709.2879
R9 44 8238666285 3E2.5.19.79.283.431
 1272 7317585748 2E2.19.11.71.113.1091
R9 44 7740482732 2E2.19.37.53.167.311
 1356 8575844056 2E3.13.71.347.3347
R9 44 9040528424 2E3.53.61.431.811
 1363 8804881305 3E3.5.11.37.191.839
R9 44 8845601895 3E3.5.13.29.151.1151
 1373 8960679970 2.5.11.41.683.2909
R9 44 9096591710 2.5.17.37.71.20369
 1392  9160950225 3.5E2.19.7.17.89.607
R9 44 10380656175 3.5E2.19.37.47.59.71
 1400 9286443650 2.5E2.11.59.419.683
R9 44 9949825150 2.5E2.53.113.149.223
 1403 9307840630 2.11.5.43.313.6287
R9 44 9457161098 2.11.7.17.523.6907
 1404 9344815064 2E3.13.59.659.2311
R9 44 9881776936 2E3.67.79.109.2141
 1408 9449054312 2E3.19.71.139.6299
R9 44 9602145688 2E3.29.59.179.3919
```

TOTAL NUMBER: 63

AMICABLE PAIRS OF TYPE (5,4):

```
 811 2310786764 2E2.11.13.19.149.1427
R9 54 2727197236 2E2.29.79.139.2141
 920 3188153956 2E2.13.17.31.317.367
R9 54 3417616796 2E2.11.137.211.2687
 937 3381430228 2E2.11.19.41.47.2099
R3 54 3731017772 2E2.23.31.89.14699
 1322 8077248916 2E2.11.19.59.83.1973
R9 54 8637003884 2E2.17.23.1879.2939
 1368 8894283788 2E2.13.17.113.269.331
R9 54 9131961652 2E2.11.41.107.47309
 1406  9374110636 2E2.11.19.53.83.2549
R9 54 10058113364 2E2.13.47.269.15299
 1419  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 2E2.11.13.199.23327
R9 45 2831479844 2E2.29.41.47.53.239
```

TOTAL NUMBER: 2

AMICABLE PAIRS OF TYPE (5,5):

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

TOTAL NUMBER: 3

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 3E3.5.7.13
L1 X 14595 3.5.7.139
 13 79750 2.5E3.11.29
L1 X 88730 2.5.19.467
 16 122368 2E9.239
L1 X 123152 2E4.43.179
 17 141664 2E5.19.233
L1 X 153176 2E3.41.467
 23 280540 2E2.5.13E2.83
L1 X 365084 2E2.107.853
 25 319550 2.7.5E2.11.83
L1 X 430402 2.7.71.433
 28 469028 2E2.7E2.2393
L1 X 486178 2.7E2.11E2.41
 38 802725 3.5E2.7.11.139
L1 X 863835 3.5.7.19.433
 39 879712 2E5.37.743
L1 X 901424 2E4.53.1063
 47 1185376 2E5.17.2179
L1 X 1286744 2E3.41.3923
 49 1328470 2.5.11.13.929
L1 X 1483850 2.5E2.59.503
 52 1466150 2.5E2.7.59.71
L1 X 1747930 2.5.47.3719
 56 1798875 3E3.5E3.13.41
L1 X 1870245 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 5120595 3E2.5.19.53.113
 74 4604776 2E3.11E2.67.71
L1 X 5162744 2E3.113.5711
 77 5232010 2.7.5.41.1823
L1 X 5799542 2.7E2.23.31.83
 78 5357625 3.7.13.5E3.157
L1 X 5684679 3E2.7.13.11.631
 80 5459176 2E3.17.137.293
L1 X 5495264 2E5.83.2069
 88 7275532 2E2.11.37.41.109
L1 X 7471508 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
L1 X 10025290 2.5.11.91139
 110 10533296 2E4.19.34649
L1 X 10949704 2E3.29.109.433
 112 10596368 2E4.29.41.557
L1 X 11199112 2E3.53.61.433
 113 10634085 3E4.7.11E2.5.31
L1 X 14084763 3.7.11E2.23.241
 119 11693290 2.7.5.167047
L1 X 12361622 2.7E2.13.31.313
 120 11905504 2E5.13.28619
L1 X 13337336 2E3.107.15581
 123 13671735 3.5.19.7E2.11.89
L1 X 15877065 3.5.19.17.29.113
 128 14443730 2.5.7E3.4211
L1 X 15882670 2.5.19.179.467
 142 18655744 2E9.83.439
L1 X 19154336 2E5.619.967
 148 22249552 2E4.13.41.2609
L1 X 25325528 2E3.587.5393
 153 23628940 2E2.5.37E2.863
L1 X 27428276 2E2.17.251.1607
 155 25596544 2E7.311.643
L1 X 25640096 2E5.67.11959
 161 30830696 2E3.13.521.569
L1 X 31652704 2E5.449.2203
 166 32685250 2.5E3.13.89.113
L1 X 34538270 2.5.13.379.701
 179 38400512 2E9.179.419
L1 X 38938288 2E4.83.109.269
 183 38807968 2E5.37.73.449
L1 X 40912232 2E3.37.89.1553
 187 46237730 2.7.5.11E2.53.103
L1 X 61319902 2.7.83.113.467
 188 46271745 3E2.5.13.19.23.181
L1 X 49125375 3E2.5E3.13.3359
 190 46555250 2.5E3.7.37.719
L1 X 55880590 2.5.103.227.239
