

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

$$(a, b) = (z^2 + 1, z^5 + z^4 + z^2 + 1)$$

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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 $(a, b) = (z^2 + 1, z^5 + z^4 + z^2 + 1)$.

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

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

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Theorem 1.1. *When $(a, b) = (z^2 + 1, z^5 + z^4 + z^2 + 1)$, 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 $\text{CF}(a, b)$,

$$\begin{aligned} p_0(z) &= z^{17} + z^{14} + z^{12} + z^{11} + z^9 + z^8 + z^7 + z^6 + z^5 + z^4 + 1, \\ p_1(z) &= z^{22} + z^{20} + z^{19} + z^{18} + z^{17} + z^{13} + z^{12} + z^8 + z^5 + z^4, \\ p_2(z) &= z^{24} + z^{20} + z^{14} + z^{10} + z^4 + 1, \\ p_3(z) &= z^{22} + z^{20} + z^{19} + z^{18} + z^{17} + z^{13} + z^{12} + z^8 + z^5 + z^4, \\ p_4(z) &= z^{20} + z^{17} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^5 + z^4 + 1, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{17} + z^{16} + z^{14} + z^{12} + z^{11} + z^9 + z^8 + z^7 + z^6 + z^5 + z^4 + 1, \\ p_1(z) &= z^{22} + z^{20} + z^{19} + z^{18} + z^{17} + z^{13} + z^{12} + z^8 + z^5 + z^4, \\ p_2(z) &= z^{24} + z^{20} + z^{14} + z^{10} + z^4 + 1, \\ p_3(z) &= z^{22} + z^{20} + z^{19} + z^{18} + z^{17} + z^{13} + z^{12} + z^8 + z^5 + z^4, \\ p_4(z) &= z^{20} + z^{17} + z^{16} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^5 + z^4 + 1. \end{aligned}$$

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.*

$$\begin{aligned} M^e[:14u] &= M^e[:7u] + x^u M^e[:6u] + x^{2u} M^e[:5u] + x^{4u} M^e[:3u] + x^{5u} M^e[:2u] \\ &\quad + x^{6u} M^e[:u] + x^u M^e[:7u] + x^{2u} M^e[:6u] + x^{3u} M^e[:5u] \\ &\quad + x^{5u} M^e[:3u] + x^{6u} M^e[:2u] + x^{7u} M^e[:u] + x^{3u} M^e[:7u] \\ &\quad + x^{4u} M^e[:6u] + x^{5u} M^e[:5u] + x^{7u} M^e[:3u] + x^{8u} M^e[:2u] \\ &\quad + x^{9u} M^e[:u] + x^{5u} M^e[:7u] + x^{6u} M^e[:6u] + x^{7u} M^e[:5u] \\ &\quad + x^{9u} M^e[:3u] + x^{10u} M^e[:2u] + x^{11u} M^e[:u] + x^{6u} M^e[:7u] \end{aligned}$$

$$\begin{aligned}
& + x^{7u}M^e[:6u] + x^{8u}M^e[:5u] + x^{10u}M^e[:3u] + x^{11u}M^e[:2u] \\
& + x^{12u}M^e[:u] + x^{7u}M^e[:7u] + x^{8u}M^e[:6u] + x^{11u}M^e[:3u] \\
& + x^{13u}M^e[:u] + (x^{7u} + x^{8u} + x^{10u} + x^{12u} + x^{13u})R^e, \\
W^e[:14u] = & W^e[:7u] + x^uW^e[:6u] + x^{2u}W^e[:5u] + x^{4u}W^e[:3u] + x^{5u}W^e[:2u] \\
& + x^{6u}W^e[:u] + x^uW^e[:7u] + x^{2u}W^e[:6u] + x^{3u}W^e[:5u] \\
& + x^{5u}W^e[:3u] + x^{6u}W^e[:2u] + x^{7u}W^e[:u] + x^{3u}W^e[:7u] \\
& + x^{4u}W^e[:6u] + x^{5u}W^e[:5u] + x^{7u}W^e[:3u] + x^{8u}W^e[:2u] \\
& + x^{9u}W^e[:u] + x^{5u}W^e[:7u] + x^{6u}W^e[:6u] + x^{7u}W^e[:5u] \\
& + x^{9u}W^e[:3u] + x^{10u}W^e[:2u] + x^{11u}W^e[:u] + x^{6u}W^e[:7u] \\
& + x^{7u}W^e[:6u] + x^{8u}W^e[:5u] + x^{10u}W^e[:3u] + x^{11u}W^e[:2u] \\
& + x^{12u}W^e[:u] + x^{7u}W^e[:7u] + x^{8u}W^e[:6u] + x^{11u}W^e[:3u] \\
& + x^{13u}W^e[:u] + (x^{7u} + x^{8u} + x^{10u} + x^{12u} + x^{13u})R^e.
\end{aligned}$$

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

$$\begin{aligned}
M^o[:14u] = & M^o[:7u] + x^uM^o[:6u] + x^{2u}M^o[:5u] + x^{4u}M^o[:3u] + x^{5u}M^o[:2u] \\
& + x^{6u}M^o[:u] + x^uM^o[:7u] + x^{2u}M^o[:6u] + x^{3u}M^o[:5u] \\
& + x^{5u}M^o[:3u] + x^{6u}M^o[:2u] + x^{7u}M^o[:u] + x^{3u}M^o[:7u] \\
& + x^{4u}M^o[:6u] + x^{5u}M^o[:5u] + x^{7u}M^o[:3u] + x^{8u}M^o[:2u] \\
& + x^{9u}M^o[:u] + x^{5u}M^o[:7u] + x^{6u}M^o[:6u] + x^{7u}M^o[:5u] \\
& + x^{9u}M^o[:3u] + x^{10u}M^o[:2u] + x^{11u}M^o[:u] + x^{6u}M^o[:7u] \\
& + x^{7u}M^o[:6u] + x^{8u}M^o[:5u] + x^{10u}M^o[:3u] + x^{11u}M^o[:2u] \\
& + x^{12u}M^o[:u] + x^{7u}M^o[:7u] + x^{8u}M^o[:6u] + x^{11u}M^o[:3u] \\
& + x^{13u}M^o[:u] + (x^{7u} + x^{8u} + x^{10u} + x^{12u} + x^{13u})R^o, \\
W^o[:14u] = & W^o[:7u] + x^uW^o[:6u] + x^{2u}W^o[:5u] + x^{4u}W^o[:3u] + x^{5u}W^o[:2u] \\
& + x^{6u}W^o[:u] + x^uW^o[:7u] + x^{2u}W^o[:6u] + x^{3u}W^o[:5u] \\
& + x^{5u}W^o[:3u] + x^{6u}W^o[:2u] + x^{7u}W^o[:u] + x^{3u}W^o[:7u] \\
& + x^{4u}W^o[:6u] + x^{5u}W^o[:5u] + x^{7u}W^o[:3u] + x^{8u}W^o[:2u] \\
& + x^{9u}W^o[:u] + x^{5u}W^o[:7u] + x^{6u}W^o[:6u] + x^{7u}W^o[:5u] \\
& + x^{9u}W^o[:3u] + x^{10u}W^o[:2u] + x^{11u}W^o[:u] + x^{6u}W^o[:7u] \\
& + x^{7u}W^o[:6u] + x^{8u}W^o[:5u] + x^{10u}W^o[:3u] + x^{11u}W^o[:2u] \\
& + x^{12u}W^o[:u] + x^{7u}W^o[:7u] + x^{8u}W^o[:6u] + x^{11u}W^o[:3u] \\
& + x^{13u}W^o[:u] + (x^{7u} + x^{8u} + x^{10u} + x^{12u} + x^{13u})R^o.
\end{aligned}$$

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 $u = 2^{2k}$,

$$T[:14u] = T[:7u] + x^uT[:6u] + x^{2u}T[:5u] + x^{4u}T[:3u] + x^{5u}T[:2u] + x^{6u}T[:u]$$

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

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

$$\begin{aligned}
x^7 u &= x^{7u} T[:u] + x^{6u} T[u:2u] + x^{5u} T[2u:3u] + x^{4u} T[3u:4u] \\
&+ x^{2u} T[5u:6u] + x^u T[6u:7u] + T[7u:8u], \\
x^8 u &= x^{8u} T[:u] + x^{4u} T[4u:5u] + x^{3u} T[5u:6u] + T[8u:9u], \\
0 &= x^{8u} T[u:2u] + x^{4u} T[5u:6u] + x^{3u} T[6u:7u] + T[9u:10u], \\
x^1 0u &= x^{9u} T[u:2u] + x^{7u} T[3u:4u] + x^{5u} T[5u:6u] + T[10u:11u], \\
0 &= x^{11u} T[:u] + x^{9u} T[2u:3u] + x^{7u} T[4u:5u] + x^{5u} T[6u:7u] \\
&+ T[11u:12u], \\
x^1 2u &= x^{12u} T[:u] + x^{10u} T[2u:3u] + x^{6u} T[6u:7u] + T[12u:13u], \\
x^1 3u &= x^{13u} T[:u] + x^{11u} T[2u:3u] + x^{8u} T[5u:6u] + x^{7u} T[6u:7u] \\
&+ T[13u:14u],
\end{aligned}$$

which can be rewritten as

$$\begin{aligned}
(2.7) \quad 0 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] \\
&+ T[[110w]_2] + T[[111w]_2], \\
(2.8) \quad 0 &= T[[w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1000w]_2], \\
(2.9) \quad 0 &= T[[1w]_2] + T[[101w]_2] + T[[110w]_2] + T[[1001w]_2], \\
(2.10) \quad 0 &= T[[1w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1010w]_2], \\
(2.11) \quad 0 &= T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[110w]_2] + T[[1011w]_2], \\
(2.12) \quad 0 &= T[[w]_2] + T[[10w]_2] + T[[110w]_2] + T[[1100w]_2], \\
(2.13) \quad 0 &= T[[w]_2] + T[[10w]_2] + T[[101w]_2] + T[[110w]_2] + T[[1101w]_2],
\end{aligned}$$

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

$$\begin{aligned}
(2.14) \quad 1 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] \\
&+ T[[110w]_2] + T[[111w]_2], \\
(2.15) \quad 1 &= T[[w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1000w]_2], \\
(2.16) \quad 0 &= T[[1w]_2] + T[[101w]_2] + T[[110w]_2] + T[[1001w]_2], \\
(2.17) \quad 1 &= T[[1w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1010w]_2], \\
(2.18) \quad 0 &= T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[110w]_2] + T[[1011w]_2], \\
(2.19) \quad 1 &= T[[w]_2] + T[[10w]_2] + T[[110w]_2] + T[[1100w]_2],
\end{aligned}$$

$$(2.20) \quad 1 = T[[w]_2] + T[[10w]_2] + T[[101w]_2] + T[[110w]_2] + T[[1101w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 6726 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

$$(2.21) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\ &\quad + \tau(A(s, 110)) + \tau(A(s, 111)), \end{aligned}$$

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

$$(2.23) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 110)) + \tau(A(s, 1001)),$$

$$(2.24) \quad \begin{aligned} 0 &= \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1010)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 110)) \end{aligned}$$

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

$$(2.26) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 110)) + \tau(A(s, 1100)),$$

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

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

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

$$(2.28) \quad \begin{aligned} 1 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\ &\quad + \tau(A(s, 110)) + \tau(A(s, 111)), \end{aligned}$$

$$(2.29) \quad 1 = \tau(A(s, \epsilon)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

$$(2.30) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 110)) + \tau(A(s, 1001)),$$

$$(2.31) \quad \begin{aligned} 1 &= \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1010)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 110)) \end{aligned}$$

