

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

$$(a, b) = (z + 1, z^6 + z^5 + z + 1)$$

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ABSTRACT. The continued fraction conjecture claims that the continued fraction defined by the (a, b) -Thue-Morse sequence is algebraic over $\mathbb{F}_2(x)$ for all pairs of distinct elements (a, b) in $\mathbb{F}_2[x] \setminus \mathbb{F}_2$. In this paper we prove the conjecture for $(a, b) = (z + 1, z^6 + z^5 + z + 1)$.

1. INTRODUCTION

Let $\mathbb{F}_2$ be the finite field of cardinality 2. Given a sequence of polynomials $\mathbf{a} = (a_0(z), a_1(z), a_2(z), \dots)$ of elements from $\mathbb{F}_2[z] \setminus \mathbb{F}_2$, we define the infinite continued fraction

$$(1.1) \quad \text{CF}(\mathbf{a}(z)) = \frac{1}{a_0(z) + \frac{1}{a_1(z) + \frac{1}{a_2(z) + \frac{1}{\ddots}}}}$$

as the limit of the finite continued fractions

$$(1.2) \quad \text{CF}_n(\mathbf{a}(z)) = \frac{1}{a_0(z) + \frac{1}{a_1(z) + \frac{1}{\ddots + \frac{1}{a_n(z)}}}} \in \mathbb{F}_2((1/z)).$$

Conversely, each power series in $\mathbb{F}_2[[1/z]]$ without constant term

$$(1.3) \quad c_{-1}z^{-1} + c_{-2}z^{-2} + c_{-3}z^{-3} + \dots$$

admits a continued fraction expansion of form (1.1).

Let a and b be two distinct elements from $\mathbb{F}_2[z] \setminus \mathbb{F}_2$. We consider the continued fraction (1.1) associated with the (a, b) -Thue-Morse sequence

$$\mathbf{t} = (t_0(z), t_1(z), t_2(z), \dots) = (a, b, b, a, b, a, a, b, \dots)$$

that we shall denote

$$(1.4) \quad \text{CF}(a, b) := \text{CF}(\mathbf{t}).$$

Date: runone at : 30/04/2020 09:54:21 .

2010 Mathematics Subject Classification. 11B85, 11J70, 11B50, 11Y65, 05A15.

Key words and phrases. automatic sequence, continued fraction, Thue-Morse sequence.

* This paper was automatically generated from a computer program developed by the authors, with 2.8 hours CPU time used.

Theorem 1.1. *When $(a, b) = (z+1, z^6+z^5+z+1)$, the two power series $\text{CF}(a, b)$ and $\text{CF}(b, a)$ are algebraic over $\mathbb{F}_2(z)$, with minimal polynomials of the form*

$$p_4(z)y^4 + p_3(z)y^3 + p_2(z)y^2 + p_1(z)y + p_0(z) = 0$$

where, for $\text{CF}(a, b)$,

$$\begin{aligned} p_0(z) &= z^{20} + z^{17} + z^{12} + z^{10} + z^7 + z^5 + z^2 + 1, \\ p_1(z) &= z^{23} + z^{22} + z^{18} + z^{17} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^6 + z^5, \\ p_2(z) &= z^{24} + z^{22} + z^{12} + z^{10} + z^4 + 1, \\ p_3(z) &= z^{23} + z^{22} + z^{18} + z^{17} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^6 + z^5, \\ p_4(z) &= z^{22} + z^{20} + z^{17} + z^7 + z^5 + z^2 + 1, \end{aligned}$$

and for $\text{CF}(b, a)$,

$$\begin{aligned} p_0(z) &= z^{17} + z^{12} + z^{10} + z^7 + z^5 + z^2 + 1, \\ p_1(z) &= z^{23} + z^{22} + z^{18} + z^{17} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^6 + z^5, \\ p_2(z) &= z^{24} + z^{22} + z^{12} + z^{10} + z^4 + 1, \\ p_3(z) &= z^{23} + z^{22} + z^{18} + z^{17} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^6 + z^5, \\ p_4(z) &= z^{22} + z^{17} + z^7 + z^5 + z^2 + 1. \end{aligned}$$

2. PROOF

Define the sequences of polynomials $(P_n(z))_{n \geq 0}$ and $(Q_n(z))_{n \geq 0}$ by

$$\begin{pmatrix} P_n(z) & Q_n(z) \\ P_{n-1}(z) & Q_{n-1}(z) \end{pmatrix} := \begin{pmatrix} t_n(z) & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} t_{n-1}(z) & 1 \\ 1 & 0 \end{pmatrix} \cdots \begin{pmatrix} t_0(z) & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}.$$

By the basic properties of continued fractions, we have

$$(2.1) \quad \text{CF}_n(a, b) = \frac{P_n(z)}{Q_n(z)} \in \mathbb{F}_2((1/z)).$$

As formula (2.1) is not efficient for calculating $\text{CF}_n(a, b)$, a fast method is to be derived and described as follows. Define

$$\begin{aligned} M_n(x) &= x^{\deg(t_{2^n-1})} \begin{pmatrix} t_{2^n-1}(1/x) & 1 \\ 1 & 0 \end{pmatrix} \times x^{\deg(t_{2^n-2})} \begin{pmatrix} t_{2^n-2}(1/x) & 1 \\ 1 & 0 \end{pmatrix} \times \\ &\quad \cdots \times x^{\deg(t_0)} \begin{pmatrix} t_0(1/x) & 1 \\ 1 & 0 \end{pmatrix}, \\ W_n(x) &= x^{\deg(\bar{t}_{2^n-1})} \begin{pmatrix} \bar{t}_{2^n-1}(1/x) & 1 \\ 1 & 0 \end{pmatrix} \times x^{\deg(\bar{t}_{2^n-2})} \begin{pmatrix} \bar{t}_{2^n-2}(1/x) & 1 \\ 1 & 0 \end{pmatrix} \times \\ &\quad \cdots \times x^{\deg(\bar{t}_0)} \begin{pmatrix} \bar{t}_0(1/x) & 1 \\ 1 & 0 \end{pmatrix}, \end{aligned}$$

where $\bar{t}$ is the (b, a) -Thue-Morse sequence. By the properties of the Thue-Morse sequence, we have for $n \geq 0$

$$\begin{aligned} M_{n+1}(x) &= W_n(x) \cdot M_n(x), \\ W_{n+1}(x) &= M_n(x) \cdot W_n(x). \end{aligned}$$

Let $x := 1/z$. For each non-zero polynomial $P(z)$, define $\tilde{P}(x)$ to be $P(1/x)$. Then,

$$\text{CF}_n(a, b) = \frac{P_n(z)}{Q_n(z)} = \frac{\tilde{P}_n(x)}{\tilde{Q}_n(x)} \in \mathbb{F}_2((x)) = \mathbb{F}_2((1/z)).$$

Comparing the definition of $M_n(x)$ with the definition of $P_n(x)$ and $Q_n(x)$, we see that

$$\begin{aligned} M_n(x)_{0,1} &= x^{d_n} \tilde{P}_{2^n-1}(x), \\ M_n(x)_{0,0} &= x^{d_n} \tilde{Q}_{2^n-1}(x), \end{aligned}$$

for some positive integer d_n . Hence,

$$(2.2) \quad \text{CF}_{2^{2^n}-1}(a, b) = \frac{\tilde{P}_{2^{2^n}-1}(x)}{\tilde{Q}_{2^{2^n}-1}(x)} = \frac{M_{2^n}(x)_{0,1}}{M_{2^n}(x)_{0,0}}.$$

Therefore, by the convergence theorem of continued fraction, the algebraicity of $\text{CF}(a, b)$ will be established if it is shown that both $M_{2^n}(x)_{0,1}$ and $M_{2^n}(x)_{0,0}$ converge to algebraic series in $\mathbb{F}_2[[x]]$.

Actually, we will prove that for all $0 \leq i, j \leq 1$ the four sequences $(M_{2^n}(x)_{i,j})_n$, $(M_{2^{n+1}}(x)_{i,j})_n$, $(W_{2^n}(x)_{i,j})_n$, and $(W_{2^{n+1}}(x)_{i,j})_n$ converge to algebraic series in $\mathbb{F}_2[[x]]$. For this purpose, we define four 2×2 matrices M^e, M^o, W^e, W^o as follows: For each $T \in \{M^e, M^o, W^e, W^o\}$ and $0 \leq i, j \leq 1$, $T_{i,j}$ is defined to be the unique solution in $\mathbb{F}_2[[x]]$ of the polynomial $\phi(T, i, j)$ under certain initial conditions; the polynomials $\phi(T, i, j)$ and initial conditions are given in Section 3. We will prove that these four matrices, whose components are algebraic by definition, are the limits of $(M_{2^n}(x))_n$, $(M_{2^{n+1}}(x))_n$, $(W_{2^n}(x))_n$, and $(W_{2^{n+1}}(x))_n$.

Let us explain how the polynomials $\phi(T, i, j)$ and initial conditions are found, and why the solutions exist and are unique. For $0 \leq i, j \leq 1$, the coefficients of the polynomial $\phi(M^e, i, j)$ (resp. $\phi(M^o, i, j)$, $\phi(W^e, i, j)$, and $\phi(W^o, i, j)$) are the Padé-Hermite approximants of type

$$(175, 175, 175, 175, 175)$$

of the vector

$$(1, T^3, T^6, T^9, T^{12}),$$

where $T = M_{12,i,j}$ (resp. $M_{11,i,j}$, $W_{12,i,j}$, and $W_{11,i,j}$), found by the Derksen algorithm. We take the first 8 terms of $M_{12,i,j}$ (resp. $M_{11,i,j}$, $W_{12,i,j}$, and $W_{11,i,j}$) as initial conditions for $\phi(M^e, i, j)$ (resp. $\phi(M^o, i, j)$, $\phi(W^e, i, j)$, and $\phi(W^o, i, j)$). The following fact will be used to ensure that the solution exists and is unique: let $P(x, y) \in \mathbb{F}_2[x, y]$ and for each series $f(x) = \sum_{n=0}^{\infty} a_n x^n \in \mathbb{F}_2[[x]]$ denote the partial sum $\sum_{j=0}^{n-1} a_j x^j$ by $f_n(x)$ for $n \geq 0$. If for some $n \geq 0$ and $a_0, a_1, \dots, a_{n-1} \in \mathbb{F}_2$ $P(x, \sum_{j=0}^{n-1} a_j x^j) = O(x^n)$ and $Q(x, y) := P(x, \sum_{j=0}^{n-1} a_j x^j + x^n y)$ can be written as $x^m \sum_{j=0}^{\infty} q_j(x) y^j$ where $q_j(x)$ are polynomials for $j \geq 0$, $q_1(0) = 1$, and $q_j(0) = 0$ for $j > 1$, then there exists a unique solution $f(x) \in \mathbb{F}_2[[x]]$ of $P(x, f(x)) = 0$ that satisfies the initial condition $f_n(x) = \sum_{j=0}^{n-1} a_j x^j$.

We state two lemmas concerning the four matrices M^e, M^o, W^e, W^o . The first one is about relations between them; the second, about the structure of the each matrix.

Lemma 2.1. *We have*

$$(2.3) \quad M^e = W^o \cdot M^o,$$

$$(2.4) \quad M^o = W^e \cdot M^e,$$

$$(2.5) \quad W^e = M^o \cdot W^o,$$

$$(2.6) \quad W^o = M^e \cdot W^e.$$

Proof. We give the proof of the identity

$$M_{0,0}^e = W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o,$$

the proofs of the others being similar.

First, we compute the minimal polynomials of $W_{0,0}^o M_{0,0}^o$ and $W_{0,1}^o M_{1,0}^o$. We know that

$$P(x, y) = \text{Res}_z (\phi(W^o, 0, 0)(x, z), z^{12} \cdot \phi(M^o, 0, 0)(x, y/z))$$

is an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We use Padé-Hermite approximation to find a candidate for the minimal polynomial of $W_{0,0}^o M_{0,0}^o$, that will be called $\phi_0(x, y)$. To prove that $\phi_0(x, y)$ is indeed the minimal polynomial, it suffices to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and that $Q(x, y) := P(x, y)/\phi_0(x, y)^m$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We verify the first point directly. For the second point, we truncate $W_{0,0}^o M_{0,0}^o$ to order 630 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 630, which proves that $Q(x, y)$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We find the minimal polynomial $\phi_1(x, y)$ of $W_{0,1}^o M_{1,0}^o$ in a similar way.

Now we prove that $\phi(M^e, 0, 0)$ is the minimal polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. We know that

$$S(x, y) = \text{Res}_z (\phi_0(x, z), \phi_1(x, y + z))$$

is an annihilating of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. We verify that $\phi(M^e, 0, 0)$ is an irreducible factor of $S(x, y)$ of multiplicity μ , and that $Q(x, y) := S(x, y)/\phi(M^e, 0, 0)^\mu$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. To see the last point, we truncate $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$ to order 770 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 770, and therefore $Q(x, y)$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$.

Finally, the first 16 terms of $M_{0,0}^e$ and $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$ coincide. As these first terms determine a unique solution of $\phi(M^e, 0, 0)$, we know that the two series are one and the same. $\square$

Define

$$R^e = \begin{pmatrix} 1 & 1 \\ 1 & 0 \end{pmatrix} \quad \text{and} \quad R^o = \begin{pmatrix} 0 & 1 \\ 1 & 1 \end{pmatrix}.$$

Lemma 2.2. *For all integers $k \geq 2$ and $u = 2^{2k-1}$, the following identities hold.*

$$\begin{aligned} M^e[:14u] &= M^e[:7u] + x^{4u} M^e[:3u] + x^{5u} M^e[:2u] + x^{4u} M^e[:7u] + x^{8u} M^e[:3u] \\ &\quad + x^{9u} M^e[:2u] + x^{5u} M^e[:7u] + x^{9u} M^e[:3u] + x^{10u} M^e[:2u] \\ &\quad + x^{9u} M^e[:5u] + x^{13u} M^e[:u] + x^{10u} M^e[:4u] + x^{12u} M^e[:2u] \\ &\quad + (x^{7u} + x^{11u} + x^{12u}) R^e, \\ W^e[:14u] &= W^e[:7u] + x^{4u} W^e[:3u] + x^{5u} W^e[:2u] + x^{4u} W^e[:7u] + x^{8u} W^e[:3u] \\ &\quad + x^{9u} W^e[:2u] + x^{5u} W^e[:7u] + x^{9u} W^e[:3u] + x^{10u} W^e[:2u] \end{aligned}$$

$$\begin{aligned}
& + x^{9u}W^e[:5u] + x^{13u}W^e[:u] + x^{10u}W^e[:4u] + x^{12u}W^e[:2u] \\
& + (x^{7u} + x^{11u} + x^{12u})R^e.
\end{aligned}$$

For all integers $k \geq 2$ and $u = 2^{2k}$, the following identities hold.

$$\begin{aligned}
M^o[:14u] &= M^o[:7u] + x^{4u}M^o[:3u] + x^{5u}M^o[:2u] + x^{4u}M^o[:7u] + x^{8u}M^o[:3u] \\
& + x^{9u}M^o[:2u] + x^{5u}M^o[:7u] + x^{9u}M^o[:3u] + x^{10u}M^o[:2u] \\
& + x^{9u}M^o[:5u] + x^{13u}M^o[:u] + x^{10u}M^o[:4u] + x^{12u}M^o[:2u] \\
& + (x^{7u} + x^{11u} + x^{12u})R^o, \\
W^o[:14u] &= W^o[:7u] + x^{4u}W^o[:3u] + x^{5u}W^o[:2u] + x^{4u}W^o[:7u] + x^{8u}W^o[:3u] \\
& + x^{9u}W^o[:2u] + x^{5u}W^o[:7u] + x^{9u}W^o[:3u] + x^{10u}W^o[:2u] \\
& + x^{9u}W^o[:5u] + x^{13u}W^o[:u] + x^{10u}W^o[:4u] + x^{12u}W^o[:2u] \\
& + (x^{7u} + x^{11u} + x^{12u})R^o.
\end{aligned}$$

Proof. To prove Lemma 2.2 we first construct an automaton for each sequence concerned, and then transform the conditions on infinitely many k 's into finitely many conditions on the states of the automaton. In the following, we will prove that for $T = M_{0,0}^o$, for all integer $k \geq 2$ and $u = 2^{2k}$,

$$\begin{aligned}
T[:14u] &= T[:7u] + x^{4u}T[:3u] + x^{5u}T[:2u] + x^{4u}T[:7u] + x^{8u}T[:3u] + x^{9u}T[:2u] \\
& + x^{5u}T[:7u] + x^{9u}T[:3u] + x^{10u}T[:2u] + x^{9u}T[:5u] + x^{13u}T[:u] \\
& + x^{10u}T[:4u] + x^{12u}T[:2u] + (x^{7u} + x^{11u} + x^{12u}).
\end{aligned}$$

The proof of the other 15 cases are similar. We break down the above identity into 7 parts:

$$\begin{aligned}
x^7u &= x^{5u}T[2u:3u] + x^{4u}T[3u:4u] + T[7u:8u], \\
0 &= x^{8u}T[:u] + x^{5u}T[3u:4u] + x^{4u}T[4u:5u] + T[8u:9u], \\
0 &= x^{9u}T[:u] + x^{8u}T[u:2u] + x^{5u}T[4u:5u] + x^{4u}T[5u:6u] \\
& + T[9u:10u], \\
0 &= x^{9u}T[u:2u] + x^{8u}T[2u:3u] + x^{5u}T[5u:6u] + x^{4u}T[6u:7u] \\
& + T[10u:11u], \\
x^11u &= x^{5u}T[6u:7u] + T[11u:12u], \\
x^12u &= x^{12u}T[:u] + x^{10u}T[2u:3u] + x^{9u}T[3u:4u] + T[12u:13u], \\
0 &= x^{13u}T[:u] + x^{12u}T[u:2u] + x^{10u}T[3u:4u] + x^{9u}T[4u:5u] \\
& + T[13u:14u],
\end{aligned}$$

which can be rewritten as

$$(2.7) \quad 0 = T[[10w]_2] + T[[11w]_2] + T[[111w]_2],$$

$$(2.8) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1000w]_2],$$

$$(2.9) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1001w]_2],$$

$$(2.10) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[101w]_2] + T[[110w]_2] + T[[1010w]_2],$$

$$(2.11) \quad 0 = T[[110w]_2] + T[[1011w]_2],$$

$$(2.12) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1100w]_2],$$

$$(2.13) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1101w]_2],$$

for all binary word w of length $2k$ and $w \neq 0^{2k}$, and

$$(2.14) \quad 1 = T[[10w]_2] + T[[11w]_2] + T[[111w]_2],$$

$$(2.15) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1000w]_2],$$

$$(2.16) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[101w]_2] + T[[110w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 1 = T[[110w]_2] + T[[1011w]_2],$$

$$(2.19) \quad 1 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1100w]_2],$$

$$(2.20) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1101w]_2],$$

for $w = 0^{2k}$.

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 6803 states; its transition function and output function can be found in the annex. Let $A(s, w)$ denote the state reached after reading w from right to left starting from the state s , and τ the output function. Define

$$E_{2k} = \{A(i, w) : |w| = 2k, w \neq 0^{2k}\}.$$

Identities (2.7) through (2.20) can be written as

$$(2.21) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 111)),$$

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1000)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

$$(2.23) \quad + \tau(A(s, 1001)),$$

$$0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 110))$$

$$(2.24) \quad + \tau(A(s, 1010)),$$

$$(2.25) \quad 0 = \tau(A(s, 110)) + \tau(A(s, 1011)),$$

$$(2.26) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1100)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

$$(2.27) \quad + \tau(A(s, 1101)),$$

for all $s \in E_{2k}$, and

$$(2.28) \quad 1 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 111)),$$

$$(2.29) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1000)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

$$(2.30) \quad + \tau(A(s, 1001)),$$

$$0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 110))$$

$$(2.31) \quad + \tau(A(s, 1010)),$$

$$(2.32) \quad 1 = \tau(A(s, 110)) + \tau(A(s, 1011)),$$

$$(2.33) \quad 1 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1100)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

$$(2.34) \quad + \tau(A(s, 1101)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{46}), E_{46}) = (A(i, 0^{18}), E_{18})$, so that we only have to verify that identities (2.21) through (2.34) hold for $2 \leq k \leq 23$, which turns out to be true. $\square$

In the following lemma, we express M_{2k} , M_{2k+1} , W_{2k} , and W_{2k+1} in terms of M^e , M^o , W^e , and W^o .

Lemma 2.3. *For all integer $k \geq 2$, and $u = 2^{2k-1}$,*

$$\begin{aligned} M_{2k} &= M^e[:7u] + x^{4u}M^e[:3u] + x^{5u}M^e[:2u] + x^{7u}R^e, \\ W_{2k} &= W^e[:7u] + x^{4u}W^e[:3u] + x^{5u}W^e[:2u] + x^{7u}R^e. \end{aligned}$$

For all integer $k \geq 2$, and $u = 2^{2k}$,

$$\begin{aligned} M_{2k+1} &= M^o[:7u] + x^{4u}M^o[:3u] + x^{5u}M^o[:2u] + x^{7u}R^o, \\ W_{2k+1} &= W^o[:7u] + x^{4u}W^o[:3u] + x^{5u}W^o[:2u] + x^{7u}R^o. \end{aligned}$$

Proof. We call the four identities in Lemma 2.3 also by the name M_{2k} , W_{2k} , M_{2k+1} , and W_{2k+1} . For $n = 2$, the identities can be verified directly. For $n \geq 2$, we claim that

$$\begin{aligned} M_{2k} \wedge W_{2k} &\Rightarrow M_{2k+1} \wedge W_{2k+1}, \\ M_{2k+1} \wedge W_{2k+1} &\Rightarrow M_{2k+2} \wedge W_{2k+2}. \end{aligned}$$

We give the proof of

$$M_{2k} \wedge W_{2k} \Rightarrow M_{2k+1},$$

the other ones being similar. Set $u = 2^{2k}$ and $v = 2^{2k-1}$. By definition and induction hypothesis, the left side of identity M_{2k+1} is equal to

$$\begin{aligned} (2.35) \quad W_{2k}M_{2k} &= (W^e[:7v] + x^{4v}W^e[:3v] + x^{5v}W^e[:2v] + x^{7v}R^e) \times (M^e[:7v] \\ &\quad + x^{4v}M^e[:3v] + x^{5v}M^e[:2v] + x^{7v}R^e); \end{aligned}$$

Call this expression *lhs*. Note that both sides of identity M_{2k+1} have the same term of highest degree $x^{14v}R^o$. Therefore we only need to prove that their difference is $O(x^{14v})$. Using Lemma 2.1 it can be seen that the right side of identity M_{2k+1} is congruent, modulo x^{14v} , to

$$W^e[:14v]M^e[:14v] + x^{8v}W^e[:6v]M^e[:6v] + x^{10v}W^e[:4v]M^e[:4v].$$

For all $n \leq 14$, replace the occurrences of $W^e[:n \cdot v]$ and $M^e[:n \cdot v]$ in the above expression by the reduction modulo $x^{n \cdot v}$ of the right side of the corresponding identity in Lemma 2.2 and get a new expression, which we call *rhs*. Define

$$\begin{aligned} X &:= x^v, \\ a_n &:= W^e[n \cdot v : (n+1) \cdot v] / X^n, \\ b_n &:= M^e[n \cdot v : (n+1) \cdot v] / X^n, \\ c &:= R^e. \end{aligned}$$

Using the notation introduced above, we can represent the expressions *lhs* (2.35) and *rhs* as polynomials in $\mathbb{F}_2[a_1, \dots, a_{14}, b_1, \dots, b_{14}, c][X]$. Note that it is not a problem that a_j commutes with b_k while W^e does not commute with M^e , because in the expressions concerned, the products of W^e -terms and M^e -terms are always in the

same order. We let the computer do the simplification and check that the difference between these two polynomials is indeed $O(X^{14})$, which completes the proof. $\square$

Proof of Theorem 1.1. We prove the theorem for $\text{CF}(a, b)$; for $\text{CF}(b, a)$, the proof is similar. By Lemma 2.3, we have For all $0 \leq j, k \leq 1$,

$$\begin{aligned}\lim_{n \rightarrow \infty} M_{2n, j, k} &= M_{j, k}^e, \\ \lim_{n \rightarrow \infty} M_{2n+1, j, k} &= M_{j, k}^o, \\ \lim_{n \rightarrow \infty} W_{2n, j, k} &= W_{j, k}^e, \\ \lim_{n \rightarrow \infty} W_{2n+1, j, k} &= W_{j, k}^o.\end{aligned}$$

Let $z = 1/x$. By the convergence theorem and identity (2.2),

$$\text{CF}(a, b) = \frac{M_{0,1}^e(x)}{M_{0,0}^e(x)}.$$

By definition, $\phi(M^e, 0, 1)$ and $\phi(M^e, 0, 0)$ are minimal polynomials of $M_{0,1}^e$ and $M_{0,0}^e$. Therefore

$$P(x, y) = \text{Res}_t (\phi(M^e, 0, 1)(x, t), y^{12} \phi(M^e, 0, 1)(x, t/y))$$

is an annihilating polynomial of $f(x) = M_{0,1}^e/M_{0,0}^e$.

Define

$$Q(x, y) = q_4(x)y^4 + q_3(x)y^3 + q_2(x)y^2 + q_1(x)y + q_0(x),$$

where

$$\begin{aligned}q_0(x) &= x^{24} + x^{22} + x^{19} + x^{17} + x^{14} + x^{12} + x^7 + x^4, \\ q_1(x) &= x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{11} + x^7 + x^6 + x^2 + x, \\ q_2(x) &= x^{24} + x^{20} + x^{14} + x^{12} + x^2 + 1, \\ q_3(x) &= x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{11} + x^7 + x^6 + x^2 + x, \\ q_4(x) &= x^{24} + x^{22} + x^{19} + x^{17} + x^7 + x^4 + x^2.\end{aligned}$$

The polynomial $Q(x, y)$ is the candidate for the minimal polynomial of $f(x)$ found by Padé-Hermite approximation. To prove that it is indeed the minimal polynomial of $f(x)$, we only need to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and $R(x, y) := P(x, y)/Q(x, y)^m$ is not an annihilating polynomial of $f(x)$. We verify the first point directly. For the second point, we find that when we truncate $f(x)$ to order 216, and substitute it for y in $R(z, y)$, we get a series with valuation smaller than 216, which proves that $R(z, y)$ is not an annihilating polynomial of $f(x)$. Finally, $z^{12}Q(1/z, y)$ is the minimal polynomial of $\text{CF}(a, b) = f(1/z)$. $\square$

3. ANNEXE

All 16 polynomials are of the form

$$p_0(x) + p_3(x)y^3 + p_6(x)y^6 + p_9(x)y^9 + p_{12}(x)y^{12}.$$

The coefficients $p_j(x)$ and the 16 initial terms to determine the solutions uniquely are given below.

For $\phi(M^e, 0, 0)$:

$$p_0(x) = x^{144} + x^{140} + x^{136} + x^{134} + x^{132} + x^{130} + x^{126} + x^{124} + x^{122} + x^{120}$$

$$\begin{aligned}
& + x^{116} + x^{114} + x^{112} + x^{106} + x^{104} + x^{100} + x^{96} + x^{92} + x^{90} + x^{84} \\
& + x^{82} + x^{80} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{54} + x^{52} + x^{50} + x^{46} \\
& + x^{36} + x^{32} + x^{30} + x^{24} + x^{22} + x^{20} + x^{16} + x^{12}, \\
p_3(x) &= x^{134} + x^{132} + x^{118} + x^{116} + x^{114} + x^{112} + x^{102} + x^{100} + x^{94} + x^{92} \\
& + x^{84} + x^{78} + x^{76} + x^{74} + x^{72} + x^{68} + x^{64} + x^{62} + x^{60} + x^{54} + x^{52} \\
& + x^{50} + x^{42} + x^{40} + x^{38} + x^{34} + x^{32} + x^{30} + x^{22} + x^{20} + x^{18} + x^8, \\
p_6(x) &= x^{140} + x^{136} + x^{134} + x^{128} + x^{122} + x^{112} + x^{106} + x^{102} + x^{96} + x^{94} \\
& + x^{88} + x^{86} + x^{84} + x^{80} + x^{74} + x^{72} + x^{70} + x^{66} + x^{64} + x^{58} + x^{42} \\
& + x^{40} + x^{38} + x^{32} + x^{28} + x^{14} + x^{12} + x^{10} + x^8 + x^6 + x^2 + 1, \\
p_9(x) &= x^{134} + x^{132} + x^{130} + x^{128} + x^{122} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} \\
& + x^{106} + x^{102} + x^{98} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{74} \\
& + x^{68} + x^{62} + x^{60} + x^{58} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} \\
& + x^{32} + x^{30} + x^{26} + x^{20} + x^{14} + x^{12} + x^{10} + x^2, \\
p_{12}(x) &= x^{144} + x^{136} + x^{128} + x^{120} + x^{104} + x^{96} + x^{88} + x^{80} + x^{48} + x^{40} + x^8 \\
& + 1,
\end{aligned}$$

and the initial terms are $[1, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0]$.

For $\phi(M^e, 0, 1)$:

$$\begin{aligned}
p_0(x) &= x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} \\
& + x^{107} + x^{106} + x^{105} + x^{104} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{89} \\
& + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{81} + x^{79} + x^{76} + x^{75} + x^{74} + x^{72} \\
& + x^{71} + x^{70} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} \\
& + x^{56} + x^{55} + x^{50} + x^{49} + x^{46} + x^{39} + x^{35} + x^{34} + x^{32} + x^{31} + x^{23} \\
& + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_3(x) &= x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{72} \\
& + x^{71} + x^{66} + x^{65} + x^{58} + x^{57} + x^{54} + x^{53} + x^{50} + x^{49} + x^{36} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{26} + x^{25} + x^{22} + x^{21} + x^{14} \\
& + x^{13} + x^{10} + x^9, \\
p_6(x) &= x^{99} + x^{97} + x^{94} + x^{92} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{78} \\
& + x^{76} + x^{75} + x^{70} + x^{69} + x^{67} + x^{64} + x^{62} + x^{59} + x^{57} + x^{55} + x^{54} \\
& + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{44} + x^{43} + x^{39} + x^{38} + x^{34} + x^{33} \\
& + x^{31} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6, \\
p_9(x) &= x^{114} + x^{113} + x^{110} + x^{109} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{75} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{61} + x^{56} + x^{55}
\end{aligned}$$

$$\begin{aligned}
& + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{38} + x^{37} + x^{34} + x^{33} + x^{32} \\
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{22} + x^{21} + x^{14} + x^{13} + x^{10} + x^9 \\
& + x^8 + x^7 + x^6 + x^5 + x^4 + x^3, \\
p_{12}(x) = & x^{129} + x^{124} + x^{121} + x^{116} + x^{113} + x^{109} + x^{108} + x^{105} + x^{104} + x^{101} \\
& + x^{100} + x^{96} + x^{93} + x^{88} + x^{85} + x^{80} + x^{33} + x^{28} + x^{25} + x^{20} + x^{13} \\
& + x^8 + x^5 + 1,
\end{aligned}$$

and the initial terms are $[0, 1, 1, 1, 1, 0, 0, 0, 1, 0, 1, 1, 1, 0, 0, 0]$.

For $\phi(M^e, 1, 0)$:

$$\begin{aligned}
p_0(x) = & x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} \\
& + x^{107} + x^{106} + x^{105} + x^{104} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{89} \\
& + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{81} + x^{79} + x^{76} + x^{75} + x^{74} + x^{72} \\
& + x^{71} + x^{70} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} \\
& + x^{56} + x^{55} + x^{50} + x^{49} + x^{46} + x^{39} + x^{35} + x^{34} + x^{32} + x^{31} + x^{23} \\
& + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_3(x) = & x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{72} \\
& + x^{71} + x^{66} + x^{65} + x^{58} + x^{57} + x^{54} + x^{53} + x^{50} + x^{49} + x^{36} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{26} + x^{25} + x^{22} + x^{21} + x^{14} \\
& + x^{13} + x^{10} + x^9, \\
p_6(x) = & x^{99} + x^{97} + x^{94} + x^{92} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{78} \\
& + x^{76} + x^{75} + x^{70} + x^{69} + x^{67} + x^{64} + x^{62} + x^{59} + x^{57} + x^{55} + x^{54} \\
& + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{44} + x^{43} + x^{39} + x^{38} + x^{34} + x^{33} \\
& + x^{31} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6, \\
p_9(x) = & x^{114} + x^{113} + x^{110} + x^{109} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{75} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{61} + x^{56} + x^{55} \\
& + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{38} + x^{37} + x^{34} + x^{33} + x^{32} \\
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{22} + x^{21} + x^{14} + x^{13} + x^{10} + x^9 \\
& + x^8 + x^7 + x^6 + x^5 + x^4 + x^3, \\
p_{12}(x) = & x^{129} + x^{124} + x^{121} + x^{116} + x^{113} + x^{109} + x^{108} + x^{105} + x^{104} + x^{101} \\
& + x^{100} + x^{96} + x^{93} + x^{88} + x^{85} + x^{80} + x^{33} + x^{28} + x^{25} + x^{20} + x^{13} \\
& + x^8 + x^5 + 1,
\end{aligned}$$

and the initial terms are $[0, 1, 1, 1, 1, 0, 0, 0, 1, 0, 1, 1, 1, 0, 0, 0]$.

For $\phi(M^e, 1, 1)$:

$$p_0(x) = x^{114} + x^{110} + x^{106} + x^{102} + x^{94} + x^{90} + x^{86} + x^{84} + x^{82} + x^{76} + x^{74}$$

$$\begin{aligned}
& + x^{70} + x^{66} + x^{62} + x^{46} + x^{44} + x^{42} + x^{36} + x^{34} + x^{30} + x^{24}, \\
p_3(x) &= x^{104} + x^{102} + x^{94} + x^{92} + x^{88} + x^{86} + x^{78} + x^{76} + x^{74} + x^{70} + x^{68} \\
& + x^{66} + x^{62} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{38} + x^{36} \\
& + x^{26} + x^{22} + x^{20} + x^{12} + x^{10} + x^6, \\
p_6(x) &= x^{110} + x^{106} + x^{104} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{82} + x^{80} \\
& + x^{78} + x^{76} + x^{74} + x^{64} + x^{62} + x^{60} + x^{58} + x^{54} + x^{48} + x^{46} + x^{44} \\
& + x^{38} + x^{28} + x^{26} + x^{20} + x^{18} + x^{16} + x^{10} + x^4 + x^2 + 1, \\
p_9(x) &= x^{104} + x^{102} + x^{100} + x^{98} + x^{94} + x^{90} + x^{88} + x^{86} + x^{84} + x^{80} + x^{78} \\
& + x^{74} + x^{70} + x^{66} + x^{64} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} \\
& + x^{38} + x^{32} + x^{26} + x^{24} + x^{22} + x^{14} + x^{10} + x^2, \\
p_{12}(x) &= x^{114} + x^{106} + x^{104} + x^{98} + x^{96} + x^{90} + x^{88} + x^{80} + x^{18} + x^{10} + x^8 + 1
\end{aligned}$$

and the initial terms are $[0, 0, 1, 0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 0, 1, 0]$.