 191 46991890 2.5.29.11.14731
L1 X 48471470 2.5.29.19E2.463
 194 49215166 2.31.61.7.11.13E2
L1 X 55349570 2.31.61.5.2927
 198 56512610 2.7.5.11.23.3191
L1 X 75866014 2.7E2.774143
 199 56924192 2E5.13.193.709
L1 X 64562488 2E3.283.28517
 201 59497888 2E5.41.101.449
L1 X 61953512 2E3.29.97.2753
 205 66854710 2.5.17.13E3.179
L1 X 71946890 2.5.17.83.5099
 215 74769345 3E3.5.7E2.89.127
L1 X 82824255 3E3.5.17.151.239
 220 79324875 3E2.5E3.7E2.1439
L1 X 87133365 3E2.5.11.103.1709
 228  88144630 2.5.7E2.29.6203
L1 X 102814490 2.5.37.269.1033
 238 102719740 2E2.5.29E2.31.197
L1 X 129063812 2E2.43.431.1741
 245 115259625 3E3.5E3.13.37.71
R9 X 123757335 3E3.5.13.151.467
 246 115447424 2E7.59.15287
L1 X 118458976 2E5.349.10607
 247 115749344 2E5.47.76961
L1 X 116983744 2E6.431.4241
```

```
249 118458830 2.7.5.37.45737
L1 X  131819506 2.7E2.13.107.967
250 120812175 3E3.5E2.11.53.307
R9 X  126671985 3E3.5.11.197.433
251 121293315 3E3.5.13.11.61.103
R9 X  138690045 3E2.5.13.383.619
252 127924335 3E2.5.7.11.36919
L1 X  148532625 3E2.5E3.31.4259
253 131118975 3E2.5E2.13.23.1949
R9 X  132926625 3E2.5E3.13.61.149
255 133089500 2E2.5E3.23.71.163
R9 X  176374564 2E2.383.115127
256 133178325 3.5E2.7E3.31.167
L1 X  133471275 3.5E2.7.31.59.139
259 134886465 3E4.5.7E3.971
L1 X  147382335 3E4.5.19.107.179
261 136770075 3E2.5E2.13.19.23.107
R9 X  155711205 3E2.5.13.179.1487
263 138605350 2.5E2.13E2.47.349
R9 X  147313850 2.5E2.23.128099
269 146648612 2E2.19.11E2.37.431
R9 X  159017308 2E2.19.23.90971
273 154190750 2.7E2.5E3.41.307
R9 X  190889986 2.7E2.43.97.467
277 157151410 2.5.13E3.23.311
R9 X  163634510 2.5.13.89.14143
283 166737550 2.5E2.7.359.1327
R9 X .188953970 2.5.23.829.991
285 169000448 2E9.71.4649
L1 X  173499952 2E4.53.204599
293 177997352 2E3.13.653.2621
L1 X  182108128 2E5.229.24851
302 195857415 3E2.5.13.19.67.263
R9 X  196214265 3E3.5.13.23.4861
304 199432948 2E2.11.13.151.2309
R9 X  213484172 2E2.11E2.197.2239
305 200328232 2E3.13.157.12269
L1 X  206790368 2E5.6462199
306 200879055 3E3.5.13.17.6733
L1 X  206393265 3E5.5.13.73.179
308 203055622 2.7.19.11.29.2393
L1 X  210627578 2.7E2.19.31.41.89
309 203972715 3E3.5.31.17.47.61
L1 X  207429525 3E3.5E2.31.23.431
330 248658488 2E3.13E2.183919
W2 X  256201912 2E3.37.43.20129
342 267217335 3E2.5.7E2.11.23.479
R9 X  347397705 3E2.5.89.127.683
343 270039910 2.5.7.47.211.389
R9 X  301444250 2.5E3.79.15263
356 286000065 3E5.5.13.19.953
R9 X  297390015 3E3.5.13.41.4133
364 301685895 3E2.5.19E2.7E2.379
L1 X  342005985 3E2.5.19E2.37.569
366 302770672 2E4.29.257.2539
L1 X  306676928 2E6.773.6199
367 304443436 2E2.31.61.11.3659
L1 X  305517524 2E2.31.61.13E2.239
372 311414355 3E3.5.7E2.179.263
R9 X  338659245 3E3.5.23.29.3761

377 318580262 2.7E2.11.13.127.179
L1 X  343312858 2.7.17.23.59.1063
378 319682650 2.5E2.7.59.113.137
L1 X  382593830 2.5.61.367.1709
384 332448224 2E5.53.211.929
R9 X  338290096 2E4.53.269.1483
386 334438875 3E4.5E3.17.29.67
R9 X  358687845 3E4.5.17.59.883
389 346657311 3E2.7E2.13.11.23.239
R9 X  370393569 3E2.7.13.17.37.719
395 359156770 2.7E2.5.83.8831
R9 X  402020318 2.7.17.37.71.643
396 360027675 3E2.5E2.19.7.53.227
R9 X  433850085 3E2.5.19.557.911
399 362645570 2.7E2.5.643.1151
R9 X  398531518 2.7.11.47.55061
403 371840350 2.7.31.5E2.43.797
R9 X  464106146 2.7E2.31.152767
412 394800070 2.7.5.41.151.911
R9 X  443597882 2.7E2.13.191.1823
414 395939775 3.5E2.11.7.17.37.109
R9 X  499717185 3.5.11.61.131.379
422 419640364 2E2.13.11.83.8839
R9 X  453610196 2E2.13E3.71.727
425 426386025 3E5.5E2.13.5399
R9 X  426684375 3E3.5E5.13.389