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

$$(2.33) \quad 1 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 110)) + \tau(A(s, 1100)),$$

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

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

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{34}), E_{34}) = (A(i, 0^{18}), E_{18})$, so that we only have to verify that identities (2.21) through (2.34) hold for $2 \leq k \leq 17$, 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 $u = 2^{2k-1}$,*

$$\begin{aligned} M_{2k} &= M^e[:7u] + x^u M^e[:6u] + x^{2u} M^e[:5u] + x^{4u} M^e[:3u] + x^{5u} M^e[:2u] \\ &\quad + x^{6u} M^e[:u] + x^{7u} R^e, \end{aligned}$$

$$W_{2k} = W^e[:7u] + x^u W^e[:6u] + x^{2u} W^e[:5u] + x^{4u} W^e[:3u] + x^{5u} W^e[:2u]$$

$$+ x^{6u}W^e[:u] + x^{7u}R^e.$$

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

$$\begin{aligned} M_{2k+1} &= M^o[:7u] + x^u M^o[:6u] + x^{2u} M^o[:5u] + x^{4u} M^o[:3u] + x^{5u} M^o[:2u] \\ &\quad + x^{6u} M^o[:u] + x^{7u} R^o, \\ W_{2k+1} &= W^o[:7u] + x^u W^o[:6u] + x^{2u} W^o[:5u] + x^{4u} W^o[:3u] + x^{5u} W^o[:2u] \\ &\quad + x^{6u} W^o[:u] + x^{7u} R^o. \end{aligned}$$

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

$$\begin{aligned} W_{2k} M_{2k} &= (W^e[:7v] + x^v W^e[:6v] + x^{2v} W^e[:5v] + x^{4v} W^e[:3v] \\ &\quad + x^{5v} W^e[:2v] + x^{6v} W^e[:v] + x^{7v} R^e) \times (M^e[:7v] + x^v M^e[:6v] \\ &\quad + x^{2v} M^e[:5v] + x^{4v} M^e[:3v] + x^{5v} M^e[:2v] + x^{6v} M^e[:v] + x^{7v} R^e \\ (2.35) \quad &); \end{aligned}$$

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

$$\begin{aligned} &W^e[:14v] M^e[:14v] + x^{2v} W^e[:12v] M^e[:12v] + x^{4v} W^e[:10v] M^e[:10v] \\ &\quad + x^{8v} W^e[:6v] M^e[:6v] + x^{10v} W^e[:4v] M^e[:4v] + x^{12v} W^e[:2v] M^e[:2v]. \end{aligned}$$

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

$$\begin{aligned}q_0(x) &= x^{24} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{13} + x^{12} + x^{10} + x^7, \\ q_1(x) &= x^{20} + x^{19} + x^{16} + x^{12} + x^{11} + x^7 + x^6 + x^5 + x^4 + x^2, \\ q_2(x) &= x^{24} + x^{20} + x^{14} + x^{10} + x^4 + 1, \\ q_3(x) &= x^{20} + x^{19} + x^{16} + x^{12} + x^{11} + x^7 + x^6 + x^5 + x^4 + x^2, \\ q_4(x) &= x^{24} + x^{20} + x^{19} + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^7 + x^4.\end{aligned}$$

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

$$\begin{aligned}p_0(x) &= x^{138} + x^{136} + x^{128} + x^{120} + x^{118} + x^{116} + x^{114} + x^{110} + x^{106} + x^{102} \\ &\quad + x^{98} + x^{96} + x^{94} + x^{90} + x^{86} + x^{80} + x^{78} + x^{76} + x^{74} + x^{64} + x^{62} \\ &\quad + x^{58} + x^{56} + x^{54} + x^{48} + x^{42} + x^{36} + x^{34} + x^{30} + x^{26} + x^{24},\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{130} + x^{126} + x^{110} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{88} + x^{86} + x^{82} \\
& + x^{74} + x^{72} + x^{68} + x^{64} + x^{62} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} + x^{44} \\
& + x^{40} + x^{38} + x^{32} + x^{30} + x^{24} + x^{16},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{128} + x^{118} + x^{114} + x^{106} + x^{104} + x^{98} + x^{96} + x^{90} + x^{88} + x^{86} + x^{84} \\
& + x^{80} + x^{78} + x^{72} + x^{70} + x^{68} + x^{66} + x^{60} + x^{56} + x^{52} + x^{50} + x^{48} \\
& + x^{46} + x^{42} + x^{34} + x^{32} + x^{26} + x^{22} + x^{20} + x^{16} + x^{14} + x^8 + x^6 + x^4 \\
& + x^2 + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{130} + x^{126} + x^{122} + x^{116} + x^{112} + x^{110} + x^{100} + x^{98} + x^{96} + x^{94} \\
& + x^{92} + x^{84} + x^{82} + x^{76} + x^{72} + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} \\
& + x^{44} + x^{42} + x^{36} + x^{32} + x^{30} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} \\
& + x^6 + x^4,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{138} + x^{136} + x^{106} + x^{104} + x^{98} + x^{96} + x^{90} + x^{88} + x^{82} + x^{80} + x^{66} \\
& + x^{64} + x^{58} + x^{56} + x^{50} + x^{48} + x^{42} + x^{40} + x^{26} + x^{24} + x^{10} + x^8 \\
& + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{129} + x^{127} + x^{125} + x^{124} + x^{121} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{107} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{93} \\
& + x^{89} + x^{87} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{70} + x^{67} + x^{66} + x^{64} \\
& + x^{60} + x^{58} + x^{55} + x^{54} + x^{52} + x^{51} + x^{48} + x^{46} + x^{44} + x^{40} + x^{39} \\
& + x^{38} + x^{37} + x^{36} + x^{34} + x^{33},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{73} \\
& + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{41} + x^{40} + x^{39} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{105} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} + x^{90} + x^{86} + x^{84} \\
& + x^{83} + x^{80} + x^{76} + x^{75} + x^{74} + x^{71} + x^{67} + x^{66} + x^{64} + x^{62} + x^{61} \\
& + x^{58} + x^{57} + x^{54} + x^{53} + x^{50} + x^{49} + x^{46} + x^{42} + x^{41} + x^{40} + x^{39} \\
& + x^{35} + x^{34} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} + x^{18} \\
& + x^{17} + x^{15} + x^{13} + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{117} + x^{116} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} + x^{102} + x^{97} + x^{96} \\
& + x^{89} + x^{88} + x^{83} + x^{82} + x^{73} + x^{72} + x^{71} + x^{70} + x^{63} + x^{62} + x^{55} \\
& + x^{54} + x^{51} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{35} + x^{34} + x^{31} + x^{30} \\
& + x^{27} + x^{26} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^9 + x^8 + x^7 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{129} + x^{127} + x^{125} + x^{124} + x^{113} + x^{111} + x^{108} + x^{107} + x^{104} + x^{103} \\
& + x^{100} + x^{99} + x^{96} + x^{95} + x^{92} + x^{91} + x^{88} + x^{87} + x^{84} + x^{83} + x^{80} \\
& + x^{79} + x^{76} + x^{75} + x^{72} + x^{71} + x^{68} + x^{67} + x^{65} + x^{64} + x^{61} + x^{59} \\
& + x^{56} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{33} + x^{31} + x^{29} + x^{28} + x^{13} \\
& + x^{11} + x^8 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{129} + x^{127} + x^{125} + x^{124} + x^{121} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{107} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{93} \\
& + x^{89} + x^{87} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{70} + x^{67} + x^{66} + x^{64} \\
& + x^{60} + x^{58} + x^{55} + x^{54} + x^{52} + x^{51} + x^{48} + x^{46} + x^{44} + x^{40} + x^{39} \\
& + x^{38} + x^{37} + x^{36} + x^{34} + x^{33},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{73} \\
& + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{41} + x^{40} + x^{39} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{105} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} + x^{90} + x^{86} + x^{84} \\
& + x^{83} + x^{80} + x^{76} + x^{75} + x^{74} + x^{71} + x^{67} + x^{66} + x^{64} + x^{62} + x^{61} \\
& + x^{58} + x^{57} + x^{54} + x^{53} + x^{50} + x^{49} + x^{46} + x^{42} + x^{41} + x^{40} + x^{39} \\
& + x^{35} + x^{34} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} + x^{18} \\
& + x^{17} + x^{15} + x^{13} + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{117} + x^{116} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} + x^{102} + x^{97} + x^{96} \\
& + x^{89} + x^{88} + x^{83} + x^{82} + x^{73} + x^{72} + x^{71} + x^{70} + x^{63} + x^{62} + x^{55} \\
& + x^{54} + x^{51} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{35} + x^{34} + x^{31} + x^{30} \\
& + x^{27} + x^{26} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^9 + x^8 + x^7 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{129} + x^{127} + x^{125} + x^{124} + x^{113} + x^{111} + x^{108} + x^{107} + x^{104} + x^{103} \\
& + x^{100} + x^{99} + x^{96} + x^{95} + x^{92} + x^{91} + x^{88} + x^{87} + x^{84} + x^{83} + x^{80} \\
& + x^{79} + x^{76} + x^{75} + x^{72} + x^{71} + x^{68} + x^{67} + x^{65} + x^{64} + x^{61} + x^{59} \\
& + x^{56} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{33} + x^{31} + x^{29} + x^{28} + x^{13} \\
& + x^{11} + x^8 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{120} + x^{118} + x^{112} + x^{110} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} \\
& + x^{88} + x^{84} + x^{78} + x^{76} + x^{70} + x^{66} + x^{64} + x^{60} + x^{56} + x^{54} + x^{52}
\end{aligned}$$