For $\phi(W^e, 0, 0)$:

$$\begin{aligned}
p_0(x) &= x^{114} + x^{110} + x^{106} + x^{102} + x^{80} + x^{72} + x^{46} + x^{42} + x^{12}, \\
p_3(x) &= x^{104} + x^{102} + x^{94} + x^{92} + x^{88} + x^{86} + x^{84} + x^{82} + x^{78} + x^{76} + x^{74} \\
& + x^{70} + x^{64} + x^{58} + x^{56} + x^{52} + x^{50} + x^{44} + x^{38} + x^{34} + x^{28} + x^{22} \\
& + x^{20} + x^{16} + x^{14} + x^{12} + x^{10} + x^8, \\
p_6(x) &= x^{110} + x^{106} + x^{104} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{88} + x^{76} + x^{74} \\
& + x^{70} + x^{66} + x^{48} + x^{46} + x^{42} + x^{32} + x^{28} + x^{26} + x^{24} + x^{22} + x^{20} \\
& + x^{16} + x^{12} + x^{10} + x^6 + x^2 + 1, \\
p_9(x) &= x^{104} + x^{102} + x^{100} + x^{98} + x^{94} + x^{90} + x^{88} + x^{86} + x^{84} + x^{80} + x^{78} \\
& + x^{74} + x^{70} + x^{66} + x^{64} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} \\
& + x^{38} + x^{32} + x^{26} + x^{24} + x^{22} + x^{14} + x^{10} + x^2, \\
p_{12}(x) &= x^{114} + x^{106} + x^{104} + x^{98} + x^{96} + x^{90} + x^{88} + x^{80} + x^{18} + x^{10} + x^8 + 1
\end{aligned}$$

and the initial terms are $[1, 0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 0, 1, 0]$.

For $\phi(W^e, 0, 1)$:

$$\begin{aligned}
p_0(x) &= x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} \\
& + x^{107} + x^{106} + x^{105} + x^{104} + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{89} + x^{85} + x^{84} + x^{79} + x^{77} + x^{75} + x^{74} + x^{70} + x^{67} + x^{65} + x^{63} \\
& + x^{62} + x^{59} + x^{58} + x^{57} + x^{54} + x^{53} + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} \\
& + x^{44} + x^{42} + x^{41} + x^{39} + x^{34} + x^{32} + x^{27}, \\
p_3(x) &= x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{72} \\
& + x^{71} + x^{66} + x^{65} + x^{58} + x^{57} + x^{54} + x^{53} + x^{50} + x^{49} + x^{36} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{26} + x^{25} + x^{22} + x^{21} + x^{14}
\end{aligned}$$

$$\begin{aligned}
& + x^{13} + x^{10} + x^9, \\
p_6(x) &= x^{99} + x^{97} + x^{94} + x^{92} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{78} \\
& + x^{76} + x^{75} + x^{70} + x^{69} + x^{67} + x^{64} + x^{62} + x^{59} + x^{57} + x^{55} + x^{54} \\
& + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{44} + x^{43} + x^{39} + x^{38} + x^{34} + x^{33} \\
& + x^{31} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6, \\
p_9(x) &= x^{114} + x^{113} + x^{110} + x^{109} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{75} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{61} + x^{56} + x^{55} \\
& + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{38} + x^{37} + x^{34} + x^{33} + x^{32} \\
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{22} + x^{21} + x^{14} + x^{13} + x^{10} + x^9 \\
& + x^8 + x^7 + x^6 + x^5 + x^4 + x^3, \\
p_{12}(x) &= x^{129} + x^{124} + x^{121} + x^{116} + x^{113} + x^{109} + x^{108} + x^{105} + x^{104} + x^{101} \\
& + x^{100} + x^{96} + x^{93} + x^{88} + x^{85} + x^{80} + x^{33} + x^{28} + x^{25} + x^{20} + x^{13} \\
& + x^8 + x^5 + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 1, 1, 1, 0, 1]$.

For $\phi(W^e, 1, 0)$:

$$\begin{aligned}
p_0(x) &= x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} \\
& + x^{107} + x^{106} + x^{105} + x^{104} + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{89} + x^{85} + x^{84} + x^{79} + x^{77} + x^{75} + x^{74} + x^{70} + x^{67} + x^{65} + x^{63} \\
& + x^{62} + x^{59} + x^{58} + x^{57} + x^{54} + x^{53} + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} \\
& + x^{44} + x^{42} + x^{41} + x^{39} + x^{34} + x^{32} + x^{27}, \\
p_3(x) &= x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{72} \\
& + x^{71} + x^{66} + x^{65} + x^{58} + x^{57} + x^{54} + x^{53} + x^{50} + x^{49} + x^{36} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{26} + x^{25} + x^{22} + x^{21} + x^{14} \\
& + x^{13} + x^{10} + x^9, \\
p_6(x) &= x^{99} + x^{97} + x^{94} + x^{92} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{78} \\
& + x^{76} + x^{75} + x^{70} + x^{69} + x^{67} + x^{64} + x^{62} + x^{59} + x^{57} + x^{55} + x^{54} \\
& + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{44} + x^{43} + x^{39} + x^{38} + x^{34} + x^{33} \\
& + x^{31} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6, \\
p_9(x) &= x^{114} + x^{113} + x^{110} + x^{109} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{75} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{61} + x^{56} + x^{55} \\
& + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{38} + x^{37} + x^{34} + x^{33} + x^{32}
\end{aligned}$$

$$\begin{aligned}
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{22} + x^{21} + x^{14} + x^{13} + x^{10} + x^9 \\
& + x^8 + x^7 + x^6 + x^5 + x^4 + x^3, \\
p_{12}(x) = & x^{129} + x^{124} + x^{121} + x^{116} + x^{113} + x^{109} + x^{108} + x^{105} + x^{104} + x^{101} \\
& + x^{100} + x^{96} + x^{93} + x^{88} + x^{85} + x^{80} + x^{33} + x^{28} + x^{25} + x^{20} + x^{13} \\
& + x^8 + x^5 + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 1, 1, 1, 0, 1]$.

For $\phi(W^e, 1, 1)$:

$$\begin{aligned}
p_0(x) = & x^{144} + x^{140} + x^{136} + x^{134} + x^{132} + x^{130} + x^{126} + x^{122} + x^{114} + x^{106} \\
& + x^{94} + x^{86} + x^{84} + x^{80} + x^{70} + x^{66} + x^{56} + x^{52} + x^{42}, \\
p_3(x) = & x^{134} + x^{132} + x^{118} + x^{116} + x^{104} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} \\
& + x^{88} + x^{86} + x^{84} + x^{78} + x^{76} + x^{68} + x^{66} + x^{64} + x^{60} + x^{56} + x^{52} \\
& + x^{50} + x^{42} + x^{40} + x^{38} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24} + x^{22} + x^{20} \\
& + x^{14} + x^6, \\
p_6(x) = & x^{140} + x^{136} + x^{134} + x^{128} + x^{124} + x^{122} + x^{120} + x^{114} + x^{108} + x^{106} \\
& + x^{104} + x^{100} + x^{98} + x^{94} + x^{88} + x^{84} + x^{76} + x^{72} + x^{70} + x^{62} + x^{60} \\
& + x^{58} + x^{54} + x^{52} + x^{42} + x^{40} + x^{38} + x^{36} + x^{26} + x^{18} + x^{16} + x^{10} \\
& + x^8 + x^4 + x^2 + 1, \\
p_9(x) = & x^{134} + x^{132} + x^{130} + x^{128} + x^{122} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} \\
& + x^{106} + x^{102} + x^{98} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{74} \\
& + x^{68} + x^{62} + x^{60} + x^{58} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} \\
& + x^{32} + x^{30} + x^{26} + x^{20} + x^{14} + x^{12} + x^{10} + x^2, \\
p_{12}(x) = & x^{144} + x^{136} + x^{128} + x^{120} + x^{104} + x^{96} + x^{88} + x^{80} + x^{48} + x^{40} + x^8 \\
& + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0]$.

For $\phi(M^o, 0, 0)$:

$$\begin{aligned}
p_0(x) = & x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} \\
& + x^{112} + x^{111} + x^{110} + x^{109} + x^{106} + x^{102} + x^{101} + x^{97} + x^{95} + x^{92} \\
& + x^{91} + x^{90} + x^{87} + x^{85} + x^{81} + x^{80} + x^{77} + x^{76} + x^{74} + x^{72} + x^{69} \\
& + x^{67} + x^{65} + x^{63} + x^{61} + x^{57} + x^{56} + x^{51} + x^{48} + x^{47} + x^{46} + x^{42} \\
& + x^{41} + x^{39} + x^{35} + x^{33} + x^{31} + x^{29} + x^{27} + x^{24} + x^{22} + x^{21} + x^{18} \\
& + x^{17} + x^{16} + x^{14} + x^{12}, \\
p_3(x) = & x^{109} + x^{104} + x^{99} + x^{94} + x^{93} + x^{89} + x^{88} + x^{87} + x^{85} + x^{81} + x^{78} \\
& + x^{75} + x^{73} + x^{72} + x^{70} + x^{68} + x^{66} + x^{65} + x^{63} + x^{61} + x^{60} + x^{56} \\
& + x^{54} + x^{51} + x^{50} + x^{46} + x^{43} + x^{41} + x^{39} + x^{38} + x^{37} + x^{35} + x^{31} \\
& + x^{29} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{16} + x^{14} + x^{13}
\end{aligned}$$

$$\begin{aligned}
& + x^{10} + x^8, \\
p_6(x) &= x^{125} + x^{121} + x^{120} + x^{119} + x^{116} + x^{115} + x^{114} + x^{110} + x^{109} + x^{107} \\
& + x^{103} + x^{101} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} + x^{85} + x^{82} \\
& + x^{81} + x^{79} + x^{72} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{59} + x^{58} \\
& + x^{57} + x^{56} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{29} + x^{27} + x^{26} + x^{24} + x^{21} + x^{19} + x^{18} \\
& + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^6 + x^5 + x^4 + 1, \\
p_9(x) &= x^{109} + x^{105} + x^{104} + x^{100} + x^{93} + x^{89} + x^{88} + x^{84} + x^{13} + x^9 + x^8 \\
& + x^4, \\
p_{12}(x) &= x^{129} + x^{124} + x^{121} + x^{116} + x^{113} + x^{108} + x^{101} + x^{96} + x^{89} + x^{85} \\
& + x^{84} + x^{80} + x^{33} + x^{28} + x^{25} + x^{20} + x^9 + x^5 + x^4 + 1,
\end{aligned}$$

and the initial terms are $[1, 0, 1, 0, 1, 0, 1, 1, 0, 0, 0, 1, 0, 0, 0, 0]$.

For $\phi(M^o, 0, 1)$:

$$\begin{aligned}
p_0(x) &= x^{122} + x^{120} + x^{114} + x^{112} + x^{107} + x^{105} + x^{99} + x^{92} + x^{89} + x^{88} \\
& + x^{87} + x^{86} + x^{79} + x^{78} + x^{76} + x^{75} + x^{65} + x^{64} + x^{59} + x^{58} + x^{57} \\
& + x^{56} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{42} + x^{41} + x^{39} + x^{38} + x^{34} \\
& + x^{33} + x^{31} + x^{27} + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_3(x) &= x^{77} + x^{76} + x^{73} + x^{71} + x^{69} + x^{66} + x^{65} + x^{61} + x^{60} + x^{57} + x^{55} \\
& + x^{53} + x^{50} + x^{49} + x^{29} + x^{28} + x^{25} + x^{23} + x^{20} + x^{18} + x^{15} + x^{13} \\
& + x^{10} + x^9, \\
p_6(x) &= x^{92} + x^{82} + x^{76} + x^{68} + x^{66} + x^{64} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} \\
& + x^{46} + x^{44} + x^{36} + x^{34} + x^{26} + x^{20} + x^{16} + x^{10} + x^6, \\
p_9(x) &= x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{99} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{83} + x^{11} + x^{10} + x^9 + x^8 + x^6 + x^5 \\
& + x^4 + x^3, \\
p_{12}(x) &= x^{122} + x^{120} + x^{118} + x^{116} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} \\
& + x^{82} + x^{80} + x^{26} + x^{24} + x^{22} + x^{20} + x^2 + 1,
\end{aligned}$$

and the initial terms are $[0, 1, 1, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 1, 1, 1]$.

For $\phi(M^o, 1, 0)$:

$$\begin{aligned}
p_0(x) &= x^{144} + x^{140} + x^{136} + x^{132} + x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{119} \\
& + x^{116} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{105} + x^{104} + x^{102} \\
& + x^{100} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{85} + x^{84} + x^{82} + x^{79} \\
& + x^{77} + x^{75} + x^{72} + x^{70} + x^{67} + x^{65} + x^{63} + x^{62} + x^{57} + x^{54} + x^{53} \\
& + x^{51} + x^{50} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{36} + x^{33} + x^{31} + x^{29} \\
& + x^{27},
\end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{83} \\
&\quad + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{53} + x^{52} \\
&\quad + x^{48} + x^{47} + x^{43} + x^{42} + x^{38} + x^{37} + x^{33} + x^{32} + x^{28} + x^{27} + x^{23} \\
&\quad + x^{22} + x^{18} + x^{17} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{114} + x^{112} + x^{104} + x^{102} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{78} + x^{76} \\
&\quad + x^{74} + x^{72} + x^{68} + x^{62} + x^{58} + x^{52} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} \\
&\quad + x^{36} + x^{34} + x^{32} + x^{30} + x^{22} + x^{20} + x^{18} + x^{16} + x^{12} + x^{10} + x^8 \\
&\quad + x^6, \\
p_9(x) &= x^{129} + x^{128} + x^{125} + x^{123} + x^{120} + x^{119} + x^{113} + x^{112} + x^{108} + x^{107} \\
&\quad + x^{105} + x^{104} + x^{100} + x^{99} + x^{93} + x^{92} + x^{89} + x^{87} + x^{84} + x^{83} + x^{33} \\
&\quad + x^{32} + x^{29} + x^{27} + x^{24} + x^{23} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{144} + x^{136} + x^{128} + x^{124} + x^{108} + x^{104} + x^{100} + x^{96} + x^{84} + x^{80} \\
&\quad + x^{48} + x^{40} + x^{28} + x^{24} + x^4 + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 1, 0, 1, 0, 0, 0]$.

For $\phi(M^o, 1, 1)$:

$$\begin{aligned}
p_0(x) &= x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} \\
&\quad + x^{112} + x^{111} + x^{110} + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} + x^{99} + x^{97} \\
&\quad + x^{96} + x^{95} + x^{94} + x^{92} + x^{90} + x^{86} + x^{85} + x^{82} + x^{80} + x^{77} + x^{75} \\
&\quad + x^{74} + x^{72} + x^{71} + x^{70} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{59} + x^{56} \\
&\quad + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{46} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} \\
&\quad + x^{36} + x^{33}, \\
p_3(x) &= x^{109} + x^{104} + x^{99} + x^{94} + x^{93} + x^{88} + x^{87} + x^{85} + x^{84} + x^{81} + x^{79} \\
&\quad + x^{78} + x^{77} + x^{74} + x^{73} + x^{71} + x^{69} + x^{68} + x^{65} + x^{64} + x^{60} + x^{59} \\
&\quad + x^{58} + x^{57} + x^{55} + x^{53} + x^{52} + x^{51} + x^{48} + x^{46} + x^{43} + x^{39} + x^{38} \\
&\quad + x^{37} + x^{36} + x^{35} + x^{33} + x^{28} + x^{27} + x^{26} + x^{23} + x^{21} + x^{19} + x^{18} \\
&\quad + x^{17} + x^{16} + x^{15} + x^{12}, \\
p_6(x) &= x^{125} + x^{121} + x^{120} + x^{119} + x^{116} + x^{115} + x^{114} + x^{110} + x^{107} + x^{105} \\
&\quad + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{89} \\
&\quad + x^{87} + x^{85} + x^{84} + x^{83} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} \\
&\quad + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{55} + x^{53} + x^{52} \\
&\quad + x^{46} + x^{41} + x^{39} + x^{38} + x^{36} + x^{35} + x^{33} + x^{32} + x^{29} + x^{25} + x^{24} \\
&\quad + x^{23} + x^{22} + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{12} + x^{11} + x^5 + 1, \\
p_9(x) &= x^{109} + x^{105} + x^{104} + x^{100} + x^{93} + x^{89} + x^{88} + x^{84} + x^{13} + x^9 + x^8 \\
&\quad + x^4,
\end{aligned}$$

$$p_{12}(x) = x^{129} + x^{124} + x^{121} + x^{116} + x^{113} + x^{108} + x^{101} + x^{96} + x^{89} + x^{85} \\ + x^{84} + x^{80} + x^{33} + x^{28} + x^{25} + x^{20} + x^9 + x^5 + x^4 + 1,$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 1, 0, 1, 0]$.

For $\phi(W^o, 0, 0)$:

$$p_0(x) = x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} \\ + x^{112} + x^{111} + x^{110} + x^{109} + x^{106} + x^{102} + x^{101} + x^{97} + x^{95} + x^{92} \\ + x^{91} + x^{90} + x^{87} + x^{85} + x^{81} + x^{80} + x^{77} + x^{76} + x^{74} + x^{72} + x^{69} \\ + x^{67} + x^{65} + x^{63} + x^{61} + x^{57} + x^{56} + x^{51} + x^{48} + x^{47} + x^{46} + x^{42} \\ + x^{41} + x^{39} + x^{35} + x^{33} + x^{31} + x^{29} + x^{27} + x^{24} + x^{22} + x^{21} + x^{18} \\ + x^{17} + x^{16} + x^{14} + x^{12}, \\ p_3(x) = x^{109} + x^{104} + x^{99} + x^{94} + x^{93} + x^{89} + x^{88} + x^{87} + x^{85} + x^{81} + x^{78} \\ + x^{75} + x^{73} + x^{72} + x^{70} + x^{68} + x^{66} + x^{65} + x^{63} + x^{61} + x^{60} + x^{56} \\ + x^{54} + x^{51} + x^{50} + x^{46} + x^{43} + x^{41} + x^{39} + x^{38} + x^{37} + x^{35} + x^{31} \\ + x^{29} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{16} + x^{14} + x^{13} \\ + x^{10} + x^8, \\ p_6(x) = x^{125} + x^{121} + x^{120} + x^{119} + x^{116} + x^{115} + x^{114} + x^{110} + x^{109} + x^{107} \\ + x^{103} + x^{101} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} + x^{85} + x^{82} \\ + x^{81} + x^{79} + x^{72} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{59} + x^{58} \\ + x^{57} + x^{56} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{35} \\ + x^{34} + x^{33} + x^{32} + x^{31} + x^{29} + x^{27} + x^{26} + x^{24} + x^{21} + x^{19} + x^{18} \\ + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^6 + x^5 + x^4 + 1, \\ p_9(x) = x^{109} + x^{105} + x^{104} + x^{100} + x^{93} + x^{89} + x^{88} + x^{84} + x^{13} + x^9 + x^8 \\ + x^4, \\ p_{12}(x) = x^{129} + x^{124} + x^{121} + x^{116} + x^{113} + x^{108} + x^{101} + x^{96} + x^{89} + x^{85} \\ + x^{84} + x^{80} + x^{33} + x^{28} + x^{25} + x^{20} + x^9 + x^5 + x^4 + 1,$$

and the initial terms are $[1, 0, 1, 0, 1, 0, 1, 1, 0, 0, 0, 1, 0, 0, 0, 0]$.

For $\phi(W^o, 0, 1)$:

$$p_0(x) = x^{144} + x^{140} + x^{136} + x^{132} + x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{119} \\ + x^{116} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{105} + x^{104} + x^{102} \\ + x^{100} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{85} + x^{84} + x^{82} + x^{79} \\ + x^{77} + x^{75} + x^{72} + x^{70} + x^{67} + x^{65} + x^{63} + x^{62} + x^{57} + x^{54} + x^{53} \\ + x^{51} + x^{50} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{36} + x^{33} + x^{31} + x^{29} \\ + x^{27}, \\ p_3(x) = x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{83} \\ + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70}$$

$$\begin{aligned}
& + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{53} + x^{52} \\
& + x^{48} + x^{47} + x^{43} + x^{42} + x^{38} + x^{37} + x^{33} + x^{32} + x^{28} + x^{27} + x^{23} \\
& + x^{22} + x^{18} + x^{17} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{114} + x^{112} + x^{104} + x^{102} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{78} + x^{76} \\
& + x^{74} + x^{72} + x^{68} + x^{62} + x^{58} + x^{52} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} \\
& + x^{36} + x^{34} + x^{32} + x^{30} + x^{22} + x^{20} + x^{18} + x^{16} + x^{12} + x^{10} + x^8 \\
& + x^6, \\
p_9(x) &= x^{129} + x^{128} + x^{125} + x^{123} + x^{120} + x^{119} + x^{113} + x^{112} + x^{108} + x^{107} \\
& + x^{105} + x^{104} + x^{100} + x^{99} + x^{93} + x^{92} + x^{89} + x^{87} + x^{84} + x^{83} + x^{33} \\
& + x^{32} + x^{29} + x^{27} + x^{24} + x^{23} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{144} + x^{136} + x^{128} + x^{124} + x^{108} + x^{104} + x^{100} + x^{96} + x^{84} + x^{80} \\
& + x^{48} + x^{40} + x^{28} + x^{24} + x^4 + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 1, 0, 1, 0, 0, 0]$.

For $\phi(W^o, 1, 0)$:

$$\begin{aligned}
p_0(x) &= x^{122} + x^{120} + x^{114} + x^{112} + x^{107} + x^{105} + x^{99} + x^{92} + x^{89} + x^{88} \\
& + x^{87} + x^{86} + x^{79} + x^{78} + x^{76} + x^{75} + x^{65} + x^{64} + x^{59} + x^{58} + x^{57} \\
& + x^{56} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{42} + x^{41} + x^{39} + x^{38} + x^{34} \\
& + x^{33} + x^{31} + x^{27} + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_3(x) &= x^{77} + x^{76} + x^{73} + x^{71} + x^{69} + x^{66} + x^{65} + x^{61} + x^{60} + x^{57} + x^{55} \\
& + x^{53} + x^{50} + x^{49} + x^{29} + x^{28} + x^{25} + x^{23} + x^{20} + x^{18} + x^{15} + x^{13} \\
& + x^{10} + x^9, \\
p_6(x) &= x^{92} + x^{82} + x^{76} + x^{68} + x^{66} + x^{64} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} \\
& + x^{46} + x^{44} + x^{36} + x^{34} + x^{26} + x^{20} + x^{16} + x^{10} + x^6, \\
p_9(x) &= x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{99} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{83} + x^{11} + x^{10} + x^9 + x^8 + x^6 + x^5 \\
& + x^4 + x^3, \\
p_{12}(x) &= x^{122} + x^{120} + x^{118} + x^{116} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} \\
& + x^{82} + x^{80} + x^{26} + x^{24} + x^{22} + x^{20} + x^2 + 1,
\end{aligned}$$

and the initial terms are $[0, 1, 1, 0, 0, 1, 1, 0, 0, 0, 0, 0, 1, 1, 1]$.

For $\phi(W^o, 1, 1)$:

$$\begin{aligned}
p_0(x) &= x^{129} + x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} \\
& + x^{112} + x^{111} + x^{110} + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} + x^{99} + x^{97} \\
& + x^{96} + x^{95} + x^{94} + x^{92} + x^{90} + x^{86} + x^{85} + x^{82} + x^{80} + x^{77} + x^{75} \\
& + x^{74} + x^{72} + x^{71} + x^{70} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{59} + x^{56} \\
& + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{46} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39}
\end{aligned}$$

$$\begin{aligned}
& + x^{36} + x^{33}, \\
p_3(x) &= x^{109} + x^{104} + x^{99} + x^{94} + x^{93} + x^{88} + x^{87} + x^{85} + x^{84} + x^{81} + x^{79} \\
& + x^{78} + x^{77} + x^{74} + x^{73} + x^{71} + x^{69} + x^{68} + x^{65} + x^{64} + x^{60} + x^{59} \\
& + x^{58} + x^{57} + x^{55} + x^{53} + x^{52} + x^{51} + x^{48} + x^{46} + x^{43} + x^{39} + x^{38} \\
& + x^{37} + x^{36} + x^{35} + x^{33} + x^{28} + x^{27} + x^{26} + x^{23} + x^{21} + x^{19} + x^{18} \\
& + x^{17} + x^{16} + x^{15} + x^{12}, \\
p_6(x) &= x^{125} + x^{121} + x^{120} + x^{119} + x^{116} + x^{115} + x^{114} + x^{110} + x^{107} + x^{105} \\
& + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{89} \\
& + x^{87} + x^{85} + x^{84} + x^{83} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} \\
& + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{55} + x^{53} + x^{52} \\
& + x^{46} + x^{41} + x^{39} + x^{38} + x^{36} + x^{35} + x^{33} + x^{32} + x^{29} + x^{25} + x^{24} \\
& + x^{23} + x^{22} + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{12} + x^{11} + x^5 + 1, \\
p_9(x) &= x^{109} + x^{105} + x^{104} + x^{100} + x^{93} + x^{89} + x^{88} + x^{84} + x^{13} + x^9 + x^8 \\
& + x^4, \\
p_{12}(x) &= x^{129} + x^{124} + x^{121} + x^{116} + x^{113} + x^{108} + x^{101} + x^{96} + x^{89} + x^{85} \\
& + x^{84} + x^{80} + x^{33} + x^{28} + x^{25} + x^{20} + x^9 + x^5 + x^4 + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 1, 0, 1, 0]$.

Below is the transition function and output function of an 2-automaton that generates $T = M_{0,0}^o$:

Transition function $(n, j) \mapsto \delta(n, j)$ ($\Lambda(n) := [\delta(n, 0), \delta(n, 1)]$):

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	1701	[2709, 2710]	3402	[4768, 4769]	5103	[5807, 3655]
1	[3, 4]	1702	[1376, 2711]	3403	[4770, 4771]	5104	[6146, 994]
2	[5, 6]	1703	[1378, 2712]	3404	[4772, 2268]	5105	[6045, 6147]
3	[7, 8]	1704	[2713, 2714]	3405	[658, 4773]	5106	[1034, 6148]
4	[9, 10]	1705	[2715, 2716]	3406	[2016, 4774]	5107	[6149, 5903]
5	[11, 12]	1706	[2717, 2718]	3407	[4775, 2100]	5108	[6150, 5929]
6	[13, 14]	1707	[2719, 2720]	3408	[4532, 4464]	5109	[399, 97]
7	[15, 16]	1708	[2721, 1406]	3409	[238, 4776]	5110	[366, 6151]
8	[17, 18]	1709	[1255, 2722]	3410	[4777, 4397]	5111	[1054, 3670]
9	[19, 20]	1710	[2723, 2724]	3411	[2339, 4485]	5112	[6152, 5598]
10	[21, 22]	1711	[2725, 1340]	3412	[4778, 4179]	5113	[1284, 1495]
11	[23, 24]	1712	[2726, 2727]	3413	[4358, 4779]	5114	[6153, 3932]
12	[25, 26]	1713	[2728, 2729]	3414	[2066, 4780]	5115	[5793, 3870]
13	[27, 28]	1714	[2730, 2731]	3415	[4781, 4782]	5116	[6154, 6155]
14	[29, 30]	1715	[467, 2732]	3416	[1815, 4525]	5117	[407, 4004]
15	[31, 32]	1716	[2733, 2734]	3417	[4599, 893]	5118	[5302, 480]
16	[33, 34]	1717	[2735, 2736]	3418	[4783, 4235]	5119	[6156, 2708]
17	[35, 36]	1718	[2737, 1404]	3419	[4212, 4445]	5120	[1312, 6157]

18	[37, 38]	1719	[2738, 2739]	3420	[4237, 4784]	5121	[3109, 5708]
19	[39, 40]	1720	[2740, 105]	3421	[4785, 4786]	5122	[6158, 1431]
20	[41, 42]	1721	[2741, 2742]	3422	[4745, 4787]	5123	[6159, 6160]
21	[43, 44]	1722	[2743, 2744]	3423	[4671, 1860]	5124	[6161, 2741]
22	[45, 46]	1723	[2745, 2746]	3424	[4788, 4789]	5125	[5317, 3148]
23	[47, 48]	1724	[2747, 1685]	3425	[4568, 2168]	5126	[6117, 6162]
24	[49, 50]	1725	[2748, 2749]	3426	[4790, 2537]	5127	[5296, 6163]
25	[51, 52]	1726	[2750, 2751]	3427	[4791, 4622]	5128	[6164, 3674]
26	[53, 54]	1727	[2752, 2753]	3428	[2158, 4792]	5129	[6165, 3675]
27	[55, 56]	1728	[2754, 2755]	3429	[769, 626]	5130	[5432, 6166]
28	[57, 58]	1729	[2756, 2757]	3430	[1966, 2417]	5131	[6167, 6168]
29	[59, 60]	1730	[2758, 2759]	3431	[2474, 160]	5132	[6169, 6170]
30	[61, 62]	1731	[2760, 2761]	3432	[4778, 4793]	5133	[3022, 6171]
31	[63, 64]	1732	[2762, 2763]	3433	[4794, 4369]	5134	[6172, 6173]
32	[65, 66]	1733	[2764, 2765]	3434	[1930, 4758]	5135	[997, 6174]
33	[67, 68]	1734	[2766, 2767]	3435	[4795, 1940]	5136	[5492, 6175]
34	[69, 70]	1735	[2768, 2769]	3436	[1942, 4762]	5137	[2865, 2925]
35	[71, 72]	1736	[2770, 1331]	3437	[4796, 4797]	5138	[6176, 6065]
36	[73, 74]	1737	[2771, 2772]	3438	[4798, 4799]	5139	[3794, 3800]
37	[75, 76]	1738	[2773, 2774]	3439	[4673, 1960]	5140	[6177, 3648]
38	[77, 78]	1739	[2775, 2776]	3440	[2592, 4800]	5141	[5261, 3256]
39	[79, 80]	1740	[2777, 2778]	3441	[4760, 883]	5142	[5283, 6178]
40	[81, 82]	1741	[2779, 2780]	3442	[4801, 543]	5143	[6179, 1402]
41	[83, 84]	1742	[2781, 2782]	3443	[4541, 2335]	5144	[6180, 5414]
42	[85, 86]	1743	[1620, 2783]	3444	[4708, 2435]	5145	[6181, 6182]
43	[87, 88]	1744	[2784, 2785]	3445	[4347, 4306]	5146	[6047, 6183]
44	[89, 90]	1745	[2786, 2787]	3446	[2479, 2103]	5147	[4056, 6184]
45	[91, 92]	1746	[2788, 2789]	3447	[650, 4802]	5148	[6185, 6186]
46	[93, 94]	1747	[1559, 2790]	3448	[751, 4410]	5149	[5816, 65]
47	[95, 96]	1748	[2791, 2792]	3449	[4803, 4265]	5150	[6187, 6188]
48	[97, 98]	1749	[2793, 2794]	3450	[2528, 2579]	5151	[6189, 4049]
49	[99, 100]	1750	[1595, 1410]	3451	[4250, 4804]	5152	[120, 929]
50	[101, 102]	1751	[2795, 1651]	3452	[2059, 4805]	5153	[6190, 6191]
51	[103, 104]	1752	[2796, 975]	3453	[4806, 4204]	5154	[6192, 5824]
52	[105, 106]	1753	[2797, 2798]	3454	[4807, 4808]	5155	[3365, 1568]
53	[107, 108]	1754	[990, 2799]	3455	[4608, 1903]	5156	[6193, 5403]
54	[109, 110]	1755	[2800, 2801]	3456	[649, 1937]	5157	[4129, 3002]
55	[111, 112]	1756	[2802, 2803]	3457	[4304, 2330]	5158	[6194, 6195]
56	[113, 114]	1757	[2722, 2804]	3458	[156, 4809]	5159	[6196, 1560]
57	[115, 116]	1758	[2805, 2806]	3459	[4810, 4309]	5160	[3756, 5537]
58	[117, 118]	1759	[2807, 2808]	3460	[163, 4811]	5161	[4085, 400]
59	[119, 120]	1760	[2769, 2809]	3461	[4812, 4813]	5162	[6197, 5512]
60	[121, 122]	1761	[1324, 2810]	3462	[2597, 1985]	5163	[3349, 6198]
61	[123, 124]	1762	[2811, 2812]	3463	[752, 2697]	5164	[481, 6193]

62	[125, 126]	1763	[2813, 1161]	3464	[2046, 55]	5165	[5689, 6199]
63	[127, 128]	1764	[2814, 2815]	3465	[4814, 1914]	5166	[438, 6200]
64	[129, 130]	1765	[2816, 2817]	3466	[2625, 4815]	5167	[6201, 6202]
65	[131, 132]	1766	[2818, 2819]	3467	[1931, 4816]	5168	[6178, 5919]
66	[133, 134]	1767	[2820, 2821]	3468	[2063, 2005]	5169	[6144, 6203]
67	[135, 136]	1768	[2822, 2823]	3469	[4817, 4751]	5170	[4151, 6204]
68	[137, 138]	1769	[1565, 2824]	3470	[4818, 4819]	5171	[3627, 6205]
69	[139, 140]	1770	[2825, 2826]	3471	[4820, 4769]	5172	[1088, 6206]
70	[141, 142]	1771	[2827, 2828]	3472	[1835, 1838]	5173	[6207, 3568]
71	[143, 144]	1772	[2829, 2830]	3473	[1830, 4393]	5174	[6155, 451]
72	[145, 146]	1773	[2831, 2832]	3474	[4393, 1834]	5175	[3569, 4110]
73	[147, 148]	1774	[2833, 2834]	3475	[4353, 1841]	5176	[5458, 3726]
74	[149, 150]	1775	[2835, 2836]	3476	[151, 885]	5177	[5224, 6208]
75	[151, 152]	1776	[2790, 2837]	3477	[2415, 696]	5178	[3207, 6209]
76	[153, 154]	1777	[2838, 2839]	3478	[2222, 1977]	5179	[6210, 2872]
77	[155, 156]	1778	[2840, 2841]	3479	[644, 4821]	5180	[6211, 6212]
78	[157, 158]	1779	[2842, 2843]	3480	[4822, 4823]	5181	[2736, 5321]
79	[159, 160]	1780	[1521, 2844]	3481	[1921, 4824]	5182	[6213, 6214]
80	[161, 162]	1781	[351, 2845]	3482	[4340, 2475]	5183	[6106, 6215]
81	[163, 164]	1782	[2846, 2847]	3483	[4679, 4825]	5184	[3448, 6216]
82	[165, 166]	1783	[2848, 2849]	3484	[2105, 4826]	5185	[6217, 6180]
83	[167, 168]	1784	[2850, 2851]	3485	[2546, 4446]	5186	[6218, 6219]
84	[169, 170]	1785	[1586, 973]	3486	[237, 2508]	5187	[6220, 3184]
85	[171, 172]	1786	[1131, 2852]	3487	[2620, 4827]	5188	[6221, 3173]
86	[173, 174]	1787	[2853, 2854]	3488	[4828, 4829]	5189	[5660, 3646]
87	[175, 176]	1788	[2855, 2856]	3489	[667, 562]	5190	[3306, 3556]
88	[177, 178]	1789	[2857, 2858]	3490	[898, 4830]	5191	[3282, 3134]
89	[38, 179]	1790	[2859, 2860]	3491	[4831, 2520]	5192	[2767, 6161]
90	[180, 181]	1791	[2861, 17]	3492	[2275, 2143]	5193	[6016, 6081]
91	[182, 183]	1792	[1358, 2862]	3493	[4438, 2678]	5194	[4125, 5739]
92	[184, 185]	1793	[1608, 2863]	3494	[4832, 2035]	5195	[5564, 3042]
93	[186, 187]	1794	[2864, 2865]	3495	[892, 4833]	5196	[6222, 6223]
94	[188, 189]	1795	[2866, 1008]	3496	[4834, 2674]	5197	[1141, 6135]
95	[190, 191]	1796	[2867, 2868]	3497	[4835, 730]	5198	[2716, 6224]
96	[192, 193]	1797	[2869, 2870]	3498	[565, 2587]	5199	[6225, 6226]
97	[194, 195]	1798	[387, 2871]	3499	[4326, 779]	5200	[6227, 6228]
98	[196, 197]	1799	[2872, 2873]	3500	[4653, 4836]	5201	[6229, 6230]
99	[198, 199]	1800	[2874, 1000]	3501	[1869, 2136]	5202	[4012, 6231]
100	[200, 201]	1801	[2875, 2876]	3502	[4837, 1718]	5203	[3039, 491]
101	[202, 203]	1802	[2877, 1145]	3503	[2147, 2161]	5204	[3602, 1596]
102	[204, 205]	1803	[2878, 2879]	3504	[4838, 4501]	5205	[6120, 3268]
103	[206, 207]	1804	[2880, 2881]	3505	[4839, 2156]	5206	[2858, 6153]
104	[208, 209]	1805	[2882, 2883]	3506	[4840, 4623]	5207	[936, 6232]
105	[210, 211]	1806	[2884, 2885]	3507	[894, 4841]	5208	[5706, 6233]