440 467406225 3E2.5E2.13.11.73.199
R9 X  534612975 3.5E2.13.19.28859
449 506468950 2.5E2.13.37.21059
L1 X  535495610 2.5.13.269.15313
455 522145832 2E3.13.173.29021
L1 X  538318048 2E5.2029.8291
462 540759375 3E3.5E5.13.17.29
R9 X  640415025 3E3.5E2.269.3527
465 551388915 3E2.5.7E2.11.127.179
R9 X  677841165 3E2.5.23.569.1151
472 577884195 3E2.5.7E2.262079
L1 X  587323485 3E2.5.7.1091.1709
473 579926204 2E2.13E2.11.167.467
R9 X  628681924 2E2.13.103.107.1097
482 601235145 3E2.5.19.7E2.113.127
R9 X  696285495 3E2.5.19.47.17327
488 626323995 3E7.5.41.11.127
R9 X  643272165 3E3.5.41.23.31.163
489 630007455 3.5.7E2.11.29.2687
R9 X  693778785 3.5.7.23.287279
491 640001054 2.7E2.19.11.31247
R9 X  642416866 2.7.19.13.37.5021
497 658009485 3E2.5.7E3.89.479
R9 X  689830515 3E2.5.11.47.149.199
508 683490885 3.5.7.11E2.23.2339
R9 X  750610875 3.5E3.7.269.1063
510 688679775 3E2.5E2.7.17E3.89
R9 X  825955425 3E2.5E2.71.149.347
516 705023055 3E3.5.11.43.61.181
R9 X  724885425 3E2.5E2.11.109.2687
518 721522755 3E3.5.17.29.37.293
R9 X  726368445 3E3.5.11E2.53.839
522 751953405 3.5.7.19.37.61.167
R9 X  767949315 3.5.7E2.19.127.433

529 769289955 3.5.7E2.19.31.1777
L1 X  787384605 3.5.7.19.37.10667
535 807848864 2E5.61.163.2539
L1 X  819234496 2E6.1301.9839
538 821921625 3E2.5E3.7.29.59.61
R9 X  988676775 3E2.5E2.71.199.311
541 845397735 3.5.7E2.13.103.859
R9 X  867557145 3.5.7.13.569.1117
549  869530725 3E2.5E2.7E3.19.593
R9 X  1045525275 3E2.5E2.89.109.479
560 912404025 3E2.5E2.13.17.59.311
R9 X  988724295 3E2.5.13.61.103.269
566  932913124 2E2.11.13E2.109.1151
R9 X  1015026716 2E2.11.191.120779
576  967887488 2E7.61.113.1097
R9 X  1011081832 2E3.61.37.55997
577  967947856 2E4.19E2.103.1627
R9 X  1031796176 2E4.3847.16763
578  968410624 2E9.61.101.307
R9 X  1024180592 2E4.241.265607
581  978888550 2.5E2.31.43.19.773
R9 X  1048124570 2.5.31.43.61.1289
582  989779882 2.7.19.13.17.113.149
R9 X  1078636118 2.7E2.19.41.71.199
584  992776995 3E2.5.7E2.450239
L1 X  1008990045 3E2.5.7.797.4019
585  994945490 2.7E2.5.11E2.97.173
R9 X  1331936326 2.7E2.881.15427
589 1002455350 2.5E2.13.1542239
L1 X  1005541130 2.5.11.59.154937
590 1015866225 3E3.5E2.11.41.47.71
R9 X  1143995535 3E3.5.17.503.991
595 1033407104 2E7.83.211.461
R9 X  1064553376 2E5.1019.32647
598 1047381370 2.5.7E3.47.73.89
R9 X  1254314630 2.5.59.443.4799
602 1056277222 2.7E2.19.11.13.3967
R9 X  1223576858 2.7.19.41.151.743
606 1077722984 2E3.13.1913.5417
L1 X  1099987936 2E5.179.192037
607 1082038815 3E2.5.13.11.181.929
R9 X  1135944225 3E2.5E2.13.83.4679
609 1086321110 2.5.7.37.419429
R9 X  1208799850 2.5E2.71.163.2089
620 1127508130 2.5.7E2.31.199.373
R9 X  1328325470 2.5.43.271.11399
621 1129315275 3E2.5E2.31.11.41.359
R9 X  1210534965 3E2.5.31.23.29.1301
622 1131258975 3.5E2.31.7.11.71.89
R9 X  1337154465 3.5.31.17.47.59.61
623 1133458150 2.5E2.11.347.5939
L1 X  1173447770 2.5.11.929.11483
627 1179749410 2.5.7.151.239.467
R9 X  1278710750 2.5E3.37.138239
628 1183083825 3.5E2.7.11.349.587
R9 X  1266759375 3.5E5.7.97.199
631 1195637144 2E3.13E2.383.2309
L1 X  1239287656 2E3.23.239.28181
637 1216935225 3E3.5E2.31.11.17.311
R9 X  1457179335 3E3.5.31.348191

647 1251532282 2.7.11E2.13.17.3343
R9 X  1438327814 2.7.11.9339791
650 1264688650 2.5E2.17.53.67.419
R9 X  1317021110 2.5.17.61.89.1427
651 1272724250 2.7.5E3.727271
L1 X  1450182118 2.7.11.251.37517
656 1284072075 3E3.5E2.11.13.53.251
R9 X  1550746485 3E3.5.41.503.557
657 1289325975 3.5E2.7E2.41.43.199
R9 X  1323006825 3.5E2.7.29.113.769
659 1303670522 2.7.11.19.41.10867
R9 X  1325516038 2.7.11E2.19.41183