$$\begin{aligned}
& + x^{50} + x^{42}, \\
p_3(x) &= x^{112} + x^{108} + x^{104} + x^{102} + x^{96} + x^{92} + x^{74} + x^{72} + x^{70} + x^{68} + x^{54} \\
& + x^{52} + x^{48} + x^{46} + x^{42} + x^{40} + x^{32} + x^{28} + x^{26} + x^{24} + x^{18} + x^{12}, \\
p_6(x) &= x^{110} + x^{104} + x^{100} + x^{94} + x^{92} + x^{88} + x^{86} + x^{74} + x^{72} + x^{64} + x^{62} \\
& + x^{56} + x^{52} + x^{48} + x^{42} + x^{40} + x^{30} + x^{28} + x^{26} + x^{24} + x^{22} + x^{20} \\
& + x^{18} + x^{16} + x^{14} + x^6 + x^4 + 1, \\
p_9(x) &= x^{112} + x^{108} + x^{102} + x^{98} + x^{96} + x^{86} + x^{82} + x^{78} + x^{72} + x^{68} + x^{66} \\
& + x^{56} + x^{52} + x^{44} + x^{42} + x^{36} + x^{34} + x^{32} + x^{26} + x^{16} + x^{14} + x^4, \\
p_{12}(x) &= x^{120} + x^{118} + x^{112} + x^{56} + x^{54} + x^{48} + x^{24} + x^{22} + x^{16} + x^8 + x^6 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{120} + x^{118} + x^{112} + x^{110} + x^{86} + x^{84} + x^{78} + x^{76} + x^{72} + x^{68} + x^{64} \\
& + x^{60} + x^{56} + x^{54} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{42} + x^{24}, \\
p_3(x) &= x^{112} + x^{108} + x^{104} + x^{102} + x^{92} + x^{76} + x^{74} + x^{70} + x^{64} + x^{54} + x^{52} \\
& + x^{46} + x^{44} + x^{42} + x^{40} + x^{36} + x^{32} + x^{26} + x^{18} + x^{16}, \\
p_6(x) &= x^{110} + x^{102} + x^{98} + x^{94} + x^{88} + x^{86} + x^{84} + x^{82} + x^{74} + x^{66} + x^{62} \\
& + x^{60} + x^{54} + x^{52} + x^{46} + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{24} \\
& + x^{18} + x^{12} + x^8 + x^6 + x^4 + 1, \\
p_9(x) &= x^{112} + x^{108} + x^{102} + x^{98} + x^{96} + x^{86} + x^{82} + x^{78} + x^{72} + x^{68} + x^{66} \\
& + x^{56} + x^{52} + x^{44} + x^{42} + x^{36} + x^{34} + x^{32} + x^{26} + x^{16} + x^{14} + x^4, \\
p_{12}(x) &= x^{120} + x^{118} + x^{112} + x^{56} + x^{54} + x^{48} + x^{24} + x^{22} + x^{16} + x^8 + x^6 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{121} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{107} + x^{105} + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} \\
& + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{80} + x^{79} + x^{76} + x^{72} + x^{69} + x^{68} \\
& + x^{66} + x^{65} + x^{58} + x^{56} + x^{53} + x^{50} + x^{48} + x^{46} + x^{45} + x^{44} + x^{42} \\
& + x^{41} + x^{40} + x^{37} + x^{36} + x^{33}, \\
p_3(x) &= x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{73} \\
& + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{41} + x^{40} + x^{39} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{105} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} + x^{90} + x^{86} + x^{84} \\
& + x^{83} + x^{80} + x^{76} + x^{75} + x^{74} + x^{71} + x^{67} + x^{66} + x^{64} + x^{62} + x^{61}
\end{aligned}$$

$$\begin{aligned}
& + x^{58} + x^{57} + x^{54} + x^{53} + x^{50} + x^{49} + x^{46} + x^{42} + x^{41} + x^{40} + x^{39} \\
& + x^{35} + x^{34} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} + x^{18} \\
& + x^{17} + x^{15} + x^{13} + x^{12}, \\
p_9(x) &= x^{117} + x^{116} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} + x^{102} + x^{97} + x^{96} \\
& + x^{89} + x^{88} + x^{83} + x^{82} + x^{73} + x^{72} + x^{71} + x^{70} + x^{63} + x^{62} + x^{55} \\
& + x^{54} + x^{51} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{35} + x^{34} + x^{31} + x^{30} \\
& + x^{27} + x^{26} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{113} + x^{111} + x^{108} + x^{107} + x^{104} + x^{103} \\
& + x^{100} + x^{99} + x^{96} + x^{95} + x^{92} + x^{91} + x^{88} + x^{87} + x^{84} + x^{83} + x^{80} \\
& + x^{79} + x^{76} + x^{75} + x^{72} + x^{71} + x^{68} + x^{67} + x^{65} + x^{64} + x^{61} + x^{59} \\
& + x^{56} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{33} + x^{31} + x^{29} + x^{28} + x^{13} \\
& + x^{11} + x^8 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{121} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{107} + x^{105} + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} \\
& + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{80} + x^{79} + x^{76} + x^{72} + x^{69} + x^{68} \\
& + x^{66} + x^{65} + x^{58} + x^{56} + x^{53} + x^{50} + x^{48} + x^{46} + x^{45} + x^{44} + x^{42} \\
& + x^{41} + x^{40} + x^{37} + x^{36} + x^{33}, \\
p_3(x) &= x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{73} \\
& + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{41} + x^{40} + x^{39} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{105} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} + x^{90} + x^{86} + x^{84} \\
& + x^{83} + x^{80} + x^{76} + x^{75} + x^{74} + x^{71} + x^{67} + x^{66} + x^{64} + x^{62} + x^{61} \\
& + x^{58} + x^{57} + x^{54} + x^{53} + x^{50} + x^{49} + x^{46} + x^{42} + x^{41} + x^{40} + x^{39} \\
& + x^{35} + x^{34} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} + x^{18} \\
& + x^{17} + x^{15} + x^{13} + x^{12}, \\
p_9(x) &= x^{117} + x^{116} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} + x^{102} + x^{97} + x^{96} \\
& + x^{89} + x^{88} + x^{83} + x^{82} + x^{73} + x^{72} + x^{71} + x^{70} + x^{63} + x^{62} + x^{55} \\
& + x^{54} + x^{51} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{35} + x^{34} + x^{31} + x^{30} \\
& + x^{27} + x^{26} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{113} + x^{111} + x^{108} + x^{107} + x^{104} + x^{103} \\
& + x^{100} + x^{99} + x^{96} + x^{95} + x^{92} + x^{91} + x^{88} + x^{87} + x^{84} + x^{83} + x^{80}
\end{aligned}$$

$$\begin{aligned}
& + x^{79} + x^{76} + x^{75} + x^{72} + x^{71} + x^{68} + x^{67} + x^{65} + x^{64} + x^{61} + x^{59} \\
& + x^{56} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{33} + x^{31} + x^{29} + x^{28} + x^{13} \\
& + x^{11} + x^8 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{136} + x^{128} + x^{122} + x^{114} + x^{110} + x^{104} + x^{102} + x^{96} + x^{94} \\
&+ x^{88} + x^{84} + x^{80} + x^{78} + x^{76} + x^{70} + x^{66} + x^{62} + x^{58} + x^{56} + x^{50} \\
&+ x^{48} + x^{42}, \\
p_3(x) &= x^{130} + x^{126} + x^{114} + x^{110} + x^{106} + x^{104} + x^{98} + x^{92} + x^{88} + x^{86} \\
&+ x^{82} + x^{72} + x^{68} + x^{66} + x^{60} + x^{48} + x^{46} + x^{44} + x^{40} + x^{38} + x^{34} \\
&+ x^{32} + x^{30} + x^{26} + x^{22} + x^{20} + x^{14} + x^{12}, \\
p_6(x) &= x^{128} + x^{122} + x^{120} + x^{116} + x^{98} + x^{94} + x^{92} + x^{86} + x^{84} + x^{82} + x^{76} \\
&+ x^{74} + x^{72} + x^{70} + x^{68} + x^{64} + x^{60} + x^{54} + x^{46} + x^{40} + x^{38} + x^{36} \\
&+ x^{32} + x^{24} + x^{22} + x^{20} + x^{12} + x^{10} + x^6 + x^4 + x^2 + 1, \\
p_9(x) &= x^{130} + x^{126} + x^{122} + x^{116} + x^{112} + x^{110} + x^{100} + x^{98} + x^{96} + x^{94} \\
&+ x^{92} + x^{84} + x^{82} + x^{76} + x^{72} + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} \\
&+ x^{44} + x^{42} + x^{36} + x^{32} + x^{30} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} \\
&+ x^6 + x^4, \\
p_{12}(x) &= x^{138} + x^{136} + x^{106} + x^{104} + x^{98} + x^{96} + x^{90} + x^{88} + x^{82} + x^{80} + x^{66} \\
&+ x^{64} + x^{58} + x^{56} + x^{50} + x^{48} + x^{42} + x^{40} + x^{26} + x^{24} + x^{10} + x^8 \\
&+ x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} \\
&+ x^{105} + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} + x^{89} + x^{86} + x^{84} + x^{81} \\
&+ x^{80} + x^{76} + x^{75} + x^{74} + x^{71} + x^{70} + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} \\
&+ x^{61} + x^{59} + x^{54} + x^{50} + x^{48} + x^{47} + x^{44} + x^{42} + x^{41} + x^{37} + x^{30} \\
&+ x^{29} + x^{27} + x^{25} + x^{24}, \\
p_3(x) &= x^{113} + x^{111} + x^{108} + x^{107} + x^{105} + x^{104} + x^{103} + x^{98} + x^{97} + x^{96} \\
&+ x^{95} + x^{93} + x^{92} + x^{90} + x^{89} + x^{85} + x^{80} + x^{79} + x^{78} + x^{73} + x^{72} \\
&+ x^{71} + x^{69} + x^{68} + x^{66} + x^{65} + x^{60} + x^{59} + x^{58} + x^{51} + x^{50} + x^{46} \\
&+ x^{44} + x^{43} + x^{41} + x^{39} + x^{36} + x^{34} + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} \\
&+ x^{25} + x^{24} + x^{22} + x^{21} + x^{19} + x^{17} + x^{16}, \\
p_6(x) &= x^{119} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{107} + x^{104} + x^{103} \\
&+ x^{99} + x^{98} + x^{95} + x^{89} + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{80} + x^{78}
\end{aligned}$$

$$\begin{aligned}
& + x^{75} + x^{71} + x^{70} + x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{59} + x^{58} + x^{53} \\
& + x^{50} + x^{44} + x^{43} + x^{42} + x^{39} + x^{37} + x^{35} + x^{32} + x^{30} + x^{27} + x^{23} \\
& + x^{22} + x^{19} + x^{17} + x^{16} + x^{14} + x^9 + x^7 + x^4 + x^3 + x + 1, \\
p_9(x) &= x^{113} + x^{111} + x^{108} + x^{107} + x^{105} + x^{104} + x^{97} + x^{95} + x^{92} + x^{91} \\
& + x^{89} + x^{88} + x^{81} + x^{79} + x^{76} + x^{75} + x^{73} + x^{72} + x^{65} + x^{63} + x^{60} \\
& + x^{59} + x^{57} + x^{56} + x^{17} + x^{15} + x^{12} + x^{11} + x^9 + x^8, \\
p_{12}(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{105} + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} \\
& + x^{89} + x^{87} + x^{84} + x^{83} + x^{81} + x^{80} + x^{73} + x^{71} + x^{68} + x^{67} + x^{64} \\
& + x^{63} + x^{61} + x^{60} + x^{57} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{33} + x^{31} \\
& + x^{29} + x^{28} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{128} + x^{124} + x^{120} + x^{115} + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} + x^{99} \\
& + x^{96} + x^{94} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} \\
& + x^{79} + x^{78} + x^{77} + x^{75} + x^{72} + x^{70} + x^{68} + x^{67} + x^{66} + x^{63} + x^{61} \\
& + x^{59} + x^{58} + x^{57} + x^{54} + x^{53} + x^{52} + x^{50} + x^{48} + x^{47} + x^{44} + x^{41} \\
& + x^{40} + x^{38} + x^{37} + x^{33}, \\
p_3(x) &= x^{92} + x^{91} + x^{88} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{60} \\
& + x^{59} + x^{56} + x^{50} + x^{49} + x^{48} + x^{47} + x^{45} + x^{43} + x^{42} + x^{40} + x^{36} \\
& + x^{35} + x^{34} + x^{33} + x^{31} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} + x^{20} \\
& + x^{18}, \\
p_6(x) &= x^{104} + x^{102} + x^{96} + x^{88} + x^{86} + x^{78} + x^{76} + x^{74} + x^{70} + x^{68} + x^{64} \\
& + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{28} + x^{26} + x^{24} + x^{22} + x^{18} \\
& + x^{16} + x^{12}, \\
p_9(x) &= x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} \\
& + x^{104} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{86} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} \\
& + x^{74} + x^{73} + x^{72} + x^{70} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{60} \\
& + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} \\
& + x^{12} + x^{11} + x^{10} + x^9 + x^8 + x^6, \\
p_{12}(x) &= x^{128} + x^{124} + x^{104} + x^{96} + x^{88} + x^{80} + x^{72} + x^{60} + x^{56} + x^{48} + x^{32} \\
& + x^{28} + x^{16} + x^{12} + x^8 + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{138} + x^{136} + x^{130} + x^{128} + x^{126} + x^{125} + x^{124} + x^{123} + x^{121} + x^{119}$$