106	[212, 158]	1807	[2886, 2887]	3508	[2117, 4686]	5209	[6234, 5865]
107	[213, 214]	1808	[1121, 2888]	3509	[504, 2607]	5210	[6235, 6236]
108	[215, 216]	1809	[2889, 2890]	3510	[1812, 4477]	5211	[6237, 5370]
109	[217, 218]	1810	[2891, 2892]	3511	[2439, 541]	5212	[3890, 6238]
110	[219, 220]	1811	[2893, 2894]	3512	[4842, 2145]	5213	[5516, 6239]
111	[221, 222]	1812	[2895, 2896]	3513	[1752, 4797]	5214	[4104, 6240]
112	[223, 224]	1813	[2897, 2898]	3514	[4843, 1857]	5215	[988, 279]
113	[225, 226]	1814	[2899, 2900]	3515	[4844, 2160]	5216	[3805, 6241]
114	[227, 168]	1815	[2901, 1418]	3516	[4688, 766]	5217	[6101, 6242]
115	[228, 229]	1816	[2902, 2899]	3517	[4695, 4545]	5218	[6243, 2071]
116	[230, 231]	1817	[2903, 2901]	3518	[4845, 1736]	5219	[2653, 6244]
117	[232, 233]	1818	[2904, 1467]	3519	[1973, 4846]	5220	[2375, 2148]
118	[234, 235]	1819	[2905, 2906]	3520	[4847, 2261]	5221	[5210, 4210]
119	[167, 236]	1820	[970, 1503]	3521	[4848, 2600]	5222	[6245, 4723]
120	[237, 238]	1821	[2907, 2908]	3522	[4849, 1809]	5223	[4747, 1773]
121	[239, 240]	1822	[2909, 2910]	3523	[4850, 4301]	5224	[5161, 6246]
122	[241, 242]	1823	[2911, 2912]	3524	[4851, 4852]	5225	[5050, 6247]
123	[243, 244]	1824	[2913, 2748]	3525	[507, 4309]	5226	[6248, 2602]
124	[245, 246]	1825	[2914, 1014]	3526	[188, 2567]	5227	[6249, 4206]
125	[247, 248]	1826	[1005, 2874]	3527	[4650, 567]	5228	[520, 5165]
126	[249, 250]	1827	[2915, 2916]	3528	[2385, 2115]	5229	[581, 1820]
127	[251, 252]	1828	[2917, 2864]	3529	[4853, 700]	5230	[4668, 1701]
128	[253, 254]	1829	[2918, 2919]	3530	[2415, 2064]	5231	[4835, 2569]
129	[255, 256]	1830	[2920, 2921]	3531	[554, 4854]	5232	[5031, 48]
130	[257, 258]	1831	[272, 2922]	3532	[2679, 4614]	5233	[2571, 139]
131	[259, 260]	1832	[2923, 2924]	3533	[4855, 2227]	5234	[6250, 558]
132	[261, 262]	1833	[2925, 1004]	3534	[2588, 4856]	5235	[2577, 6251]
133	[263, 264]	1834	[2921, 2926]	3535	[4806, 4812]	5236	[1786, 5032]
134	[265, 266]	1835	[2927, 2928]	3536	[2410, 4857]	5237	[2034, 4649]
135	[267, 268]	1836	[1011, 2929]	3537	[4858, 854]	5238	[2487, 5005]
136	[269, 270]	1837	[2930, 2866]	3538	[1842, 2647]	5239	[6252, 2182]
137	[271, 272]	1838	[2931, 2932]	3539	[2320, 2117]	5240	[4436, 4627]
138	[273, 274]	1839	[2933, 2934]	3540	[4454, 1887]	5241	[5023, 6253]
139	[275, 276]	1840	[2935, 2936]	3541	[757, 2320]	5242	[6254, 5151]
140	[277, 278]	1841	[2932, 2917]	3542	[4859, 4660]	5243	[5152, 2195]
141	[279, 280]	1842	[2937, 1334]	3543	[572, 1845]	5244	[195, 5052]
142	[281, 282]	1843	[341, 2938]	3544	[4546, 4860]	5245	[6248, 6255]
143	[283, 284]	1844	[2939, 2940]	3545	[4861, 4862]	5246	[6256, 6257]
144	[66, 285]	1845	[2941, 2942]	3546	[4863, 4314]	5247	[2457, 5157]
145	[286, 287]	1846	[1655, 2943]	3547	[4864, 4865]	5248	[4657, 4619]
146	[288, 289]	1847	[2944, 2945]	3548	[4817, 4267]	5249	[4557, 4483]
147	[290, 291]	1848	[2946, 2947]	3549	[4866, 4350]	5250	[5212, 6258]
148	[292, 293]	1849	[1264, 2948]	3550	[4867, 631]	5251	[5008, 4749]
149	[294, 295]	1850	[2949, 2950]	3551	[4868, 4869]	5252	[4356, 4701]

150	[296, 297]	1851	[2951, 2952]	3552	[4870, 4577]	5253	[4889, 4705]
151	[298, 299]	1852	[2953, 2954]	3553	[4658, 4295]	5254	[2437, 5132]
152	[300, 301]	1853	[2955, 2802]	3554	[4871, 555]	5255	[2444, 5148]
153	[302, 303]	1854	[2956, 1484]	3555	[4872, 4873]	5256	[6259, 6260]
154	[304, 305]	1855	[2957, 2958]	3556	[1816, 2172]	5257	[4220, 4910]
155	[306, 307]	1856	[2959, 2960]	3557	[4874, 764]	5258	[5129, 2153]
156	[308, 309]	1857	[2961, 2962]	3558	[4875, 1754]	5259	[5066, 1805]
157	[310, 311]	1858	[2963, 2964]	3559	[4876, 4877]	5260	[2182, 4311]
158	[312, 313]	1859	[2965, 2966]	3560	[4878, 774]	5261	[1703, 4255]
159	[314, 315]	1860	[2967, 2968]	3561	[4879, 1802]	5262	[2112, 4491]
160	[316, 317]	1861	[252, 2969]	3562	[4197, 4789]	5263	[4560, 5175]
161	[318, 319]	1862	[2970, 1558]	3563	[4880, 4465]	5264	[4531, 6261]
162	[320, 321]	1863	[2971, 2972]	3564	[2560, 2453]	5265	[4843, 4441]
163	[322, 323]	1864	[2973, 2857]	3565	[132, 4881]	5266	[4821, 6262]
164	[324, 325]	1865	[2974, 2975]	3566	[2183, 1876]	5267	[5168, 6263]
165	[326, 327]	1866	[2976, 2977]	3567	[1772, 4748]	5268	[4685, 2329]
166	[328, 329]	1867	[2978, 1124]	3568	[4531, 1769]	5269	[710, 1925]
167	[330, 331]	1868	[2979, 2980]	3569	[4269, 4514]	5270	[596, 2664]
168	[332, 333]	1869	[2981, 2982]	3570	[2330, 2171]	5271	[4283, 2539]
169	[334, 335]	1870	[2983, 2984]	3571	[1710, 4882]	5272	[6264, 198]
170	[336, 337]	1871	[2985, 2986]	3572	[4883, 4359]	5273	[1833, 4390]
171	[338, 339]	1872	[2987, 2793]	3573	[2563, 853]	5274	[666, 1709]
172	[340, 341]	1873	[2988, 2989]	3574	[2341, 2252]	5275	[6265, 2614]
173	[342, 343]	1874	[2990, 2991]	3575	[4691, 4800]	5276	[2312, 4626]
174	[344, 345]	1875	[2992, 2993]	3576	[4470, 2137]	5277	[730, 4618]
175	[346, 347]	1876	[2994, 937]	3577	[861, 4389]	5278	[6266, 888]
176	[348, 349]	1877	[2995, 2996]	3578	[4884, 4463]	5279	[2053, 5191]
177	[350, 351]	1878	[2997, 2998]	3579	[4885, 4886]	5280	[2345, 4301]
178	[352, 353]	1879	[2999, 3000]	3580	[162, 4887]	5281	[6267, 701]
179	[354, 355]	1880	[432, 3001]	3581	[4383, 4888]	5282	[5144, 6268]
180	[356, 357]	1881	[3002, 3003]	3582	[4889, 551]	5283	[2343, 2307]
181	[358, 359]	1882	[3004, 3005]	3583	[4890, 2077]	5284	[226, 1786]
182	[126, 360]	1883	[3006, 3007]	3584	[2635, 230]	5285	[6269, 6270]
183	[361, 362]	1884	[325, 3008]	3585	[2314, 2528]	5286	[5098, 5022]
184	[363, 364]	1885	[3009, 3010]	3586	[4891, 4321]	5287	[6271, 4965]
185	[365, 366]	1886	[3011, 1081]	3587	[4870, 1950]	5288	[6272, 4563]
186	[367, 277]	1887	[3012, 3013]	3588	[4727, 4434]	5289	[2142, 5205]
187	[368, 369]	1888	[3014, 3015]	3589	[138, 4892]	5290	[1858, 6273]
188	[370, 371]	1889	[3016, 3017]	3590	[796, 2153]	5291	[4360, 4967]
189	[372, 373]	1890	[3018, 3019]	3591	[201, 2630]	5292	[1955, 1740]
190	[374, 375]	1891	[118, 3020]	3592	[4480, 4893]	5293	[2309, 5049]
191	[376, 377]	1892	[3021, 3022]	3593	[4199, 4894]	5294	[4312, 871]
192	[378, 379]	1893	[1473, 3023]	3594	[4697, 496]	5295	[6274, 1771]
193	[380, 381]	1894	[3024, 3025]	3595	[2021, 1926]	5296	[1877, 4725]

194	[382, 383]	1895	[3026, 3027]	3596	[2494, 2478]	5297	[6275, 6276]
195	[384, 385]	1896	[3028, 3029]	3597	[4650, 916]	5298	[5137, 4195]
196	[386, 387]	1897	[3030, 3031]	3598	[4550, 4895]	5299	[579, 4656]
197	[388, 389]	1898	[3032, 3033]	3599	[4896, 4680]	5300	[2643, 5048]
198	[390, 391]	1899	[3034, 3035]	3600	[4895, 4897]	5301	[2074, 4243]
199	[392, 393]	1900	[3036, 3037]	3601	[4898, 4899]	5302	[2398, 2108]
200	[394, 395]	1901	[1545, 3038]	3602	[2520, 177]	5303	[2014, 2525]
201	[396, 397]	1902	[264, 3039]	3603	[2058, 1744]	5304	[52, 4575]
202	[398, 399]	1903	[3040, 3041]	3604	[2608, 2421]	5305	[6277, 4765]
203	[400, 401]	1904	[3042, 322]	3605	[642, 2352]	5306	[6278, 5187]
204	[402, 403]	1905	[3043, 3044]	3606	[217, 4754]	5307	[6279, 198]
205	[404, 405]	1906	[3045, 1501]	3607	[2346, 4302]	5308	[1777, 2553]
206	[406, 407]	1907	[3046, 3047]	3608	[2095, 2221]	5309	[2661, 6280]
207	[408, 409]	1908	[3048, 3049]	3609	[4900, 4510]	5310	[5118, 4522]
208	[410, 411]	1909	[3050, 3051]	3610	[4901, 4249]	5311	[2299, 2507]
209	[412, 413]	1910	[3052, 3053]	3611	[1725, 2581]	5312	[4880, 4325]
210	[70, 414]	1911	[3054, 2805]	3612	[4255, 4902]	5313	[1950, 4578]
211	[415, 416]	1912	[3055, 3056]	3613	[699, 1720]	5314	[4549, 4503]
212	[417, 418]	1913	[3057, 3058]	3614	[4903, 602]	5315	[2229, 1901]
213	[419, 420]	1914	[3059, 3060]	3615	[4904, 4905]	5316	[902, 661]
214	[421, 422]	1915	[3061, 3062]	3616	[2197, 4420]	5317	[1949, 4577]
215	[423, 424]	1916	[3063, 3064]	3617	[2660, 4895]	5318	[4844, 2574]
216	[425, 426]	1917	[3065, 3066]	3618	[4236, 4906]	5319	[6281, 1977]
217	[427, 428]	1918	[442, 1071]	3619	[4669, 4556]	5320	[4907, 1780]
218	[429, 430]	1919	[3067, 107]	3620	[1819, 2301]	5321	[764, 611]
219	[431, 432]	1920	[3068, 3069]	3621	[2212, 2275]	5322	[4707, 203]
220	[433, 434]	1921	[3070, 3071]	3622	[1902, 4757]	5323	[1984, 899]
221	[435, 436]	1922	[1028, 3072]	3623	[4907, 1933]	5324	[666, 4571]
222	[437, 438]	1923	[3073, 3074]	3624	[4908, 4909]	5325	[4254, 4814]
223	[439, 440]	1924	[3075, 3076]	3625	[4910, 4911]	5326	[4720, 6282]
224	[441, 442]	1925	[3077, 3078]	3626	[4912, 4913]	5327	[4193, 5086]
225	[443, 444]	1926	[3079, 3080]	3627	[2568, 2541]	5328	[6283, 1946]
226	[445, 446]	1927	[3081, 1475]	3628	[2338, 4484]	5329	[5129, 2313]
227	[447, 448]	1928	[3082, 3083]	3629	[4832, 2062]	5330	[8, 6284]
228	[449, 450]	1929	[3084, 3085]	3630	[4914, 4915]	5331	[877, 4759]
229	[451, 452]	1930	[3086, 3087]	3631	[2111, 4873]	5332	[4504, 6285]
230	[453, 454]	1931	[1201, 3088]	3632	[4916, 831]	5333	[562, 2564]
231	[362, 455]	1932	[3089, 3090]	3633	[4917, 4918]	5334	[2312, 6286]
232	[456, 457]	1933	[3091, 3092]	3634	[4919, 1810]	5335	[2288, 4370]
233	[458, 459]	1934	[3093, 3094]	3635	[4920, 1899]	5336	[5108, 2119]
234	[460, 461]	1935	[3095, 3096]	3636	[4921, 2685]	5337	[5165, 6287]
235	[462, 463]	1936	[3097, 3098]	3637	[2576, 2615]	5338	[4382, 6288]
236	[464, 465]	1937	[1561, 3099]	3638	[4631, 4922]	5339	[1898, 5103]
237	[466, 467]	1938	[1362, 3100]	3639	[4923, 2684]	5340	[5017, 4973]

238	[468, 469]	1939	[3101, 3102]	3640	[4874, 610]	5341	[632, 6289]
239	[470, 471]	1940	[3103, 3104]	3641	[2321, 4924]	5342	[4185, 4479]
240	[472, 473]	1941	[3105, 3106]	3642	[4188, 4519]	5343	[4554, 829]
241	[474, 475]	1942	[3107, 342]	3643	[1817, 1814]	5344	[2392, 4669]
242	[476, 477]	1943	[3108, 3109]	3644	[1855, 824]	5345	[6290, 6291]
243	[478, 479]	1944	[3110, 3111]	3645	[4925, 4673]	5346	[4686, 4553]
244	[480, 481]	1945	[3112, 2918]	3646	[4471, 4926]	5347	[4841, 570]
245	[297, 482]	1946	[2922, 3113]	3647	[4927, 4928]	5348	[4708, 4957]
246	[483, 484]	1947	[3114, 1440]	3648	[2621, 4929]	5349	[738, 692]
247	[485, 486]	1948	[3115, 464]	3649	[4930, 4931]	5350	[6292, 680]
248	[487, 488]	1949	[3116, 3117]	3650	[2401, 2373]	5351	[2171, 2567]
249	[489, 490]	1950	[1439, 3118]	3651	[4424, 4932]	5352	[218, 4755]
250	[491, 487]	1951	[455, 3119]	3652	[2042, 4211]	5353	[6293, 6294]
251	[492, 493]	1952	[3120, 3121]	3653	[161, 4425]	5354	[4792, 722]
252	[494, 495]	1953	[1450, 3122]	3654	[1817, 2278]	5355	[5127, 6295]
253	[496, 497]	1954	[1183, 1173]	3655	[2363, 2445]	5356	[578, 2586]
254	[145, 498]	1955	[3123, 3124]	3656	[2162, 4933]	5357	[523, 6296]
255	[499, 500]	1956	[3125, 3126]	3657	[4934, 1992]	5358	[162, 4426]
256	[501, 502]	1957	[982, 3127]	3658	[4935, 2596]	5359	[6297, 2361]
257	[503, 504]	1958	[3128, 3129]	3659	[2552, 4936]	5360	[2100, 1731]
258	[505, 506]	1959	[1186, 304]	3660	[4937, 4938]	5361	[6298, 1884]
259	[507, 508]	1960	[3130, 3131]	3661	[2431, 1800]	5362	[4977, 6299]
260	[509, 510]	1961	[3132, 3133]	3662	[4530, 225]	5363	[6300, 5149]
261	[511, 512]	1962	[3134, 3135]	3663	[4939, 2611]	5364	[2162, 5184]
262	[513, 514]	1963	[3136, 3137]	3664	[205, 4940]	5365	[4227, 4733]
263	[515, 516]	1964	[3138, 89]	3665	[4801, 689]	5366	[6301, 2411]
264	[517, 518]	1965	[3139, 3140]	3666	[4506, 2333]	5367	[2613, 638]
265	[519, 520]	1966	[3141, 3142]	3667	[4941, 2702]	5368	[4687, 1743]
266	[521, 522]	1967	[3143, 3144]	3668	[4942, 4368]	5369	[4544, 6302]
267	[523, 524]	1968	[2821, 3145]	3669	[2664, 2194]	5370	[587, 4635]
268	[525, 526]	1969	[3146, 3147]	3670	[4943, 2219]	5371	[570, 681]
269	[527, 528]	1970	[3148, 3149]	3671	[4944, 645]	5372	[1963, 2478]
270	[529, 530]	1971	[3150, 3151]	3672	[2266, 2208]	5373	[5091, 147]
271	[531, 532]	1972	[3152, 3153]	3673	[4945, 4946]	5374	[2455, 4233]
272	[532, 533]	1973	[3154, 3155]	3674	[2700, 654]	5375	[728, 1755]
273	[534, 535]	1974	[3156, 3157]	3675	[2232, 4233]	5376	[6245, 2617]
274	[536, 537]	1975	[3158, 2747]	3676	[4947, 4948]	5377	[4498, 4406]
275	[538, 539]	1976	[3159, 1132]	3677	[4652, 1887]	5378	[2645, 2111]
276	[540, 541]	1977	[3160, 3097]	3678	[134, 1902]	5379	[6303, 5138]
277	[542, 543]	1978	[3161, 3162]	3679	[1965, 498]	5380	[5027, 191]
278	[544, 545]	1979	[473, 3163]	3680	[845, 2041]	5381	[5166, 1738]
279	[546, 547]	1980	[475, 3164]	3681	[493, 4949]	5382	[6304, 218]
280	[548, 549]	1981	[477, 3165]	3682	[883, 4354]	5383	[1882, 2220]
281	[550, 551]	1982	[3166, 3167]	3683	[4950, 2429]	5384	[1983, 2048]

282	[552, 553]	1983	[3168, 3169]	3684	[4951, 4435]	5385	[6305, 4462]
283	[554, 555]	1984	[3170, 1667]	3685	[1802, 615]	5386	[4466, 802]
284	[556, 557]	1985	[3171, 3172]	3686	[4952, 2312]	5387	[6267, 2093]
285	[558, 559]	1986	[3173, 3174]	3687	[4953, 4954]	5388	[4414, 4734]
286	[560, 561]	1987	[3175, 3176]	3688	[4545, 4955]	5389	[4478, 4780]
287	[562, 563]	1988	[3177, 3178]	3689	[4692, 4333]	5390	[4781, 6306]
288	[564, 565]	1989	[3179, 3180]	3690	[4956, 4721]	5391	[4481, 5074]
289	[566, 567]	1990	[3181, 91]	3691	[203, 4957]	5392	[6307, 2004]
290	[568, 569]	1991	[3182, 3183]	3692	[4753, 4844]	5393	[4252, 6308]
291	[570, 571]	1992	[3184, 3185]	3693	[4453, 4652]	5394	[6309, 2264]
292	[572, 573]	1993	[3186, 3187]	3694	[4958, 4517]	5395	[6310, 6311]
293	[574, 575]	1994	[3188, 2880]	3695	[4959, 4886]	5396	[1960, 4583]
294	[576, 577]	1995	[3189, 3190]	3696	[2013, 906]	5397	[4428, 4960]
295	[578, 579]	1996	[3191, 1250]	3697	[4541, 716]	5398	[2233, 6312]
296	[580, 581]	1997	[3192, 3193]	3698	[1986, 4960]	5399	[2389, 6313]
297	[582, 583]	1998	[102, 3194]	3699	[4488, 249]	5400	[4196, 1794]
298	[584, 585]	1999	[3195, 2786]	3700	[2564, 4961]	5401	[4367, 6314]
299	[586, 587]	2000	[360, 3196]	3701	[2677, 4962]	5402	[2096, 6315]
300	[588, 589]	2001	[3062, 1181]	3702	[2442, 4609]	5403	[2258, 738]
301	[590, 591]	2002	[3197, 3198]	3703	[4963, 4673]	5404	[1824, 2169]
302	[129, 592]	2003	[3199, 423]	3704	[765, 4689]	5405	[1881, 2094]
303	[593, 594]	2004	[3200, 3201]	3705	[4964, 4965]	5406	[6316, 2418]
304	[595, 596]	2005	[3202, 3203]	3706	[4966, 4729]	5407	[2207, 2267]
305	[597, 598]	2006	[3204, 2762]	3707	[4950, 4219]	5408	[4676, 2091]
306	[599, 53]	2007	[3205, 456]	3708	[4892, 4195]	5409	[6317, 6318]
307	[600, 226]	2008	[3206, 3207]	3709	[2272, 4967]	5410	[4241, 5115]
308	[601, 602]	2009	[3208, 3209]	3710	[4923, 820]	5411	[616, 2165]
309	[603, 604]	2010	[3210, 3211]	3711	[4968, 4969]	5412	[6319, 6320]
310	[605, 606]	2011	[1543, 1538]	3712	[4970, 152]	5413	[6321, 6322]
311	[607, 608]	2012	[3212, 3213]	3713	[4971, 4428]	5414	[4876, 6291]
312	[521, 609]	2013	[3214, 3215]	3714	[2327, 2480]	5415	[4722, 4489]
313	[610, 611]	2014	[3216, 3217]	3715	[4690, 4599]	5416	[1920, 6323]
314	[47, 612]	2015	[3218, 3219]	3716	[2423, 2213]	5417	[4180, 1807]
315	[613, 614]	2016	[3220, 3221]	3717	[4651, 4454]	5418	[4703, 6263]
316	[615, 616]	2017	[3222, 3223]	3718	[1844, 573]	5419	[4814, 6324]
317	[617, 618]	2018	[3224, 3225]	3719	[4972, 4973]	5420	[1837, 1840]
318	[619, 620]	2019	[3226, 3227]	3720	[4616, 4974]	5421	[4353, 532]
319	[621, 622]	2020	[3228, 3229]	3721	[4975, 4976]	5422	[1836, 4394]
320	[623, 233]	2021	[3230, 3081]	3722	[234, 4742]	5423	[6325, 2671]
321	[624, 625]	2022	[1432, 3231]	3723	[2289, 4371]	5424	[6326, 734]
322	[626, 627]	2023	[3232, 3233]	3724	[4977, 804]	5425	[1997, 663]
323	[628, 170]	2024	[3234, 3235]	3725	[2224, 4978]	5426	[4369, 6327]
324	[629, 630]	2025	[3236, 3237]	3726	[2376, 1962]	5427	[673, 2601]
325	[527, 631]	2026	[3238, 3239]	3727	[1712, 4226]	5428	[4333, 6328]

326	[632, 633]	2027	[3240, 3241]	3728	[4979, 2602]	5429	[6329, 5112]
327	[634, 635]	2028	[938, 3242]	3729	[4228, 4808]	5430	[4489, 2116]
328	[636, 637]	2029	[1530, 3243]	3730	[4980, 895]	5431	[6291, 1728]
329	[638, 639]	2030	[3244, 3245]	3731	[2160, 35]	5432	[4788, 4198]
330	[640, 641]	2031	[2761, 2981]	3732	[46, 4362]	5433	[4777, 5091]
331	[642, 643]	2032	[3246, 3014]	3733	[4981, 202]	5434	[2633, 6330]
332	[644, 645]	2033	[3247, 3248]	3734	[2297, 4982]	5435	[778, 4326]
333	[646, 647]	2034	[3249, 3250]	3735	[4939, 4316]	5436	[517, 6244]
334	[648, 649]	2035	[3251, 3252]	3736	[4487, 169]	5437	[4996, 2634]
335	[650, 651]	2036	[3253, 1361]	3737	[4983, 4528]	5438	[178, 4738]
336	[652, 653]	2037	[3254, 3255]	3738	[4984, 4985]	5439	[1751, 6289]
337	[654, 655]	2038	[3256, 3257]	3739	[2309, 4986]	5440	[2018, 4848]
338	[656, 657]	2039	[3258, 3259]	3740	[2314, 741]	5441	[2409, 4512]
339	[658, 659]	2040	[94, 3260]	3741	[773, 4987]	5442	[4807, 4229]
340	[660, 661]	2041	[3261, 3262]	3742	[603, 4623]	5443	[5180, 61]
341	[662, 558]	2042	[3263, 3264]	3743	[4988, 1790]	5444	[4400, 6286]
342	[663, 664]	2043	[3265, 3266]	3744	[4323, 2535]	5445	[1756, 4395]
343	[665, 666]	2044	[3267, 1198]	3745	[1820, 2302]	5446	[4288, 4711]
344	[667, 668]	2045	[3268, 3269]	3746	[4714, 4989]	5447	[880, 2413]
345	[669, 670]	2046	[3270, 3271]	3747	[2052, 4990]	5448	[6331, 4938]
346	[671, 672]	2047	[3272, 3273]	3748	[2509, 2327]	5449	[1946, 4951]
347	[673, 674]	2048	[3274, 3275]	3749	[679, 4535]	5450	[220, 1880]
348	[675, 676]	2049	[3276, 1459]	3750	[2072, 517]	5451	[5142, 4179]
349	[677, 678]	2050	[3277, 3278]	3751	[2667, 4598]	5452	[575, 6308]
350	[679, 680]	2051	[3279, 3280]	3752	[859, 1749]	5453	[5119, 1890]
351	[681, 682]	2052	[3281, 3282]	3753	[4991, 770]	5454	[6332, 6333]
352	[683, 684]	2053	[3283, 3281]	3754	[140, 4312]	5455	[4492, 4899]
353	[685, 686]	2054	[488, 3284]	3755	[4992, 4993]	5456	[4796, 1753]
354	[687, 688]	2055	[3285, 2889]	3756	[563, 4961]	5457	[4326, 799]
355	[689, 690]	2056	[3286, 3287]	3757	[2209, 244]	5458	[610, 1712]
356	[691, 692]	2057	[1537, 1188]	3758	[4994, 4665]	5459	[5063, 4660]
357	[155, 693]	2058	[2789, 1351]	3759	[4877, 593]	5460	[6305, 6334]
358	[694, 656]	2059	[3288, 3289]	3760	[4644, 4995]	5461	[6335, 6336]
359	[695, 696]	2060	[2739, 390]	3761	[725, 4787]	5462	[6337, 4929]
360	[697, 698]	2061	[3290, 3291]	3762	[4996, 182]	5463	[6338, 6339]
361	[699, 700]	2062	[3292, 3293]	3763	[4589, 4997]	5464	[6340, 2503]
362	[664, 517]	2063	[3294, 2743]	3764	[4587, 4746]	5465	[6341, 6342]
363	[701, 702]	2064	[3295, 3296]	3765	[4724, 1878]	5466	[750, 4999]
364	[703, 704]	2065	[1148, 3297]	3766	[4307, 4998]	5467	[4235, 4998]
365	[705, 706]	2066	[3298, 3299]	3767	[4612, 4915]	5468	[749, 4523]
366	[707, 708]	2067	[3300, 3301]	3768	[4575, 557]	5469	[6343, 5162]
367	[709, 710]	2068	[3302, 1266]	3769	[558, 4999]	5470	[6304, 4754]
368	[711, 712]	2069	[3303, 3304]	3770	[5000, 2626]	5471	[2705, 5209]
369	[713, 205]	2070	[3305, 3306]	3771	[4290, 5001]	5472	[4945, 5134]

370	[714, 715]	2071	[1156, 3307]	3772	[4454, 2408]	5473	[192, 6344]
371	[716, 717]	2072	[1103, 3308]	3773	[1961, 2377]	5474	[2028, 501]
372	[718, 719]	2073	[3309, 3310]	3774	[4637, 2150]	5475	[5197, 6345]
373	[543, 720]	2074	[343, 3311]	3775	[5002, 672]	5476	[2637, 5205]
374	[626, 721]	2075	[3312, 3313]	3776	[647, 5003]	5477	[2464, 637]
375	[722, 238]	2076	[3314, 3315]	3777	[2354, 4419]	5478	[770, 627]
376	[723, 724]	2077	[3316, 3317]	3778	[2230, 2701]	5479	[2310, 5061]
377	[725, 726]	2078	[3318, 3319]	3779	[199, 2235]	5480	[2529, 5081]
378	[727, 728]	2079	[3320, 3321]	3780	[5004, 5005]	5481	[1836, 1827]
379	[729, 730]	2080	[1090, 2967]	3781	[5006, 5007]	5482	[4238, 574]
380	[731, 732]	2081	[307, 3322]	3782	[1840, 1830]	5483	[6346, 6336]
381	[733, 734]	2082	[3323, 3324]	3783	[5008, 4580]	5484	[6338, 2228]
382	[735, 736]	2083	[3325, 3326]	3784	[5009, 2599]	5485	[6347, 2217]
383	[737, 738]	2084	[3327, 3328]	3785	[758, 4536]	5486	[519, 4636]
384	[739, 740]	2085	[3329, 3330]	3786	[4841, 1866]	5487	[4953, 6345]
385	[741, 742]	2086	[3331, 3332]	3787	[4972, 2665]	5488	[4661, 5146]
386	[743, 744]	2087	[3083, 3333]	3788	[5010, 5011]	5489	[4416, 4699]
387	[745, 746]	2088	[3334, 3335]	3789	[2182, 5012]	5490	[5147, 4683]
388	[508, 747]	2089	[3336, 3337]	3790	[5013, 4880]	5491	[6348, 5058]
389	[748, 749]	2090	[2952, 3338]	3791	[171, 5014]	5492	[6349, 6350]
390	[662, 750]	2091	[3339, 3340]	3792	[5015, 4451]	5493	[5056, 2546]
391	[751, 752]	2092	[3341, 1319]	3793	[4913, 4430]	5494	[580, 1819]
392	[753, 754]	2093	[3342, 3343]	3794	[1754, 5016]	5495	[6271, 6351]
393	[170, 755]	2094	[3344, 2848]	3795	[5017, 2665]	5496	[2610, 2572]
394	[756, 757]	2095	[2734, 3345]	3796	[591, 4363]	5497	[165, 2557]
395	[758, 759]	2096	[3346, 3347]	3797	[5018, 4632]	5498	[821, 2028]
396	[760, 761]	2097	[3348, 3349]	3798	[4316, 5019]	5499	[1730, 6352]
397	[762, 686]	2098	[3350, 1258]	3799	[5020, 4993]	5500	[2072, 2653]
398	[763, 764]	2099	[3351, 1190]	3800	[4627, 2534]	5501	[2461, 37]
399	[765, 766]	2100	[3352, 3353]	3801	[2298, 1982]	5502	[219, 1879]
400	[682, 767]	2101	[3354, 3355]	3802	[5021, 4909]	5503	[4851, 4605]
401	[567, 768]	2102	[3356, 3357]	3803	[5022, 137]	5504	[6298, 6353]
402	[769, 770]	2103	[3358, 3359]	3804	[4664, 792]	5505	[1950, 6354]
403	[771, 772]	2104	[3360, 3361]	3805	[5023, 2496]	5506	[1729, 4608]
404	[773, 774]	2105	[3362, 3363]	3806	[5024, 4431]	5507	[776, 6290]
405	[775, 776]	2106	[3364, 3365]	3807	[907, 755]	5508	[4898, 4493]
406	[777, 778]	2107	[3366, 3367]	3808	[5025, 5026]	5509	[2247, 4997]
407	[779, 780]	2108	[3368, 3369]	3809	[4794, 877]	5510	[4441, 1920]
408	[781, 561]	2109	[3370, 2791]	3810	[5027, 5028]	5511	[2508, 4776]
409	[782, 783]	2110	[3371, 3372]	3811	[5029, 4948]	5512	[4838, 4591]
410	[784, 785]	2111	[1483, 3373]	3812	[2148, 2162]	5513	[692, 4802]
411	[786, 787]	2112	[1693, 3374]	3813	[5030, 2031]	5514	[6355, 6356]
412	[788, 789]	2113	[3375, 3376]	3814	[5031, 612]	5515	[813, 6357]
413	[790, 791]	2114	[3377, 3188]	3815	[4562, 4912]	5516	[6358, 6359]