664 1323789350 2.5E2.13.67.113.269
R9 X  1401348730 2.5.29.37.61.2141
669 1348200032 2E5.59.461.1549
L1 X  1358657968 2E4.53.109.14699
670 1357689830 2.5.7.107.109.1663
R9 X  1488948250 2.5E3.47.126719
676 1400735930 2.5.11E2.31.107.349
R9 X  1495046470 2.5.17.139.151.419
682 1458334432 2E5.53.73.11779
R9 X  1507257008 2E4.89.251.4217
687 1517112765 3E2.5.7E2.47.14639
R9 X  1607180355 3E2.5.11.59.113.487
701 1585667930 2.7E2.5.11.37.7951
R9 X  2134722982 2.7.83.227.8093
703 1601150265 3E2.5.13.11.61.4079
R9 X  1713637575 3E2.5E2.13.509.1151
705 1618057875 3.5E3.17.7.101.359
R9 X  1681454445 3.5.17.11.23.67.389
709 1666776566 2.7.31.13.29.61.167
R9 X  1693008394 2.7.31.11.67E2.79
714 1721688850 2.7.31.5E2.107.1483
R9 X  2094066926 2.7.31.61.83.953
715 1723336461 3E2.7.11.17.19.7699
R9 X  1736119539 3E2.7E3.11.29.41.43
719 1754082603 3E2.7.13E3.19.23.29
R9 X  1810205397 3E2.7.13.11.67.2999
724 1774259235 3E4.5.7.19.32939
L1 X  2052051165 3E9.5.29.719
725 1775992725 3E2.5E2.13.23.26399
R9 X  1798778475 3E3.5E2.13.359.571
726 1783852785 3E2.5.13.11E3.29.79
R9 X  2052998415 3E2.5.13.1151.3049
734 1814936354 2.7.19.11E2.17.31.107
R9 X  2156422366 2.7.19.71.227.503
738 1861960700 2E2.5E2.17.593.1847
R9 X  2425702372 2E2.131.433.10691
745 1895700345 3.7.11E2.17.5.67.131
R9 X  2230100103 3.7E2.11.17.31.2617
748 1929310100 2E2.5E2.83.191.1217
R9 X  2333417068 2E2.23.4463.5683
749 1930301618 2.7.19.17.37.83.139
R9 X  1930741582 2.7.19.11E2.223.269
754 1964397015 3E4.5.7E3.79.179
R9 X  2217362985 3E3.5.19.131.6599
758 1983736876 2E2.11.19E2.71.1759
R9 X  2071810004 2E2.11.43.719.1523
765 2026348300 2E2.271.5E2.23.3251
R9 X  2580356852 2E2.271.61.39023
```

769	2043906130	2.5.7E3.179.3329
R9 X	2271773870	2.5.29.73.239.449
775	2083894785	3E2.5.7E3.79.1709
R9 X	2184265215	3E2.5.11.37.239.499
794	2201899310	2.5.31.13E3.53.61
R9 X	2387806930	2.5.31.29.265607
798	2223111345	3.5.7.13E3.23.419
R9 X	2383045455	3.5.7.19.251.4759
818	2379890150	2.5E2.31.11.97.1439
R9 X	2659787290	2.5.31.83.167.619
819	2402498475	3E5.5E2.13.29.1049
R9 X	2573745525	3E2.5E2.13.587.1499
820	2402562825	3E2.5E2.13.17.19.2543
L1 X	2764606455	3E2.5.13.929.5087
825	2421696130	2.7E2.5.31.131.1217
R9 X	2856901502	2.7.13.1367.11483
828	2440775024	2E4.29.83.63377
L1 X	2510314336	2E5.557.140839
829	2440883588	2E2.11.13.83.51413
R9 X	2637996988	2E2.11E2.1721.3167
832	2448784550	2.5E2.31.17.199.467
R9 X	2565180250	2.5E3.31.89.3719
834	2481907330	2.5.7E2.263.19259
L1 X	2734933310	2.5.17.1319.12197
838	2502894550	2.5E2.43.13.149.601
R9 X	2670211850	2.5E2.43.79E2.199
846	2611143964	2E2.11.13E2.251.1399
R9 X	2812097636	2E2.17.29.167.8539
847	2612831949	3E2.7E2.13.19.17E2.83
L1 X	2737662291	3E2.7E2.13.19.41.613
849	2624170185	3E2.7.13.5.53.107.113
R9 X	3183941943	3E2.7E2.13.127.4373
853	2671748950	2.5E2.31.13.67.1979
R3 X	2937892010	2.5.31.43.433.509
857	2702347270	2.7.5.1607.24023
R9 X	2860457978	2.7.17.29E2.31.461
873	2828720510	2.7E2.5.11.83.6323
R9 X	3711610882	2.7.53.113.44267
874	2840437756	2E2.19.13E2.37.43.139
R9 X	3156691844	2E2.19.41.151.6709
883	2896764608	2E6.53.853999
L1 X	2959967392	2E5.199.464819
893	2960375535	3E2.5.13E2.31.29.433
R9 X	2986743825	3E2.5E2.13.31.32939
897	2995750730	2.5.7E2.1223.4999
R9 X	3283369270	2.5.29.37.305999
900	3000833115	3.5.7.17.19.23.3847
R9 X	3382537125	3.5E3.11.47.73.239
908	3054330279	3E2.7E3.13.11E2.17.37
R9 X	3568431321	3E3.7E2.13.207479
911	3101299916	2E2.11.13.113.47981
R9 X	3331358932	2E2.11E2.263.26171
912	3105174904	2E3.13E2.2296727
R9 X	3199343456	2E5.1097.91139
916	3135932032	2E7.101.107.2267