$$\begin{aligned}
& + x^{117} + x^{116} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{95} + x^{94} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{78} + x^{76} \\
& + x^{75} + x^{74} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{61} + x^{60} + x^{53} \\
& + x^{50} + x^{48} + x^{46} + x^{43} + x^{41} + x^{34} + x^{33}, \\
p_3(x) & = x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{95} + x^{93} + x^{92} + x^{89} + x^{85} + x^{84} \\
& + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{74} + x^{70} + x^{69} + x^{68} + x^{67} + x^{65} \\
& + x^{63} + x^{61} + x^{60} + x^{57} + x^{54} + x^{50} + x^{49} + x^{48} + x^{47} + x^{45} + x^{43} \\
& + x^{42} + x^{39} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{24} + x^{22} \\
& + x^{21} + x^{18}, \\
p_6(x) & = x^{114} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{82} \\
& + x^{72} + x^{70} + x^{68} + x^{66} + x^{62} + x^{56} + x^{50} + x^{48} + x^{44} + x^{40} + x^{38} \\
& + x^{34} + x^{32} + x^{26} + x^{16} + x^{14} + x^{12}, \\
p_9(x) & = x^{126} + x^{125} + x^{122} + x^{118} + x^{117} + x^{114} + x^{106} + x^{105} + x^{101} + x^{98} \\
& + x^{90} + x^{89} + x^{85} + x^{82} + x^{74} + x^{73} + x^{69} + x^{66} + x^{62} + x^{61} + x^{57} \\
& + x^{54} + x^{30} + x^{29} + x^{26} + x^{22} + x^{21} + x^{18} + x^{14} + x^{13} + x^9 + x^6, \\
p_{12}(x) & = x^{138} + x^{136} + x^{122} + x^{120} + x^{118} + x^{116} + x^{106} + x^{104} + x^{102} + x^{100} \\
& + x^{98} + x^{96} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{70} + x^{68} + x^{66} \\
& + x^{64} + x^{50} + x^{48} + x^{42} + x^{40} + x^{22} + x^{20} + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) & = x^{129} + x^{127} + x^{125} + x^{124} + x^{119} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} \\
& + x^{108} + x^{107} + x^{105} + x^{104} + x^{101} + x^{100} + x^{99} + x^{98} + x^{95} + x^{93} \\
& + x^{92} + x^{91} + x^{89} + x^{83} + x^{81} + x^{79} + x^{76} + x^{75} + x^{74} + x^{73} + x^{71} \\
& + x^{70} + x^{69} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{55} + x^{54} + x^{53} + x^{52} \\
& + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{45} + x^{42}, \\
p_3(x) & = x^{113} + x^{111} + x^{108} + x^{107} + x^{105} + x^{104} + x^{103} + x^{98} + x^{96} + x^{90} \\
& + x^{89} + x^{87} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{71} + x^{69} \\
& + x^{68} + x^{66} + x^{63} + x^{61} + x^{59} + x^{58} + x^{55} + x^{53} + x^{49} + x^{47} + x^{46} \\
& + x^{41} + x^{40} + x^{39} + x^{35} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} \\
& + x^{22}, \\
p_6(x) & = x^{119} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{109} + x^{108} + x^{103} + x^{101} \\
& + x^{100} + x^{96} + x^{95} + x^{94} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{84} + x^{82} \\
& + x^{81} + x^{79} + x^{78} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} \\
& + x^{66} + x^{64} + x^{60} + x^{59} + x^{57} + x^{54} + x^{53} + x^{51} + x^{48} + x^{46} + x^{45} \\
& + x^{44} + x^{37} + x^{34} + x^{33} + x^{31} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{23}
\end{aligned}$$

$$\begin{aligned}
& + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{14} + x^{13} + x^{11} + x^8 + x^7 + x^4 + x^3 \\
& + x + 1, \\
p_9(x) &= x^{113} + x^{111} + x^{108} + x^{107} + x^{105} + x^{104} + x^{97} + x^{95} + x^{92} + x^{91} \\
& + x^{89} + x^{88} + x^{81} + x^{79} + x^{76} + x^{75} + x^{73} + x^{72} + x^{65} + x^{63} + x^{60} \\
& + x^{59} + x^{57} + x^{56} + x^{17} + x^{15} + x^{12} + x^{11} + x^9 + x^8, \\
p_{12}(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{105} + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} \\
& + x^{89} + x^{87} + x^{84} + x^{83} + x^{81} + x^{80} + x^{73} + x^{71} + x^{68} + x^{67} + x^{64} \\
& + x^{63} + x^{61} + x^{60} + x^{57} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{33} + x^{31} \\
& + x^{29} + x^{28} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} \\
& + x^{105} + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} + x^{89} + x^{86} + x^{84} + x^{81} \\
& + x^{80} + x^{76} + x^{75} + x^{74} + x^{71} + x^{70} + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} \\
& + x^{61} + x^{59} + x^{54} + x^{50} + x^{48} + x^{47} + x^{44} + x^{42} + x^{41} + x^{37} + x^{30} \\
& + x^{29} + x^{27} + x^{25} + x^{24}, \\
p_3(x) &= x^{113} + x^{111} + x^{108} + x^{107} + x^{105} + x^{104} + x^{103} + x^{98} + x^{97} + x^{96} \\
& + x^{95} + x^{93} + x^{92} + x^{90} + x^{89} + x^{85} + x^{80} + x^{79} + x^{78} + x^{73} + x^{72} \\
& + x^{71} + x^{69} + x^{68} + x^{66} + x^{65} + x^{60} + x^{59} + x^{58} + x^{51} + x^{50} + x^{46} \\
& + x^{44} + x^{43} + x^{41} + x^{39} + x^{36} + x^{34} + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} \\
& + x^{25} + x^{24} + x^{22} + x^{21} + x^{19} + x^{17} + x^{16}, \\
p_6(x) &= x^{119} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{107} + x^{104} + x^{103} \\
& + x^{99} + x^{98} + x^{95} + x^{89} + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} \\
& + x^{75} + x^{71} + x^{70} + x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{59} + x^{58} + x^{53} \\
& + x^{50} + x^{44} + x^{43} + x^{42} + x^{39} + x^{37} + x^{35} + x^{32} + x^{30} + x^{27} + x^{23} \\
& + x^{22} + x^{19} + x^{17} + x^{16} + x^{14} + x^9 + x^7 + x^4 + x^3 + x + 1, \\
p_9(x) &= x^{113} + x^{111} + x^{108} + x^{107} + x^{105} + x^{104} + x^{97} + x^{95} + x^{92} + x^{91} \\
& + x^{89} + x^{88} + x^{81} + x^{79} + x^{76} + x^{75} + x^{73} + x^{72} + x^{65} + x^{63} + x^{60} \\
& + x^{59} + x^{57} + x^{56} + x^{17} + x^{15} + x^{12} + x^{11} + x^9 + x^8, \\
p_{12}(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{105} + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} \\
& + x^{89} + x^{87} + x^{84} + x^{83} + x^{81} + x^{80} + x^{73} + x^{71} + x^{68} + x^{67} + x^{64} \\
& + x^{63} + x^{61} + x^{60} + x^{57} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{33} + x^{31} \\
& + x^{29} + x^{28} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{136} + x^{130} + x^{128} + x^{126} + x^{125} + x^{124} + x^{123} + x^{121} + x^{119} \\
&\quad + x^{117} + x^{116} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} \\
&\quad + x^{95} + x^{94} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{78} + x^{76} \\
&\quad + x^{75} + x^{74} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{61} + x^{60} + x^{53} \\
&\quad + x^{50} + x^{48} + x^{46} + x^{43} + x^{41} + x^{34} + x^{33}, \\
p_3(x) &= x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{95} + x^{93} + x^{92} + x^{89} + x^{85} + x^{84} \\
&\quad + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{74} + x^{70} + x^{69} + x^{68} + x^{67} + x^{65} \\
&\quad + x^{63} + x^{61} + x^{60} + x^{57} + x^{54} + x^{50} + x^{49} + x^{48} + x^{47} + x^{45} + x^{43} \\
&\quad + x^{42} + x^{39} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{24} + x^{22} \\
&\quad + x^{21} + x^{18}, \\
p_6(x) &= x^{114} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{82} \\
&\quad + x^{72} + x^{70} + x^{68} + x^{66} + x^{62} + x^{56} + x^{50} + x^{48} + x^{44} + x^{40} + x^{38} \\
&\quad + x^{34} + x^{32} + x^{26} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{126} + x^{125} + x^{122} + x^{118} + x^{117} + x^{114} + x^{106} + x^{105} + x^{101} + x^{98} \\
&\quad + x^{90} + x^{89} + x^{85} + x^{82} + x^{74} + x^{73} + x^{69} + x^{66} + x^{62} + x^{61} + x^{57} \\
&\quad + x^{54} + x^{30} + x^{29} + x^{26} + x^{22} + x^{21} + x^{18} + x^{14} + x^{13} + x^9 + x^6, \\
p_{12}(x) &= x^{138} + x^{136} + x^{122} + x^{120} + x^{118} + x^{116} + x^{106} + x^{104} + x^{102} + x^{100} \\
&\quad + x^{98} + x^{96} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{70} + x^{68} + x^{66} \\
&\quad + x^{64} + x^{50} + x^{48} + x^{42} + x^{40} + x^{22} + x^{20} + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{128} + x^{124} + x^{120} + x^{115} + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} + x^{99} \\
&\quad + x^{96} + x^{94} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} \\
&\quad + x^{79} + x^{78} + x^{77} + x^{75} + x^{72} + x^{70} + x^{68} + x^{67} + x^{66} + x^{63} + x^{61} \\
&\quad + x^{59} + x^{58} + x^{57} + x^{54} + x^{53} + x^{52} + x^{50} + x^{48} + x^{47} + x^{44} + x^{41} \\
&\quad + x^{40} + x^{38} + x^{37} + x^{33}, \\
p_3(x) &= x^{92} + x^{91} + x^{88} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{60} \\
&\quad + x^{59} + x^{56} + x^{50} + x^{49} + x^{48} + x^{47} + x^{45} + x^{43} + x^{42} + x^{40} + x^{36} \\
&\quad + x^{35} + x^{34} + x^{33} + x^{31} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} + x^{20} \\
&\quad + x^{18}, \\
p_6(x) &= x^{104} + x^{102} + x^{96} + x^{88} + x^{86} + x^{78} + x^{76} + x^{74} + x^{70} + x^{68} + x^{64} \\
&\quad + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{28} + x^{26} + x^{24} + x^{22} + x^{18} \\
&\quad + x^{16} + x^{12}, \\
p_9(x) &= x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105}
\end{aligned}$$