414	[792, 793]	2115	[3378, 3379]	3816	[4803, 2425]	5517	[6266, 5185]
415	[794, 222]	2116	[3380, 3179]	3817	[4557, 5032]	5518	[4927, 4767]
416	[795, 796]	2117	[3381, 3382]	3818	[4706, 4650]	5519	[4276, 5045]
417	[780, 797]	2118	[444, 3383]	3819	[2386, 2318]	5520	[4768, 2446]
418	[798, 799]	2119	[3384, 3385]	3820	[2249, 4470]	5521	[2129, 547]
419	[647, 800]	2120	[3386, 1116]	3821	[4739, 5033]	5522	[5215, 678]
420	[801, 802]	2121	[3387, 1295]	3822	[2513, 4849]	5523	[6360, 6361]
421	[803, 804]	2122	[3388, 3389]	3823	[5034, 2591]	5524	[6362, 1910]
422	[805, 806]	2123	[3390, 3391]	3824	[4931, 718]	5525	[5089, 6363]
423	[807, 808]	2124	[3392, 3393]	3825	[5035, 1931]	5526	[6356, 4756]
424	[809, 810]	2125	[3394, 969]	3826	[4427, 4230]	5527	[2519, 1707]
425	[811, 812]	2126	[3395, 3396]	3827	[1885, 5036]	5528	[206, 2045]
426	[813, 814]	2127	[3397, 2820]	3828	[2215, 4719]	5529	[2674, 1766]
427	[815, 816]	2128	[3398, 3199]	3829	[5037, 4383]	5530	[1785, 4557]
428	[621, 817]	2129	[2824, 3182]	3830	[5038, 814]	5531	[4785, 2681]
429	[243, 818]	2130	[3399, 3400]	3831	[5039, 5040]	5532	[5162, 703]
430	[819, 820]	2131	[3401, 3402]	3832	[189, 5041]	5533	[838, 649]
431	[821, 822]	2132	[1504, 3403]	3833	[5042, 5043]	5534	[1965, 146]
432	[823, 522]	2133	[3367, 3404]	3834	[5044, 5045]	5535	[6364, 2555]
433	[565, 824]	2134	[373, 3405]	3835	[5046, 5047]	5536	[2558, 1864]
434	[516, 825]	2135	[3406, 3407]	3836	[4345, 1828]	5537	[4993, 782]
435	[826, 827]	2136	[3408, 3409]	3837	[2033, 841]	5538	[4270, 919]
436	[828, 11]	2137	[3410, 3411]	3838	[687, 4418]	5539	[542, 689]
437	[829, 575]	2138	[3412, 3371]	3839	[4670, 4430]	5540	[2548, 4324]
438	[830, 831]	2139	[3413, 3414]	3840	[5048, 5049]	5541	[5096, 1864]
439	[832, 833]	2140	[1245, 3415]	3841	[4792, 237]	5542	[4729, 4835]
440	[834, 835]	2141	[1270, 2728]	3842	[4555, 2010]	5543	[6269, 2655]
441	[836, 837]	2142	[1225, 3247]	3843	[4611, 5050]	5544	[1945, 2430]
442	[838, 839]	2143	[3416, 3417]	3844	[5051, 4282]	5545	[5002, 6365]
443	[840, 841]	2144	[1535, 3418]	3845	[2465, 5052]	5546	[705, 6366]
444	[842, 843]	2145	[3419, 3420]	3846	[5053, 4699]	5547	[730, 786]
445	[714, 844]	2146	[3421, 3422]	3847	[5054, 5055]	5548	[680, 4452]
446	[845, 846]	2147	[3423, 3424]	3848	[5056, 142]	5549	[6367, 6368]
447	[847, 848]	2148	[3425, 3103]	3849	[4261, 1703]	5550	[4196, 137]
448	[849, 850]	2149	[3426, 3427]	3850	[2653, 518]	5551	[4985, 4487]
449	[851, 852]	2150	[3428, 3429]	3851	[1814, 1918]	5552	[5214, 4713]
450	[777, 853]	2151	[3430, 3431]	3852	[4438, 2527]	5553	[2594, 4814]
451	[854, 46]	2152	[3432, 3433]	3853	[2548, 4880]	5554	[6369, 6370]
452	[855, 856]	2153	[3434, 3435]	3854	[5057, 5058]	5555	[2197, 4949]
453	[857, 858]	2154	[3193, 3436]	3855	[5015, 5059]	5556	[4900, 6371]
454	[859, 860]	2155	[3437, 3438]	3856	[1789, 5060]	5557	[5030, 6372]
455	[700, 851]	2156	[3439, 3440]	3857	[1951, 4541]	5558	[2362, 4955]
456	[861, 862]	2157	[3441, 3442]	3858	[4914, 4613]	5559	[2153, 2314]
457	[863, 864]	2158	[3443, 1356]	3859	[5061, 5062]	5560	[1860, 4596]

458	[865, 866]	2159	[3444, 3445]	3860	[2668, 2343]	5561	[6373, 6374]
459	[864, 867]	2160	[3446, 3447]	3861	[852, 2387]	5562	[5022, 1794]
460	[868, 869]	2161	[3407, 3448]	3862	[5063, 5064]	5563	[776, 4876]
461	[870, 871]	2162	[3449, 3450]	3863	[4752, 2119]	5564	[4952, 4400]
462	[872, 873]	2163	[3451, 3452]	3864	[1918, 4525]	5565	[6375, 889]
463	[874, 875]	2164	[3453, 3454]	3865	[5065, 194]	5566	[4287, 1709]
464	[876, 877]	2165	[1160, 935]	3866	[5066, 4994]	5567	[2387, 4763]
465	[878, 879]	2166	[3455, 3456]	3867	[5067, 1756]	5568	[4992, 1818]
466	[880, 511]	2167	[3457, 1321]	3868	[1804, 4994]	5569	[2464, 4490]
467	[881, 882]	2168	[3458, 3459]	3869	[5068, 628]	5570	[6376, 6377]
468	[883, 884]	2169	[3460, 3024]	3870	[4890, 4524]	5571	[5169, 6378]
469	[543, 690]	2170	[3461, 1179]	3871	[250, 247]	5572	[4225, 4894]
470	[885, 886]	2171	[3462, 1118]	3872	[4364, 4617]	5573	[5178, 2379]
471	[887, 888]	2172	[3463, 3464]	3873	[2119, 4844]	5574	[6379, 6380]
472	[889, 890]	2173	[3465, 3466]	3874	[2685, 2198]	5575	[1803, 4447]
473	[891, 892]	2174	[1068, 3467]	3875	[2404, 4201]	5576	[2701, 655]
474	[893, 608]	2175	[3468, 3195]	3876	[2035, 1782]	5577	[6340, 6381]
475	[894, 895]	2176	[3469, 3470]	3877	[4180, 5069]	5578	[4895, 6280]
476	[896, 897]	2177	[3422, 3471]	3878	[1897, 5070]	5579	[901, 660]
477	[898, 856]	2178	[3472, 3473]	3879	[4366, 4297]	5580	[5039, 2396]
478	[899, 900]	2179	[3474, 3475]	3880	[4289, 176]	5581	[2083, 1724]
479	[901, 902]	2180	[3476, 3477]	3881	[4634, 1749]	5582	[2654, 6270]
480	[903, 904]	2181	[3478, 3479]	3882	[4871, 4854]	5583	[6382, 6382]
481	[905, 906]	2182	[3357, 3480]	3883	[4255, 5062]	5584	[4973, 2666]
482	[628, 907]	2183	[3481, 3482]	3884	[5060, 2328]	5585	[4988, 5060]
483	[908, 909]	2184	[3483, 3484]	3885	[4402, 2513]	5586	[5099, 2556]
484	[910, 911]	2185	[3485, 3486]	3886	[4941, 2348]	5587	[2395, 5040]
485	[912, 913]	2186	[3487, 3488]	3887	[5071, 5072]	5588	[5048, 4986]
486	[668, 563]	2187	[299, 3457]	3888	[5073, 5074]	5589	[5013, 4324]
487	[914, 915]	2188	[3489, 3490]	3889	[2664, 2629]	5590	[4535, 4452]
488	[566, 916]	2189	[3491, 3492]	3890	[2539, 5075]	5591	[4386, 2013]
489	[917, 762]	2190	[3493, 3423]	3891	[4905, 4792]	5592	[5104, 164]
490	[918, 919]	2191	[3494, 3495]	3892	[4260, 582]	5593	[1765, 2675]
491	[920, 566]	2192	[3496, 3497]	3893	[5076, 1761]	5594	[4877, 1728]
492	[921, 922]	2193	[3498, 3499]	3894	[5077, 4263]	5595	[6383, 6260]
493	[923, 924]	2194	[3500, 3501]	3895	[4842, 5078]	5596	[4892, 5098]
494	[925, 926]	2195	[3502, 931]	3896	[826, 5079]	5597	[50, 4436]
495	[927, 928]	2196	[3503, 3504]	3897	[2569, 786]	5598	[6384, 6377]
496	[929, 930]	2197	[3505, 3506]	3898	[5080, 5081]	5599	[2303, 4611]
497	[931, 932]	2198	[3507, 3508]	3899	[4867, 528]	5600	[2524, 586]
498	[933, 934]	2199	[3509, 3510]	3900	[2506, 2300]	5601	[1743, 2059]
499	[935, 936]	2200	[3511, 1534]	3901	[4628, 4648]	5602	[4547, 5007]
500	[937, 938]	2201	[3512, 3513]	3902	[2547, 5013]	5603	[874, 174]
501	[939, 940]	2202	[1670, 3514]	3903	[2241, 5082]	5604	[6385, 2364]

502	[941, 942]	2203	[3284, 3515]	3904	[4572, 868]	5605	[1723, 4773]
503	[943, 944]	2204	[3516, 3517]	3905	[2670, 5083]	5606	[6346, 6386]
504	[945, 946]	2205	[3518, 3519]	3906	[4529, 2049]	5607	[5046, 4971]
505	[947, 948]	2206	[3520, 3521]	3907	[5084, 2339]	5608	[2505, 1718]
506	[949, 950]	2207	[3522, 3523]	3908	[4521, 2449]	5609	[4540, 1952]
507	[951, 952]	2208	[3190, 3524]	3909	[4994, 4274]	5610	[849, 4279]
508	[953, 954]	2209	[3445, 3525]	3910	[2449, 494]	5611	[645, 6262]
509	[955, 956]	2210	[3526, 3527]	3911	[4761, 4347]	5612	[4869, 1969]
510	[957, 958]	2211	[1267, 3528]	3912	[734, 1702]	5613	[2196, 1966]
511	[959, 960]	2212	[3529, 288]	3913	[5085, 5086]	5614	[1763, 615]
512	[961, 962]	2213	[1076, 3481]	3914	[1794, 138]	5615	[4875, 728]
513	[963, 964]	2214	[1421, 3530]	3915	[50, 5087]	5616	[4837, 2259]
514	[965, 966]	2215	[3531, 3532]	3916	[2201, 5088]	5617	[1825, 4295]
515	[967, 968]	2216	[3533, 3534]	3917	[5089, 704]	5618	[4891, 6387]
516	[969, 970]	2217	[3535, 3536]	3918	[2695, 5090]	5619	[4872, 2257]
517	[971, 972]	2218	[3537, 2886]	3919	[707, 2604]	5620	[6388, 58]
518	[973, 974]	2219	[3538, 3500]	3920	[2211, 2344]	5621	[6389, 4969]
519	[975, 976]	2220	[3003, 3539]	3921	[4775, 1730]	5622	[5120, 4413]
520	[977, 978]	2221	[3005, 3540]	3922	[4396, 5091]	5623	[4845, 641]
521	[979, 980]	2222	[3541, 3082]	3923	[5092, 5093]	5624	[4698, 2005]
522	[981, 982]	2223	[3542, 3543]	3924	[1946, 2431]	5625	[6390, 6268]
523	[983, 984]	2224	[3544, 3545]	3925	[796, 2313]	5626	[2268, 842]
524	[985, 986]	2225	[3546, 3547]	3926	[4701, 5094]	5627	[711, 845]
525	[987, 988]	2226	[3548, 3549]	3927	[2220, 2460]	5628	[782, 4616]
526	[989, 990]	2227	[3550, 3551]	3928	[2264, 5095]	5629	[4189, 6391]
527	[991, 992]	2228	[3552, 3553]	3929	[4700, 2089]	5630	[2539, 6392]
528	[993, 408]	2229	[3554, 3555]	3930	[4443, 188]	5631	[6255, 2603]
529	[994, 995]	2230	[3556, 1234]	3931	[4853, 1720]	5632	[202, 4708]
530	[996, 997]	2231	[3557, 927]	3932	[5096, 2559]	5633	[2192, 844]
531	[998, 999]	2232	[3558, 3559]	3933	[2167, 4707]	5634	[5085, 4194]
532	[1000, 1001]	2233	[3560, 3561]	3934	[1944, 5097]	5635	[6393, 6393]
533	[1002, 1003]	2234	[3562, 3563]	3935	[5098, 4196]	5636	[4985, 5068]
534	[1004, 1005]	2235	[3564, 3565]	3936	[4912, 4670]	5637	[599, 4329]
535	[1006, 1007]	2236	[3566, 3567]	3937	[4616, 2393]	5638	[5200, 10]
536	[1008, 1009]	2237	[3568, 3569]	3938	[5099, 165]	5639	[4925, 1959]
537	[1010, 1011]	2238	[1384, 3570]	3939	[4959, 5100]	5640	[4444, 4213]
538	[1012, 1013]	2239	[3571, 3439]	3940	[5101, 500]	5641	[514, 5174]
539	[1014, 1015]	2240	[2960, 3572]	3941	[4661, 4918]	5642	[6394, 6395]
540	[1016, 25]	2241	[278, 3009]	3942	[5102, 2380]	5643	[1800, 6396]
541	[1017, 1018]	2242	[3573, 3574]	3943	[4920, 5103]	5644	[2243, 1727]
542	[1019, 1020]	2243	[3575, 3576]	3944	[842, 4296]	5645	[4395, 4520]
543	[1021, 1022]	2244	[3577, 3578]	3945	[2045, 4460]	5646	[4790, 1799]
544	[1023, 1024]	2245	[3579, 3580]	3946	[4726, 2058]	5647	[1795, 4892]
545	[1025, 1026]	2246	[3581, 3582]	3947	[4696, 4882]	5648	[4821, 6397]

546	[1027, 1028]	2247	[3583, 3584]	3948	[5104, 4811]	5649	[1890, 6398]
547	[1029, 1030]	2248	[3585, 3586]	3949	[4536, 4208]	5650	[4858, 45]
548	[1031, 1032]	2249	[3587, 3232]	3950	[4231, 4518]	5651	[2576, 248]
549	[1033, 1034]	2250	[3588, 3589]	3951	[2304, 2406]	5652	[227, 236]
550	[1035, 1036]	2251	[3590, 3496]	3952	[4855, 5105]	5653	[4447, 2084]
551	[422, 1037]	2252	[3477, 3591]	3953	[1744, 4805]	5654	[6399, 6400]
552	[1038, 1039]	2253	[3215, 3592]	3954	[4682, 705]	5655	[2087, 6401]
553	[1040, 1041]	2254	[3540, 3593]	3955	[5106, 4417]	5656	[2357, 6392]
554	[1042, 1043]	2255	[3594, 3595]	3956	[4436, 2533]	5657	[5092, 6276]
555	[1044, 1045]	2256	[3596, 3468]	3957	[857, 5107]	5658	[2179, 4221]
556	[1046, 1047]	2257	[3396, 2992]	3958	[5108, 4753]	5659	[4179, 4703]
557	[1048, 1049]	2258	[3597, 1301]	3959	[1847, 179]	5660	[2701, 4412]
558	[974, 1050]	2259	[1049, 3598]	3960	[1806, 5069]	5661	[4456, 6315]
559	[1051, 1052]	2260	[3599, 3600]	3961	[4370, 5109]	5662	[4511, 199]
560	[1053, 1054]	2261	[3601, 1371]	3962	[5110, 1993]	5663	[1952, 2335]
561	[1055, 1056]	2262	[1603, 3602]	3963	[5111, 5112]	5664	[6402, 6403]
562	[1057, 1058]	2263	[1557, 3603]	3964	[5113, 5114]	5665	[4435, 6396]
563	[1059, 1060]	2264	[3604, 3605]	3965	[860, 4495]	5666	[4664, 2644]
564	[1061, 1062]	2265	[3606, 3607]	3966	[5115, 4216]	5667	[6252, 4310]
565	[1063, 1064]	2266	[3608, 3277]	3967	[5116, 4357]	5668	[4243, 4222]
566	[1065, 1066]	2267	[3609, 3610]	3968	[4503, 2127]	5669	[5156, 2269]
567	[1067, 1068]	2268	[3611, 1570]	3969	[4758, 4816]	5670	[4204, 4813]
568	[1069, 1070]	2269	[3586, 3612]	3970	[207, 5117]	5671	[2068, 5002]
569	[1071, 1072]	2270	[3613, 933]	3971	[5118, 749]	5672	[4883, 2516]
570	[1073, 1074]	2271	[3614, 3615]	3972	[229, 859]	5673	[2518, 5036]
571	[1075, 1076]	2272	[3616, 3617]	3973	[1935, 495]	5674	[2136, 6404]
572	[1077, 1078]	2273	[3618, 1683]	3974	[152, 2040]	5675	[1929, 2538]
573	[1079, 1080]	2274	[3619, 3620]	3975	[5119, 5120]	5676	[4347, 150]
574	[1081, 1082]	2275	[3528, 3621]	3976	[4585, 5121]	5677	[5065, 2641]
575	[1083, 1084]	2276	[2711, 386]	3977	[5122, 5123]	5678	[4349, 6405]
576	[1085, 1086]	2277	[3622, 3616]	3978	[2499, 5124]	5679	[6349, 5204]
577	[1087, 1088]	2278	[3623, 1069]	3979	[4868, 5125]	5680	[5188, 5047]
578	[1089, 1090]	2279	[3624, 3625]	3980	[142, 5126]	5681	[1716, 711]
579	[1091, 1092]	2280	[3626, 3627]	3981	[5127, 1851]	5682	[2168, 6406]
580	[1093, 1094]	2281	[3628, 3629]	3982	[5128, 5129]	5683	[4741, 235]
581	[1066, 1095]	2282	[3630, 3631]	3983	[4636, 5130]	5684	[1957, 6407]
582	[1096, 1097]	2283	[364, 3016]	3984	[5131, 5132]	5685	[520, 5130]
583	[1098, 1099]	2284	[3632, 3633]	3985	[1866, 681]	5686	[4292, 6408]
584	[1100, 1101]	2285	[3634, 3635]	3986	[2073, 2172]	5687	[4287, 4571]
585	[1102, 1103]	2286	[3636, 3637]	3987	[855, 4830]	5688	[2666, 5010]
586	[369, 1104]	2287	[3638, 3639]	3988	[5133, 5134]	5689	[4595, 2056]
587	[1105, 1106]	2288	[3640, 3641]	3989	[2452, 1780]	5690	[4263, 6290]
588	[1107, 1108]	2289	[1411, 474]	3990	[833, 5135]	5691	[4592, 1765]
589	[1109, 1110]	2290	[2763, 1621]	3991	[716, 2540]	5692	[6409, 5001]

590	[1111, 1112]	2291	[3121, 3642]	3992	[541, 2011]	5693	[4971, 1986]
591	[92, 1113]	2292	[3643, 3644]	3993	[2082, 889]	5694	[5165, 6410]
592	[1114, 1115]	2293	[3645, 3571]	3994	[2387, 2319]	5695	[6288, 4888]
593	[1116, 1117]	2294	[3646, 3647]	3995	[2666, 4711]	5696	[538, 1942]
594	[1118, 1119]	2295	[3648, 3649]	3996	[4937, 5136]	5697	[5190, 1872]
595	[1120, 1121]	2296	[3650, 3651]	3997	[5137, 5098]	5698	[4537, 6302]
596	[1122, 1123]	2297	[3652, 3653]	3998	[139, 4543]	5699	[6411, 6412]
597	[1124, 1125]	2298	[3654, 3168]	3999	[4655, 868]	5700	[6413, 2414]
598	[1126, 1127]	2299	[3655, 3656]	4000	[4245, 5138]	5701	[525, 4819]
599	[1128, 1129]	2300	[3657, 3658]	4001	[5139, 5140]	5702	[2632, 892]
600	[1130, 1131]	2301	[2815, 3659]	4002	[4810, 508]	5703	[179, 5082]
601	[1132, 1133]	2302	[1062, 3283]	4003	[57, 1907]	5704	[4452, 2519]
602	[1134, 1135]	2303	[3486, 1507]	4004	[778, 798]	5705	[629, 4827]
603	[1136, 1137]	2304	[3660, 3661]	4005	[5141, 32]	5706	[6414, 6322]
604	[1138, 1139]	2305	[3662, 3663]	4006	[4486, 1871]	5707	[4543, 4312]
605	[1140, 1141]	2306	[3194, 3664]	4007	[211, 4824]	5708	[6415, 4804]
606	[1142, 1143]	2307	[3665, 354]	4008	[2032, 2415]	5709	[809, 6247]
607	[1144, 1046]	2308	[3666, 3667]	4009	[2198, 4589]	5710	[5053, 675]
608	[1145, 1146]	2309	[1698, 3668]	4010	[4563, 4913]	5711	[6416, 4586]
609	[1147, 1148]	2310	[1423, 3669]	4011	[4795, 5135]	5712	[4980, 4841]
610	[1149, 1150]	2311	[3670, 3671]	4012	[2045, 5117]	5713	[639, 4531]
611	[1151, 1152]	2312	[3672, 3673]	4013	[5142, 4793]	5714	[1889, 5120]
612	[1153, 1154]	2313	[3674, 1105]	4014	[5143, 671]	5715	[5106, 2141]
613	[1155, 1156]	2314	[3675, 3622]	4015	[5144, 5145]	5716	[4764, 6417]
614	[1157, 1158]	2315	[3363, 3676]	4016	[4607, 1924]	5717	[6341, 6412]
615	[1159, 1160]	2316	[3677, 1042]	4017	[4970, 885]	5718	[6337, 2622]
616	[1161, 1162]	2317	[3678, 3395]	4018	[596, 2193]	5719	[6413, 2032]
617	[1056, 1163]	2318	[1583, 3679]	4019	[4769, 2038]	5720	[2327, 2440]
618	[1164, 1165]	2319	[3680, 3681]	4020	[1938, 2354]	5721	[4373, 2289]
619	[1166, 1167]	2320	[1137, 3682]	4021	[2229, 2699]	5722	[1928, 4192]
620	[1168, 1169]	2321	[3683, 3684]	4022	[762, 621]	5723	[199, 4377]
621	[1170, 1171]	2322	[3685, 3686]	4023	[4917, 5146]	5724	[201, 4401]
622	[1020, 1172]	2323	[3687, 3688]	4024	[2138, 2205]	5725	[4235, 6418]
623	[1173, 1174]	2324	[3689, 3690]	4025	[5147, 1892]	5726	[748, 4522]
624	[1175, 1176]	2325	[3691, 478]	4026	[2357, 5075]	5727	[2334, 4940]
625	[1177, 1178]	2326	[3692, 3397]	4027	[1741, 5148]	5728	[4678, 2337]
626	[1179, 1180]	2327	[3693, 3694]	4028	[4379, 5149]	5729	[4337, 5123]
627	[1181, 1182]	2328	[3695, 3696]	4029	[530, 833]	5730	[6419, 4645]
628	[357, 1183]	2329	[3697, 370]	4030	[691, 650]	5731	[4863, 2683]
629	[1106, 1184]	2330	[440, 3698]	4031	[5150, 5151]	5732	[693, 4809]
630	[1185, 1186]	2331	[3699, 3700]	4032	[5044, 4277]	5733	[5207, 1793]
631	[329, 1187]	2332	[3701, 3702]	4033	[5152, 4697]	5734	[6283, 2430]
632	[1188, 1189]	2333	[3703, 3704]	4034	[2688, 4860]	5735	[4783, 4307]
633	[1190, 1191]	2334	[3705, 3706]	4035	[5153, 5154]	5736	[5122, 4338]

634	[1192, 1193]	2335	[3119, 449]	4036	[5155, 5156]	5737	[4309, 747]
635	[1194, 1195]	2336	[3707, 3708]	4037	[2366, 5157]	5738	[2554, 6420]
636	[1196, 1197]	2337	[3709, 3710]	4038	[5158, 5159]	5739	[2161, 5183]
637	[1198, 1199]	2338	[3482, 3711]	4039	[2369, 5160]	5740	[4410, 2697]
638	[1200, 1201]	2339	[1489, 259]	4040	[5161, 5162]	5741	[6373, 4621]
639	[1202, 1203]	2340	[3712, 2719]	4041	[5163, 4187]	5742	[4911, 2391]
640	[1204, 1205]	2341	[1282, 252]	4042	[4190, 5164]	5743	[6343, 6246]
641	[1206, 1207]	2342	[3713, 3434]	4043	[225, 1785]	5744	[6316, 2201]
642	[1208, 1209]	2343	[3714, 2944]	4044	[4489, 250]	5745	[830, 6421]
643	[1210, 1211]	2344	[3715, 3416]	4045	[13, 4962]	5746	[4519, 6422]
644	[1212, 1213]	2345	[1522, 3716]	4046	[245, 4633]	5747	[6423, 4552]
645	[1214, 1215]	2346	[3717, 3718]	4047	[4526, 852]	5748	[5084, 4484]
646	[1216, 1217]	2347	[3719, 3720]	4048	[4636, 5165]	5749	[4588, 789]
647	[1218, 1219]	2348	[3721, 3722]	4049	[2349, 4815]	5750	[2648, 6251]
648	[1220, 1221]	2349	[3723, 2946]	4050	[5166, 5167]	5751	[786, 4640]
649	[1222, 1223]	2350	[3724, 3725]	4051	[4944, 4821]	5752	[5071, 6424]
650	[1224, 1225]	2351	[3726, 3727]	4052	[4179, 5168]	5753	[4865, 1779]
651	[1226, 1227]	2352	[3728, 3729]	4053	[5169, 806]	5754	[1717, 845]
652	[1228, 1229]	2353	[3730, 3731]	4054	[4507, 5170]	5755	[6425, 5200]
653	[1230, 1231]	2354	[2792, 3732]	4055	[623, 2639]	5756	[5026, 2203]
654	[1232, 1233]	2355	[3733, 3734]	4056	[2658, 5140]	5757	[2501, 143]
655	[1234, 1235]	2356	[3735, 3736]	4057	[847, 4779]	5758	[2287, 2459]
656	[1236, 1237]	2357	[3737, 3738]	4058	[4182, 4823]	5759	[4280, 1735]
657	[1238, 1239]	2358	[3739, 3740]	4059	[1882, 2095]	5760	[1737, 5167]
658	[1240, 1241]	2359	[3663, 113]	4060	[2600, 674]	5761	[2270, 145]
659	[1242, 1243]	2360	[3741, 3742]	4061	[5171, 4782]	5762	[2454, 2474]
660	[1244, 1245]	2361	[3743, 3258]	4062	[1979, 1932]	5763	[2317, 1702]
661	[1246, 1247]	2362	[3744, 3745]	4063	[5172, 4846]	5764	[1823, 2168]
662	[1248, 1249]	2363	[1617, 3746]	4064	[5173, 2332]	5765	[2461, 2307]
663	[1250, 1251]	2364	[3747, 3748]	4065	[4848, 673]	5766	[4750, 1912]
664	[1252, 1253]	2365	[3749, 3750]	4066	[4242, 4305]	5767	[4201, 6426]
665	[1254, 1255]	2366	[3751, 3752]	4067	[1720, 4526]	5768	[2001, 6427]
666	[1256, 1257]	2367	[3753, 3754]	4068	[2369, 5174]	5769	[5038, 6357]
667	[1258, 1259]	2368	[3755, 3756]	4069	[239, 909]	5770	[6428, 2598]
668	[992, 1260]	2369	[3757, 1448]	4070	[2491, 5175]	5771	[581, 2301]
669	[1261, 1262]	2370	[3758, 3759]	4071	[4793, 5168]	5772	[2543, 4629]
670	[1263, 1264]	2371	[3760, 3761]	4072	[2366, 2458]	5773	[6291, 593]
671	[1265, 947]	2372	[3762, 3763]	4073	[560, 2075]	5774	[4943, 5026]
672	[1266, 1267]	2373	[3764, 3765]	4074	[897, 2247]	5775	[5143, 5002]
673	[1268, 1269]	2374	[1357, 2859]	4075	[585, 2071]	5776	[4919, 6356]
674	[266, 1270]	2375	[1526, 3449]	4076	[5168, 4704]	5777	[6429, 6430]
675	[1271, 1272]	2376	[1047, 3469]	4077	[4348, 2094]	5778	[530, 4795]
676	[1273, 1274]	2377	[3766, 3743]	4078	[4332, 2703]	5779	[2176, 6313]
677	[1275, 1276]	2378	[3767, 3768]	4079	[4935, 5176]	5780	[4221, 2390]

678	[1277, 1278]	2379	[2938, 3769]	4080	[2676, 667]	5781	[2673, 580]
679	[1279, 1280]	2380	[1428, 3770]	4081	[5177, 167]	5782	[2364, 652]
680	[1281, 1282]	2381	[3639, 3771]	4082	[5087, 2533]	5783	[6364, 6420]
681	[276, 1048]	2382	[3772, 3773]	4083	[1843, 5178]	5784	[4571, 564]
682	[1283, 1284]	2383	[3319, 3224]	4084	[608, 605]	5785	[5211, 2561]
683	[1285, 1286]	2384	[3774, 1516]	4085	[4753, 2120]	5786	[6431, 6395]
684	[1287, 447]	2385	[3775, 3776]	4086	[1796, 2644]	5787	[1795, 5137]
685	[1288, 1289]	2386	[1139, 3680]	4087	[4308, 5179]	5788	[6250, 750]
686	[1187, 1290]	2387	[2879, 3777]	4088	[5180, 4237]	5789	[595, 2663]
687	[1291, 1292]	2388	[3778, 3779]	4089	[683, 589]	5790	[5133, 4946]
688	[1293, 1294]	2389	[3780, 3781]	4090	[4569, 4599]	5791	[6432, 2069]
689	[1295, 1296]	2390	[3782, 3472]	4091	[2093, 702]	5792	[6303, 4246]
690	[1297, 1298]	2391	[1009, 2933]	4092	[4750, 5181]	5793	[229, 4634]
691	[1299, 1300]	2392	[3783, 3784]	4093	[1866, 571]	5794	[2071, 664]
692	[1301, 1302]	2393	[3785, 3786]	4094	[681, 2423]	5795	[5216, 2295]
693	[1303, 1304]	2394	[3787, 3788]	4095	[2476, 4906]	5796	[6433, 6434]
694	[1305, 1238]	2395	[3789, 3790]	4096	[514, 5160]	5797	[6435, 1778]
695	[976, 1306]	2396	[3791, 3792]	4097	[722, 2508]	5798	[4859, 5064]
696	[1307, 1308]	2397	[3793, 3794]	4098	[891, 2633]	5799	[4239, 4836]
697	[1309, 1310]	2398	[3795, 3796]	4099	[4474, 5182]	5800	[4617, 2646]
698	[1311, 1312]	2399	[3797, 3197]	4100	[4601, 4180]	5801	[2019, 2600]
699	[1313, 1314]	2400	[2834, 3798]	4101	[1776, 2552]	5802	[4216, 2623]
700	[1315, 1316]	2401	[3799, 21]	4102	[157, 2384]	5803	[680, 2340]
701	[1317, 1318]	2402	[1162, 261]	4103	[2036, 1783]	5804	[4387, 4932]
702	[1319, 1320]	2403	[3800, 302]	4104	[2413, 4207]	5805	[135, 5097]
703	[1321, 1322]	2404	[3332, 3801]	4105	[807, 5164]	5806	[6382, 6393]
704	[1323, 1324]	2405	[3802, 3803]	4106	[5183, 5184]	5807	[4660, 4917]
705	[1325, 1326]	2406	[3804, 3753]	4107	[205, 4730]	5808	[4304, 4443]
706	[1327, 1328]	2407	[337, 3805]	4108	[4217, 2306]	5809	[6436, 5159]
707	[1329, 1330]	2408	[3806, 3807]	4109	[61, 4784]	5810	[5042, 6437]
708	[1331, 421]	2409	[3808, 3809]	4110	[4667, 4440]	5811	[6321, 6438]
709	[1332, 1333]	2410	[3810, 3811]	4111	[590, 4362]	5812	[6439, 2451]
710	[1334, 1335]	2411	[3812, 3813]	4112	[1777, 4936]	5813	[4990, 4542]
711	[1336, 1337]	2412	[2972, 2951]	4113	[887, 5185]	5814	[6440, 6441]
712	[1338, 1339]	2413	[3814, 3815]	4114	[5186, 5187]	5815	[4968, 6442]
713	[1340, 1341]	2414	[1549, 3295]	4115	[5188, 4971]	5816	[2337, 4566]
714	[1342, 1343]	2415	[3816, 3817]	4116	[2394, 4237]	5817	[772, 556]
715	[1344, 1345]	2416	[3818, 3819]	4117	[2373, 2017]	5818	[5080, 2530]
716	[1346, 1347]	2417	[1478, 3820]	4118	[4573, 869]	5819	[6443, 6444]
717	[1348, 1087]	2418	[3821, 3810]	4119	[4671, 128]	5820	[6445, 2364]
718	[1349, 1350]	2419	[1476, 1518]	4120	[5189, 172]	5821	[2510, 2440]
719	[1351, 1352]	2420	[1512, 3822]	4121	[5190, 229]	5822	[5087, 4627]
720	[1289, 1353]	2421	[3823, 3189]	4122	[2144, 5078]	5823	[6446, 2520]
721	[1354, 1355]	2422	[3824, 3825]	4123	[4990, 5191]	5824	[5111, 6447]