R9 X	3235061408	2E5.3671.27539
917	3138655065	3.5.7E2.13.29.47.241
R9 X	3535433895	3.5.7.41.131.6269
918	3143417344	2E9.89.101.683
R9 X	3280122416	2E4.113.659.2753

923	3232160384	2E7.173.227.643
R9 X	3282775456	2E5.229.347.1291
924	3254018625	3E2.5E3.13.11.113.179
R9 X	3737227455	3E2.5.13.479.13337
925	3260154664	2E3.13E3.251.739
R9 X	3397181336	2E3.29.97.150959
934	3359556915	3.5.11.17.13E2.19.373
R9 X	3736509645	3.5.11E3.17.101.109
940	3396934125	3E3.5E3.13.139.557
R9 X	3427629075	3E3.5E2.13.167.2339
950	3437107245	3E2.5.13.11E2.59.823
R9 X	3743360595	3E3.5.13.617.3457
955	3445207395	3.5.7E2.19.29.47.181
R9 X	3725301405	3.5.7.19.1867319
957	3459581824	2E7.97.278639
R9 X	3503631776	2E5.139.773.1019
959	3475340505	3E3.5.7.13E2.47.463
R9 X	4350149415	3E3.5.127.487.521
963	3554097885	3E3.5.13E3.23.521
R9 X	3601895715	3E3.5.11.41.59159
964	3554318372	2E2.11E3.19.41.857
R9 X	3831620188	2E2.11.103.845459
968	3602732595	3.5.19.7E2.11.47.499
R9 X	4276947405	3.5.19.23.29.149.151
971	3647464821	3E2.7.13.11.23.29.607
R9 X	4001077899	3E2.7E2.13.31.47.479
978	3685361368	2E3.13E2.47.59.983
R9 X	4093749032	2E3.79.2213.2927
988	3797392550	2.5E2.7.107.101399
L1 X	4350300250	2.5E3.3719.4679
991	3833109376	2E7.71.197.2141
R9 X	3953660384	2E5.2753.44879
993	3848313645	3E4.5.11E5.59
R9 X	3868601715	3E4.5.11E2.89.887
1000	3905322225	3.5E2.7.19.53.83.89
R9 X	4194159375	3.5E5.7.79.809
1003	3949406848	2E7.211.349.419
R9 X	3997413152	2E5.139.499.1801
1004	3956965155	3E3.5.11.13E2.15767
R9 X	4353401565	3E3.5.17.71.26717
1005	3961085625	3E3.5E4.7.33533
R9 X	4419731655	3E3.5.17.137.14057
1007	3971606470	2.5.13E2.17.138239
R9 X	4224919610	2.5.19.71.107.2927
1010	4000783984	2E4.43.113.51461
L1 X	4001351168	2E9.1367.5717
1014	4029072075	3E2.5E2.7.19.134639
R9 X	4652515125	3E3.5E3.109.12647
1017	4049815250	2.5E3.13.43.28979
L1 X	4304770990	2.5.13.857.38639
1020	4063895408	2E4.19E2.449.1567
R9 X	4269946192	2E4.179.839.1777
1025	4109466950	2.5E2.31.17.83.1879
R9 X	4349991610	2.5.31.23.433.1409
1027	4141715570	2.5.19.23E2.89.463
R9 X	4171865230	2.5.13.47.157.4349
1032	4152981844	2E2.11E2.23.53.7039
R9 X	4341313196	2E2.11.43.797.2879
1038	4242143750	2.5E5.13.109.479
R9 X	4419801850	2.5E2.19.1567.2969

1046	4321518201	3E2.7E2.13.11.17.29.139
R9 X	5089774599	3E2.7E3.13.53.2393
1051	4377238047	3E2.7.13.17.29.37.293
R9 X	4406635233	3E2.7.13.11E2.53.839
1053	4396203070	2.5.7E2.107.191.439
R9 X	4964856770	2.5.31.131.179.683
1066	4589689390	2.5.11.13.167.19219
R9 X	5174685650	2.5E2.79.881.1487
1069	4617085725	3E3.5E2.7.53.103.179
R9 X	5410843875	3E3.5E3.479.3347
1070	4634941234	2.7.11.17.37.59.811
R9 X	4962509006	2.7E2.13.47.179.463
1073	4702051046	2.7.23.11E2.17.31.229
R9 X	5446976794	2.7.23.29.151.3863
1074	4709813710	2.5.7.1307.51479
R9 X	4986547250	2.5E3.47.59.7193
1077	4763730208	2E5.17.1949.4493
L1 X	5173851992	2E3.41.15773939
1080	4785332175	3E5.5E2.13E2.59.79
R9 X	5126533425	3E2.5E2.13.479.3659
1083	4802570325	3E3.5E2.7.293.3469
L1 X	5317615275	3.5E2.7.139.72869
1084	4839564015	3E2.5.13.11.61.12329
R9 X	5177919825	3E2.5E2.13.359.4931
1085	4842186615	3E3.5.7E2.359.2039
R9 X	5204405385	3E3.5.23.37.89.509
1094	4931246565	3E2.5.7E2.29.67.1151
R9 X	5517209115	3E2.5.11.683.16319
1097	4960585125	3E3.5E3.31.17.2789
R9 X	5067344475	3E3.5E2.31.23.10529
1100	4999722525	3E2.5E2.7.17.29.47.137
R9 X	6532396515	3E2.5.59.863.2851
1102	5032905345	3E2.5.13E2.61.19.571
L1 X	5091357375	3E2.5E3.13E2.61.439
1103	5047072690	2.5.11.37.743.1669
R9 X	5151203150	2.5E2.17.191.31729
1105	5060442170	2.5.7E2.31.79.4217