$$\begin{aligned}
& + x^{104} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{86} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} \\
& + x^{74} + x^{73} + x^{72} + x^{70} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{60} \\
& + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} \\
& + x^{12} + x^{11} + x^{10} + x^9 + x^8 + x^6, \\
p_{12}(x) &= x^{128} + x^{124} + x^{104} + x^{96} + x^{88} + x^{80} + x^{72} + x^{60} + x^{56} + x^{48} + x^{32} \\
& + x^{28} + x^{16} + x^{12} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{119} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} \\
& + x^{108} + x^{107} + x^{105} + x^{104} + x^{101} + x^{100} + x^{99} + x^{98} + x^{95} + x^{93} \\
& + x^{92} + x^{91} + x^{89} + x^{83} + x^{81} + x^{79} + x^{76} + x^{75} + x^{74} + x^{73} + x^{71} \\
& + x^{70} + x^{69} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{55} + x^{54} + x^{53} + x^{52} \\
& + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{45} + x^{42}, \\
p_3(x) &= x^{113} + x^{111} + x^{108} + x^{107} + x^{105} + x^{104} + x^{103} + x^{98} + x^{96} + x^{90} \\
& + x^{89} + x^{87} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{71} + x^{69} \\
& + x^{68} + x^{66} + x^{63} + x^{61} + x^{59} + x^{58} + x^{55} + x^{53} + x^{49} + x^{47} + x^{46} \\
& + x^{41} + x^{40} + x^{39} + x^{35} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} \\
& + x^{22}, \\
p_6(x) &= x^{119} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{109} + x^{108} + x^{103} + x^{101} \\
& + x^{100} + x^{96} + x^{95} + x^{94} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{84} + x^{82} \\
& + x^{81} + x^{79} + x^{78} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} \\
& + x^{66} + x^{64} + x^{60} + x^{59} + x^{57} + x^{54} + x^{53} + x^{51} + x^{48} + x^{46} + x^{45} \\
& + x^{44} + x^{37} + x^{34} + x^{33} + x^{31} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{23} \\
& + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{14} + x^{13} + x^{11} + x^8 + x^7 + x^4 + x^3 \\
& + x + 1, \\
p_9(x) &= x^{113} + x^{111} + x^{108} + x^{107} + x^{105} + x^{104} + x^{97} + x^{95} + x^{92} + x^{91} \\
& + x^{89} + x^{88} + x^{81} + x^{79} + x^{76} + x^{75} + x^{73} + x^{72} + x^{65} + x^{63} + x^{60} \\
& + x^{59} + x^{57} + x^{56} + x^{17} + x^{15} + x^{12} + x^{11} + x^9 + x^8, \\
p_{12}(x) &= x^{129} + x^{127} + x^{125} + x^{124} + x^{105} + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} \\
& + x^{89} + x^{87} + x^{84} + x^{83} + x^{81} + x^{80} + x^{73} + x^{71} + x^{68} + x^{67} + x^{64} \\
& + x^{63} + x^{61} + x^{60} + x^{57} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{33} + x^{31} \\
& + x^{29} + x^{28} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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]	1682	[2755, 2295]	3364	[633, 4417]	5046	[5792, 6073]
1	[3, 4]	1683	[2756, 2757]	3365	[2104, 1820]	5047	[3161, 5893]
2	[5, 6]	1684	[2758, 2759]	3366	[637, 4874]	5048	[28, 6074]
3	[7, 8]	1685	[2760, 2761]	3367	[668, 583]	5049	[6075, 313]
4	[9, 10]	1686	[2218, 2762]	3368	[4875, 1934]	5050	[336, 6076]
5	[11, 12]	1687	[2763, 886]	3369	[242, 726]	5051	[955, 6077]
6	[13, 14]	1688	[2370, 2764]	3370	[2670, 4818]	5052	[6078, 6079]
7	[15, 16]	1689	[663, 2765]	3371	[1796, 4827]	5053	[6080, 462]
8	[17, 18]	1690	[2766, 2041]	3372	[2296, 886]	5054	[3909, 5785]
9	[19, 20]	1691	[2767, 2768]	3373	[2632, 578]	5055	[1142, 5624]
10	[21, 22]	1692	[2769, 543]	3374	[4876, 4446]	5056	[2993, 5526]
11	[23, 24]	1693	[2342, 2770]	3375	[4877, 4878]	5057	[6081, 3943]
12	[25, 26]	1694	[1827, 2771]	3376	[4879, 4880]	5058	[5613, 5848]
13	[27, 28]	1695	[2772, 2773]	3377	[1839, 4881]	5059	[6082, 3902]
14	[29, 30]	1696	[2774, 2775]	3378	[2522, 4882]	5060	[3519, 5724]
15	[31, 32]	1697	[2776, 1840]	3379	[4670, 4755]	5061	[5466, 6083]
16	[33, 34]	1698	[2777, 2778]	3380	[2769, 146]	5062	[6084, 3615]
17	[35, 36]	1699	[833, 2779]	3381	[502, 773]	5063	[1546, 5795]
18	[37, 38]	1700	[927, 2780]	3382	[2720, 4462]	5064	[1683, 3680]
19	[39, 40]	1701	[2407, 2781]	3383	[513, 4744]	5065	[3414, 1210]
20	[41, 42]	1702	[635, 2782]	3384	[4883, 2210]	5066	[4120, 3048]
21	[43, 44]	1703	[2783, 721]	3385	[4884, 4885]	5067	[6085, 5840]
22	[45, 46]	1704	[2784, 2785]	3386	[4886, 599]	5068	[2864, 6086]
23	[47, 48]	1705	[2786, 2787]	3387	[2012, 4887]	5069	[6087, 6088]
24	[49, 50]	1706	[2788, 2351]	3388	[4737, 4391]	5070	[6089, 1118]
25	[51, 52]	1707	[2789, 2469]	3389	[2232, 674]	5071	[6090, 3881]
26	[53, 54]	1708	[230, 1801]	3390	[4888, 2771]	5072	[3998, 3957]
27	[55, 56]	1709	[2790, 2791]	3391	[4889, 4844]	5073	[3085, 3559]
28	[57, 58]	1710	[2792, 890]	3392	[4890, 2049]	5074	[6091, 6092]
29	[59, 60]	1711	[2793, 8]	3393	[4891, 4892]	5075	[5860, 6093]
30	[61, 62]	1712	[2564, 2794]	3394	[4893, 1897]	5076	[4069, 6094]
31	[63, 64]	1713	[2795, 145]	3395	[188, 4894]	5077	[254, 3381]
32	[65, 66]	1714	[2796, 2056]	3396	[606, 4895]	5078	[6095, 5684]
33	[67, 68]	1715	[2797, 14]	3397	[571, 1935]	5079	[6096, 6097]
34	[69, 70]	1716	[2798, 679]	3398	[4896, 504]	5080	[3545, 6096]
35	[71, 72]	1717	[2799, 2800]	3399	[2442, 847]	5081	[5406, 6098]
36	[73, 74]	1718	[2801, 813]	3400	[1964, 4897]	5082	[6076, 5829]
37	[75, 76]	1719	[2324, 220]	3401	[4898, 2676]	5083	[6099, 5751]
38	[77, 78]	1720	[2802, 2803]	3402	[4817, 2671]	5084	[4369, 6100]
39	[79, 80]	1721	[2789, 2804]	3403	[592, 43]	5085	[5648, 6101]
40	[81, 82]	1722	[2354, 911]	3404	[916, 4513]	5086	[1399, 3098]

41	[83, 84]	1723	[2805, 2806]	3405	[4899, 2821]	5087	[6102, 6103]
42	[85, 86]	1724	[2807, 2808]	3406	[2383, 4900]	5088	[6104, 6105]
43	[87, 88]	1725	[2809, 1947]	3407	[1937, 2114]	5089	[2940, 3255]
44	[89, 90]	1726	[2810, 2811]	3408	[2111, 4901]	5090	[6106, 1260]
45	[91, 92]	1727	[2673, 2812]	3409	[2659, 641]	5091	[4243, 6107]
46	[93, 94]	1728	[2813, 2814]	3410	[4901, 4902]	5092	[995, 6108]
47	[95, 96]	1729	[2171, 2815]	3411	[2161, 2156]	5093	[6109, 1559]
48	[97, 98]	1730	[2701, 2816]	3412	[2107, 4903]	5094	[3704, 3120]
49	[99, 100]	1731	[246, 2328]	3413	[2152, 2660]	5095	[6110, 5571]
50	[101, 102]	1732	[591, 2817]	3414	[639, 2154]	5096	[6111, 4008]
51	[103, 104]	1733	[904, 2818]	3415	[4904, 4905]	5097	[2997, 3911]
52	[105, 106]	1734	[1868, 2819]	3416	[4476, 4906]	5098	[999, 4039]
53	[107, 108]	1735	[2820, 2821]	3417	[4907, 4908]	5099	[5933, 3971]
54	[109, 110]	1736	[2802, 2642]	3418	[665, 2811]	5100	[3656, 6112]
55	[111, 112]	1737	[2822, 656]	3419	[4509, 4711]	5101	[6113, 1549]
56	[113, 114]	1738	[2823, 2525]	3420	[4909, 899]	5102	[6114, 3061]
57	[115, 116]	1739	[2378, 130]	3421	[2328, 4410]	5103	[6115, 398]
58	[117, 118]	1740	[2824, 868]	3422	[4910, 4743]	5104	[6116, 3901]
59	[119, 120]	1741	[2825, 2696]	3423	[4540, 2318]	5105	[3753, 3017]
60	[121, 122]	1742	[2826, 1801]	3424	[597, 4911]	5106	[5541, 6117]
61	[123, 124]	1743	[2827, 1908]	3425	[4482, 4912]	5107	[3727, 4126]
62	[125, 126]	1744	[134, 2326]	3426	[2019, 2239]	5108	[6118, 3973]
63	[127, 128]	1745	[2828, 2404]	3427	[2153, 4913]	5109	[6077, 6119]
64	[129, 130]	1746	[2829, 2830]	3428	[2111, 2158]	5110	[6120, 4072]
65	[131, 132]	1747	[2831, 2832]	3429	[2115, 4914]	5111	[6121, 3549]
66	[133, 134]	1748	[2833, 2480]	3430	[2472, 4531]	5112	[3834, 4210]
67	[135, 136]	1749	[2834, 2067]	3431	[2356, 49]	5113	[3102, 6122]
68	[137, 138]	1750	[2835, 2611]	3432	[636, 739]	5114	[3450, 1392]
69	[139, 140]	1751	[2836, 2496]	3433	[4915, 4543]	5115	[24, 5643]
70	[141, 142]	1752	[2837, 587]	3434	[2502, 2547]	5116	[5599, 6123]
71	[143, 144]	1753	[2838, 2839]	3435	[618, 926]	5117	[5418, 3903]
72	[145, 146]	1754	[2840, 2841]	3436	[4588, 893]	5118	[6083, 6124]
73	[147, 148]	1755	[2842, 2843]	3437	[2024, 734]	5119	[6125, 4236]
74	[149, 150]	1756	[2844, 2845]	3438	[4557, 1798]	5120	[1056, 3011]
75	[151, 152]	1757	[2846, 2847]	3439	[4391, 2573]	5121	[3823, 6126]
76	[153, 154]	1758	[2848, 2849]	3440	[4572, 625]	5122	[114, 5788]
77	[155, 156]	1759	[1587, 2850]	3441	[4812, 4916]	5123	[3832, 5421]
78	[157, 158]	1760	[2851, 2852]	3442	[2026, 4912]	5124	[6127, 6128]
79	[159, 160]	1761	[358, 4]	3443	[631, 4608]	5125	[6129, 6130]
80	[161, 162]	1762	[2853, 2854]	3444	[2380, 4917]	5126	[6131, 6132]
81	[163, 164]	1763	[2855, 2856]	3445	[4918, 4919]	5127	[6133, 4353]
82	[165, 166]	1764	[2857, 2858]	3446	[2265, 2546]	5128	[3916, 1396]
83	[167, 168]	1765	[2859, 2860]	3447	[4920, 942]	5129	[6134, 6135]
84	[169, 170]	1766	[2861, 2862]	3448	[4646, 2567]	5130	[4009, 6136]