722	[1356, 1357]	2423	[2977, 3826]	4124	[4694, 2361]	5825	[6360, 5199]
723	[1117, 1358]	2424	[3827, 3828]	4125	[4328, 4924]	5826	[5139, 2659]
724	[1359, 1360]	2425	[3829, 3830]	4126	[893, 4442]	5827	[6317, 6448]
725	[1361, 1362]	2426	[457, 3831]	4127	[1818, 4615]	5828	[5125, 1969]
726	[1363, 87]	2427	[3260, 3832]	4128	[4539, 913]	5829	[4223, 660]
727	[1364, 1365]	2428	[3374, 3833]	4129	[4286, 4217]	5830	[2370, 60]
728	[1366, 1367]	2429	[3834, 3835]	4130	[4281, 5192]	5831	[2083, 890]
729	[1368, 1369]	2430	[2876, 3836]	4131	[5193, 5194]	5832	[728, 5016]
730	[1370, 1142]	2431	[1003, 2875]	4132	[4865, 687]	5833	[6319, 6449]
731	[1371, 1372]	2432	[3837, 3838]	4133	[2249, 2136]	5834	[6246, 5089]
732	[1373, 1374]	2433	[3839, 3840]	4134	[5195, 5196]	5835	[905, 6450]
733	[1375, 1376]	2434	[1080, 3841]	4135	[4518, 4189]	5836	[6399, 4559]
734	[1377, 1378]	2435	[3842, 3843]	4136	[5197, 4954]	5837	[5141, 4611]
735	[1379, 1380]	2436	[3391, 3844]	4137	[2228, 1900]	5838	[2317, 4261]
736	[1381, 1382]	2437	[1517, 3845]	4138	[1863, 837]	5839	[4869, 2022]
737	[1383, 1384]	2438	[3846, 3847]	4139	[5198, 5199]	5840	[1952, 716]
738	[1385, 1226]	2439	[3848, 3849]	4140	[4847, 2605]	5841	[6274, 6451]
739	[1386, 1387]	2440	[3850, 3851]	4141	[2293, 4602]	5842	[4625, 2618]
740	[1388, 1389]	2441	[3694, 3677]	4142	[4336, 2399]	5843	[2247, 6452]
741	[1390, 1391]	2442	[3852, 3853]	4143	[4475, 5200]	5844	[2598, 668]
742	[1392, 1393]	2443	[3854, 3855]	4144	[547, 1991]	5845	[5182, 2070]
743	[1394, 1395]	2444	[3211, 3265]	4145	[1924, 2191]	5846	[4271, 5107]
744	[1396, 1397]	2445	[2975, 3552]	4146	[5201, 4472]	5847	[2242, 2464]
745	[1398, 1399]	2446	[3856, 3857]	4147	[2475, 4826]	5848	[2180, 722]
746	[1400, 1401]	2447	[3858, 3859]	4148	[4473, 132]	5849	[2148, 5183]
747	[1402, 1403]	2448	[3860, 3861]	4149	[4973, 4288]	5850	[4233, 6312]
748	[1404, 1405]	2449	[3862, 16]	4150	[5202, 4449]	5851	[4908, 6453]
749	[1406, 1407]	2450	[1438, 3793]	4151	[5203, 5204]	5852	[4622, 4220]
750	[1408, 1409]	2451	[3025, 412]	4152	[5205, 762]	5853	[1853, 5067]
751	[1410, 1411]	2452	[3863, 3864]	4153	[5060, 5206]	5854	[2348, 6454]
752	[1412, 1413]	2453	[3865, 3774]	4154	[5207, 5208]	5855	[2238, 4603]
753	[1414, 1415]	2454	[3866, 3867]	4155	[4195, 5022]	5856	[2205, 6455]
754	[1416, 1417]	2455	[3868, 3869]	4156	[2673, 1764]	5857	[2551, 4410]
755	[1418, 1419]	2456	[3718, 3034]	4157	[4975, 2657]	5858	[2702, 6454]
756	[1420, 1421]	2457	[3870, 3871]	4158	[190, 5028]	5859	[2070, 6294]
757	[1422, 1423]	2458	[3872, 3873]	4159	[832, 4795]	5860	[4512, 5095]
758	[968, 1424]	2459	[3637, 3874]	4160	[4294, 2366]	5861	[4563, 4670]
759	[359, 338]	2460	[3252, 3875]	4161	[5064, 4661]	5862	[2152, 4329]
760	[1425, 1426]	2461	[3876, 1370]	4162	[4675, 5209]	5863	[182, 2635]
761	[1427, 1428]	2462	[3877, 1275]	4163	[4404, 4299]	5864	[6456, 6457]
762	[1429, 1430]	2463	[3878, 3879]	4164	[5173, 2236]	5865	[6458, 6459]
763	[1431, 1432]	2464	[3880, 3881]	4165	[2293, 2238]	5866	[6376, 6460]
764	[1433, 1434]	2465	[3882, 3883]	4166	[2388, 586]	5867	[6355, 1810]
765	[1435, 1436]	2466	[1333, 3884]	4167	[5210, 4672]	5868	[2381, 2003]

766	[1437, 1438]	2467	[3885, 3886]	4168	[5211, 2453]	5869	[5067, 2542]
767	[106, 1439]	2468	[124, 3887]	4169	[5212, 5213]	5870	[4735, 6461]
768	[1440, 1441]	2469	[3056, 3888]	4170	[4286, 1999]	5871	[4319, 4530]
769	[1442, 1354]	2470	[3731, 1027]	4171	[4288, 5010]	5872	[6462, 4378]
770	[1443, 1444]	2471	[3293, 1153]	4172	[5214, 40]	5873	[178, 4639]
771	[1445, 1140]	2472	[3889, 3890]	4173	[4494, 5079]	5874	[2661, 4897]
772	[1446, 1447]	2473	[3891, 3892]	4174	[5215, 4467]	5875	[620, 4514]
773	[1448, 1449]	2474	[3893, 3894]	4175	[5131, 2438]	5876	[5178, 6463]
774	[293, 1450]	2475	[3895, 3896]	4176	[2333, 2419]	5877	[6464, 2205]
775	[1451, 1452]	2476	[3099, 3897]	4177	[5216, 5217]	5878	[5054, 6333]
776	[1453, 1454]	2477	[3898, 3899]	4178	[5218, 5219]	5879	[4861, 6465]
777	[1455, 1456]	2478	[3900, 3901]	4179	[5220, 5221]	5880	[1838, 4353]
778	[1457, 1458]	2479	[1646, 3902]	4180	[5222, 5223]	5881	[2248, 1869]
779	[1459, 1460]	2480	[3903, 3375]	4181	[347, 5224]	5882	[4624, 2121]
780	[1461, 1462]	2481	[3904, 922]	4182	[1374, 5225]	5883	[1768, 6261]
781	[1463, 1464]	2482	[3905, 3906]	4183	[5226, 5227]	5884	[5024, 2324]
782	[1465, 1466]	2483	[3907, 3908]	4184	[3167, 5228]	5885	[4395, 2057]
783	[1467, 1468]	2484	[3869, 3909]	4185	[3909, 5229]	5886	[1703, 5061]
784	[1469, 1470]	2485	[3910, 3911]	4186	[5230, 5231]	5887	[6466, 6449]
785	[1471, 1472]	2486	[3912, 3904]	4187	[5232, 5233]	5888	[1848, 4438]
786	[1369, 1473]	2487	[3913, 3914]	4188	[5234, 3564]	5889	[4878, 4987]
787	[1474, 1408]	2488	[3915, 1542]	4189	[5235, 5236]	5890	[4904, 2158]
788	[1475, 1476]	2489	[3916, 3917]	4190	[5237, 5238]	5891	[1996, 585]
789	[1477, 1478]	2490	[3918, 3919]	4191	[5239, 5240]	5892	[4695, 2362]
790	[1479, 1480]	2491	[3096, 93]	4192	[1494, 3772]	5893	[2282, 6426]
791	[1481, 472]	2492	[3920, 3079]	4193	[5241, 5242]	5894	[2475, 6467]
792	[1482, 1483]	2493	[3235, 3900]	4194	[3219, 5243]	5895	[2633, 4833]
793	[1484, 1485]	2494	[3921, 3922]	4195	[274, 998]	5896	[801, 219]
794	[327, 1486]	2495	[3923, 3924]	4196	[1007, 2920]	5897	[4186, 6468]
795	[1487, 75]	2496	[3925, 378]	4197	[98, 5244]	5898	[4921, 896]
796	[1488, 1252]	2497	[3926, 3927]	4198	[5245, 5246]	5899	[5057, 6469]
797	[1460, 1489]	2498	[3928, 3929]	4199	[5247, 3110]	5900	[173, 875]
798	[1456, 1490]	2499	[3930, 3931]	4200	[3696, 4098]	5901	[2090, 4677]
799	[1458, 1392]	2500	[3897, 410]	4201	[5248, 5249]	5902	[4749, 1911]
800	[1300, 1491]	2501	[3932, 3933]	4202	[3908, 5250]	5903	[2436, 2216]
801	[1492, 925]	2502	[3934, 3935]	4203	[5251, 5252]	5904	[5198, 6361]
802	[1493, 1494]	2503	[3936, 3270]	4204	[5253, 5254]	5905	[6431, 6470]
803	[1495, 1496]	2504	[3937, 1695]	4205	[4158, 5255]	5906	[4791, 2178]
804	[1497, 1498]	2505	[3938, 3939]	4206	[3642, 2907]	5907	[701, 6471]
805	[1499, 1500]	2506	[3940, 3941]	4207	[1631, 3739]	5908	[5193, 2204]
806	[1501, 1502]	2507	[3942, 3943]	4208	[1424, 1652]	5909	[4812, 6472]
807	[1503, 1504]	2508	[3944, 3945]	4209	[5256, 5257]	5910	[6473, 5033]
808	[1505, 1506]	2509	[1353, 3903]	4210	[5258, 5259]	5911	[5101, 2060]
809	[1507, 1508]	2510	[3946, 3947]	4211	[5240, 5260]	5912	[4545, 6474]

810	[1509, 1510]	2511	[3948, 1185]	4212	[3980, 5261]	5913	[6464, 2139]
811	[1511, 1512]	2512	[3786, 3949]	4213	[5262, 5263]	5914	[6416, 5121]
812	[1513, 1514]	2513	[3950, 3951]	4214	[5264, 5265]	5915	[6475, 5114]
813	[954, 1515]	2514	[3064, 3952]	4215	[5266, 5267]	5916	[910, 5124]
814	[1516, 1517]	2515	[950, 3953]	4216	[5268, 2990]	5917	[6427, 5070]
815	[1518, 1519]	2516	[3954, 3955]	4217	[5269, 1681]	5918	[6329, 6447]
816	[1520, 1521]	2517	[2986, 3956]	4218	[5270, 5271]	5919	[2307, 1847]
817	[1430, 1522]	2518	[254, 3399]	4219	[3792, 5272]	5920	[2373, 4774]
818	[1523, 1524]	2519	[1454, 2721]	4220	[2934, 3782]	5921	[5025, 2219]
819	[1525, 1526]	2520	[3049, 3957]	4221	[1001, 5273]	5922	[4516, 5068]
820	[1527, 1528]	2521	[3958, 3959]	4222	[3311, 5274]	5923	[4884, 2690]
821	[1529, 1530]	2522	[3960, 3961]	4223	[5275, 3937]	5924	[6367, 6476]
822	[1531, 1230]	2523	[3962, 3963]	4224	[5276, 5277]	5925	[2390, 4791]
823	[1532, 1533]	2524	[3825, 1390]	4225	[1064, 5278]	5926	[6477, 6441]
824	[1534, 1535]	2525	[3964, 1497]	4226	[1150, 5279]	5927	[2451, 208]
825	[1536, 1537]	2526	[3965, 3966]	4227	[5280, 5281]	5928	[4295, 1942]
826	[1538, 1539]	2527	[3967, 3968]	4228	[5223, 5282]	5929	[2353, 1939]
827	[1540, 1541]	2528	[3435, 3969]	4229	[2890, 2771]	5930	[6293, 2669]
828	[1542, 1543]	2529	[3970, 3544]	4230	[3861, 5283]	5931	[6309, 4512]
829	[1544, 1545]	2530	[1127, 3971]	4231	[5284, 5235]	5932	[4205, 6478]
830	[1546, 1547]	2531	[1219, 1202]	4232	[5285, 5286]	5933	[6265, 638]
831	[1548, 1549]	2532	[3972, 1196]	4233	[5287, 5288]	5934	[5010, 4712]
832	[1550, 1551]	2533	[2718, 3973]	4234	[5289, 5290]	5935	[4681, 4518]
833	[995, 1552]	2534	[3698, 3974]	4235	[5291, 5292]	5936	[6254, 6479]
834	[1553, 1554]	2535	[3975, 3976]	4236	[5293, 5294]	5937	[6480, 5125]
835	[345, 1555]	2536	[479, 3977]	4237	[5295, 5296]	5938	[6307, 652]
836	[1556, 1557]	2537	[3978, 3979]	4238	[323, 1083]	5939	[6481, 504]
837	[1558, 1559]	2538	[3849, 3980]	4239	[5297, 5298]	5940	[2595, 5176]
838	[1560, 1561]	2539	[3981, 3982]	4240	[5299, 5300]	5941	[5004, 2488]
839	[1562, 1563]	2540	[3704, 3983]	4241	[4126, 5268]	5942	[6482, 6465]
840	[1564, 1565]	2541	[3963, 3984]	4242	[5265, 2988]	5943	[6483, 2483]
841	[1566, 1567]	2542	[3464, 3444]	4243	[1169, 5301]	5944	[4320, 6387]
842	[1568, 1569]	2543	[2943, 1499]	4244	[4170, 1120]	5945	[224, 5067]
843	[1570, 1571]	2544	[3985, 3986]	4245	[1143, 5302]	5946	[4834, 1765]
844	[1572, 1573]	2545	[3966, 3987]	4246	[5303, 388]	5947	[549, 6484]
845	[1574, 1166]	2546	[3879, 3988]	4247	[26, 5304]	5948	[4302, 6285]
846	[1337, 1575]	2547	[3989, 3990]	4248	[5305, 5306]	5949	[6356, 1811]
847	[1576, 1364]	2548	[1257, 3991]	4249	[86, 5307]	5950	[6485, 2244]
848	[1577, 1578]	2549	[1653, 3618]	4250	[5308, 4113]	5951	[2261, 6486]
849	[1579, 1580]	2550	[3992, 3993]	4251	[5309, 5310]	5952	[2549, 5212]
850	[1581, 1582]	2551	[1397, 3994]	4252	[5311, 5312]	5953	[5130, 6287]
851	[1314, 1583]	2552	[3957, 3995]	4253	[1082, 5313]	5954	[4372, 2288]
852	[1316, 1584]	2553	[2962, 2861]	4254	[5314, 3059]	5955	[6487, 5072]
853	[1585, 1586]	2554	[3996, 3997]	4255	[5315, 3329]	5956	[2414, 695]

854	[1587, 396]	2555	[3998, 3999]	4256	[4112, 5305]	5957	[656, 744]
855	[1588, 1589]	2556	[4000, 4001]	4257	[5316, 5317]	5958	[865, 6457]
856	[1590, 1591]	2557	[3492, 1520]	4258	[5318, 1564]	5959	[2105, 6467]
857	[1592, 1204]	2558	[4002, 3948]	4259	[1320, 1566]	5960	[614, 4835]
858	[1593, 1594]	2559	[3681, 4003]	4260	[5319, 1098]	5961	[4189, 6422]
859	[450, 1595]	2560	[4004, 417]	4261	[5320, 5315]	5962	[815, 4843]
860	[1596, 1597]	2561	[4005, 4006]	4262	[5321, 1208]	5963	[4669, 6488]
861	[1598, 1599]	2562	[2906, 4007]	4263	[5322, 5323]	5964	[5189, 5014]
862	[1600, 1601]	2563	[4008, 2878]	4264	[5324, 3305]	5965	[5162, 5089]
863	[1602, 1603]	2564	[1259, 4009]	4265	[5325, 5326]	5966	[1735, 5192]
864	[1604, 1605]	2565	[1193, 3036]	4266	[5327, 5328]	5967	[2290, 6489]
865	[1606, 1529]	2566	[4010, 2833]	4267	[5329, 1342]	5968	[2029, 6490]
866	[1607, 1608]	2567	[4011, 4012]	4268	[116, 3972]	5969	[4394, 536]
867	[1609, 1610]	2568	[4013, 4014]	4269	[1650, 3177]	5970	[4964, 6351]
868	[1611, 1612]	2569	[1158, 1474]	4270	[4, 5330]	5971	[2255, 1706]
869	[1613, 1614]	2570	[3513, 4015]	4271	[5331, 5332]	5972	[660, 2504]
870	[1615, 1616]	2571	[4016, 4017]	4272	[3490, 5333]	5973	[6473, 4740]
871	[76, 1617]	2572	[4018, 1615]	4273	[1343, 5334]	5974	[4247, 6491]
872	[355, 1618]	2573	[4019, 4020]	4274	[2881, 5335]	5975	[2546, 5126]
873	[1619, 1620]	2574	[3385, 73]	4275	[2968, 5241]	5976	[169, 907]
874	[1621, 394]	2575	[4021, 3132]	4276	[2888, 5336]	5977	[4711, 5011]
875	[1622, 1623]	2576	[490, 4022]	4277	[1610, 4073]	5978	[156, 2081]
876	[1624, 1625]	2577	[3813, 4023]	4278	[3593, 5337]	5979	[6389, 6442]
877	[1626, 95]	2578	[4024, 4025]	4279	[5338, 5339]	5980	[6492, 5043]
878	[1627, 312]	2579	[3436, 1479]	4280	[5340, 125]	5981	[6493, 6494]
879	[1628, 1629]	2580	[1172, 3095]	4281	[5341, 5342]	5982	[2517, 6495]
880	[1630, 1631]	2581	[4026, 3938]	4282	[5343, 3073]	5983	[4769, 2447]
881	[1632, 1633]	2582	[2749, 1505]	4283	[5344, 5345]	5984	[5091, 1922]
882	[1634, 1635]	2583	[3722, 4027]	4284	[5346, 3985]	5985	[4448, 6496]
883	[1636, 1637]	2584	[3001, 4028]	4285	[1058, 5347]	5986	[6292, 4535]
884	[1638, 1639]	2585	[4029, 3989]	4286	[3321, 5348]	5987	[6436, 6497]
885	[452, 1640]	2586	[4030, 1061]	4287	[5349, 3511]	5988	[6498, 6499]
886	[1641, 1642]	2587	[1095, 1381]	4288	[5350, 5351]	5989	[5155, 2268]
887	[1643, 1644]	2588	[3133, 4031]	4289	[5352, 5353]	5990	[4397, 1922]
888	[1645, 1646]	2589	[4032, 4033]	4290	[3429, 5354]	5991	[4916, 6421]
889	[1647, 1648]	2590	[4034, 4035]	4291	[5355, 5356]	5992	[2362, 6474]
890	[1649, 1650]	2591	[2798, 4036]	4292	[3945, 5357]	5993	[6500, 2695]
891	[1651, 458]	2592	[4037, 4038]	4293	[5358, 5234]	5994	[6249, 6478]
892	[1652, 1653]	2593	[4039, 1149]	4294	[5336, 3872]	5995	[556, 4576]
893	[1654, 1655]	2594	[4040, 1613]	4295	[5359, 3108]	5996	[4981, 4707]
894	[1656, 1482]	2595	[1215, 4041]	4296	[1434, 5360]	5997	[4642, 2245]
895	[1657, 1658]	2596	[2849, 4042]	4297	[5361, 5362]	5998	[6501, 1909]
896	[1659, 1660]	2597	[3686, 4043]	4298	[5363, 5364]	5999	[5171, 6306]
897	[1661, 1662]	2598	[4044, 3249]	4299	[5365, 5366]	6000	[2645, 4872]

898	[1663, 1664]	2599	[4045, 4046]	4300	[5367, 1246]	6001	[2572, 140]
899	[1665, 1666]	2600	[3225, 4047]	4301	[5368, 5369]	6002	[5177, 227]
900	[1667, 1668]	2601	[3227, 4048]	4302	[5370, 5371]	6003	[1706, 5087]
901	[1669, 1670]	2602	[4049, 4050]	4303	[5372, 3837]	6004	[5200, 6502]
902	[1671, 1672]	2603	[4051, 4052]	4304	[5373, 5374]	6005	[1991, 5003]
903	[1673, 1674]	2604	[4053, 4054]	4305	[1684, 1396]	6006	[504, 6503]
904	[1675, 1676]	2605	[4055, 4056]	4306	[3127, 5375]	6007	[735, 2297]
905	[6, 1677]	2606	[4057, 4058]	4307	[5376, 5377]	6008	[5202, 6496]
906	[1213, 1678]	2607	[3667, 4059]	4308	[5375, 5378]	6009	[2581, 598]
907	[1679, 1680]	2608	[4060, 3808]	4309	[5379, 5380]	6010	[6390, 5145]
908	[1681, 1682]	2609	[3567, 4061]	4310	[3919, 5381]	6011	[6482, 4862]
909	[1683, 1544]	2610	[4062, 3778]	4311	[5382, 5383]	6012	[4864, 2483]
910	[311, 1684]	2611	[1591, 4063]	4312	[1658, 5384]	6013	[6425, 9]
911	[1685, 1686]	2612	[4064, 4065]	4313	[2804, 5385]	6014	[6504, 4242]
912	[1687, 1688]	2613	[3851, 1019]	4314	[1403, 3139]	6015	[501, 6490]
913	[1689, 945]	2614	[4066, 2822]	4315	[5386, 5387]	6016	[2567, 5041]
914	[1690, 1691]	2615	[3819, 4067]	4316	[5388, 5389]	6017	[6462, 2121]
915	[1692, 1693]	2616	[2969, 3650]	4317	[3047, 5390]	6018	[4589, 6452]
916	[1694, 1679]	2617	[3831, 4068]	4318	[5228, 5391]	6019	[5073, 4482]
917	[1695, 1170]	2618	[4069, 4070]	4319	[5392, 1144]	6020	[611, 4331]
918	[1696, 1035]	2619	[4014, 4071]	4320	[4042, 5393]	6021	[5102, 812]
919	[1697, 1698]	2620	[4072, 267]	4321	[5394, 5395]	6022	[6429, 4385]
920	[1699, 1694]	2621	[1269, 1661]	4322	[5384, 3577]	6023	[600, 1785]
921	[1700, 1701]	2622	[2887, 3068]	4323	[3440, 5396]	6024	[1850, 6295]
922	[1702, 1703]	2623	[4073, 4074]	4324	[5397, 4072]	6025	[4594, 4664]
923	[1704, 1705]	2624	[3145, 4075]	4325	[1691, 5398]	6026	[4573, 4743]
924	[49, 1706]	2625	[4076, 4077]	4326	[2812, 1461]	6027	[6335, 6386]
925	[1707, 1708]	2626	[4078, 4079]	4327	[1441, 2913]	6028	[533, 1835]
926	[1709, 564]	2627	[4080, 1609]	4328	[5399, 5400]	6029	[5051, 2293]
927	[1710, 1711]	2628	[4081, 4082]	4329	[3929, 5401]	6030	[6485, 4642]
928	[764, 1712]	2629	[1123, 4083]	4330	[3679, 5402]	6031	[892, 6330]
929	[1713, 1714]	2630	[4084, 4085]	4331	[5403, 5404]	6032	[4407, 4799]
930	[238, 1715]	2631	[4086, 1630]	4332	[5405, 5406]	6033	[5064, 4917]
931	[1716, 1717]	2632	[1382, 4087]	4333	[5407, 5408]	6034	[6402, 4399]
932	[1718, 1719]	2633	[1119, 4088]	4334	[1318, 5409]	6035	[6396, 6283]
933	[571, 682]	2634	[3874, 4089]	4335	[3875, 3827]	6036	[582, 618]
934	[1720, 851]	2635	[4090, 3204]	4336	[5410, 3965]	6037	[2550, 6258]
935	[1721, 1722]	2636	[4091, 4092]	4337	[317, 5411]	6038	[4551, 6505]
936	[1723, 659]	2637	[4093, 1429]	4338	[5412, 5413]	6039	[5029, 6506]
937	[889, 1724]	2638	[4094, 2914]	4339	[5414, 3485]	6040	[4931, 1932]
938	[1725, 597]	2639	[4095, 4096]	4340	[5415, 5416]	6041	[6456, 866]
939	[1726, 1727]	2640	[4097, 1023]	4341	[5417, 5418]	6042	[2611, 5019]
940	[1728, 594]	2641	[4098, 3077]	4342	[5419, 1096]	6043	[793, 4872]
941	[133, 1729]	2642	[3382, 2737]	4343	[2929, 2923]	6044	[6466, 6320]

942	[1730, 1731]	2643	[4099, 4100]	4344	[5420, 5421]	6045	[2531, 4829]
943	[1732, 1733]	2644	[4101, 971]	4345	[5422, 2931]	6046	[2422, 1854]
944	[1734, 1735]	2645	[2868, 4102]	4346	[3892, 296]	6047	[2326, 2510]
945	[640, 1736]	2646	[4103, 4104]	4347	[5423, 5424]	6048	[638, 2078]
946	[1737, 1738]	2647	[1506, 1025]	4348	[5425, 1338]	6049	[4885, 5100]
947	[1739, 1740]	2648	[4105, 4106]	4349	[5426, 5427]	6050	[6498, 4342]
948	[1741, 1742]	2649	[2945, 4107]	4350	[5428, 5429]	6051	[6507, 2195]
949	[1743, 1744]	2650	[2744, 4108]	4351	[5430, 453]	6052	[5047, 4428]
950	[1745, 1746]	2651	[1405, 4109]	4352	[5431, 5432]	6053	[5163, 6468]
951	[1747, 1748]	2652	[4110, 4111]	4353	[2928, 1002]	6054	[6339, 1900]
952	[1749, 1750]	2653	[3307, 4112]	4354	[5433, 5434]	6055	[5035, 4758]
953	[1751, 633]	2654	[4113, 4114]	4355	[5435, 5436]	6056	[738, 650]
954	[1752, 1753]	2655	[3761, 4115]	4356	[5437, 5438]	6057	[5182, 6293]
955	[1754, 1755]	2656	[3431, 4116]	4357	[5439, 435]	6058	[4896, 4825]
956	[1756, 1757]	2657	[3977, 4117]	4358	[1664, 5440]	6059	[4530, 600]
957	[908, 240]	2658	[4118, 4119]	4359	[5441, 5442]	6060	[6375, 2083]
958	[1758, 1759]	2659	[4120, 3834]	4360	[3456, 5443]	6061	[6432, 5182]
959	[1760, 1761]	2660	[4121, 3181]	4361	[5444, 5445]	6062	[5116, 4701]
960	[1762, 1763]	2661	[4122, 2713]	4362	[1623, 5446]	6063	[5115, 4305]
961	[1764, 581]	2662	[3748, 4123]	4363	[1112, 5425]	6064	[5000, 2285]
962	[1765, 1766]	2663	[4124, 4125]	4364	[5447, 4103]	6065	[4425, 4887]
963	[1767, 182]	2664	[4108, 4126]	4365	[5448, 5449]	6066	[6415, 4251]
964	[1768, 1769]	2665	[4127, 4128]	4366	[5450, 5451]	6067	[5183, 4933]
965	[1770, 1771]	2666	[3376, 4129]	4367	[4028, 5452]	6068	[4983, 6508]
966	[1772, 1773]	2667	[4130, 4131]	4368	[5453, 5454]	6069	[6326, 2317]
967	[789, 881]	2668	[4132, 3665]	4369	[5455, 5456]	6070	[1770, 6451]
968	[1774, 1775]	2669	[1013, 4133]	4370	[5436, 5457]	6071	[6394, 6470]
969	[1776, 1777]	2670	[4046, 4134]	4371	[3641, 5458]	6072	[1801, 6283]
970	[1778, 884]	2671	[4135, 4136]	4372	[1642, 5346]	6073	[4263, 4876]
971	[1779, 688]	2672	[4137, 3386]	4373	[5459, 3842]	6074	[2418, 5088]
972	[1780, 1781]	2673	[4138, 2905]	4374	[5460, 5461]	6075	[1911, 5181]
973	[1782, 1783]	2674	[3582, 4139]	4375	[5462, 5463]	6076	[2703, 6328]
974	[211, 1784]	2675	[4140, 4141]	4376	[5464, 5465]	6077	[6509, 854]
975	[1785, 1786]	2676	[418, 3267]	4377	[391, 5466]	6078	[4615, 783]
976	[1787, 1788]	2677	[4007, 4142]	4378	[3223, 3880]	6079	[1733, 2419]
977	[1789, 1790]	2678	[4143, 4144]	4379	[3974, 3006]	6080	[2013, 6450]
978	[1791, 836]	2679	[4145, 470]	4380	[5467, 1550]	6081	[567, 914]
979	[1792, 1793]	2680	[1070, 4146]	4381	[3163, 5468]	6082	[2346, 4504]
980	[1794, 1795]	2681	[4147, 4148]	4382	[5469, 5470]	6083	[802, 1879]
981	[1796, 792]	2682	[1339, 3138]	4383	[5471, 5472]	6084	[2489, 5154]
982	[1797, 617]	2683	[4149, 3583]	4384	[3702, 5473]	6085	[4620, 6374]
983	[1798, 1799]	2684	[4150, 4151]	4385	[5474, 5475]	6086	[4910, 2390]
984	[1800, 1801]	2685	[4152, 286]	4386	[5476, 5477]	6087	[6300, 4380]
985	[1802, 1803]	2686	[3857, 4153]	4387	[5478, 5479]	6088	[5050, 810]

986	[1804, 1805]	2687	[1466, 3654]	4388	[5480, 5462]	6089	[6297, 4695]
987	[1806, 1807]	2688	[4154, 4155]	4389	[3841, 119]	6090	[5113, 6510]
988	[1808, 1809]	2689	[4156, 3143]	4390	[3836, 1006]	6091	[241, 4351]
989	[1810, 1811]	2690	[4157, 4158]	4391	[4391, 4391]	6092	[2495, 6253]
990	[1812, 1813]	2691	[3229, 344]	4392	[5273, 2915]	6093	[6511, 6512]
991	[1814, 1815]	2692	[4159, 4160]	4393	[2936, 5481]	6094	[844, 4273]
992	[1816, 1817]	2693	[3720, 4149]	4394	[3475, 1010]	6095	[6423, 6505]
993	[1818, 782]	2694	[4006, 4161]	4395	[3838, 3244]	6096	[6513, 6296]
994	[1819, 1820]	2695	[4162, 4163]	4396	[5347, 290]	6097	[4341, 6499]
995	[1821, 1822]	2696	[4164, 4165]	4397	[5482, 292]	6098	[4716, 4503]
996	[1823, 1824]	2697	[3994, 4166]	4398	[1682, 5483]	6099	[2026, 2482]
997	[1825, 538]	2698	[4167, 1134]	4399	[5263, 5484]	6100	[6379, 6514]
998	[535, 1826]	2699	[4168, 4169]	4400	[349, 5485]	6101	[6414, 6438]
999	[1827, 536]	2700	[2806, 4170]	4401	[395, 2733]	6102	[2605, 6486]
1000	[1828, 1829]	2701	[2808, 4171]	4402	[3180, 3498]	6103	[4602, 2239]
1001	[535, 1830]	2702	[4172, 4173]	4403	[5486, 3274]	6104	[4733, 5090]
1002	[1831, 1832]	2703	[4174, 4175]	4404	[5487, 5488]	6105	[1872, 859]
1003	[1833, 1834]	2704	[2870, 4176]	4405	[5489, 5490]	6106	[1787, 4684]
1004	[1835, 1829]	2705	[4131, 1442]	4406	[5491, 5492]	6107	[4468, 6515]
1005	[1832, 1836]	2706	[2898, 4177]	4407	[5493, 5494]	6108	[548, 2599]
1006	[1834, 1837]	2707	[4178, 4179]	4408	[5495, 5496]	6109	[2223, 8]
1007	[1828, 1838]	2708	[2218, 4180]	4409	[5497, 3628]	6110	[128, 1861]
1008	[1826, 1833]	2709	[4181, 1916]	4410	[5498, 4167]	6111	[736, 4982]
1009	[1839, 1839]	2710	[4182, 4183]	4411	[3922, 5499]	6112	[4355, 4373]
1010	[534, 1840]	2711	[2004, 2662]	4412	[5500, 5501]	6113	[5009, 549]
1011	[1841, 533]	2712	[2047, 4184]	4413	[3017, 5502]	6114	[828, 6495]
1012	[1842, 1843]	2713	[4185, 42]	4414	[3917, 4099]	6115	[2647, 5178]
1013	[1844, 1845]	2714	[4186, 4187]	4415	[5503, 5504]	6116	[2512, 4403]
1014	[1846, 606]	2715	[4188, 4189]	4416	[3523, 2800]	6117	[1734, 4281]
1015	[37, 1847]	2716	[4190, 808]	4417	[1227, 5363]	6118	[4850, 2346]
1016	[1848, 1849]	2717	[2231, 1935]	4418	[3801, 5505]	6119	[783, 4974]
1017	[1850, 1851]	2718	[4191, 2042]	4419	[3508, 5324]	6120	[4993, 4615]
1018	[1852, 1853]	2719	[2022, 1970]	4420	[922, 3123]	6121	[1977, 8]
1019	[186, 1854]	2720	[152, 886]	4421	[5506, 3381]	6122	[4656, 5013]
1020	[564, 1855]	2721	[837, 4192]	4422	[5378, 3630]	6123	[221, 6516]
1021	[918, 1856]	2722	[544, 497]	4423	[5507, 3868]	6124	[4663, 1796]
1022	[1857, 1858]	2723	[4193, 4194]	4424	[3322, 5284]	6125	[4610, 6407]
1023	[1726, 1859]	2724	[4195, 4196]	4425	[5508, 3032]	6126	[6435, 883]
1024	[1860, 1861]	2725	[604, 51]	4426	[5509, 4066]	6127	[6475, 6510]
1025	[1862, 1863]	2726	[4197, 4198]	4427	[4089, 5510]	6128	[1758, 6401]
1026	[1864, 1865]	2727	[2301, 2562]	4428	[3424, 5511]	6129	[6411, 6342]
1027	[895, 1866]	2728	[4199, 4200]	4429	[5512, 949]	6130	[6483, 4865]
1028	[189, 1867]	2729	[4201, 4202]	4430	[5374, 5513]	6131	[860, 1750]
1029	[1868, 1869]	2730	[4203, 4204]	4431	[5514, 5515]	6132	[1846, 2472]