R9 X	6018387910	2.5.73.113.72959
1108	5088398630	2.5.7E2.1319.7873
R9 X	5575517050	2.5E2.37.1187.2539
1110	5118127490	2.7.5.37.167.11833
R9 X	5760821374	2.7.11E2.487.6983
1114	5164511625	3E2.7.13.5E3.61.827
R9 X	6495742071	3E2.7.13.103.77003
1120	5228978728	2E3.17E2.53.139.307
R9 X	5493671672	2E3.41.89.307.613
1123	5296175750	2.5E3.17.29.97.443
R9 X	5700176890	2.5.19.83.181.1997
1124	5301374925	3.5E2.11.7E2.199.659
R9 X	5894337075	3.5E2.11.23.113.2749
1133	5442123375	3E3.5E3.13.71.1747
R9 X	5552656785	3E3.5.13.37.233.367
1135	5444435745	3E2.5.7.61.67.4229
R9 X	5683780575	3E2.5E2.11.563.4079
1138	5455059448	2E3.127.19E2.107.139
R9 X	5605522952	2E3.127.41.53.2539
1139	5477707264	2E9.59.149.1217
R9 X	5736418736	2E4.131.1049.2609
1148	5575354850	2.5E2.13.17.83.6079
R9 X	6393879070	2.5.41.139.151.743

1155	5640198165	3E2.5.19.7E2.61.2207
R9 X	6532594155	3E2.5.19.47.162563
1157	5676646514	2.7.11E2.23.53.2749
R9 X	5699641486	2.7E2.11.41.43.2999
1161	5745724875	3E4.11.5E3.23.2243
R9 X	6453305397	3E4.11.7.67.15443
1162	5747841099	3E2.7.13.11E2.31.1871
R9 X	5852448693	3E5.7.13.23.37.311
1168	5815260550	2.11.31.5E2.17.20063
R9 X	7082199674	2.11.31.37.43.61.107
1169	5845926555	3E2.5.19.7.37.26399
R9 X	6674009445	3E3.5.19.439.5927
1171	5857529678	2.7E3.13.11.29E2.71
R9 X	6785209522	2.7.13.239.389.401
1172	5864752630	2.5.11E2.53.109.839
R9 X	6080349770	2.5.11.2393.23099
1175	5906679975	3E5.5E2.7.138899
R9 X	6632100825	3.5E2.7.2777.4549
1177	5907709665	3E2.5.13.11.79.11621
R9 X	6275865375	3E2.5E3.13.429119
1179	5935418265	3.5.7E2.19.47.9043
R9 X	5941886055	3.5.7.19.37.101.797
1182	5945041304	2E3.17.37E3.863
R9 X	6199515496	2E3.23.821.41039
1186	6001753725	3E5.5E2.11.19.29.163
R9 X	7322393475	3E2.5E2.79.491.839
1195	6104279475	3E4.5E2.7.499.863
R9 X	6859176525	3E3.5E2.53.109.1759
1196	6107550855	3.5.7E2.19.41.10667
R9 X	6151261305	3.5.7E2.19E2.97.239
1201	6155750475	3E2.5E2.7.23.109.1559
R9 X	7121971125	3E2.5E3.59.61.1759
1209	6261264590	2.5.7E2.149.191.449
R9 X	7035695410	2.5.37.53.499.719
1221	6397019750	2.5E3.11.19.191.641
R9 X	7447992730	2.5.31.3209.7487
1227	6559115488	2E5.53.281.13763
R9 X	6645570608	2E4.41.971.10433
1229	6575884876	2E2.19.41.11E2.107.163
R9 X	7275607604	2E2.19.41.113.20663
1231	6677930385	3E5.7.5.37.21221
R9 X	7412119407	3E5.7E2.11.56591
1237	6741318350	2.5E2.13.89.116531
L1 X	6913901410	2.5.13.53.1003469
1246	6794712832	2E8.89.298223
R9 X	6920608928	2E5.227.653.1459
1248	6862936275	3E3.5E2.13.29.149.181
R9 X	7354903725	3E2.5E2.13.503.4999
1250	6891050528	2E5.29.2053.3617
R9 X	7154242552	2E3.23E2.971.1741
1251	6898979516	2E2.11.13E2.269.3449
R9 X	7420038484	2E2.17.29.149.25253
1254	6943893957	3E2.7.13.19.11.113.359
R9 X	7397123643	3E2.7E2.13.19.59.1151
1265	7143425289	3E3.7.13.11.113.2339
R9 X	7197592311	3E3.7E2.13.17.103.239
1266	7148883170	2.5.11.13.89.56171
R9 X	8138888350	2.5E2.179.251.3623
1269	7274734155	3E2.5.13.19.53E2.233
R9 X	7356799125	3E2.5E3.13.41.12269

1273	7319982604	2E2.11E2.17.389.2287
R9 X	7633515956	2E2.11.41.659.6421
1275	7336299285	3E2.5.7.19.443.2767
R9 X	8001520875	3E3.5E3.47.73.691
1277	7347995392	2E8.269.106703
L1 X	7373955488	2E5.71.3245579
1281	7430796945	3E2.5.13.11E2.113.929
R9 X	7967123775	3E2.5E2.13.569.4787
1284	7482410325	3E2.5E2.13.31.179.461
R9 X	7531628715	3E2.5.13.31.29.14321
1287	7523483030	2.5.7E2.53.271.1069
R9 X	8601297130	2.5.37.71.327419
1288	7534469228	2E2.19.11.13.761.911
R9 X	8810613652	2E2.19E2.227.26879
1289	7562801950	2.5E2.11.2099.6551
L1 X	7792465250	2.5E3.19.1640519
1291	7579753125	3.5E5.7.19.6079
R9 X	7619274075	3.5E2.7.19.419.1823