85	[171, 172]	1767	[1149, 2863]	3449	[4778, 523]	5131	[3803, 5994]
86	[173, 174]	1768	[1257, 2864]	3450	[4638, 2544]	5132	[6032, 345]
87	[175, 176]	1769	[2865, 329]	3451	[2310, 4921]	5133	[6137, 5894]
88	[177, 178]	1770	[2866, 2867]	3452	[4715, 2760]	5134	[3411, 1600]
89	[179, 180]	1771	[1438, 2868]	3453	[4922, 1755]	5135	[6138, 5581]
90	[181, 182]	1772	[2869, 1224]	3454	[4923, 847]	5136	[1508, 6139]
91	[183, 184]	1773	[2870, 2871]	3455	[4924, 1791]	5137	[6140, 6141]
92	[185, 186]	1774	[2872, 2873]	3456	[1804, 4925]	5138	[2936, 6142]
93	[187, 188]	1775	[2874, 2875]	3457	[4416, 2283]	5139	[3783, 6143]
94	[189, 190]	1776	[2876, 2877]	3458	[4926, 2768]	5140	[6144, 3368]
95	[191, 192]	1777	[2878, 2879]	3459	[4756, 1841]	5141	[5722, 3302]
96	[193, 194]	1778	[2880, 2881]	3460	[4504, 552]	5142	[6052, 6145]
97	[195, 196]	1779	[461, 2882]	3461	[4927, 4928]	5143	[6146, 5403]
98	[197, 198]	1780	[258, 2883]	3462	[4929, 228]	5144	[5811, 6004]
99	[199, 200]	1781	[2884, 2885]	3463	[4930, 2656]	5145	[5942, 6147]
100	[201, 202]	1782	[2886, 2887]	3464	[4931, 4932]	5146	[6148, 3990]
101	[203, 204]	1783	[2888, 2889]	3465	[4877, 4933]	5147	[6149, 6150]
102	[205, 206]	1784	[2890, 2891]	3466	[4515, 4934]	5148	[2990, 4333]
103	[207, 208]	1785	[2892, 2893]	3467	[4935, 4936]	5149	[6151, 317]
104	[209, 210]	1786	[2894, 1527]	3468	[4937, 4477]	5150	[1521, 5964]
105	[211, 212]	1787	[2895, 2896]	3469	[4938, 4939]	5151	[6152, 3627]
106	[147, 213]	1788	[2897, 2898]	3470	[4940, 4941]	5152	[3581, 6044]
107	[214, 215]	1789	[2899, 2900]	3471	[4942, 2437]	5153	[6153, 6041]
108	[216, 217]	1790	[2901, 2902]	3472	[2110, 644]	5154	[4306, 6154]
109	[218, 219]	1791	[2903, 2904]	3473	[2660, 4913]	5155	[6155, 6156]
110	[220, 221]	1792	[2905, 1535]	3474	[643, 2111]	5156	[3721, 5738]
111	[222, 223]	1793	[2906, 1295]	3475	[4913, 2659]	5157	[6016, 6157]
112	[224, 225]	1794	[2907, 2908]	3476	[2159, 638]	5158	[6158, 1166]
113	[226, 227]	1795	[2909, 2910]	3477	[2298, 641]	5159	[3398, 5510]
114	[228, 229]	1796	[2911, 1108]	3478	[2154, 2161]	5160	[6159, 3052]
115	[230, 231]	1797	[2912, 2913]	3479	[640, 2154]	5161	[6160, 1137]
116	[232, 233]	1798	[2914, 2915]	3480	[2660, 2297]	5162	[6161, 3066]
117	[215, 234]	1799	[2916, 2917]	3481	[4913, 2298]	5163	[5662, 6162]
118	[235, 236]	1800	[1363, 1551]	3482	[4903, 2110]	5164	[3927, 3953]
119	[237, 238]	1801	[2918, 105]	3483	[2659, 2109]	5165	[322, 3443]
120	[239, 240]	1802	[2919, 101]	3484	[529, 4943]	5166	[3521, 5760]
121	[241, 242]	1803	[2920, 2921]	3485	[584, 4944]	5167	[2904, 6163]
122	[243, 244]	1804	[2922, 2923]	3486	[4945, 4946]	5168	[6164, 3314]
123	[245, 246]	1805	[2924, 2925]	3487	[4947, 2529]	5169	[1387, 5955]
124	[247, 248]	1806	[2926, 2927]	3488	[2113, 1938]	5170	[6165, 3050]
125	[249, 250]	1807	[2928, 2929]	3489	[1880, 2662]	5171	[2867, 4317]
126	[251, 252]	1808	[1686, 2930]	3490	[4948, 4949]	5172	[26, 5841]
127	[253, 254]	1809	[1234, 2931]	3491	[1780, 4950]	5173	[66, 414]
128	[255, 256]	1810	[2932, 2933]	3492	[4951, 832]	5174	[6166, 3361]

129	[257, 258]	1811	[100, 2934]	3493	[4705, 212]	5175	[1493, 6167]
130	[259, 260]	1812	[2935, 2936]	3494	[237, 4719]	5176	[1510, 4116]
131	[261, 262]	1813	[2937, 2938]	3495	[1891, 4952]	5177	[6168, 6169]
132	[263, 264]	1814	[2939, 2940]	3496	[4648, 4815]	5178	[2951, 6170]
133	[265, 266]	1815	[1085, 2941]	3497	[2481, 2676]	5179	[6171, 2994]
134	[267, 268]	1816	[2942, 2943]	3498	[4953, 56]	5180	[3229, 2996]
135	[269, 270]	1817	[2944, 2945]	3499	[4954, 2362]	5181	[6172, 2992]
136	[271, 272]	1818	[2946, 2947]	3500	[4955, 1932]	5182	[3049, 6173]
137	[273, 274]	1819	[2948, 982]	3501	[2709, 2488]	5183	[6174, 3200]
138	[275, 276]	1820	[2949, 1323]	3502	[2497, 2758]	5184	[5818, 4302]
139	[277, 278]	1821	[2950, 2951]	3503	[4956, 4957]	5185	[5742, 6175]
140	[279, 280]	1822	[2952, 2953]	3504	[4852, 4799]	5186	[3612, 5984]
141	[281, 282]	1823	[2954, 1515]	3505	[38, 859]	5187	[1119, 6176]
142	[283, 284]	1824	[2955, 1611]	3506	[4958, 4959]	5188	[5939, 962]
143	[285, 286]	1825	[2956, 2957]	3507	[854, 4960]	5189	[6177, 3300]
144	[287, 288]	1826	[1716, 2958]	3508	[919, 4747]	5190	[6178, 6115]
145	[289, 290]	1827	[1435, 2959]	3509	[4745, 2685]	5191	[6179, 4229]
146	[291, 292]	1828	[2960, 1557]	3510	[4563, 2220]	5192	[6180, 6181]
147	[293, 294]	1829	[2961, 2962]	3511	[4961, 2667]	5193	[3899, 2899]
148	[295, 296]	1830	[2963, 2964]	3512	[683, 672]	5194	[6182, 6183]
149	[297, 298]	1831	[2965, 2966]	3513	[2158, 4902]	5195	[6184, 1280]
150	[299, 300]	1832	[2967, 2968]	3514	[2160, 2161]	5196	[6185, 4050]
151	[301, 302]	1833	[2969, 2970]	3515	[4962, 4963]	5197	[5958, 379]
152	[303, 304]	1834	[2971, 2972]	3516	[2756, 2366]	5198	[6186, 1348]
153	[305, 306]	1835	[2973, 2974]	3517	[4830, 652]	5199	[1175, 986]
154	[307, 308]	1836	[2975, 2976]	3518	[2641, 2803]	5200	[2959, 6187]
155	[309, 310]	1837	[2977, 1216]	3519	[2352, 2713]	5201	[3243, 3512]
156	[311, 312]	1838	[2978, 2979]	3520	[884, 4822]	5202	[3503, 6188]
157	[313, 314]	1839	[2980, 2981]	3521	[789, 4964]	5203	[6189, 6190]
158	[315, 316]	1840	[2982, 1076]	3522	[547, 747]	5204	[3303, 4020]
159	[317, 318]	1841	[2983, 2984]	3523	[2230, 2167]	5205	[3241, 3585]
160	[319, 320]	1842	[2985, 2986]	3524	[1935, 835]	5206	[6191, 321]
161	[321, 322]	1843	[2987, 2988]	3525	[4965, 4966]	5207	[6192, 5972]
162	[323, 324]	1844	[2989, 2990]	3526	[4649, 4812]	5208	[3813, 4238]
163	[325, 326]	1845	[1279, 2991]	3527	[2496, 4614]	5209	[6193, 6194]
164	[327, 328]	1846	[2992, 2993]	3528	[1983, 2818]	5210	[6195, 3261]
165	[329, 330]	1847	[2994, 2995]	3529	[4967, 700]	5211	[6196, 429]
166	[331, 332]	1848	[2996, 2997]	3530	[2647, 4968]	5212	[6197, 4019]
167	[333, 334]	1849	[2998, 2999]	3531	[2054, 4969]	5213	[5879, 6046]
168	[335, 336]	1850	[1408, 1006]	3532	[4725, 863]	5214	[6198, 5926]
169	[337, 338]	1851	[3000, 400]	3533	[1946, 4970]	5215	[4295, 6199]
170	[339, 340]	1852	[3001, 1143]	3534	[4578, 4672]	5216	[6200, 64]
171	[341, 342]	1853	[3002, 1400]	3535	[4396, 4848]	5217	[5895, 6201]
172	[343, 344]	1854	[3003, 3004]	3536	[4831, 4971]	5218	[1427, 6202]