1030	[1870, 1871]	2731	[4205, 4206]	4432	[28, 5516]	6133	[4301, 4504]
1031	[228, 1872]	2732	[511, 4207]	4433	[5517, 5518]	6134	[4963, 1959]
1032	[1873, 1874]	2733	[757, 2214]	4434	[5519, 5520]	6135	[6277, 6417]
1033	[1875, 1876]	2734	[759, 4208]	4435	[3113, 3112]	6136	[4770, 6517]
1034	[1877, 1878]	2735	[2640, 194]	4436	[3066, 372]	6137	[6518, 2494]
1035	[1879, 1880]	2736	[4209, 4210]	4437	[5521, 4143]	6138	[2020, 6362]
1036	[1881, 1882]	2737	[2103, 4211]	4438	[5522, 5523]	6139	[4282, 4602]
1037	[1883, 1884]	2738	[4212, 4213]	4439	[5524, 5525]	6140	[4828, 2532]
1038	[1885, 1886]	2739	[2690, 4214]	4440	[5526, 1366]	6141	[6519, 4931]
1039	[1887, 1888]	2740	[2510, 2480]	4441	[1519, 5527]	6142	[4638, 4843]
1040	[1889, 1890]	2741	[4215, 761]	4442	[5271, 3889]	6143	[6520, 6514]
1041	[1891, 1892]	2742	[4216, 1873]	4443	[5528, 4011]	6144	[5201, 4926]
1042	[1893, 1894]	2743	[1998, 4217]	4444	[5529, 5530]	6145	[546, 646]
1043	[1887, 1895]	2744	[4218, 893]	4445	[5531, 3401]	6146	[4329, 4709]
1044	[1896, 1897]	2745	[2428, 4219]	4446	[3886, 5532]	6147	[4352, 2032]
1045	[1898, 1899]	2746	[4220, 4221]	4447	[5533, 3455]	6148	[2359, 4893]
1046	[1900, 1901]	2747	[2652, 4222]	4448	[5534, 5535]	6149	[2139, 2206]
1047	[689, 720]	2748	[4223, 902]	4449	[459, 5536]	6150	[6339, 2229]
1048	[1902, 1903]	2749	[4224, 1906]	4450	[3072, 361]	6151	[2351, 643]
1049	[715, 1904]	2750	[4225, 4200]	4451	[5537, 5538]	6152	[6433, 2131]
1050	[1905, 162]	2751	[611, 4226]	4452	[5539, 3944]	6153	[2108, 2526]
1051	[903, 1906]	2752	[4227, 2695]	4453	[5540, 3012]	6154	[5020, 1818]
1052	[1907, 1908]	2753	[4228, 4229]	4454	[5541, 1307]	6155	[1858, 6323]
1053	[1909, 1910]	2754	[2447, 2686]	4455	[5542, 1220]	6156	[4579, 4749]
1054	[1911, 1912]	2755	[1981, 4230]	4456	[5543, 5544]	6157	[4942, 6314]
1055	[1913, 1914]	2756	[4231, 4188]	4457	[5545, 3061]	6158	[1701, 6488]
1056	[1915, 1916]	2757	[4232, 2486]	4458	[5546, 330]	6159	[872, 6521]
1057	[1917, 666]	2758	[4233, 2484]	4459	[5547, 3767]	6160	[4450, 5059]
1058	[1918, 568]	2759	[4234, 4235]	4460	[3574, 5548]	6161	[4242, 4216]
1059	[760, 1919]	2760	[4236, 2477]	4461	[5549, 5550]	6162	[4403, 4849]
1060	[1857, 1920]	2761	[4237, 62]	4462	[5551, 3735]	6163	[6440, 6522]
1061	[210, 1921]	2762	[515, 181]	4463	[5552, 3437]	6164	[5047, 1986]
1062	[1922, 1923]	2763	[780, 2277]	4464	[5553, 5554]	6165	[1729, 1902]
1063	[1924, 1925]	2764	[4238, 829]	4465	[3991, 5555]	6166	[4628, 4533]
1064	[1926, 1927]	2765	[4239, 4240]	4466	[5548, 2999]	6167	[4330, 6408]
1065	[836, 1928]	2766	[4241, 4242]	4467	[1578, 5556]	6168	[2378, 6463]
1066	[540, 1929]	2767	[4243, 4244]	4468	[5557, 5558]	6169	[6500, 4733]
1067	[1930, 1931]	2768	[4245, 4246]	4469	[5259, 5559]	6170	[6256, 6311]
1068	[208, 144]	2769	[4247, 625]	4470	[2980, 5560]	6171	[4470, 6404]
1069	[1932, 719]	2770	[4248, 4249]	4471	[5561, 5562]	6172	[4934, 5110]
1070	[1933, 1934]	2771	[4250, 4251]	4472	[5563, 5564]	6173	[4334, 6370]
1071	[1935, 1936]	2772	[4252, 4253]	4473	[5565, 1481]	6174	[1824, 6406]
1072	[839, 1937]	2773	[4254, 1913]	4474	[5566, 5567]	6175	[6507, 4697]
1073	[1938, 1939]	2774	[505, 2469]	4475	[5568, 5569]	6176	[4224, 904]

1074	[833, 1940]	2775	[617, 583]	4476	[3315, 3432]	6177	[6520, 6380]
1075	[1941, 1921]	2776	[2310, 4255]	4477	[5570, 5571]	6178	[2241, 2402]
1076	[1942, 1943]	2777	[4256, 4257]	4478	[5572, 5573]	6179	[4710, 2685]
1077	[1944, 136]	2778	[4258, 4259]	4479	[5574, 269]	6180	[2050, 2541]
1078	[1945, 1946]	2779	[4260, 617]	4480	[1401, 5575]	6181	[6325, 5083]
1079	[1947, 580]	2780	[4261, 2310]	4481	[5576, 5577]	6182	[4984, 4516]
1080	[1948, 167]	2781	[601, 4262]	4482	[5578, 3136]	6183	[4577, 6354]
1081	[1949, 1950]	2782	[775, 4263]	4483	[1253, 3992]	6184	[5195, 6512]
1082	[1951, 1952]	2783	[4264, 1729]	4484	[4107, 5579]	6185	[2253, 6523]
1083	[1953, 130]	2784	[2424, 4265]	4485	[5580, 5581]	6186	[4966, 614]
1084	[170, 1954]	2785	[2165, 2649]	4486	[5582, 5583]	6187	[4281, 6524]
1085	[1955, 1956]	2786	[2005, 1722]	4487	[1280, 336]	6188	[703, 6363]
1086	[1957, 1958]	2787	[4266, 4267]	4488	[3162, 298]	6189	[2606, 6503]
1087	[1959, 1960]	2788	[1907, 4268]	4489	[5584, 1232]	6190	[645, 6397]
1088	[1961, 1962]	2789	[2296, 736]	4490	[3389, 2970]	6191	[2289, 5109]
1089	[1963, 153]	2790	[2692, 2079]	4491	[2828, 5585]	6192	[4383, 6525]
1090	[1964, 1965]	2791	[4269, 2074]	4492	[1393, 5586]	6193	[2536, 4990]
1091	[789, 1966]	2792	[4270, 1856]	4493	[5587, 3011]	6194	[6526, 6368]
1092	[1967, 861]	2793	[4271, 858]	4494	[5588, 5589]	6195	[4221, 4911]
1093	[1968, 743]	2794	[2521, 4272]	4495	[1554, 5590]	6196	[614, 729]
1094	[1969, 1970]	2795	[715, 4273]	4496	[5398, 5591]	6197	[2565, 822]
1095	[494, 1936]	2796	[1805, 4274]	4497	[5592, 3406]	6198	[2313, 2154]
1096	[1971, 1972]	2797	[4275, 873]	4498	[5593, 5594]	6199	[593, 2325]
1097	[1973, 1974]	2798	[4276, 4277]	4499	[335, 3352]	6200	[2029, 502]
1098	[1975, 1976]	2799	[4278, 4279]	4500	[5595, 5596]	6201	[5037, 6288]
1099	[1977, 1978]	2800	[4280, 4281]	4501	[5597, 3254]	6202	[2002, 2382]
1100	[1979, 718]	2801	[4282, 2238]	4502	[5598, 3152]	6203	[5186, 6527]
1101	[1980, 1981]	2802	[4283, 2357]	4503	[5599, 3398]	6204	[4820, 2446]
1102	[1982, 1983]	2803	[4284, 2698]	4504	[3716, 5600]	6205	[4913, 4671]
1103	[1984, 1985]	2804	[1931, 4285]	4505	[5369, 5601]	6206	[2282, 4202]
1104	[712, 846]	2805	[2175, 4286]	4506	[5274, 1632]	6207	[619, 4269]
1105	[1986, 1987]	2806	[1917, 4287]	4507	[3405, 5602]	6208	[6501, 6362]
1106	[1988, 1989]	2807	[2665, 4288]	4508	[5603, 5604]	6209	[4618, 787]
1107	[549, 1990]	2808	[4289, 2173]	4509	[5605, 5606]	6210	[4558, 6400]
1108	[1991, 800]	2809	[4290, 4291]	4510	[3237, 5607]	6211	[6504, 5115]
1109	[1992, 1993]	2810	[4292, 4293]	4511	[5608, 5609]	6212	[2623, 1874]
1110	[1994, 1995]	2811	[2501, 208]	4512	[3379, 5610]	6213	[2008, 2647]
1111	[1996, 1997]	2812	[4294, 2457]	4513	[5611, 3522]	6214	[4958, 34]
1112	[1998, 1999]	2813	[4295, 539]	4514	[1167, 5500]	6215	[5061, 4902]
1113	[183, 2000]	2814	[2061, 2552]	4515	[5612, 5539]	6216	[2100, 6352]
1114	[2001, 1897]	2815	[2269, 4296]	4516	[5613, 1536]	6217	[4516, 4487]
1115	[2002, 2003]	2816	[1994, 4297]	4517	[5614, 5615]	6218	[2287, 6528]
1116	[2004, 653]	2817	[4298, 4299]	4518	[5616, 5617]	6219	[4849, 4732]
1117	[2005, 2006]	2818	[4300, 2201]	4519	[5618, 5619]	6220	[2240, 6366]

1118	[1966, 882]	2819	[4301, 4302]	4520	[2803, 4026]	6221	[4430, 128]
1119	[1921, 1784]	2820	[916, 768]	4521	[3094, 433]	6222	[4903, 4262]
1120	[895, 570]	2821	[4303, 4304]	4522	[1419, 5620]	6223	[4879, 1763]
1121	[1707, 2007]	2822	[588, 684]	4523	[5621, 5467]	6224	[2059, 4381]
1122	[2008, 1843]	2823	[4305, 1873]	4524	[5622, 5623]	6225	[1896, 6427]
1123	[2009, 2010]	2824	[4218, 607]	4525	[3990, 1546]	6226	[4384, 6430]
1124	[1929, 2011]	2825	[149, 4306]	4526	[5624, 3327]	6227	[2656, 4976]
1125	[2012, 2013]	2826	[4234, 4307]	4527	[5377, 5625]	6228	[624, 6491]
1126	[2014, 2015]	2827	[4308, 2107]	4528	[5601, 3451]	6229	[6275, 5093]
1127	[2016, 2017]	2828	[4309, 2098]	4529	[5626, 443]	6230	[2431, 4435]
1128	[2018, 2019]	2829	[4310, 4311]	4530	[5627, 445]	6231	[5158, 6497]
1129	[2020, 1909]	2830	[4312, 2679]	4531	[3987, 5628]	6232	[5153, 2490]
1130	[2021, 1988]	2831	[4313, 4257]	4532	[4136, 5629]	6233	[6529, 709]
1131	[2022, 2023]	2832	[2682, 4314]	4533	[3447, 5630]	6234	[2132, 6459]
1132	[2024, 2025]	2833	[4315, 4316]	4534	[5631, 3413]	6235	[6526, 6476]
1133	[2026, 2027]	2834	[2432, 2542]	4535	[5632, 5633]	6236	[2178, 4220]
1134	[2028, 2029]	2835	[4317, 4318]	4536	[1094, 4037]	6237	[1854, 2388]
1135	[2030, 2031]	2836	[4319, 2049]	4537	[5634, 5635]	6238	[863, 2337]
1136	[2032, 695]	2837	[799, 2276]	4538	[5636, 5637]	6239	[58, 4268]
1137	[2033, 2034]	2838	[697, 2124]	4539	[5638, 3150]	6240	[2372, 2016]
1138	[2035, 2036]	2839	[2635, 2000]	4540	[5501, 5219]	6241	[6443, 6530]
1139	[2037, 493]	2840	[4320, 4321]	4541	[5639, 1348]	6242	[6531, 530]
1140	[2038, 2039]	2841	[2679, 4322]	4542	[5640, 5641]	6243	[6532, 1252]
1141	[885, 2040]	2842	[4323, 1714]	4543	[4017, 4145]	6244	[3308, 6533]
1142	[712, 2041]	2843	[4324, 4325]	4544	[5642, 5643]	6245	[1072, 6534]
1143	[2042, 2043]	2844	[2212, 43]	4545	[5644, 5645]	6246	[6535, 1323]
1144	[2044, 2045]	2845	[853, 4326]	4546	[5646, 5647]	6247	[3933, 6536]
1145	[2046, 1775]	2846	[915, 4327]	4547	[5648, 3608]	6248	[6537, 109]
1146	[2047, 2048]	2847	[181, 825]	4548	[5649, 2882]	6249	[6228, 6538]
1147	[2049, 225]	2848	[4328, 2322]	4549	[1199, 1628]	6250	[3353, 5979]
1148	[2050, 2051]	2849	[822, 501]	4550	[5650, 5651]	6251	[6539, 6540]
1149	[2052, 2053]	2850	[2180, 237]	4551	[5652, 5653]	6252	[1036, 5382]
1150	[2054, 2055]	2851	[4329, 54]	4552	[5654, 5655]	6253	[6541, 3848]
1151	[753, 2056]	2852	[1988, 1927]	4553	[1485, 5656]	6254	[6542, 2895]
1152	[1757, 2057]	2853	[4330, 4293]	4554	[1176, 3200]	6255	[3510, 6543]
1153	[2058, 2059]	2854	[1712, 4331]	4555	[5657, 5658]	6256	[966, 6544]
1154	[499, 2060]	2855	[4332, 4333]	4556	[2708, 5659]	6257	[3517, 5911]
1155	[709, 1924]	2856	[4334, 4335]	4557	[3530, 5660]	6258	[6545, 3331]
1156	[2061, 1777]	2857	[4336, 2108]	4558	[3659, 5661]	6259	[5577, 6546]
1157	[2062, 2036]	2858	[4337, 4338]	4559	[5641, 1433]	6260	[4070, 6547]
1158	[1774, 55]	2859	[649, 4339]	4560	[3345, 3818]	6261	[1203, 263]
1159	[2063, 1721]	2860	[4340, 2105]	4561	[1491, 1386]	6262	[6018, 1200]
1160	[695, 2064]	2861	[1997, 2071]	4562	[5662, 3623]	6263	[5221, 3812]
1161	[2065, 693]	2862	[4341, 4342]	4563	[5663, 3462]	6264	[1674, 2784]

1162	[539, 1943]	2863	[2493, 1963]	4564	[5664, 5665]	6265	[5457, 3318]
1163	[2066, 2067]	2864	[4343, 537]	4565	[5666, 5667]	6266	[6548, 6549]
1164	[2068, 671]	2865	[1832, 4344]	4566	[5668, 1587]	6267	[6550, 5509]
1165	[2069, 2070]	2866	[532, 4345]	4567	[1480, 2994]	6268	[6551, 6552]
1166	[2071, 2072]	2867	[2453, 157]	4568	[2826, 29]	6269	[5661, 6553]
1167	[2073, 1817]	2868	[4346, 4347]	4569	[5669, 1130]	6270	[5731, 6554]
1168	[620, 2074]	2869	[4348, 1882]	4570	[5670, 4174]	6271	[3710, 6555]
1169	[781, 2075]	2870	[2627, 2261]	4571	[3595, 1063]	6272	[6556, 5761]
1170	[2076, 2077]	2871	[4349, 4350]	4572	[3335, 5671]	6273	[5527, 1492]
1171	[2078, 1768]	2872	[2113, 4351]	4573	[3393, 5672]	6274	[6533, 6557]
1172	[2079, 2080]	2873	[4352, 2414]	4574	[5673, 5674]	6275	[5738, 6558]
1173	[693, 2081]	2874	[1829, 4353]	4575	[104, 3970]	6276	[5916, 6559]
1174	[2082, 2083]	2875	[1841, 4345]	4576	[1447, 5675]	6277	[6560, 6561]
1175	[770, 721]	2876	[1834, 534]	4577	[5676, 2911]	6278	[6562, 6563]
1176	[616, 2084]	2877	[2663, 2193]	4578	[3117, 5309]	6279	[3853, 3562]
1177	[2085, 2086]	2878	[1964, 145]	4579	[5590, 2846]	6280	[5651, 6564]
1178	[2087, 1759]	2879	[1778, 4354]	4580	[5677, 3055]	6281	[1298, 3161]
1179	[2088, 2089]	2880	[4355, 2288]	4581	[5357, 5678]	6282	[6565, 1579]
1180	[2090, 2091]	2881	[4356, 4357]	4582	[5679, 5680]	6283	[2919, 6028]
1181	[2092, 2093]	2882	[4358, 848]	4583	[5681, 5682]	6284	[16, 6566]
1182	[2094, 2095]	2883	[2515, 4359]	4584	[3844, 2818]	6285	[3947, 5474]
1183	[147, 1923]	2884	[4360, 2273]	4585	[5683, 5684]	6286	[3671, 6567]
1184	[2096, 2097]	2885	[4361, 2443]	4586	[5685, 5686]	6287	[6568, 6569]
1185	[508, 2098]	2886	[4362, 4363]	4587	[3664, 1248]	6288	[5918, 6570]
1186	[2099, 2100]	2887	[854, 590]	4588	[5687, 3141]	6289	[6571, 6080]
1187	[2101, 2102]	2888	[2388, 4364]	4589	[1660, 5688]	6290	[1452, 2754]
1188	[2103, 2043]	2889	[4365, 2280]	4590	[3759, 5689]	6291	[5633, 2978]
1189	[2104, 2105]	2890	[574, 4252]	4591	[5690, 5691]	6292	[6572, 3712]
1190	[2106, 2107]	2891	[4366, 1995]	4592	[1330, 4140]	6293	[5567, 6573]
1191	[2108, 2109]	2892	[4367, 4368]	4593	[3221, 5692]	6294	[6214, 6115]
1192	[2051, 2110]	2893	[876, 4369]	4594	[5693, 1073]	6295	[4161, 3940]
1193	[793, 2111]	2894	[2223, 1978]	4595	[5391, 5694]	6296	[6574, 3105]
1194	[2112, 2086]	2895	[4370, 4371]	4596	[5513, 2758]	6297	[5445, 5644]
1195	[2113, 242]	2896	[4372, 4373]	4597	[3711, 4147]	6298	[471, 6575]
1196	[2114, 2115]	2897	[4374, 4375]	4598	[5695, 4162]	6299	[6128, 6576]
1197	[2116, 247]	2898	[4376, 2589]	4599	[5696, 5533]	6300	[3826, 6577]
1198	[2117, 2118]	2899	[2365, 2457]	4600	[1426, 5314]	6301	[5974, 6578]
1199	[2119, 2120]	2900	[2234, 4377]	4601	[5697, 3048]	6302	[6579, 5239]
1200	[2121, 2122]	2901	[2065, 156]	4602	[3644, 991]	6303	[6094, 6580]
1201	[2123, 2124]	2902	[198, 2234]	4603	[5698, 5685]	6304	[6581, 328]
1202	[2125, 515]	2903	[1863, 1928]	4604	[5278, 5699]	6305	[6582, 6583]
1203	[2126, 2118]	2904	[4378, 2122]	4605	[3126, 5700]	6306	[6584, 6585]
1204	[2127, 2128]	2905	[1941, 211]	4606	[1618, 5701]	6307	[6586, 941]
1205	[2129, 646]	2906	[837, 2412]	4607	[5702, 3494]	6308	[3553, 6587]

1206	[2130, 2131]	2907	[4379, 4380]	4608	[5703, 5704]	6309	[6588, 6138]
1207	[2132, 2133]	2908	[1744, 4381]	4609	[5705, 5706]	6310	[5842, 6589]
1208	[2134, 2135]	2909	[4382, 4383]	4610	[5667, 5707]	6311	[3983, 1414]
1209	[2136, 2137]	2910	[4384, 4385]	4611	[5536, 1509]	6312	[5559, 6590]
1210	[2138, 2139]	2911	[4386, 905]	4612	[5708, 5709]	6313	[1676, 6591]
1211	[2140, 2141]	2912	[4387, 4388]	4613	[5710, 5711]	6314	[6592, 6593]
1212	[2142, 917]	2913	[2271, 4389]	4614	[1584, 79]	6315	[6594, 402]
1213	[43, 2143]	2914	[2343, 37]	4615	[5712, 3785]	6316	[6595, 6131]
1214	[2144, 2145]	2915	[536, 1831]	4616	[1686, 5713]	6317	[2942, 6596]
1215	[634, 2146]	2916	[4390, 534]	4617	[3779, 5576]	6318	[6597, 6598]
1216	[2147, 2148]	2917	[531, 1841]	4618	[1074, 5534]	6319	[469, 3780]
1217	[2149, 2150]	2918	[1839, 4391]	4619	[5714, 5715]	6320	[5831, 1531]
1218	[915, 2151]	2919	[537, 4392]	4620	[5716, 5717]	6321	[6573, 3715]
1219	[798, 779]	2920	[4390, 1837]	4621	[5718, 5719]	6322	[5863, 2838]
1220	[2152, 53]	2921	[4393, 4390]	4622	[999, 2927]	6323	[2837, 6237]
1221	[2153, 2154]	2922	[4392, 4344]	4623	[5720, 1446]	6324	[5671, 6599]
1222	[2155, 2156]	2923	[533, 1828]	4624	[291, 3086]	6325	[1672, 6600]
1223	[2157, 2158]	2924	[1826, 4393]	4625	[5260, 2979]	6326	[6601, 5624]
1224	[759, 2159]	2925	[537, 1832]	4626	[3809, 5721]	6327	[5290, 476]
1225	[2120, 2160]	2926	[1837, 535]	4627	[3911, 5722]	6328	[5406, 6602]
1226	[823, 609]	2927	[4343, 1831]	4628	[5723, 5724]	6329	[6563, 5251]
1227	[2161, 2162]	2928	[1830, 1833]	4629	[5725, 5726]	6330	[6603, 340]
1228	[2163, 2164]	2929	[1840, 1826]	4630	[5371, 1288]	6331	[6231, 6604]
1229	[2165, 2166]	2930	[1827, 4343]	4631	[5727, 5728]	6332	[3765, 6605]
1230	[2167, 202]	2931	[1838, 531]	4632	[5729, 1548]	6333	[3074, 6606]
1231	[2168, 2169]	2932	[4394, 4343]	4633	[5730, 5731]	6334	[6607, 6608]
1232	[2114, 2170]	2933	[1829, 531]	4634	[3333, 4084]	6335	[6609, 6610]
1233	[183, 230]	2934	[4345, 1835]	4635	[2712, 5732]	6336	[6611, 3672]
1234	[2171, 189]	2935	[4392, 1836]	4636	[5310, 5433]	6337	[3142, 5986]
1235	[2172, 1814]	2936	[4344, 4394]	4637	[5733, 5734]	6338	[3217, 939]
1236	[175, 2173]	2937	[2542, 4395]	4638	[1015, 3613]	6339	[6612, 4168]
1237	[2122, 636]	2938	[4396, 4397]	4639	[3864, 3541]	6340	[6613, 6614]
1238	[914, 2174]	2939	[4398, 4399]	4640	[1146, 2825]	6341	[6615, 6616]
1239	[2079, 2175]	2940	[2391, 2178]	4641	[4075, 1574]	6342	[6617, 3518]
1240	[2176, 2177]	2941	[1853, 2432]	4642	[5732, 5735]	6343	[2991, 6132]
1241	[2178, 2179]	2942	[2311, 4400]	4643	[5736, 5737]	6344	[6618, 6619]
1242	[2158, 2180]	2943	[835, 4401]	4644	[2720, 5738]	6345	[5920, 3856]
1243	[2181, 2182]	2944	[648, 839]	4645	[1052, 3747]	6346	[6620, 3334]
1244	[2183, 2184]	2945	[2480, 2441]	4646	[1678, 1059]	6347	[5686, 6621]
1245	[2185, 2186]	2946	[4402, 4403]	4647	[5739, 4105]	6348	[1462, 6622]
1246	[591, 2187]	2947	[2092, 701]	4648	[3973, 3652]	6349	[5794, 6046]
1247	[2188, 177]	2948	[4404, 4405]	4649	[3248, 3597]	6350	[6564, 300]
1248	[2189, 165]	2949	[2185, 4406]	4650	[5740, 1690]	6351	[5892, 5991]
1249	[2190, 2015]	2950	[4407, 4408]	4651	[461, 1636]	6352	[5864, 6623]

1250	[1968, 656]	2951	[2404, 2282]	4652	[4148, 3026]	6353	[3488, 6624]
1251	[710, 2191]	2952	[2407, 4409]	4653	[5741, 5742]	6354	[6625, 6626]
1252	[2192, 715]	2953	[2494, 153]	4654	[5722, 27]	6355	[6627, 2893]
1253	[2193, 2194]	2954	[2416, 1988]	4655	[5743, 5744]	6356	[3317, 6628]
1254	[2195, 544]	2955	[4410, 4284]	4656	[4160, 5397]	6357	[3603, 5745]
1255	[840, 2034]	2956	[2561, 212]	4657	[5745, 5746]	6358	[6026, 5540]
1256	[2196, 881]	2957	[153, 4411]	4658	[934, 1268]	6359	[6629, 6630]
1257	[2037, 2197]	2958	[654, 4412]	4659	[5747, 1359]	6360	[6606, 6631]
1258	[896, 2198]	2959	[1890, 4413]	4660	[5748, 5749]	6361	[6632, 6633]
1259	[669, 2199]	2960	[4414, 4415]	4661	[5750, 5751]	6362	[6634, 1085]
1260	[2200, 1855]	2961	[4303, 2329]	4662	[1648, 5752]	6363	[1413, 6565]
1261	[2201, 2202]	2962	[2574, 35]	4663	[5753, 4101]	6364	[6635, 6636]
1262	[2203, 2204]	2963	[4215, 1919]	4664	[5754, 5447]	6365	[952, 6637]
1263	[2205, 2206]	2964	[46, 591]	4665	[5755, 5756]	6366	[5775, 6638]
1264	[2207, 2208]	2965	[4416, 675]	4666	[5757, 1445]	6367	[3746, 6639]
1265	[2209, 818]	2966	[2140, 4417]	4667	[5758, 3723]	6368	[1528, 6640]
1266	[230, 2210]	2967	[1779, 4418]	4668	[420, 5759]	6369	[5292, 6641]
1267	[2211, 2212]	2968	[1939, 4419]	4669	[1594, 5760]	6370	[6033, 3632]
1268	[682, 2213]	2969	[493, 4420]	4670	[5761, 253]	6371	[6630, 6642]
1269	[2214, 2126]	2970	[4421, 2214]	4671	[5762, 3205]	6372	[4096, 5702]
1270	[1959, 2215]	2971	[4422, 2404]	4672	[5763, 1016]	6373	[5783, 6643]
1271	[213, 2216]	2972	[1870, 4423]	4673	[5764, 5681]	6374	[5413, 6644]
1272	[552, 2217]	2973	[839, 4339]	4674	[5765, 3107]	6375	[6645, 1649]
1273	[2218, 1806]	2974	[4424, 4388]	4675	[5766, 5469]	6376	[6622, 6646]
1274	[2219, 2203]	2975	[4425, 4426]	4676	[3035, 5767]	6377	[484, 6647]
1275	[2220, 2221]	2976	[2448, 4427]	4677	[5768, 5769]	6378	[1195, 6648]
1276	[2222, 2223]	2977	[4428, 1987]	4678	[5770, 5668]	6379	[3373, 3548]
1277	[2224, 2225]	2978	[2697, 4429]	4679	[962, 5771]	6380	[4068, 1332]
1278	[2226, 2227]	2979	[4430, 1860]	4680	[5772, 3546]	6381	[6649, 6650]
1279	[2228, 2229]	2980	[2323, 4431]	4681	[5773, 3089]	6382	[5481, 6651]
1280	[2230, 654]	2981	[4432, 2550]	4682	[5774, 5775]	6383	[6652, 6653]
1281	[2231, 494]	2982	[2650, 2663]	4683	[3041, 255]	6384	[4038, 6654]
1282	[2232, 2233]	2983	[4433, 4434]	4684	[5776, 5777]	6385	[2996, 1228]
1283	[2234, 2235]	2984	[4435, 1801]	4685	[5778, 5528]	6386	[6655, 3030]
1284	[1721, 2006]	2985	[1706, 4436]	4686	[3682, 5237]	6387	[6656, 6657]
1285	[2236, 2237]	2986	[4437, 4438]	4687	[5294, 3288]	6388	[6658, 6119]
1286	[2238, 2239]	2987	[2188, 2521]	4688	[5779, 5780]	6389	[6590, 3585]
1287	[2240, 706]	2988	[4439, 4440]	4689	[5781, 5493]	6390	[5637, 6659]
1288	[584, 1997]	2989	[4441, 1858]	4690	[5782, 1654]	6391	[5617, 6660]
1289	[38, 2241]	2990	[4442, 1846]	4691	[2852, 5783]	6392	[5231, 460]
1290	[2242, 636]	2991	[2329, 4443]	4692	[1276, 1164]	6393	[6651, 2930]
1291	[2243, 1859]	2992	[1775, 56]	4693	[5784, 3529]	6394	[4146, 6661]
1292	[907, 1954]	2993	[2368, 514]	4694	[5277, 283]	6395	[463, 6662]
1293	[737, 691]	2994	[4444, 4445]	4695	[5726, 5785]	6396	[2926, 5420]

1294	[2244, 2245]	2995	[142, 4446]	4696	[5786, 5787]	6397	[3213, 1363]
1295	[912, 2246]	2996	[4447, 2165]	4697	[5788, 5789]	6398	[5759, 6663]
1296	[2198, 2247]	2997	[4448, 4449]	4698	[3931, 3526]	6399	[3383, 6096]
1297	[1815, 568]	2998	[4450, 4451]	4699	[3313, 5790]	6400	[3420, 5788]
1298	[585, 663]	2999	[4217, 2374]	4700	[1108, 5791]	6401	[6664, 485]
1299	[2248, 2249]	3000	[4452, 2341]	4701	[5792, 5683]	6402	[6577, 6665]
1300	[2250, 2251]	3001	[822, 2029]	4702	[964, 5793]	6403	[1178, 6666]
1301	[2252, 1708]	3002	[4421, 2320]	4703	[5219, 5794]	6404	[2982, 6667]
1302	[916, 914]	3003	[2252, 2007]	4704	[3504, 1373]	6405	[6668, 1325]
1303	[2253, 2254]	3004	[4453, 4454]	4705	[5795, 5796]	6406	[2912, 5835]
1304	[2255, 50]	3005	[2009, 4455]	4706	[5797, 3476]	6407	[6669, 6670]
1305	[2256, 2079]	3006	[4456, 2097]	4707	[5798, 5799]	6408	[6239, 6586]
1306	[2111, 2257]	3007	[4457, 4458]	4708	[5800, 5318]	6409	[6650, 961]
1307	[2258, 691]	3008	[4459, 709]	4709	[1129, 5801]	6410	[978, 6671]
1308	[2259, 2260]	3009	[207, 4460]	4710	[926, 3863]	6411	[6672, 4076]
1309	[2261, 2262]	3010	[4461, 4462]	4711	[5538, 5802]	6412	[6673, 281]
1310	[220, 2263]	3011	[4463, 4214]	4712	[5351, 5803]	6413	[3124, 3816]
1311	[2264, 2265]	3012	[1821, 4464]	4713	[5804, 2788]	6414	[1347, 3290]
1312	[2266, 2267]	3013	[4324, 4465]	4714	[5805, 5806]	6415	[3467, 4034]
1313	[2268, 2269]	3014	[2427, 2062]	4715	[3543, 5807]	6416	[4001, 6674]
1314	[2270, 1965]	3015	[750, 559]	4716	[5808, 3850]	6417	[6675, 5888]
1315	[2062, 1782]	3016	[4466, 219]	4717	[5809, 5810]	6418	[5873, 2904]
1316	[1967, 2271]	3017	[2347, 2702]	4718	[5811, 5812]	6419	[3328, 5809]
1317	[2272, 2273]	3018	[677, 4467]	4719	[3137, 5813]	6420	[6676, 3170]
1318	[2274, 246]	3019	[4468, 216]	4720	[3326, 5814]	6421	[5737, 5764]
1319	[2275, 44]	3020	[4469, 193]	4721	[1575, 3687]	6422	[5609, 6677]
1320	[249, 2116]	3021	[1869, 4470]	4722	[2847, 3380]	6423	[3266, 6678]
1321	[2276, 2277]	3022	[196, 4409]	4723	[5815, 5816]	6424	[6679, 6680]
1322	[2278, 1918]	3023	[4471, 4472]	4724	[1668, 5817]	6425	[6681, 3222]
1323	[2279, 2280]	3024	[2399, 2109]	4725	[5818, 5811]	6426	[3629, 6682]
1324	[2281, 2282]	3025	[4473, 790]	4726	[5589, 392]	6427	[3466, 6683]
1325	[2283, 708]	3026	[2580, 2449]	4727	[5402, 5819]	6428	[1322, 1057]
1326	[2284, 2285]	3027	[132, 791]	4728	[2998, 5820]	6429	[1677, 6684]
1327	[2286, 2287]	3028	[4474, 2069]	4729	[5821, 77]	6430	[928, 3575]
1328	[2288, 2289]	3029	[4475, 9]	4730	[5822, 3216]	6431	[6092, 6685]
1329	[2290, 2291]	3030	[4476, 4477]	4731	[5823, 3052]	6432	[90, 5703]
1330	[2292, 2293]	3031	[4478, 2067]	4732	[3951, 4135]	6433	[5535, 6686]
1331	[2294, 2295]	3032	[41, 4479]	4733	[5824, 5825]	6434	[6687, 6688]
1332	[2296, 2297]	3033	[4480, 2360]	4734	[1037, 1206]	6435	[5585, 6568]
1333	[2298, 2055]	3034	[2281, 4201]	4735	[5826, 5827]	6436	[6689, 6690]
1334	[2299, 2300]	3035	[4481, 4482]	4736	[5828, 1093]	6437	[6691, 2816]
1335	[2301, 2302]	3036	[739, 785]	4737	[434, 1553]	6438	[5844, 352]
1336	[2303, 32]	3037	[1786, 4483]	4738	[3959, 3692]	6439	[1539, 3744]
1337	[2304, 2305]	3038	[4484, 4485]	4739	[5656, 5829]	6440	[3999, 6692]