1293	7592910975	3E3.5E2.13.43.20123
R9 X	7778605185	3E2.5.13.43.29.10663
1305	7780806075	3.5E2.7.17.149.5851
R9 X	7893190725	3.5E2.7E2.43.199.251
1309	7822669778	2.7E2.11.19.167.2287
R9 X	7952449582	2.7.11.19.131.20747
1311	7900303190	2.5.31.13.619.3167
R9 X	7938683050	2.5E2.31.47.59.1847
1318	8006813199	3E3.7E2.19.11.23.1259
R9 X	8540514801	3E3.7.19.13.113.1619
1320	8052147896	2E3.13.509.152111
R9 X	8239047304	2E3.23.97E2.4759
1323	8119394450	2.5E2.31.19.23.11987
R9 X	9005223790	2.5.31.73.107.3719
1333	8269106625	3E2.13E2.31.61.5E3.23
L1 X	9402333759	3E2.13E2.31.61.7.467
1335	8279312030	2.5.11.37.881.2309
R9 X	8443831330	2.5.11E2.1187.5879
1337	8293896650	2.5E2.13.89.307.467
R9 X	8596897270	2.5.13.131.181.2789
1342	8376676490	2.7.5.13.19E2.43.593
R9 X	11698280566	2.7.967.864107
1344	8455838230	2.7.5.97.911.1367
R9 X	9150518762	2.7.11E2.83.151.431
1345	8459517832	2E3.17E3.31.53.131
R9 X	9400398968	2E3.79.2087.7127
1346	8467262505	3E4.5.13E2.17.19.383
R9 X	9899027415	3E4.5.31.487.1619
1348	8491739828	2E2.13.11E2.103.13103
R9 X	9271203916	2E2.13.83.227.9463
1349	8502526305	3E2.7E2.13.5.47.6311
R9 X	10355911839	3E2.7.13.53.227.1051
1355	8557778500	2E2.5E3.197.283.307
R9 X	10355067452	2E2.23.9371.12011
1361	8676652328	2E3.19E2.47.97.659
R9 X	9066365272	2E3.43.59.587.761
1362	8717951385	3E2.5.13.11E2.79.1559
R9 X	9407501415	3E2.5.13.37.223.1949
1366	8850661358	2.7E2.19.11.601.719
R9 X	8937716242	2.7.19.13.89.113.257
1367	8851379072	2E7.29.433.5507
R9 X	9435731728	2E4.3467.170099
1370	8924047490	2.5.17.19.521.5303
R9 X	9017050750	2.5E3.17.271.7829
1371	8935581375	3E2.5E3.7.53.79.271
R9 X	10128267585	3E2.5.19.47.103.2447
1374	8971549180	2E2.5.11.2963.13763
R9 X	11589884804	2E2.151.211E2.431
1380	9018517725	3E4.5E2.7.349.1823
R9 X	10138589475	3.5E2.7.19311599
1384	9075291470	2.7E2.5.23.43.61.307
R9 X	11614384306	2.7.41.113.241.743
1390	9153086085	3E2.5.13.11.37E2.1039
R9 X	10021735035	3E2.5.13.47.389.937
1391	9159365024	2E5.53.241.22409
L1 X	9290429416	2E3.17.4157.16433
1394	9205801010	2.5.7E3.109.24623
R9 X	10296406990	2.5.37.53.191.2749
1398	9262239250	2.5E3.11.1783.1889
R9 X	9673564910	2.5.17.47.181.6689
1399	9271316500	2E2.5E3.53.271.1291
R9 X	11451453932	2E2.47.101.683.883
1405	9357224877	3E2.7E3.13.11E2.41.47
R9 X	10162493523	3E5.7E3.13.83.113
1409	9490622048	2E5.61.4861999
L1 X	9500349952	2E9.4079.4549
1411	9549021568	2E7.37.101.19963
R9 X	10182996752	2E4.9043.70379
1417	9818506568	2E3.13E2.29.179.1399
R9 X	10933693432	2E3.89.1049.14639
1420	9844469775	3E2.5E2.7.23.29.9371
R9 X	11910566385	3E2.5.19.991.14057
1423	9880655085	3E2.5.7.17.233.7919
R9 X	10935385875	3E2.5E3.19.431.1187

TOTAL NUMBER: 345

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

16	150										
		8	10	16	19	20	27	29	39	51	60
		63	68	86	118	121	156	158	164	169	175
		179	185	193	196	213	231	232	248	257	281
		284	285	288	307	320	322	326	327	336	351
		365	366	381	385	390	397	407	429	433	434
		435	445	450	453	454	474	486	487	509	514
		527	536	545	550	573	575	577	578	583	625
		643	654	669	671	672	673	682	692	696	699
		706	735	742	744	778	799	828	850	866	887
		894	903	906	918	930	945	951	958	962	966
		970	1006	1010	1016	1020	1021	1035	1036	1041	1059
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		1297	1326	1328	1336	1364	1367	1411	1415	1416	1424
21	1										
		316									
22	3										
		89	567	1403							
32	76										
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		287	324	335	344	346	352	371	380	411	413
		419	439	456	457	468	471	477	535	540	568
		595	616	655	686	694	710	757	761	827	856