173	[345, 346]	1855	[3005, 3006]	3537	[4922, 2370]	5219	[6203, 1752]
174	[347, 348]	1856	[3007, 3008]	3538	[4972, 4914]	5220	[5559, 6204]
175	[349, 350]	1857	[3009, 3010]	3539	[4973, 4974]	5221	[6205, 6206]
176	[351, 352]	1858	[3011, 3012]	3540	[4727, 4556]	5222	[4385, 3725]
177	[353, 354]	1859	[3013, 3014]	3541	[2478, 4975]	5223	[6066, 6153]
178	[355, 356]	1860	[3015, 3016]	3542	[4976, 2065]	5224	[4244, 6207]
179	[357, 358]	1861	[3017, 3018]	3543	[4472, 2067]	5225	[5918, 4274]
180	[359, 360]	1862	[3019, 3020]	3544	[4977, 4978]	5226	[5504, 3797]
181	[361, 362]	1863	[3021, 1035]	3545	[2655, 4979]	5227	[5494, 5903]
182	[363, 364]	1864	[3022, 3023]	3546	[4980, 4981]	5228	[6208, 6209]
183	[365, 366]	1865	[3024, 3025]	3547	[244, 4982]	5229	[6183, 6022]
184	[367, 368]	1866	[3026, 3027]	3548	[2319, 2539]	5230	[3946, 6210]
185	[369, 370]	1867	[3028, 1407]	3549	[2245, 1985]	5231	[5771, 5427]
186	[371, 372]	1868	[3029, 1485]	3550	[2262, 4983]	5232	[384, 1154]
187	[373, 374]	1869	[1573, 3030]	3551	[4984, 4985]	5233	[5718, 3645]
188	[375, 376]	1870	[3031, 93]	3552	[2315, 4986]	5234	[2860, 5857]
189	[377, 378]	1871	[3032, 3033]	3553	[4447, 1757]	5235	[3006, 6178]
190	[379, 380]	1872	[1309, 958]	3554	[1964, 2604]	5236	[4380, 5471]
191	[381, 382]	1873	[3034, 3035]	3555	[2102, 4417]	5237	[6211, 6212]
192	[383, 384]	1874	[3036, 3037]	3556	[842, 1869]	5238	[3926, 4342]
193	[385, 386]	1875	[3038, 3039]	3557	[1928, 4481]	5239	[1052, 1621]
194	[387, 388]	1876	[3040, 3041]	3558	[2597, 4827]	5240	[6213, 5488]
195	[389, 390]	1877	[3042, 3043]	3559	[4987, 827]	5241	[1418, 6214]
196	[391, 392]	1878	[3044, 3045]	3560	[2771, 831]	5242	[5826, 6215]
197	[393, 393]	1879	[3046, 3047]	3561	[2070, 4988]	5243	[1062, 3358]
198	[394, 395]	1880	[3048, 3049]	3562	[4989, 551]	5244	[306, 6216]
199	[396, 397]	1881	[3050, 3051]	3563	[4990, 2318]	5245	[3308, 6174]
200	[398, 399]	1882	[3052, 3053]	3564	[4566, 4991]	5246	[2896, 3639]
201	[400, 401]	1883	[3054, 3055]	3565	[4992, 4765]	5247	[5844, 2998]
202	[402, 403]	1884	[1349, 3056]	3566	[2028, 4573]	5248	[5796, 6217]
203	[404, 405]	1885	[3057, 3058]	3567	[4993, 2459]	5249	[3617, 6218]
204	[406, 407]	1886	[3059, 3060]	3568	[2034, 4994]	5250	[6219, 6220]
205	[408, 409]	1887	[3061, 1272]	3569	[4835, 4756]	5251	[3112, 6221]
206	[410, 411]	1888	[3062, 3063]	3570	[2346, 4801]	5252	[3155, 6149]
207	[412, 413]	1889	[3064, 3065]	3571	[694, 4585]	5253	[6222, 5888]
208	[414, 415]	1890	[3066, 3067]	3572	[165, 4995]	5254	[6223, 6224]
209	[298, 416]	1891	[3068, 3069]	3573	[2507, 1966]	5255	[2862, 6225]
210	[417, 418]	1892	[407, 3070]	3574	[4996, 1968]	5256	[6226, 5658]
211	[419, 420]	1893	[3071, 69]	3575	[4997, 4998]	5257	[6227, 4190]
212	[421, 422]	1894	[3072, 3073]	3576	[248, 4510]	5258	[3625, 6228]
213	[423, 424]	1895	[3074, 3075]	3577	[2270, 4999]	5259	[1447, 2909]
214	[425, 426]	1896	[2979, 3076]	3578	[745, 1849]	5260	[6229, 1609]
215	[427, 428]	1897	[3077, 3078]	3579	[5000, 1969]	5261	[6230, 6226]
216	[429, 430]	1898	[3079, 3080]	3580	[1967, 2237]	5262	[6231, 2919]

217	[431, 432]	1899	[78, 3081]	3581	[5001, 2644]	5263	[6232, 2918]
218	[433, 434]	1900	[3082, 3083]	3582	[4821, 196]	5264	[6233, 3491]
219	[435, 436]	1901	[3084, 3085]	3583	[4619, 2571]	5265	[1458, 6234]
220	[437, 438]	1902	[3086, 3087]	3584	[231, 2535]	5266	[3163, 6235]
221	[439, 440]	1903	[3088, 3089]	3585	[2284, 5002]	5267	[6236, 6237]
222	[441, 442]	1904	[3090, 1354]	3586	[5003, 5004]	5268	[5457, 6238]
223	[443, 444]	1905	[3091, 3092]	3587	[1955, 2635]	5269	[3251, 3091]
224	[445, 446]	1906	[3093, 3094]	3588	[5005, 2427]	5270	[3852, 6125]
225	[447, 448]	1907	[1751, 3095]	3589	[4776, 1821]	5271	[1575, 5577]
226	[449, 450]	1908	[3096, 3097]	3590	[2138, 220]	5272	[3552, 6239]
227	[451, 452]	1909	[3098, 3099]	3591	[5006, 216]	5273	[6240, 3440]
228	[453, 454]	1910	[3100, 3101]	3592	[2616, 2605]	5274	[1375, 6241]
229	[455, 456]	1911	[1602, 3102]	3593	[4665, 5007]	5275	[6242, 5921]
230	[457, 458]	1912	[3103, 960]	3594	[5008, 5009]	5276	[6207, 6243]
231	[102, 459]	1913	[348, 3104]	3595	[2710, 2092]	5277	[4027, 3866]
232	[460, 461]	1914	[3105, 261]	3596	[1808, 2592]	5278	[6244, 6245]
233	[462, 463]	1915	[3106, 3107]	3597	[1825, 4857]	5279	[6246, 5480]
234	[464, 465]	1916	[3108, 3109]	3598	[1788, 5010]	5280	[3041, 6247]
235	[466, 467]	1917	[1241, 3110]	3599	[5011, 4618]	5281	[6248, 347]
236	[468, 469]	1918	[3111, 3112]	3600	[197, 4925]	5282	[6247, 1492]
237	[470, 471]	1919	[3113, 3114]	3601	[2147, 627]	5283	[1198, 4260]
238	[472, 473]	1920	[2893, 3115]	3602	[721, 750]	5284	[6249, 3367]
239	[474, 475]	1921	[3116, 3117]	3603	[1779, 2576]	5285	[4315, 5452]
240	[476, 477]	1922	[3118, 3119]	3604	[2279, 5012]	5286	[6250, 5447]
241	[478, 479]	1923	[3120, 3121]	3605	[4712, 2461]	5287	[4379, 3374]
242	[480, 481]	1924	[3122, 3123]	3606	[2269, 5013]	5288	[4323, 1695]
243	[482, 483]	1925	[3124, 3125]	3607	[2774, 4932]	5289	[4031, 3355]
244	[484, 485]	1926	[1412, 3126]	3608	[4445, 4683]	5290	[6251, 6252]
245	[486, 377]	1927	[3127, 1565]	3609	[5014, 759]	5291	[4092, 6253]
246	[487, 488]	1928	[3128, 3129]	3610	[5015, 5016]	5292	[1326, 6254]
247	[489, 490]	1929	[3130, 3131]	3611	[5017, 5018]	5293	[1631, 5791]
248	[491, 492]	1930	[1136, 3132]	3612	[2543, 4639]	5294	[6255, 291]
249	[493, 494]	1931	[3133, 2880]	3613	[738, 637]	5295	[3772, 6256]
250	[495, 496]	1932	[3134, 3135]	3614	[5019, 5020]	5296	[3878, 2975]
251	[497, 498]	1933	[3136, 1014]	3615	[2358, 557]	5297	[5877, 5434]
252	[499, 500]	1934	[3137, 1563]	3616	[2273, 5021]	5298	[6257, 1176]
253	[501, 502]	1935	[3138, 1650]	3617	[4501, 5022]	5299	[6258, 5731]
254	[503, 504]	1936	[3139, 3140]	3618	[2680, 5023]	5300	[4167, 6259]
255	[505, 506]	1937	[3141, 3142]	3619	[4794, 5024]	5301	[5956, 1244]
256	[507, 508]	1938	[3143, 3144]	3620	[2261, 4469]	5302	[1583, 6260]
257	[509, 53]	1939	[3145, 3146]	3621	[4444, 4661]	5303	[1263, 5569]
258	[510, 511]	1940	[1439, 3147]	3622	[2458, 1862]	5304	[1292, 1561]
259	[512, 513]	1941	[3148, 3149]	3623	[4723, 5025]	5305	[395, 3007]
260	[514, 515]	1942	[1610, 3150]	3624	[2792, 601]	5306	[5845, 6261]

261	[516, 517]	1943	[3151, 3152]	3625	[4621, 604]	5307	[1661, 1057]
262	[518, 519]	1944	[3153, 1402]	3626	[4750, 5026]	5308	[6241, 3312]
263	[520, 36]	1945	[3154, 3155]	3627	[812, 1769]	5309	[5938, 5815]
264	[521, 522]	1946	[3156, 2911]	3628	[1819, 4550]	5310	[6262, 5591]
265	[523, 524]	1947	[3157, 3158]	3629	[4796, 2261]	5311	[6199, 3743]
266	[525, 526]	1948	[3159, 3160]	3630	[5027, 2438]	5312	[6263, 3817]
267	[527, 528]	1949	[1115, 3161]	3631	[5028, 5029]	5313	[6264, 4030]
268	[529, 530]	1950	[1463, 1300]	3632	[5030, 826]	5314	[6265, 1083]
269	[531, 532]	1951	[3162, 3163]	3633	[5031, 5032]	5315	[5946, 1025]
270	[533, 534]	1952	[3164, 3116]	3634	[4954, 4610]	5316	[6266, 3384]
271	[535, 536]	1953	[413, 2866]	3635	[59, 5033]	5317	[6267, 5782]
272	[537, 538]	1954	[3165, 3166]	3636	[2838, 4636]	5318	[6268, 6013]
273	[539, 540]	1955	[3167, 3168]	3637	[5034, 4996]	5319	[6269, 3154]
274	[541, 542]	1956	[3169, 3170]	3638	[4767, 793]	5320	[5945, 3096]
275	[543, 544]	1957	[3171, 3172]	3639	[1974, 5035]	5321	[969, 6270]
276	[545, 546]	1958	[1615, 3173]	3640	[5036, 5037]	5322	[6271, 6018]
277	[547, 548]	1959	[3174, 3175]	3641	[2217, 563]	5323	[6272, 970]
278	[549, 550]	1960	[1359, 2884]	3642	[2349, 4887]	5324	[6273, 3436]
279	[551, 552]	1961	[3176, 3177]	3643	[5038, 5039]	5325	[5965, 29]
280	[553, 554]	1962	[3178, 3179]	3644	[2610, 5040]	5326	[5756, 6266]
281	[555, 556]	1963	[122, 3180]	3645	[2837, 4741]	5327	[5934, 3218]
282	[557, 558]	1964	[3181, 3182]	3646	[61, 4424]	5328	[6274, 1160]
283	[559, 560]	1965	[3183, 1061]	3647	[1779, 141]	5329	[6275, 6276]
284	[561, 562]	1966	[3184, 3185]	3648	[2252, 5041]	5330	[6277, 6278]
285	[563, 564]	1967	[3186, 3187]	3649	[2242, 562]	5331	[6279, 6280]
286	[565, 566]	1968	[3188, 3189]	3650	[1895, 2488]	5332	[6281, 6282]
287	[567, 568]	1969	[3190, 3191]	3651	[518, 4816]	5333	[4040, 3504]
288	[569, 570]	1970	[3192, 3193]	3652	[5042, 728]	5334	[6283, 433]
289	[571, 572]	1971	[3194, 3195]	3653	[2786, 777]	5335	[98, 5998]
290	[573, 574]	1972	[3196, 271]	3654	[2207, 2805]	5336	[6284, 4187]
291	[575, 576]	1973	[3197, 3198]	3655	[5043, 4846]	5337	[4324, 6285]
292	[577, 578]	1974	[3199, 2980]	3656	[821, 5009]	5338	[6286, 5645]
293	[579, 191]	1975	[3200, 3201]	3657	[533, 5044]	5339	[5419, 3540]
294	[580, 581]	1976	[3202, 3203]	3658	[2204, 5045]	5340	[5535, 3804]
295	[582, 215]	1977	[3204, 1640]	3659	[4691, 4928]	5341	[4065, 2914]
296	[583, 560]	1978	[3205, 3206]	3660	[5046, 4970]	5342	[2934, 6287]
297	[584, 585]	1979	[3207, 3208]	3661	[4620, 549]	5343	[6288, 6289]
298	[586, 587]	1980	[3209, 3210]	3662	[4520, 2558]	5344	[6290, 1047]
299	[588, 589]	1981	[3211, 3212]	3663	[2216, 5047]	5345	[5983, 3074]
300	[590, 591]	1982	[3213, 3214]	3664	[14, 5048]	5346	[5448, 1533]
301	[592, 593]	1983	[3215, 3216]	3665	[5049, 5050]	5347	[1568, 6267]
302	[594, 595]	1984	[294, 95]	3666	[5051, 5052]	5348	[6291, 975]
303	[596, 597]	1985	[296, 3217]	3667	[5053, 1799]	5349	[6292, 3710]
304	[598, 599]	1986	[3218, 3219]	3668	[5054, 4690]	5350	[5928, 3524]