1338	[1999, 2306]	3039	[516, 758]	4740	[5830, 5831]	6441	[6693, 6694]
1339	[2307, 38]	3040	[4486, 4423]	4741	[5832, 5547]	6442	[6695, 6696]
1340	[2308, 2309]	3041	[829, 4252]	4742	[5833, 3550]	6443	[6697, 6698]
1341	[1702, 2310]	3042	[4487, 628]	4743	[5744, 5834]	6444	[6699, 5471]
1342	[2311, 2312]	3043	[4488, 4489]	4744	[5835, 382]	6445	[5976, 5311]
1343	[2313, 2314]	3044	[636, 4490]	4745	[18, 350]	6446	[5704, 3730]
1344	[2315, 2316]	3045	[2085, 4491]	4746	[3651, 5316]	6447	[3610, 6700]
1345	[733, 2317]	3046	[4492, 4493]	4747	[1601, 3206]	6448	[6701, 6702]
1346	[2318, 2319]	3047	[4494, 827]	4748	[5836, 3978]	6449	[6626, 5608]
1347	[2320, 2126]	3048	[1749, 4495]	4749	[5837, 3261]	6450	[5477, 4152]
1348	[2321, 2322]	3049	[2634, 183]	4750	[3832, 5784]	6451	[260, 5358]
1349	[2323, 2324]	3050	[4496, 4497]	4751	[5838, 3238]	6452	[3100, 1383]
1350	[1728, 2325]	3051	[4498, 2186]	4752	[5839, 2814]	6453	[6703, 6704]
1351	[2326, 2327]	3052	[2564, 2638]	4753	[5840, 466]	6454	[3796, 4044]
1352	[1790, 2328]	3053	[2614, 639]	4754	[5841, 5842]	6455	[3278, 6705]
1353	[2329, 2330]	3054	[568, 4499]	4755	[5843, 5844]	6456	[3840, 6221]
1354	[2331, 2332]	3055	[4500, 4501]	4756	[3479, 5845]	6457	[6706, 4032]
1355	[2333, 2290]	3056	[2641, 2465]	4757	[2757, 2715]	6458	[3330, 6707]
1356	[713, 2334]	3057	[2088, 4502]	4758	[5846, 5847]	6459	[2832, 6708]
1357	[2335, 717]	3058	[4298, 4405]	4759	[1625, 489]	6460	[122, 6709]
1358	[2336, 746]	3059	[1975, 2287]	4760	[389, 1638]	6461	[6566, 5557]
1359	[2337, 867]	3060	[4503, 879]	4761	[1243, 5848]	6462	[3515, 3388]
1360	[2338, 2339]	3061	[4504, 4505]	4762	[3304, 5849]	6463	[5789, 6710]
1361	[2340, 2341]	3062	[4506, 1733]	4763	[1616, 5850]	6464	[5440, 3520]
1362	[2342, 2343]	3063	[4507, 4508]	4764	[5851, 5852]	6465	[6711, 1443]
1363	[1748, 2344]	3064	[4509, 4510]	4765	[5853, 3866]	6466	[3777, 5464]
1364	[2345, 2346]	3065	[4511, 2234]	4766	[5854, 5855]	6467	[3700, 5584]
1365	[2347, 2348]	3066	[2044, 207]	4767	[5856, 3057]	6468	[6712, 6713]
1366	[2349, 2350]	3067	[4512, 2265]	4768	[375, 64]	6469	[3484, 5950]
1367	[2351, 2352]	3068	[4513, 2199]	4769	[3971, 5857]	6470	[6696, 6714]
1368	[2353, 2354]	3069	[4514, 2652]	4770	[5858, 5859]	6471	[3044, 1659]
1369	[1932, 2355]	3070	[731, 4318]	4771	[5860, 3018]	6472	[6013, 6715]
1370	[2356, 2357]	3071	[4515, 4516]	4772	[4119, 3408]	6473	[5675, 4002]
1371	[2358, 635]	3072	[2524, 4364]	4773	[5861, 5862]	6474	[5785, 6716]
1372	[2359, 2360]	3073	[33, 4517]	4774	[3763, 5863]	6475	[5724, 6717]
1373	[2361, 2362]	3074	[4518, 4519]	4775	[5735, 5864]	6476	[3899, 6718]
1374	[2363, 1746]	3075	[1953, 592]	4776	[5348, 3458]	6477	[6002, 1600]
1375	[2364, 2004]	3076	[1757, 4520]	4777	[3417, 1218]	6478	[4083, 5572]
1376	[2365, 2366]	3077	[4521, 2231]	4778	[4067, 1346]	6479	[6719, 5522]
1377	[1982, 2047]	3078	[4522, 4523]	4779	[5865, 5866]	6480	[6678, 3146]
1378	[2367, 511]	3079	[2076, 4524]	4780	[5867, 5868]	6481	[5791, 6108]
1379	[2368, 2369]	3080	[2344, 2275]	4781	[5862, 5869]	6482	[6720, 1576]
1380	[2370, 2371]	3081	[4442, 605]	4782	[5870, 5871]	6483	[482, 1291]
1381	[844, 1904]	3082	[4525, 569]	4783	[5872, 5873]	6484	[1032, 6105]

1382	[2372, 2373]	3083	[4526, 2386]	4784	[3788, 2807]	6485	[80, 3579]
1383	[2172, 2278]	3084	[4527, 4528]	4785	[1391, 5605]	6486	[5934, 6048]
1384	[1999, 2374]	3085	[4529, 4530]	4786	[5874, 3921]	6487	[6608, 5822]
1385	[2375, 2161]	3086	[665, 4287]	4787	[5875, 3101]	6488	[3784, 6721]
1386	[2376, 2377]	3087	[1847, 2241]	4788	[3888, 5876]	6489	[2765, 437]
1387	[2378, 2379]	3088	[2078, 4531]	4789	[5877, 5878]	6490	[3242, 6722]
1388	[811, 2380]	3089	[4532, 1822]	4790	[339, 5879]	6491	[6723, 6687]
1389	[2381, 2382]	3090	[2534, 4533]	4791	[5880, 3474]	6492	[6724, 419]
1390	[718, 2355]	3091	[2462, 4534]	4792	[3442, 468]	6493	[6725, 5766]
1391	[2034, 2383]	3092	[177, 4272]	4793	[5881, 1634]	6494	[6726, 1513]
1392	[212, 2384]	3093	[2200, 565]	4794	[5882, 5883]	6495	[6727, 6728]
1393	[2271, 862]	3094	[4535, 2340]	4795	[5884, 5885]	6496	[6623, 996]
1394	[2385, 2170]	3095	[4536, 2159]	4796	[114, 5886]	6497	[6729, 2779]
1395	[639, 1768]	3096	[2080, 4286]	4797	[5887, 5718]	6498	[6730, 1329]
1396	[2386, 2387]	3097	[4537, 4538]	4798	[5888, 2850]	6499	[6731, 1271]
1397	[187, 2388]	3098	[2641, 195]	4799	[5889, 5890]	6500	[2896, 5755]
1398	[2389, 2177]	3099	[2051, 2619]	4800	[30, 3502]	6501	[6732, 6733]
1399	[2390, 2391]	3100	[2341, 1707]	4801	[5891, 1297]	6502	[5569, 993]
1400	[2049, 600]	3101	[4539, 2246]	4802	[1217, 5892]	6503	[944, 6734]
1401	[2392, 1701]	3102	[4514, 4243]	4803	[2810, 5893]	6504	[3570, 3294]
1402	[783, 2393]	3103	[4540, 4541]	4804	[5894, 3907]	6505	[6735, 6703]
1403	[917, 685]	3104	[2053, 4542]	4805	[2783, 5895]	6506	[6736, 6737]
1404	[2394, 61]	3105	[4437, 1849]	4806	[5896, 4064]	6507	[5886, 384]
1405	[2395, 2396]	3106	[4543, 870]	4807	[1605, 5897]	6508	[3098, 6167]
1406	[159, 2397]	3107	[2276, 797]	4808	[3820, 2853]	6509	[4047, 3230]
1407	[2398, 2399]	3108	[4544, 4538]	4809	[5869, 3852]	6510	[4117, 3425]
1408	[55, 2400]	3109	[2361, 4545]	4810	[5898, 3350]	6511	[5691, 6738]
1409	[2401, 2016]	3110	[4546, 2689]	4811	[5899, 5900]	6512	[6739, 6740]
1410	[853, 798]	3111	[4547, 4548]	4812	[1110, 5901]	6513	[6741, 6742]
1411	[179, 2402]	3112	[4344, 1827]	4813	[5252, 5902]	6514	[4109, 3587]
1412	[2403, 2404]	3113	[4391, 1839]	4814	[5903, 5904]	6515	[6743, 6744]
1413	[2405, 2406]	3114	[752, 4284]	4815	[1278, 2897]	6516	[3501, 5673]
1414	[2407, 197]	3115	[4549, 878]	4816	[3087, 5566]	6517	[6745, 1611]
1415	[2408, 1888]	3116	[4550, 2661]	4817	[5905, 5906]	6518	[6043, 5248]
1416	[2409, 2264]	3117	[4551, 4552]	4818	[5907, 5908]	6519	[5594, 1349]
1417	[2410, 2411]	3118	[2189, 2556]	4819	[5909, 5407]	6520	[2958, 6652]
1418	[1928, 2412]	3119	[2118, 4553]	4820	[5479, 3858]	6521	[3580, 6612]
1419	[2413, 512]	3120	[4554, 574]	4821	[5910, 5826]	6522	[6746, 6747]
1420	[2414, 2415]	3121	[4555, 4455]	4822	[5911, 5912]	6523	[3843, 6087]
1421	[2416, 1926]	3122	[575, 4253]	4823	[5913, 5914]	6524	[6212, 1168]
1422	[2055, 1983]	3123	[1701, 4556]	4824	[3106, 1673]	6525	[6208, 6748]
1423	[204, 2334]	3124	[226, 4557]	4825	[5915, 5916]	6526	[6717, 6749]
1424	[881, 2417]	3125	[4558, 4559]	4826	[5416, 5430]	6527	[6750, 3279]
1425	[2418, 2202]	3126	[4560, 2492]	4827	[82, 3246]	6528	[3324, 6664]

1426	[2419, 2291]	3127	[792, 2645]	4828	[3169, 5891]	6529	[956, 3075]
1427	[812, 2420]	3128	[2570, 4561]	4829	[3514, 1021]	6530	[6751, 5388]
1428	[1971, 2421]	3129	[4562, 4563]	4830	[5917, 5918]	6531	[5304, 5750]
1429	[2422, 187]	3130	[784, 740]	4831	[5919, 3958]	6532	[6752, 2193]
1430	[571, 2423]	3131	[2084, 2166]	4832	[5803, 3253]	6533	[1985, 900]
1431	[52, 556]	3132	[1939, 2470]	4833	[4087, 5920]	6534	[1905, 4425]
1432	[2424, 2425]	3133	[4564, 4565]	4834	[5921, 1327]	6535	[4422, 2281]
1433	[2426, 597]	3134	[864, 4566]	4835	[1101, 1283]	6536	[1718, 2260]
1434	[2427, 2035]	3135	[4567, 2244]	4836	[5922, 5344]	6537	[4674, 4848]
1435	[2428, 2429]	3136	[4568, 1824]	4837	[5923, 2738]	6538	[6487, 6424]
1436	[2430, 2431]	3137	[1862, 836]	4838	[5924, 5925]	6539	[4979, 6255]
1437	[224, 2432]	3138	[4569, 4218]	4839	[20, 5926]	6540	[6301, 4857]
1438	[727, 1754]	3139	[4439, 4570]	4840	[5927, 103]	6541	[734, 4261]
1439	[899, 2433]	3140	[685, 621]	4841	[5928, 1075]	6542	[4357, 5094]
1440	[2434, 2271]	3141	[2423, 767]	4842	[5630, 5923]	6543	[4822, 4183]
1441	[203, 2435]	3142	[4571, 2200]	4843	[22, 2963]	6544	[4798, 4408]
1442	[1732, 2333]	3143	[4572, 4573]	4844	[5929, 4021]	6545	[2106, 5179]
1443	[2436, 214]	3144	[1764, 1819]	4845	[5930, 5319]	6546	[4766, 4928]
1444	[2437, 2438]	3145	[825, 4536]	4846	[5931, 5932]	6547	[4930, 1979]
1445	[834, 201]	3146	[4574, 1788]	4847	[5933, 5934]	6548	[4433, 4728]
1446	[2439, 1929]	3147	[4575, 4576]	4848	[5935, 3040]	6549	[6396, 1945]
1447	[2440, 2441]	3148	[1791, 1863]	4849	[3949, 4093]	6550	[4737, 4269]
1448	[2442, 2443]	3149	[4577, 4578]	4850	[2845, 310]	6551	[576, 4647]
1449	[2444, 1742]	3150	[4302, 4505]	4851	[1184, 5936]	6552	[5128, 796]
1450	[1745, 2445]	3151	[4579, 4580]	4852	[5655, 5937]	6553	[2497, 6494]
1451	[2446, 2447]	3152	[4581, 2225]	4853	[5938, 5320]	6554	[6279, 4511]
1452	[2448, 1981]	3153	[4248, 4582]	4854	[5939, 5940]	6555	[6753, 6318]
1453	[2449, 1935]	3154	[1893, 2135]	4855	[5941, 5942]	6556	[2195, 496]
1454	[2450, 159]	3155	[2215, 4583]	4856	[3855, 5943]	6557	[4731, 4463]
1455	[2451, 143]	3156	[4584, 705]	4857	[3275, 3154]	6558	[6754, 4458]
1456	[2452, 1933]	3157	[4585, 4586]	4858	[1633, 1111]	6559	[4459, 4607]
1457	[2453, 212]	3158	[1747, 2211]	4859	[5817, 5944]	6560	[6331, 5136]
1458	[2454, 159]	3159	[4587, 4497]	4860	[5945, 5946]	6561	[2179, 4910]
1459	[2455, 2233]	3160	[763, 610]	4861	[5947, 5948]	6562	[6362, 6755]
1460	[2440, 2456]	3161	[2174, 2151]	4862	[5949, 3604]	6563	[2203, 5194]
1461	[2447, 2039]	3162	[663, 2072]	4863	[3000, 2961]	6564	[45, 590]
1462	[2457, 2458]	3163	[4588, 2196]	4864	[5411, 3531]	6565	[4652, 2408]
1463	[1976, 2459]	3164	[608, 1846]	4865	[5950, 1293]	6566	[32, 5050]
1464	[2095, 2460]	3165	[897, 4589]	4866	[5951, 5930]	6567	[2219, 5193]
1465	[2342, 2461]	3166	[4590, 520]	4867	[3499, 406]	6568	[4641, 711]
1466	[768, 2174]	3167	[4500, 4591]	4868	[5229, 1151]	6569	[2297, 4659]
1467	[2462, 2463]	3168	[2174, 4327]	4869	[5952, 3410]	6570	[6347, 553]
1468	[2122, 2464]	3169	[2278, 1815]	4870	[5620, 81]	6571	[6358, 510]
1469	[2134, 1894]	3170	[4592, 2674]	4871	[3773, 5953]	6572	[5125, 2022]

1470	[2465, 2466]	3171	[4593, 577]	4872	[1251, 5247]	6573	[1709, 2200]
1471	[2467, 1992]	3172	[4594, 1796]	4873	[4102, 5676]	6574	[2572, 4543]
1472	[2468, 2469]	3173	[4595, 754]	4874	[3620, 2726]	6575	[6756, 6517]
1473	[2354, 2470]	3174	[128, 4596]	4875	[5954, 1273]	6576	[6529, 4607]
1474	[2036, 2471]	3175	[4264, 134]	4876	[4020, 71]	6577	[6513, 524]
1475	[180, 516]	3176	[2339, 4597]	4877	[5323, 3691]	6578	[6753, 6448]
1476	[605, 2472]	3177	[2101, 4598]	4878	[430, 5955]	6579	[2586, 4656]
1477	[1868, 2249]	3178	[2521, 178]	4879	[5956, 1159]	6580	[6388, 1907]
1478	[2279, 2473]	3179	[825, 759]	4880	[2900, 5957]	6581	[6446, 2188]
1479	[2474, 2397]	3180	[4599, 607]	4881	[5958, 5959]	6582	[6383, 6757]
1480	[2104, 2475]	3181	[2652, 4244]	4882	[5960, 5230]	6583	[4951, 1800]
1481	[2476, 2477]	3182	[2575, 36]	4883	[1154, 5961]	6584	[4662, 6758]
1482	[694, 743]	3183	[607, 4442]	4884	[5962, 5264]	6585	[223, 1853]
1483	[2478, 154]	3184	[4600, 4415]	4885	[5963, 5431]	6586	[2426, 2581]
1484	[2479, 2042]	3185	[4278, 850]	4886	[5964, 5679]	6587	[2244, 4643]
1485	[2480, 2456]	3186	[4601, 1806]	4887	[319, 5875]	6588	[2292, 4282]
1486	[2481, 2482]	3187	[646, 1991]	4888	[5470, 5965]	6589	[6477, 6522]
1487	[2483, 1779]	3188	[4602, 4603]	4889	[5855, 1511]	6590	[4310, 5012]
1488	[2055, 2047]	3189	[4604, 4605]	4890	[5966, 5967]	6591	[6385, 6307]
1489	[2233, 2484]	3190	[4606, 4508]	4891	[1135, 5968]	6592	[4203, 4812]
1490	[143, 209]	3191	[4607, 710]	4892	[2916, 5969]	6593	[6310, 6257]
1491	[1843, 2378]	3192	[134, 4608]	4893	[5970, 5971]	6594	[4623, 771]
1492	[2485, 2175]	3193	[2450, 2474]	4894	[5972, 5952]	6595	[6428, 667]
1493	[2403, 2281]	3194	[4284, 4429]	4895	[5973, 5974]	6596	[2432, 1756]
1494	[2250, 2486]	3195	[2478, 4411]	4896	[5975, 5976]	6597	[1704, 4561]
1495	[2487, 2488]	3196	[250, 2576]	4897	[5977, 4127]	6598	[613, 4729]
1496	[2489, 2490]	3197	[4361, 4609]	4898	[5978, 3351]	6599	[547, 647]
1497	[2491, 2492]	3198	[4610, 1958]	4899	[5979, 5874]	6600	[4469, 6344]
1498	[2493, 2494]	3199	[4611, 809]	4900	[3245, 5980]	6601	[5156, 842]
1499	[2495, 2496]	3200	[4612, 4613]	4901	[1547, 5981]	6602	[2094, 2220]
1500	[2497, 2498]	3201	[871, 4614]	4902	[1104, 2973]	6603	[509, 6359]
1501	[2499, 911]	3202	[4513, 670]	4903	[3369, 5982]	6604	[4866, 6405]
1502	[2500, 2501]	3203	[4615, 4616]	4904	[5983, 1067]	6605	[2481, 2027]
1503	[1933, 1781]	3204	[586, 4617]	4905	[5984, 3446]	6606	[2030, 6372]
1504	[2502, 2503]	3205	[1922, 148]	4906	[5985, 5603]	6607	[2586, 2547]
1505	[902, 2504]	3206	[2569, 4618]	4907	[5986, 3093]	6608	[4991, 626]
1506	[2505, 2259]	3207	[2163, 4619]	4908	[5987, 5988]	6609	[2332, 6759]
1507	[2506, 2507]	3208	[4620, 4621]	4909	[2778, 5989]	6610	[1879, 2263]
1508	[2508, 1715]	3209	[4622, 2179]	4910	[3473, 5880]	6611	[4699, 6760]
1509	[2509, 2510]	3210	[4623, 51]	4911	[2924, 5422]	6612	[4432, 5212]
1510	[1864, 2511]	3211	[2181, 4310]	4912	[5990, 5762]	6613	[4398, 6403]
1511	[2512, 2513]	3212	[4624, 4378]	4913	[3310, 5269]	6614	[138, 5137]
1512	[2331, 2236]	3213	[686, 817]	4914	[5991, 5992]	6615	[1909, 6755]
1513	[1915, 2514]	3214	[1875, 2184]	4915	[5993, 5994]	6616	[2419, 6489]

1514	[2515, 2516]	3215	[4625, 2025]	4916	[3969, 5987]	6617	[2602, 6761]
1515	[2517, 11]	3216	[4400, 4626]	4917	[5944, 5995]	6618	[794, 6516]
1516	[194, 2465]	3217	[4627, 4628]	4918	[5996, 5997]	6619	[2585, 579]
1517	[2518, 1886]	3218	[723, 4629]	4919	[4077, 5998]	6620	[2599, 6484]
1518	[2340, 2519]	3219	[4630, 4259]	4920	[5456, 5999]	6621	[5130, 6410]
1519	[2256, 2485]	3220	[4631, 4632]	4921	[3539, 3507]	6622	[4461, 6334]
1520	[2520, 2521]	3221	[2274, 4633]	4922	[3939, 1619]	6623	[4307, 6418]
1521	[2522, 2523]	3222	[686, 622]	4923	[5334, 6000]	6624	[6518, 1963]
1522	[187, 2524]	3223	[1872, 4634]	4924	[6001, 6002]	6625	[59, 2371]
1523	[2190, 2525]	3224	[700, 4526]	4925	[5653, 3130]	6626	[4463, 2691]
1524	[2399, 2526]	3225	[4617, 4635]	4926	[6003, 4081]	6627	[6281, 2223]
1525	[1849, 2527]	3226	[4590, 4636]	4927	[6004, 6005]	6628	[215, 6515]
1526	[2154, 2528]	3227	[4637, 2566]	4928	[6006, 2709]	6629	[6419, 4995]
1527	[2529, 2530]	3228	[4638, 816]	4929	[1247, 3091]	6630	[2544, 6762]
1528	[2531, 2532]	3229	[4272, 4639]	4930	[5530, 5618]	6631	[4519, 6391]
1529	[2533, 2534]	3230	[2125, 180]	4931	[6007, 3733]	6632	[6481, 2606]
1530	[1713, 2535]	3231	[4618, 4640]	4932	[6008, 5519]	6633	[6369, 4335]
1531	[2536, 2053]	3232	[4641, 1717]	4933	[1551, 6009]	6634	[5018, 4922]
1532	[1798, 2537]	3233	[4642, 4643]	4934	[1205, 3186]	6635	[5021, 6453]
1533	[1801, 1945]	3234	[4316, 2612]	4935	[3896, 6010]	6636	[4911, 4791]
1534	[692, 651]	3235	[2533, 4628]	4936	[3291, 5808]	6637	[4378, 2242]
1535	[541, 2538]	3236	[4644, 4645]	4937	[3010, 6011]	6638	[5026, 5193]
1536	[2356, 2539]	3237	[4630, 4646]	4938	[5900, 6012]	6639	[6493, 2498]
1537	[2335, 2540]	3238	[1948, 227]	4939	[3151, 6013]	6640	[6763, 6339]
1538	[2541, 2110]	3239	[771, 52]	4940	[403, 1175]	6641	[4947, 6506]
1539	[2542, 1757]	3240	[4593, 4647]	4941	[6014, 3370]	6642	[6264, 4511]
1540	[2543, 724]	3241	[1852, 224]	4942	[5475, 6015]	6643	[5150, 6479]
1541	[2544, 2545]	3242	[788, 2196]	4943	[3527, 6016]	6644	[6480, 4869]
1542	[141, 2546]	3243	[2534, 4648]	4944	[6017, 6018]	6645	[4693, 1748]
1543	[2547, 2548]	3244	[841, 4649]	4945	[6019, 6020]	6646	[5006, 4548]
1544	[2549, 2550]	3245	[2336, 2631]	4946	[6021, 6022]	6647	[529, 832]
1545	[2551, 752]	3246	[131, 790]	4947	[986, 6023]	6648	[6763, 2228]
1546	[2552, 2553]	3247	[920, 4650]	4948	[6024, 6025]	6649	[4905, 2180]
1547	[2554, 2555]	3248	[2519, 2252]	4949	[3255, 6026]	6650	[2308, 5048]
1548	[2556, 2557]	3249	[2636, 4534]	4950	[5238, 6027]	6651	[1831, 4392]
1549	[2558, 2559]	3250	[4634, 860]	4951	[6028, 2935]	6652	[4564, 4989]
1550	[2099, 1730]	3251	[4651, 4652]	4952	[6029, 3606]	6653	[6764, 6530]
1551	[2560, 2561]	3252	[4653, 4240]	4953	[2755, 5460]	6654	[4818, 526]
1552	[1820, 2562]	3253	[2575, 4654]	4954	[1191, 6030]	6655	[1913, 6324]
1553	[2563, 778]	3254	[4655, 4573]	4955	[5857, 6031]	6656	[4584, 2240]
1554	[768, 915]	3255	[4656, 2548]	4956	[4173, 6032]	6657	[6332, 5055]
1555	[668, 2564]	3256	[4657, 2164]	4957	[5799, 6033]	6658	[6509, 45]
1556	[2565, 2028]	3257	[2528, 742]	4958	[6034, 6035]	6659	[5068, 169]
1557	[2149, 2566]	3258	[4658, 538]	4959	[6036, 4097]	6660	[2259, 1719]

1558	[2567, 1867]	3259	[736, 4659]	4960	[5749, 6037]	6661	[6756, 4771]
1559	[2214, 2117]	3260	[2485, 2080]	4961	[1260, 3643]	6662	[6765, 6435]
1560	[2568, 2051]	3261	[4365, 2473]	4962	[6038, 5725]	6663	[2019, 673]
1561	[729, 2569]	3262	[4660, 4661]	4963	[84, 2842]	6664	[5205, 685]
1562	[2570, 1705]	3263	[4662, 2584]	4964	[2885, 6039]	6665	[6492, 6437]
1563	[2571, 2572]	3264	[4663, 4664]	4965	[4048, 1038]	6666	[6439, 2501]
1564	[2573, 180]	3265	[51, 772]	4966	[6040, 1368]	6667	[2550, 5213]
1565	[2574, 2575]	3266	[1805, 4665]	4967	[6041, 5578]	6668	[5120, 6398]
1566	[184, 2523]	3267	[4666, 757]	4968	[6042, 6043]	6669	[2155, 6766]
1567	[2116, 2576]	3268	[4667, 4570]	4969	[6044, 6045]	6670	[1762, 1802]
1568	[2577, 2578]	3269	[4305, 2623]	4970	[6046, 1641]	6671	[1790, 5206]
1569	[741, 2579]	3270	[4668, 4669]	4971	[3135, 6047]	6672	[1976, 6528]
1570	[2580, 2231]	3271	[4670, 4671]	4972	[3273, 5350]	6673	[6427, 6767]
1571	[2581, 2582]	3272	[35, 4654]	4973	[6048, 1236]	6674	[6409, 4291]
1572	[2583, 2584]	3273	[4443, 2171]	4974	[3164, 5687]	6675	[1947, 1764]
1573	[2585, 2586]	3274	[4209, 4672]	4975	[2732, 3116]	6676	[1763, 1803]
1574	[1855, 2587]	3275	[4673, 2215]	4976	[6049, 5972]	6677	[2559, 1865]
1575	[32, 809]	3276	[2561, 157]	4977	[2787, 6050]	6678	[772, 4575]
1576	[879, 2128]	3277	[4674, 2019]	4978	[377, 6051]	6679	[4317, 732]
1577	[2588, 2589]	3278	[4300, 2418]	4979	[5451, 4051]	6680	[4736, 2673]
1578	[2590, 2591]	3279	[4675, 2706]	4980	[6052, 2976]	6681	[1767, 2634]
1579	[2592, 2593]	3280	[4676, 4677]	4981	[3873, 5800]	6682	[4484, 4597]
1580	[2408, 1895]	3281	[4678, 864]	4982	[1380, 4039]	6683	[5172, 1974]
1581	[2594, 1913]	3282	[4679, 4680]	4983	[3343, 6053]	6684	[6511, 5196]
1582	[2595, 2596]	3283	[1985, 2433]	4984	[6054, 6055]	6685	[4457, 6768]
1583	[2269, 843]	3284	[4525, 4499]	4985	[6056, 334]	6686	[6764, 6444]
1584	[1782, 2471]	3285	[4681, 4188]	4986	[4100, 6057]	6687	[6769, 6762]
1585	[1717, 712]	3286	[4682, 2240]	4987	[4133, 6019]	6688	[6445, 6307]
1586	[2597, 899]	3287	[1891, 4683]	4988	[5443, 6058]	6689	[6259, 6757]
1587	[2598, 562]	3288	[4574, 4684]	4989	[6059, 306]	6690	[2430, 4951]
1588	[2599, 1990]	3289	[871, 4322]	4990	[74, 6060]	6691	[6288, 6525]
1589	[2600, 2601]	3290	[4685, 4304]	4991	[6061, 6062]	6692	[2644, 793]
1590	[2602, 2603]	3291	[2126, 4686]	4992	[401, 1465]	6693	[2583, 6758]
1591	[2283, 2604]	3292	[4687, 2058]	4993	[6063, 3202]	6694	[795, 5129]
1592	[2605, 2262]	3293	[4688, 4689]	4994	[5623, 6064]	6695	[4275, 6521]
1593	[2606, 2607]	3294	[4690, 4218]	4995	[6065, 5616]	6696	[5203, 6350]
1594	[2608, 1972]	3295	[2054, 1982]	4996	[4166, 4090]	6697	[671, 6365]
1595	[852, 2318]	3296	[2559, 2511]	4997	[1662, 5765]	6698	[1978, 6284]
1596	[2123, 698]	3297	[615, 4447]	4998	[5883, 3920]	6699	[1897, 6767]
1597	[2344, 43]	3298	[4691, 2593]	4999	[1249, 5497]	6700	[5034, 6770]
1598	[2609, 2254]	3299	[195, 2466]	5000	[6066, 6067]	6701	[4839, 6766]
1599	[2610, 139]	3300	[4692, 2703]	5001	[6068, 6069]	6702	[5077, 776]
1600	[140, 870]	3301	[2468, 506]	5002	[6070, 2949]	6703	[6769, 2545]
1601	[2611, 2612]	3302	[4693, 2211]	5003	[1030, 3021]	6704	[6771, 4760]

1602	[2613, 2614]	3303	[4694, 4695]	5004	[6071, 6072]	6705	[802, 220]
1603	[247, 2615]	3304	[4696, 1711]	5005	[6073, 3558]	6706	[6348, 6469]
1604	[2616, 2617]	3305	[4686, 2642]	5006	[6074, 6075]	6707	[6754, 6768]
1605	[2024, 2618]	3306	[2080, 1998]	5007	[6076, 2891]	6708	[6765, 4760]
1606	[2541, 2619]	3307	[496, 545]	5008	[1239, 3054]	6709	[6519, 1979]
1607	[2620, 630]	3308	[1983, 4184]	5009	[6077, 5977]	6710	[790, 4881]
1608	[2621, 2622]	3309	[4697, 544]	5010	[4128, 6078]	6711	[4204, 6472]
1609	[2623, 2624]	3310	[4698, 1721]	5011	[3750, 5435]	6712	[1760, 6772]
1610	[816, 1857]	3311	[4364, 587]	5012	[5998, 6079]	6713	[2157, 4905]
1611	[2625, 2350]	3312	[4699, 676]	5013	[1092, 3430]	6714	[4772, 5156]
1612	[2284, 2626]	3313	[4700, 4502]	5014	[6080, 3611]	6715	[4793, 4703]
1613	[2627, 2605]	3314	[4701, 4702]	5015	[6081, 1305]	6716	[4522, 2651]
1614	[2513, 1808]	3315	[4703, 4704]	5016	[1365, 6082]	6717	[2502, 6381]
1615	[2628, 2197]	3316	[4333, 2704]	5017	[3183, 3860]	6718	[2500, 2451]
1616	[2193, 2629]	3317	[550, 4705]	5018	[5850, 5565]	6719	[2139, 6455]
1617	[835, 2630]	3318	[4706, 566]	5019	[5387, 6083]	6720	[2236, 6759]
1618	[745, 2631]	3319	[799, 780]	5020	[5600, 3749]	6721	[4580, 1911]
1619	[58, 1908]	3320	[4707, 4708]	5021	[5385, 6084]	6722	[597, 2582]
1620	[2632, 2633]	3321	[2367, 2413]	5022	[5969, 273]	6723	[2680, 4786]
1621	[181, 758]	3322	[53, 4709]	5023	[6085, 6086]	6724	[877, 6327]
1622	[2634, 2635]	3323	[4710, 896]	5024	[6087, 6088]	6725	[1735, 6524]
1623	[2636, 2463]	3324	[4711, 4712]	5025	[1235, 3272]	6726	[2380, 6773]
1624	[2637, 917]	3325	[39, 4713]	5026	[6089, 3516]	6727	[5076, 6772]
1625	[563, 2638]	3326	[2358, 2146]	5027	[2851, 5773]	6728	[4840, 604]
1626	[232, 2639]	3327	[1969, 2023]	5028	[6090, 6091]	6729	[604, 771]
1627	[2640, 2641]	3328	[4427, 2687]	5029	[5615, 316]	6730	[2093, 6471]
1628	[2118, 2642]	3329	[1780, 1934]	5030	[972, 6092]	6731	[675, 6760]
1629	[2120, 2574]	3330	[4714, 4565]	5031	[321, 6093]	6732	[4831, 2188]
1630	[2643, 2309]	3331	[2556, 166]	5032	[446, 6094]	6733	[1920, 6273]
1631	[2644, 2645]	3332	[4567, 4642]	5033	[6095, 5894]	6734	[1733, 2290]
1632	[587, 2646]	3333	[4666, 4421]	5034	[6096, 6097]	6735	[4313, 4744]
1633	[2175, 1998]	3334	[8, 4715]	5035	[3986, 4094]	6736	[4527, 6508]
1634	[2405, 2305]	3335	[4716, 878]	5036	[5581, 6007]	6737	[2672, 1947]
1635	[2647, 2378]	3336	[4717, 4375]	5037	[6098, 332]	6738	[6290, 4877]
1636	[2648, 2578]	3337	[4717, 4718]	5038	[5342, 6099]	6739	[2609, 6523]
1637	[2084, 2649]	3338	[1960, 4719]	5039	[3798, 2937]	6740	[6272, 4912]
1638	[2650, 596]	3339	[503, 2606]	5040	[6100, 6101]	6741	[1792, 5208]
1639	[749, 2651]	3340	[4720, 4721]	5041	[371, 2795]	6742	[6393, 6382]
1640	[2074, 2652]	3341	[4722, 249]	5042	[6102, 6103]	6743	[2467, 5110]
1641	[664, 2653]	3342	[2616, 4723]	5043	[6104, 4057]	6744	[4956, 6282]
1642	[1854, 2524]	3343	[4724, 4725]	5044	[1302, 5712]	6745	[812, 6773]
1643	[2654, 2655]	3344	[4726, 1743]	5045	[6105, 3751]	6746	[2315, 6461]
1644	[137, 1795]	3345	[851, 2386]	5046	[3740, 6106]	6747	[4515, 4985]
1645	[579, 2547]	3346	[4727, 4728]	5047	[1360, 3175]	6748	[4403, 1808]