		860	870	883	916	923	948	956	957	960	979
		991	1003	1058	1067	1072	1118	1122	1163	1166	1178
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		1382	1383	1388	1395	1396	1409				
44	37										
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		596	603	608	624	662	697	752	758	770	823
		829	868	892	911	914	915	932	964	989	990
		1032	1092	1101	1273	1303	1321	1330			
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		342	465	497	618	687	775	777	885	1094	1100
		1135	1258	1275	1371	1420	1423				
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		404	423	451	500	512	551	739	751	773	797
		821	837	864	880	901	947	967	985	988	1008
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		133	195	271	422	473	499	504	562	634	997
		1319	1348	1357							
63	2										
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		1331	1413								
68	3										
		362	402	485							
76	11										
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		1288									
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		28	273	585	711	1089	1165				
105	24										
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		995	1112	1172	1181	1215	1226	1247	1260	1335	1425
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		442	983								
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		225	319	354	372	391	409	418	481	484	493
		518	539	590	604	613	656	666	675	728	754
		772	795	921	959	963	1004	1005	1034	1037	1085
		1174	1176	1185	1189	1347	1363	1372			
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		1002	1091	1300	1324	1412	1426				
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		431	704	774	781	943	1136				
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		548	619								
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		85	157	167	510	538	549	1014	1186	1188	1201
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		905									
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424	2	747 1234
434	5	403 496 709 714 1024
465	1	622
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735	4	235 355 415 1029
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765	3	1143 1200 1317
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1072	1	233
1078	2	370 636
1084	1	765
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1862	2	134 1249
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1972	1	1377
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2079	2	926 952
2096	1	341
2132	1	605
2150	1	838
2152	1	1338
2295	2	615 882
2415	2	408 492
2457	1	1265
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2541	1	113
2565	3	430 660 1019
2625	2	1282 1369
2805	1	934
2812	1	1313
2925	9	253 725 803 819 933 941 1049 1080 1248
2926	2	659 1309
3032	1	793
3105	2	325 851
3116	1	1229
3375	3	815 1205 1352
3591	1	1318
3645	1	1353
3782	1	194
3915	1	359
3927	1	745
3969	1	237
4185	2	309 637
4324	1	1332
4455	5	117 242 830 961 1193
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7564	1	367									
7605	1	524									
8775	2	425	940								
9009	3	260	695	743							
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11115	2	297	495								
11475	1	689									
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13923	1	1232									
13965	2	1196	1387								
14355	1	994									
14445	1	741									
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15561	2	1254	1312								
15795	1	1358									
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16275	1	256									
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43875	1	888									
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