1646	[1797, 582]	3347	[2391, 4622]	5048	[5429, 6107]	6749	[6278, 6527]
1647	[2656, 2657]	3348	[4729, 729]	5049	[6108, 6109]	6750	[1992, 6774]
1648	[2658, 2659]	3349	[4315, 2611]	5050	[64, 6110]	6751	[6255, 6761]
1649	[1873, 2624]	3350	[4362, 2187]	5051	[289, 1224]	6752	[6775, 3500]
1650	[1748, 2212]	3351	[2012, 905]	5052	[383, 6111]	6753	[5946, 3839]
1651	[513, 2369]	3352	[2334, 4730]	5053	[6112, 6113]	6754	[6776, 6777]
1652	[1775, 2400]	3353	[4731, 2690]	5054	[3051, 6114]	6755	[6733, 2987]
1653	[2660, 2661]	3354	[4357, 4702]	5055	[6115, 1469]	6756	[6778, 4060]
1654	[200, 835]	3355	[1808, 4732]	5056	[6116, 6117]	6757	[958, 6779]
1655	[652, 2662]	3356	[4733, 2696]	5057	[1680, 5716]	6758	[313, 2750]
1656	[2483, 687]	3357	[4600, 4734]	5058	[3600, 977]	6759	[3361, 6063]
1657	[2663, 2664]	3358	[4735, 2316]	5059	[3053, 1394]	6760	[6113, 6780]
1658	[2434, 861]	3359	[4736, 1947]	5060	[5555, 1379]	6761	[3433, 6781]
1659	[2665, 2666]	3360	[4737, 620]	5061	[1490, 5308]	6762	[6637, 5846]
1660	[2667, 2102]	3361	[4272, 4738]	5062	[3669, 5727]	6763	[6000, 3554]
1661	[2668, 2461]	3362	[4739, 4740]	5063	[5771, 5884]	6764	[6782, 5450]
1662	[779, 2276]	3363	[4741, 4742]	5064	[6030, 5996]	6765	[3790, 3806]
1663	[2332, 2237]	3364	[868, 4743]	5065	[2776, 3882]	6766	[5849, 5487]
1664	[2070, 2669]	3365	[2154, 741]	5066	[6118, 4164]	6767	[3029, 6783]
1665	[2670, 2671]	3366	[4256, 4744]	5067	[2954, 2957]	6768	[6784, 5253]
1666	[2672, 2673]	3367	[4745, 726]	5068	[6055, 1692]	6769	[1629, 3573]
1667	[1803, 616]	3368	[4496, 4746]	5069	[6119, 6120]	6770	[6160, 6785]
1668	[2674, 2675]	3369	[4747, 4748]	5070	[6062, 6121]	6771	[2830, 2840]
1669	[2676, 2598]	3370	[2000, 231]	5071	[5300, 6122]	6772	[3262, 6066]
1670	[2000, 2210]	3371	[2286, 1976]	5072	[6123, 6124]	6773	[2947, 6786]
1671	[2677, 14]	3372	[4749, 4750]	5073	[5957, 5941]	6774	[280, 6787]
1672	[1739, 1956]	3373	[743, 657]	5074	[5959, 5541]	6775	[6788, 1869]
1673	[1849, 2678]	3374	[4266, 4751]	5075	[5345, 5963]	6776	[4754, 6789]
1674	[870, 2679]	3375	[2330, 188]	5076	[5380, 6125]	6777	[2127, 2694]
1675	[2680, 2681]	3376	[4752, 4753]	5077	[6126, 358]	6778	[9, 6502]
1676	[2682, 2683]	3377	[4754, 4755]	5078	[6058, 3766]	6779	[6531, 832]
1677	[819, 2684]	3378	[1810, 4756]	5079	[6127, 6128]	6780	[4373, 4370]
1678	[2685, 897]	3379	[4181, 2514]	5080	[72, 5517]	6781	[4580, 4750]
1679	[2038, 2686]	3380	[2573, 515]	5081	[1524, 5748]	6782	[218, 6789]
1680	[1926, 1989]	3381	[4191, 2103]	5082	[78, 5978]	6783	[2069, 6293]
1681	[1981, 2687]	3382	[4608, 4757]	5083	[1635, 3298]	6784	[5110, 6774]
1682	[2688, 2689]	3383	[4758, 4285]	5084	[1050, 5303]	6785	[6771, 6435]
1683	[2690, 2691]	3384	[4397, 147]	5085	[3023, 6129]	6786	[6246, 703]
1684	[2692, 2485]	3385	[4346, 149]	5086	[1541, 6130]	6787	[878, 2127]
1685	[2121, 2242]	3386	[1980, 4427]	5087	[100, 5723]	6788	[6790, 3408]
1686	[2522, 185]	3387	[816, 4441]	5088	[6131, 3489]	6789	[428, 3387]
1687	[2348, 2693]	3388	[756, 4421]	5089	[6132, 3930]	6790	[6791, 238]
1688	[879, 2694]	3389	[2160, 2575]	5090	[5281, 6133]	6791	[6792, 5348]
1689	[2695, 2696]	3390	[4369, 4759]	5091	[6134, 5698]	6792	[6793, 156]

1690	[2628, 493]	3391	[1978, 4715]	5092	[6135, 6136]	6793	[6794, 5869]
1691	[2697, 2698]	3392	[2380, 2420]	5093	[6091, 6137]	6794	[6795, 4438]
1692	[1900, 2699]	3393	[4476, 1813]	5094	[5438, 1622]	6795	[6796, 3967]
1693	[841, 2383]	3394	[4760, 1778]	5095	[6138, 6139]	6796	[6797, 4503]
1694	[2700, 2701]	3395	[4761, 149]	5096	[3993, 6095]	6797	[6798, 3397]
1695	[2614, 2078]	3396	[539, 4762]	5097	[6140, 6141]	6798	[6799, 916]
1696	[2702, 2693]	3397	[2318, 4763]	5098	[5421, 271]	6799	[6800, 1440]
1697	[2703, 2704]	3398	[4232, 2251]	5099	[6142, 5843]	6800	[6801, 203]
1698	[2705, 2706]	3399	[4764, 4765]	5100	[6143, 6140]	6801	[6802, 3842]
1699	[2446, 2038]	3400	[4766, 4767]	5101	[3591, 6144]	6802	[31, 4611]
1700	[2707, 2708]	3401	[4258, 4646]	5102	[6145, 3967]		

Output function $n \mapsto \tau(n)$:

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1134	0	2268	0	3402	1	4536	1
1	0	1135	1	2269	1	3403	1	4537	1
2	0	1136	1	2270	0	3404	1	4538	0
3	0	1137	0	2271	1	3405	1	4539	1
4	0	1138	1	2272	1	3406	1	4540	1
5	0	1139	0	2273	0	3407	0	4541	0
6	0	1140	1	2274	1	3408	0	4542	1
7	0	1141	0	2275	0	3409	1	4543	0
8	0	1142	1	2276	1	3410	1	4544	0
9	0	1143	0	2277	1	3411	1	4545	0
10	1	1144	1	2278	0	3412	1	4546	1
11	0	1145	1	2279	0	3413	1	4547	0
12	0	1146	0	2280	0	3414	0	4548	1
13	0	1147	1	2281	0	3415	1	4549	0
14	1	1148	1	2282	0	3416	1	4550	0
15	0	1149	0	2283	1	3417	1	4551	0
16	0	1150	1	2284	0	3418	0	4552	0
17	0	1151	1	2285	1	3419	0	4553	1
18	1	1152	1	2286	0	3420	1	4554	1
19	0	1153	1	2287	1	3421	0	4555	1
20	1	1154	0	2288	0	3422	1	4556	0
21	1	1155	1	2289	0	3423	1	4557	1
22	0	1156	0	2290	0	3424	1	4558	1
23	0	1157	0	2291	1	3425	1	4559	0
24	0	1158	0	2292	0	3426	1	4560	0
25	0	1159	0	2293	0	3427	0	4561	0
26	0	1160	0	2294	1	3428	0	4562	1
27	0	1161	1	2295	1	3429	0	4563	1
28	0	1162	0	2296	1	3430	1	4564	1
29	1	1163	0	2297	0	3431	1	4565	1

30	0	1164	0	2298	0	3432	1	4566	0	5700	0
31	0	1165	1	2299	0	3433	1	4567	1	5701	0
32	1	1166	0	2300	0	3434	0	4568	1	5702	0
33	0	1167	1	2301	1	3435	0	4569	1	5703	0
34	1	1168	0	2302	1	3436	1	4570	1	5704	1
35	0	1169	0	2303	0	3437	0	4571	0	5705	0
36	0	1170	1	2304	0	3438	1	4572	1	5706	0
37	1	1171	1	2305	0	3439	0	4573	0	5707	0
38	0	1172	0	2306	1	3440	1	4574	1	5708	1
39	0	1173	1	2307	0	3441	0	4575	1	5709	1
40	0	1174	1	2308	1	3442	0	4576	0	5710	0
41	1	1175	1	2309	0	3443	0	4577	1	5711	1
42	1	1176	1	2310	0	3444	1	4578	0	5712	0
43	1	1177	0	2311	0	3445	1	4579	1	5713	0
44	0	1178	1	2312	0	3446	1	4580	0	5714	0
45	0	1179	0	2313	1	3447	0	4581	0	5715	0
46	1	1180	1	2314	1	3448	1	4582	0	5716	0
47	0	1181	0	2315	0	3449	1	4583	1	5717	1
48	0	1182	1	2316	0	3450	0	4584	1	5718	0
49	0	1183	0	2317	1	3451	0	4585	0	5719	0
50	1	1184	0	2318	1	3452	1	4586	0	5720	0
51	0	1185	0	2319	0	3453	1	4587	0	5721	1
52	1	1186	1	2320	0	3454	0	4588	0	5722	1
53	0	1187	0	2321	1	3455	0	4589	1	5723	1
54	0	1188	1	2322	1	3456	0	4590	0	5724	1
55	0	1189	1	2323	1	3457	1	4591	0	5725	0
56	1	1190	1	2324	1	3458	0	4592	0	5726	0
57	0	1191	1	2325	0	3459	0	4593	1	5727	1
58	0	1192	1	2326	1	3460	0	4594	1	5728	0
59	1	1193	1	2327	0	3461	0	4595	0	5729	1
60	0	1194	1	2328	0	3462	1	4596	1	5730	0
61	0	1195	1	2329	0	3463	1	4597	1	5731	1
62	0	1196	1	2330	1	3464	1	4598	1	5732	1
63	0	1197	1	2331	1	3465	1	4599	1	5733	0
64	0	1198	0	2332	1	3466	1	4600	1	5734	0
65	1	1199	0	2333	1	3467	1	4601	1	5735	0
66	0	1200	1	2334	1	3468	0	4602	0	5736	0
67	0	1201	1	2335	0	3469	1	4603	1	5737	1
68	1	1202	0	2336	1	3470	1	4604	1	5738	0
69	1	1203	1	2337	1	3471	0	4605	0	5739	0
70	1	1204	1	2338	0	3472	0	4606	0	5740	0
71	0	1205	0	2339	1	3473	0	4607	0	5741	1
72	1	1206	0	2340	0	3474	1	4608	0	5742	1
73	0	1207	1	2341	1	3475	0	4609	0	5743	0

74	0	1208	1	2342	1	3476	1	4610	0	5744	0
75	1	1209	0	2343	0	3477	1	4611	0	5745	1
76	0	1210	1	2344	0	3478	1	4612	1	5746	1
77	0	1211	1	2345	0	3479	1	4613	0	5747	1
78	1	1212	1	2346	1	3480	1	4614	0	5748	1
79	0	1213	1	2347	0	3481	0	4615	0	5749	0
80	0	1214	1	2348	0	3482	0	4616	0	5750	1
81	0	1215	1	2349	0	3483	0	4617	1	5751	0
82	1	1216	1	2350	0	3484	1	4618	1	5752	0
83	1	1217	1	2351	0	3485	1	4619	0	5753	0
84	1	1218	0	2352	0	3486	0	4620	0	5754	1
85	1	1219	1	2353	0	3487	1	4621	0	5755	1
86	1	1220	1	2354	0	3488	0	4622	1	5756	0
87	1	1221	0	2355	0	3489	0	4623	0	5757	1
88	1	1222	0	2356	1	3490	1	4624	1	5758	1
89	0	1223	0	2357	1	3491	0	4625	1	5759	1
90	1	1224	0	2358	0	3492	0	4626	1	5760	0
91	0	1225	1	2359	1	3493	0	4627	1	5761	0
92	1	1226	0	2360	0	3494	0	4628	1	5762	1
93	1	1227	0	2361	1	3495	1	4629	0	5763	1
94	0	1228	0	2362	1	3496	1	4630	1	5764	0
95	0	1229	0	2363	0	3497	1	4631	1	5765	1
96	0	1230	1	2364	0	3498	1	4632	1	5766	1
97	0	1231	0	2365	1	3499	0	4633	0	5767	1
98	0	1232	1	2366	1	3500	1	4634	1	5768	1
99	0	1233	0	2367	1	3501	0	4635	0	5769	0
100	0	1234	1	2368	0	3502	0	4636	1	5770	0
101	1	1235	1	2369	1	3503	1	4637	0	5771	1
102	0	1236	1	2370	0	3504	0	4638	1	5772	0
103	0	1237	0	2371	1	3505	1	4639	0	5773	1
104	1	1238	1	2372	0	3506	0	4640	0	5774	0
105	1	1239	0	2373	0	3507	1	4641	0	5775	1
106	0	1240	1	2374	0	3508	0	4642	1	5776	1
107	0	1241	0	2375	0	3509	1	4643	0	5777	1
108	1	1242	0	2376	0	3510	1	4644	1	5778	0
109	0	1243	1	2377	1	3511	0	4645	1	5779	1
110	0	1244	0	2378	1	3512	0	4646	1	5780	1
111	0	1245	1	2379	0	3513	1	4647	0	5781	0
112	1	1246	1	2380	0	3514	0	4648	1	5782	0
113	1	1247	0	2381	0	3515	0	4649	0	5783	1
114	0	1248	0	2382	1	3516	1	4650	0	5784	0
115	0	1249	0	2383	1	3517	0	4651	1	5785	1
116	1	1250	1	2384	0	3518	0	4652	0	5786	1
117	0	1251	0	2385	0	3519	0	4653	1	5787	1

118	1	1252	1	2386	0	3520	0	4654	1	5788	1
119	1	1253	1	2387	0	3521	1	4655	0	5789	1
120	0	1254	0	2388	0	3522	1	4656	0	5790	0
121	0	1255	1	2389	0	3523	1	4657	1	5791	1
122	0	1256	1	2390	0	3524	0	4658	1	5792	1
123	0	1257	0	2391	1	3525	1	4659	1	5793	1
124	0	1258	0	2392	0	3526	0	4660	1	5794	0
125	0	1259	0	2393	0	3527	0	4661	1	5795	0
126	0	1260	0	2394	0	3528	0	4662	0	5796	1
127	0	1261	0	2395	1	3529	1	4663	0	5797	1
128	0	1262	1	2396	1	3530	1	4664	1	5798	0
129	0	1263	0	2397	1	3531	0	4665	1	5799	0
130	0	1264	1	2398	1	3532	1	4666	1	5800	1
131	1	1265	1	2399	0	3533	0	4667	1	5801	0
132	0	1266	1	2400	0	3534	1	4668	1	5802	0
133	0	1267	0	2401	1	3535	1	4669	1	5803	0
134	1	1268	0	2402	0	3536	1	4670	0	5804	1
135	0	1269	1	2403	1	3537	0	4671	1	5805	0
136	1	1270	1	2404	1	3538	1	4672	1	5806	0
137	1	1271	0	2405	1	3539	0	4673	0	5807	1
138	0	1272	0	2406	1	3540	1	4674	1	5808	1
139	1	1273	0	2407	1	3541	1	4675	1	5809	0
140	1	1274	1	2408	0	3542	0	4676	0	5810	1
141	1	1275	1	2409	1	3543	1	4677	1	5811	1
142	0	1276	1	2410	1	3544	1	4678	0	5812	1
143	0	1277	1	2411	1	3545	1	4679	0	5813	0
144	0	1278	1	2412	1	3546	1	4680	0	5814	0
145	1	1279	1	2413	1	3547	1	4681	1	5815	1
146	1	1280	0	2414	0	3548	1	4682	0	5816	1
147	0	1281	0	2415	1	3549	0	4683	1	5817	0
148	1	1282	1	2416	1	3550	0	4684	1	5818	1
149	0	1283	0	2417	0	3551	1	4685	0	5819	1
150	1	1284	0	2418	1	3552	1	4686	1	5820	1
151	1	1285	0	2419	1	3553	1	4687	0	5821	1
152	1	1286	1	2420	1	3554	1	4688	1	5822	0
153	0	1287	0	2421	1	3555	0	4689	0	5823	1
154	1	1288	1	2422	0	3556	0	4690	0	5824	0
155	0	1289	0	2423	1	3557	0	4691	0	5825	1
156	0	1290	1	2424	0	3558	1	4692	1	5826	1
157	1	1291	0	2425	1	3559	1	4693	0	5827	0
158	1	1292	1	2426	1	3560	1	4694	1	5828	0
159	0	1293	1	2427	1	3561	0	4695	0	5829	0
160	0	1294	0	2428	0	3562	0	4696	1	5830	0
161	0	1295	0	2429	1	3563	0	4697	1	5831	0

162	1	1296	1	2430	1	3564	0	4698	1	5832	0
163	0	1297	1	2431	0	3565	0	4699	1	5833	1
164	0	1298	0	2432	0	3566	0	4700	1	5834	0
165	1	1299	1	2433	0	3567	0	4701	1	5835	0
166	1	1300	0	2434	0	3568	0	4702	1	5836	0
167	1	1301	1	2435	1	3569	1	4703	0	5837	1
168	1	1302	1	2436	1	3570	1	4704	0	5838	1
169	1	1303	1	2437	1	3571	0	4705	0	5839	1
170	0	1304	1	2438	0	3572	0	4706	1	5840	1
171	1	1305	0	2439	0	3573	1	4707	0	5841	1
172	0	1306	1	2440	0	3574	1	4708	1	5842	1
173	1	1307	0	2441	1	3575	0	4709	1	5843	0
174	0	1308	0	2442	0	3576	1	4710	1	5844	1
175	1	1309	0	2443	1	3577	0	4711	0	5845	0
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177	1	1311	1	2445	0	3579	1	4713	1	5847	1
178	0	1312	0	2446	0	3580	1	4714	0	5848	1
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180	1	1314	0	2448	0	3582	1	4716	1	5850	0
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183	0	1317	1	2451	0	3585	1	4719	0	5853	0
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186	1	1320	0	2454	1	3588	0	4722	0	5856	0
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192	0	1326	0	2460	1	3594	1	4728	1	5862	1
193	0	1327	0	2461	1	3595	0	4729	1	5863	0
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195	0	1329	0	2463	0	3597	0	4731	1	5865	0
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234	1	1368	0	2502	1	3636	0	4770	1	5904	0
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245	0	1379	0	2513	0	3647	1	4781	1	5915	1
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247	0	1381	1	2515	1	3649	1	4783	0	5917	1
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285	1	1419	1	2553	0	3687	1	4821	0	5955	1
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314	0	1448	0	2582	0	3716	1	4850	1	5984	1
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345	0	1479	1	2613	1	3747	0	4881	0	6015	1
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439	1	1573	0	2707	0	3841	0	4975	0	6109	0
440	1	1574	0	2708	0	3842	1	4976	1	6110	0
441	1	1575	1	2709	0	3843	0	4977	0	6111	1
442	0	1576	0	2710	0	3844	1	4978	0	6112	0
443	1	1577	1	2711	1	3845	1	4979	0	6113	1
444	0	1578	0	2712	0	3846	0	4980	0	6114	1
445	0	1579	1	2713	0	3847	0	4981	0	6115	1
446	0	1580	0	2714	1	3848	0	4982	0	6116	0
447	0	1581	1	2715	1	3849	0	4983	1	6117	0
448	1	1582	1	2716	0	3850	0	4984	0	6118	1
449	0	1583	1	2717	0	3851	1	4985	0	6119	1
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452	0	1586	1	2720	1	3854	1	4988	1	6122	0
453	1	1587	1	2721	0	3855	0	4989	0	6123	0
454	0	1588	0	2722	1	3856	0	4990	0	6124	0
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456	0	1590	0	2724	1	3858	0	4992	0	6126	1
457	1	1591	1	2725	1	3859	0	4993	1	6127	1
458	0	1592	1	2726	0	3860	0	4994	0	6128	0
459	0	1593	0	2727	1	3861	1	4995	0	6129	0
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461	1	1595	1	2729	1	3863	1	4997	0	6131	1
462	0	1596	1	2730	0	3864	0	4998	1	6132	0
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465	1	1599	1	2733	1	3867	1	5001	1	6135	1
466	0	1600	1	2734	0	3868	0	5002	0	6136	1
467	0	1601	1	2735	1	3869	1	5003	1	6137	1
468	1	1602	1	2736	0	3870	0	5004	0	6138	1
469	1	1603	0	2737	1	3871	0	5005	0	6139	1

470	0	1604	0	2738	0	3872	0	5006	1	6140	0
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472	1	1606	0	2740	1	3874	1	5008	0	6142	1
473	1	1607	1	2741	0	3875	1	5009	1	6143	1
474	0	1608	1	2742	0	3876	1	5010	1	6144	0
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476	0	1610	1	2744	0	3878	0	5012	0	6146	1
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480	1	1614	0	2748	0	3882	1	5016	0	6150	0
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487	1	1621	0	2755	1	3889	0	5023	0	6157	0
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566	1	1700	0	2834	0	3968	0	5102	1	6236	0
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581	1	1715	0	2849	1	3983	1	5117	0	6251	0
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709	1	1843	0	2977	1	4111	0	5245	1	6379	0
710	0	1844	0	2978	0	4112	0	5246	0	6380	1
711	0	1845	0	2979	0	4113	0	5247	0	6381	1
712	1	1846	0	2980	1	4114	1	5248	1	6382	0
713	1	1847	1	2981	0	4115	0	5249	1	6383	1
714	0	1848	1	2982	0	4116	0	5250	0	6384	1
715	0	1849	1	2983	1	4117	0	5251	0	6385	0
716	1	1850	1	2984	0	4118	0	5252	0	6386	0
717	1	1851	1	2985	0	4119	1	5253	1	6387	1
718	1	1852	0	2986	0	4120	0	5254	1	6388	1
719	1	1853	0	2987	0	4121	1	5255	1	6389	0
720	0	1854	1	2988	0	4122	1	5256	0	6390	0
721	1	1855	0	2989	0	4123	0	5257	0	6391	0
722	1	1856	1	2990	0	4124	1	5258	0	6392	1
723	1	1857	1	2991	0	4125	0	5259	1	6393	1
724	1	1858	0	2992	1	4126	0	5260	1	6394	0
725	0	1859	1	2993	0	4127	0	5261	1	6395	0
726	1	1860	1	2994	1	4128	1	5262	1	6396	1
727	0	1861	0	2995	0	4129	1	5263	0	6397	0
728	0	1862	0	2996	0	4130	1	5264	0	6398	1
729	0	1863	0	2997	0	4131	0	5265	0	6399	0
730	1	1864	1	2998	1	4132	0	5266	0	6400	1
731	0	1865	0	2999	0	4133	1	5267	1	6401	1
732	1	1866	0	3000	1	4134	1	5268	0	6402	1
733	0	1867	0	3001	1	4135	0	5269	0	6403	1

734	0	1868	0	3002	0	4136	0	5270	0	6404	0
735	0	1869	0	3003	1	4137	1	5271	0	6405	0
736	1	1870	1	3004	0	4138	0	5272	1	6406	1
737	1	1871	0	3005	0	4139	0	5273	0	6407	0
738	0	1872	0	3006	1	4140	0	5274	1	6408	0
739	0	1873	0	3007	0	4141	0	5275	0	6409	1
740	0	1874	0	3008	1	4142	0	5276	0	6410	1
741	1	1875	1	3009	0	4143	0	5277	1	6411	0
742	0	1876	1	3010	0	4144	0	5278	1	6412	1
743	0	1877	0	3011	1	4145	1	5279	1	6413	0
744	0	1878	0	3012	1	4146	0	5280	0	6414	0
745	0	1879	0	3013	1	4147	0	5281	1	6415	1
746	1	1880	0	3014	1	4148	0	5282	1	6416	1
747	1	1881	0	3015	0	4149	1	5283	0	6417	1
748	0	1882	0	3016	0	4150	1	5284	0	6418	0
749	0	1883	1	3017	0	4151	1	5285	1	6419	0
750	0	1884	1	3018	1	4152	1	5286	0	6420	0
751	1	1885	0	3019	0	4153	1	5287	0	6421	1
752	1	1886	1	3020	1	4154	0	5288	0	6422	1
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754	1	1888	1	3022	0	4156	0	5290	0	6424	1
755	1	1889	0	3023	1	4157	0	5291	0	6425	1
756	0	1890	1	3024	0	4158	0	5292	0	6426	0
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758	0	1892	0	3026	0	4160	0	5294	0	6428	0
759	0	1893	0	3027	0	4161	0	5295	1	6429	1
760	1	1894	0	3028	0	4162	1	5296	0	6430	1
761	1	1895	0	3029	0	4163	1	5297	0	6431	1
762	0	1896	0	3030	0	4164	0	5298	1	6432	1
763	1	1897	0	3031	1	4165	0	5299	0	6433	1
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766	1	1900	0	3034	0	4168	1	5302	1	6436	0
767	0	1901	0	3035	0	4169	0	5303	1	6437	1
768	0	1902	1	3036	0	4170	1	5304	1	6438	1
769	0	1903	0	3037	0	4171	0	5305	1	6439	1
770	1	1904	0	3038	0	4172	1	5306	0	6440	0
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772	0	1906	0	3040	0	4174	0	5308	0	6442	1
773	0	1907	1	3041	1	4175	0	5309	1	6443	1
774	0	1908	0	3042	0	4176	1	5310	1	6444	0
775	0	1909	1	3043	1	4177	0	5311	0	6445	1
776	1	1910	0	3044	1	4178	0	5312	0	6446	1
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779	0	1913	0	3047	1	4181	0	5315	1	6449	1
780	0	1914	1	3048	0	4182	0	5316	1	6450	0
781	0	1915	1	3049	1	4183	1	5317	0	6451	1
782	1	1916	1	3050	1	4184	1	5318	0	6452	1
783	1	1917	1	3051	0	4185	0	5319	0	6453	1
784	1	1918	0	3052	0	4186	1	5320	0	6454	1
785	1	1919	0	3053	0	4187	1	5321	1	6455	1
786	0	1920	1	3054	0	4188	1	5322	0	6456	1
787	1	1921	0	3055	1	4189	0	5323	0	6457	0
788	1	1922	1	3056	1	4190	0	5324	1	6458	0
789	0	1923	0	3057	0	4191	0	5325	0	6459	0
790	1	1924	1	3058	0	4192	0	5326	0	6460	0
791	1	1925	1	3059	1	4193	0	5327	0	6461	1
792	0	1926	1	3060	0	4194	1	5328	0	6462	0
793	1	1927	0	3061	1	4195	1	5329	0	6463	1
794	1	1928	1	3062	1	4196	1	5330	0	6464	0
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796	1	1930	0	3064	0	4198	1	5332	1	6466	0
797	0	1931	1	3065	1	4199	0	5333	1	6467	0
798	1	1932	0	3066	1	4200	1	5334	0	6468	0
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800	0	1934	0	3068	1	4202	1	5336	0	6470	1
801	1	1935	1	3069	1	4203	0	5337	0	6471	1
802	1	1936	1	3070	0	4204	1	5338	0	6472	1
803	1	1937	0	3071	1	4205	0	5339	1	6473	0
804	1	1938	1	3072	1	4206	1	5340	1	6474	1
805	1	1939	1	3073	0	4207	1	5341	1	6475	1
806	0	1940	1	3074	0	4208	0	5342	0	6476	0
807	1	1941	0	3075	1	4209	0	5343	1	6477	1
808	1	1942	1	3076	1	4210	0	5344	0	6478	0
809	1	1943	0	3077	1	4211	1	5345	0	6479	1
810	0	1944	1	3078	1	4212	0	5346	1	6480	0
811	0	1945	1	3079	1	4213	1	5347	0	6481	1
812	1	1946	0	3080	0	4214	0	5348	1	6482	0
813	1	1947	1	3081	0	4215	0	5349	0	6483	0
814	0	1948	0	3082	1	4216	0	5350	0	6484	0
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816	1	1950	0	3084	0	4218	0	5352	0	6486	1
817	0	1951	0	3085	0	4219	0	5353	0	6487	1
818	0	1952	1	3086	0	4220	0	5354	0	6488	1
819	1	1953	1	3087	1	4221	1	5355	0	6489	0
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821	0	1955	0	3089	0	4223	0	5357	0	6491	1

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825	1	1959	1	3093	0	4227	0	5361	0	6495	1
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828	1	1962	0	3096	1	4230	1	5364	1	6498	0
829	1	1963	1	3097	1	4231	0	5365	0	6499	0
830	1	1964	1	3098	1	4232	1	5366	0	6500	1
831	0	1965	0	3099	1	4233	0	5367	1	6501	0
832	1	1966	1	3100	1	4234	1	5368	0	6502	0
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835	0	1969	1	3103	1	4237	1	5371	1	6505	1
836	1	1970	1	3104	1	4238	0	5372	1	6506	0
837	0	1971	0	3105	0	4239	0	5373	1	6507	1
838	0	1972	0	3106	0	4240	0	5374	0	6508	1
839	1	1973	0	3107	1	4241	0	5375	0	6509	1
840	1	1974	1	3108	0	4242	0	5376	1	6510	0
841	1	1975	1	3109	1	4243	0	5377	0	6511	0
842	0	1976	0	3110	1	4244	1	5378	0	6512	0
843	0	1977	1	3111	0	4245	0	5379	1	6513	1
844	1	1978	1	3112	1	4246	1	5380	1	6514	0
845	0	1979	1	3113	0	4247	0	5381	1	6515	1
846	0	1980	1	3114	1	4248	1	5382	1	6516	0
847	0	1981	1	3115	0	4249	1	5383	0	6517	1
848	1	1982	0	3116	0	4250	0	5384	1	6518	1
849	1	1983	1	3117	0	4251	1	5385	1	6519	0
850	1	1984	0	3118	0	4252	0	5386	0	6520	1
851	0	1985	1	3119	0	4253	0	5387	1	6521	1
852	1	1986	0	3120	1	4254	0	5388	0	6522	0
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854	1	1988	0	3122	1	4256	0	5390	1	6524	1
855	0	1989	1	3123	0	4257	1	5391	0	6525	0
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857	1	1991	1	3125	1	4259	0	5393	0	6527	1
858	0	1992	1	3126	0	4260	0	5394	0	6528	0
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860	1	1994	0	3128	1	4262	1	5396	1	6530	1
861	0	1995	1	3129	1	4263	0	5397	1	6531	1
862	1	1996	0	3130	1	4264	1	5398	1	6532	0
863	1	1997	1	3131	1	4265	0	5399	0	6533	1
864	0	1998	0	3132	1	4266	0	5400	1	6534	1
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869	1	2003	0	3137	0	4271	0	5405	0	6539	0
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873	0	2007	1	3141	1	4275	1	5409	0	6543	1
874	0	2008	0	3142	0	4276	0	5410	0	6544	1
875	1	2009	0	3143	1	4277	1	5411	1	6545	1
876	0	2010	0	3144	0	4278	0	5412	1	6546	0
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878	1	2012	1	3146	1	4280	1	5414	1	6548	1
879	0	2013	1	3147	1	4281	1	5415	0	6549	1
880	0	2014	1	3148	1	4282	1	5416	1	6550	1
881	0	2015	1	3149	1	4283	0	5417	1	6551	0
882	1	2016	1	3150	0	4284	1	5418	0	6552	0
883	1	2017	0	3151	1	4285	0	5419	1	6553	1
884	0	2018	0	3152	0	4286	1	5420	1	6554	0
885	0	2019	0	3153	1	4287	0	5421	0	6555	1
886	1	2020	1	3154	0	4288	0	5422	0	6556	0
887	0	2021	0	3155	0	4289	0	5423	1	6557	1
888	0	2022	0	3156	1	4290	0	5424	1	6558	1
889	1	2023	0	3157	0	4291	0	5425	1	6559	1
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891	1	2025	1	3159	0	4293	1	5427	0	6561	1
892	1	2026	0	3160	1	4294	0	5428	1	6562	0
893	0	2027	1	3161	1	4295	0	5429	1	6563	1
894	1	2028	0	3162	1	4296	1	5430	1	6564	0
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897	0	2031	1	3165	0	4299	0	5433	1	6567	1
898	1	2032	1	3166	0	4300	1	5434	0	6568	0
899	0	2033	0	3167	1	4301	0	5435	0	6569	0
900	1	2034	0	3168	1	4302	0	5436	1	6570	1
901	1	2035	1	3169	0	4303	1	5437	0	6571	0
902	1	2036	1	3170	0	4304	1	5438	0	6572	0
903	1	2037	0	3171	1	4305	1	5439	0	6573	1
904	1	2038	1	3172	1	4306	0	5440	0	6574	0
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906	1	2040	0	3174	0	4308	0	5442	0	6576	0
907	1	2041	1	3175	1	4309	1	5443	1	6577	1
908	1	2042	0	3176	1	4310	0	5444	1	6578	1
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917	0	2051	1	3185	0	4319	1	5453	1	6587	0
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934	1	2068	0	3202	1	4336	0	5470	1	6604	0
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936	0	2070	1	3204	1	4338	1	5472	1	6606	1
937	1	2071	0	3205	1	4339	1	5473	0	6607	1
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939	1	2073	1	3207	0	4341	1	5475	0	6609	1
940	0	2074	0	3208	0	4342	1	5476	0	6610	0
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942	0	2076	1	3210	0	4344	1	5478	1	6612	0
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946	0	2080	1	3214	1	4348	1	5482	0	6616	1
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966	0	2100	1	3234	0	4368	1	5502	0	6636	1
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971	1	2105	1	3239	1	4373	1	5507	1	6641	0
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973	0	2107	0	3241	0	4375	0	5509	0	6643	1
974	1	2108	1	3242	1	4376	0	5510	0	6644	0
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976	0	2110	0	3244	1	4378	0	5512	0	6646	1
977	0	2111	1	3245	1	4379	1	5513	1	6647	0
978	1	2112	1	3246	1	4380	0	5514	0	6648	0
979	1	2113	1	3247	0	4381	0	5515	1	6649	1
980	0	2114	1	3248	0	4382	0	5516	0	6650	1
981	0	2115	1	3249	0	4383	0	5517	1	6651	1
982	1	2116	1	3250	1	4384	0	5518	1	6652	1
983	0	2117	0	3251	1	4385	0	5519	0	6653	0
984	1	2118	0	3252	1	4386	0	5520	1	6654	1
985	1	2119	0	3253	1	4387	1	5521	0	6655	0
986	0	2120	1	3254	0	4388	0	5522	0	6656	1
987	0	2121	1	3255	0	4389	0	5523	1	6657	1
988	0	2122	0	3256	1	4390	0	5524	0	6658	1
989	1	2123	1	3257	0	4391	0	5525	0	6659	1
990	1	2124	0	3258	1	4392	0	5526	0	6660	0
991	1	2125	0	3259	1	4393	1	5527	0	6661	0
992	0	2126	1	3260	1	4394	0	5528	0	6662	1
993	0	2127	1	3261	1	4395	0	5529	1	6663	0
994	0	2128	1	3262	1	4396	0	5530	1	6664	1
995	1	2129	0	3263	0	4397	0	5531	0	6665	0
996	0	2130	0	3264	0	4398	0	5532	1	6666	1
997	0	2131	0	3265	0	4399	0	5533	0	6667	1

998	1	2132	1	3266	1	4400	1	5534	0	6668	0
999	1	2133	1	3267	1	4401	0	5535	1	6669	0
1000	1	2134	1	3268	1	4402	1	5536	0	6670	1
1001	1	2135	1	3269	1	4403	1	5537	1	6671	0
1002	1	2136	0	3270	1	4404	1	5538	0	6672	0
1003	0	2137	1	3271	0	4405	1	5539	1	6673	1
1004	0	2138	1	3272	0	4406	0	5540	0	6674	1
1005	1	2139	1	3273	0	4407	0	5541	1	6675	1
1006	1	2140	1	3274	0	4408	0	5542	1	6676	0
1007	1	2141	1	3275	0	4409	1	5543	1	6677	0
1008	1	2142	1	3276	1	4410	0	5544	1	6678	0
1009	1	2143	1	3277	1	4411	0	5545	0	6679	1
1010	0	2144	1	3278	1	4412	0	5546	1	6680	0
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1012	1	2146	0	3280	0	4414	0	5548	0	6682	0
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1014	0	2148	1	3282	0	4416	1	5550	1	6684	0
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1021	1	2155	0	3289	0	4423	1	5557	0	6691	1
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1024	1	2158	0	3292	0	4426	0	5560	1	6694	1
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1031	0	2165	0	3299	0	4433	1	5567	0	6701	1
1032	0	2166	0	3300	1	4434	0	5568	0	6702	1
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