305	[600, 601]	1987	[3220, 3221]	3669	[607, 5055]	5351	[5563, 6293]
306	[602, 603]	1988	[1082, 3222]	3670	[4794, 2719]	5352	[5610, 2954]
307	[604, 605]	1989	[3223, 3139]	3671	[774, 2631]	5353	[4247, 6294]
308	[606, 607]	1990	[3224, 3225]	3672	[5013, 4999]	5354	[6295, 6296]
309	[608, 609]	1991	[1403, 3226]	3673	[5056, 4804]	5355	[5495, 4010]
310	[610, 611]	1992	[3227, 3228]	3674	[4839, 4890]	5356	[3434, 5930]
311	[612, 613]	1993	[1196, 3229]	3675	[4808, 5057]	5357	[5723, 3662]
312	[614, 615]	1994	[3230, 3231]	3676	[5058, 5059]	5358	[6297, 3734]
313	[616, 617]	1995	[3232, 3233]	3677	[609, 2722]	5359	[6298, 6000]
314	[618, 619]	1996	[3234, 3235]	3678	[1884, 4950]	5360	[5876, 1304]
315	[620, 621]	1997	[3236, 3237]	3679	[2315, 4708]	5361	[6299, 4286]
316	[622, 623]	1998	[3238, 1193]	3680	[2295, 2763]	5362	[3967, 3282]
317	[624, 625]	1999	[3239, 1678]	3681	[4923, 2443]	5363	[276, 3156]
318	[176, 626]	2000	[3240, 3241]	3682	[2108, 2110]	5364	[1416, 4252]
319	[627, 628]	2001	[3242, 3243]	3683	[5060, 4593]	5365	[6300, 3774]
320	[629, 630]	2002	[2929, 3244]	3684	[1959, 5061]	5366	[6301, 6302]
321	[173, 631]	2003	[3245, 3246]	3685	[4962, 2704]	5367	[5476, 6071]
322	[632, 633]	2004	[3235, 3247]	3686	[2449, 2700]	5368	[1489, 6303]
323	[634, 635]	2005	[3248, 3249]	3687	[247, 902]	5369	[6304, 3650]
324	[636, 637]	2006	[3250, 3251]	3688	[1983, 905]	5370	[6305, 5605]
325	[638, 639]	2007	[3252, 3253]	3689	[5062, 232]	5371	[6306, 6307]
326	[638, 640]	2008	[3254, 1434]	3690	[855, 4839]	5372	[6296, 3438]
327	[641, 642]	2009	[3255, 3256]	3691	[5063, 4809]	5373	[1620, 6200]
328	[643, 644]	2010	[3257, 423]	3692	[5064, 4653]	5374	[2879, 4196]
329	[645, 646]	2011	[3258, 3259]	3693	[2509, 5065]	5375	[6308, 6309]
330	[647, 648]	2012	[415, 3260]	3694	[5066, 5067]	5376	[6310, 6279]
331	[649, 650]	2013	[3261, 3262]	3695	[5068, 2639]	5377	[6311, 6312]
332	[651, 652]	2014	[3263, 3264]	3696	[5069, 2532]	5378	[6313, 6314]
333	[653, 654]	2015	[3265, 1513]	3697	[558, 2545]	5379	[977, 3917]
334	[655, 656]	2016	[3266, 3267]	3698	[2344, 874]	5380	[6315, 3157]
335	[657, 658]	2017	[3268, 3269]	3699	[5070, 5071]	5381	[6150, 4142]
336	[659, 660]	2018	[3270, 3271]	3700	[2038, 4940]	5382	[3016, 1411]
337	[661, 662]	2019	[3272, 3273]	3701	[4731, 526]	5383	[1606, 6089]
338	[663, 664]	2020	[332, 3274]	3702	[2528, 5072]	5384	[6316, 6317]
339	[665, 666]	2021	[3275, 3276]	3703	[5073, 514]	5385	[6318, 3421]
340	[667, 570]	2022	[3277, 3278]	3704	[4867, 2781]	5386	[6260, 6179]
341	[668, 559]	2023	[3279, 3280]	3705	[4953, 5074]	5387	[6319, 6320]
342	[669, 134]	2024	[3008, 3281]	3706	[1980, 5075]	5388	[1516, 6321]
343	[670, 671]	2025	[3282, 3283]	3707	[1997, 2448]	5389	[5472, 5739]
344	[672, 673]	2026	[3284, 3285]	3708	[2364, 5076]	5390	[6322, 3257]
345	[674, 675]	2027	[3286, 3287]	3709	[2085, 5077]	5391	[5509, 3861]
346	[676, 677]	2028	[3288, 3289]	3710	[4947, 2800]	5392	[6323, 3401]
347	[678, 679]	2029	[1001, 3290]	3711	[5078, 4454]	5393	[5821, 6324]
348	[680, 681]	2030	[3291, 3292]	3712	[1760, 5079]	5394	[6325, 6326]

349	[682, 683]	2031	[3293, 3294]	3713	[5080, 1760]	5395	[6327, 3386]
350	[684, 233]	2032	[3295, 3296]	3714	[4966, 1906]	5396	[6328, 4867]
351	[685, 686]	2033	[3297, 3298]	3715	[2183, 1904]	5397	[2418, 820]
352	[687, 688]	2034	[3299, 1339]	3716	[211, 4706]	5398	[4847, 4397]
353	[689, 690]	2035	[3300, 3301]	3717	[4960, 841]	5399	[4752, 2716]
354	[691, 692]	2036	[3302, 3303]	3718	[5081, 5082]	5400	[1865, 4594]
355	[693, 694]	2037	[3304, 1413]	3719	[2088, 2386]	5401	[1904, 5173]
356	[695, 696]	2038	[3305, 3306]	3720	[4467, 818]	5402	[5285, 6329]
357	[229, 697]	2039	[1496, 3197]	3721	[192, 4701]	5403	[5015, 6330]
358	[698, 699]	2040	[3307, 3308]	3722	[2589, 5083]	5404	[4934, 5244]
359	[700, 701]	2041	[3309, 1019]	3723	[868, 5084]	5405	[5351, 4751]
360	[702, 703]	2042	[3310, 3311]	3724	[4430, 5085]	5406	[4606, 1972]
361	[704, 705]	2043	[3312, 3313]	3725	[5086, 2085]	5407	[2516, 6331]
362	[706, 707]	2044	[3314, 1613]	3726	[4901, 2159]	5408	[6332, 6333]
363	[708, 227]	2045	[88, 3315]	3727	[2661, 1773]	5409	[4825, 6334]
364	[593, 44]	2046	[3316, 3317]	3728	[5087, 5088]	5410	[735, 2336]
365	[709, 710]	2047	[3318, 3319]	3729	[1815, 5089]	5411	[2131, 2690]
366	[711, 712]	2048	[3320, 1415]	3730	[5090, 1934]	5412	[2456, 2413]
367	[713, 714]	2049	[1200, 1306]	3731	[2031, 4723]	5413	[6335, 4756]
368	[715, 716]	2050	[1290, 3232]	3732	[5091, 546]	5414	[12, 5115]
369	[717, 718]	2051	[3321, 3322]	3733	[5092, 5093]	5415	[6336, 4432]
370	[719, 720]	2052	[3323, 3324]	3734	[5094, 4988]	5416	[921, 6337]
371	[721, 716]	2053	[3325, 3326]	3735	[2678, 2537]	5417	[6338, 828]
372	[573, 722]	2054	[3327, 3328]	3736	[2021, 2260]	5418	[725, 4714]
373	[723, 724]	2055	[3329, 3330]	3737	[2432, 2041]	5419	[2072, 2342]
374	[725, 726]	2056	[3331, 3332]	3738	[2603, 4897]	5420	[5237, 680]
375	[727, 728]	2057	[3333, 3318]	3739	[4862, 4437]	5421	[2233, 675]
376	[729, 730]	2058	[3334, 3335]	3740	[226, 2807]	5422	[4426, 4864]
377	[224, 731]	2059	[2845, 1734]	3741	[5095, 921]	5423	[2409, 6339]
378	[732, 733]	2060	[3336, 3337]	3742	[2128, 2651]	5424	[923, 6340]
379	[734, 735]	2061	[3182, 3338]	3743	[2761, 2094]	5425	[1818, 6341]
380	[736, 737]	2062	[3339, 3340]	3744	[4722, 4517]	5426	[1934, 572]
381	[738, 739]	2063	[3341, 3342]	3745	[5096, 1958]	5427	[5209, 538]
382	[740, 741]	2064	[1524, 3213]	3746	[813, 1770]	5428	[2706, 1761]
383	[742, 743]	2065	[3343, 3344]	3747	[5097, 5098]	5429	[2228, 4850]
384	[744, 745]	2066	[3345, 1421]	3748	[2123, 5099]	5430	[549, 4907]
385	[746, 747]	2067	[3346, 3347]	3749	[5100, 5101]	5431	[6342, 2406]
386	[748, 749]	2068	[3348, 3349]	3750	[4660, 4445]	5432	[6343, 2327]
387	[750, 751]	2069	[3350, 3351]	3751	[754, 5102]	5433	[6344, 2224]
388	[752, 753]	2070	[3352, 478]	3752	[2341, 5103]	5434	[1913, 6345]
389	[754, 755]	2071	[108, 1112]	3753	[4596, 5104]	5435	[2662, 1774]
390	[756, 757]	2072	[3353, 3354]	3754	[2389, 5105]	5436	[6329, 4501]
391	[758, 759]	2073	[3355, 3356]	3755	[4519, 5106]	5437	[4896, 2490]
392	[760, 761]	2074	[1562, 3357]	3756	[5107, 775]	5438	[4703, 5002]

393	[762, 763]	2075	[3358, 3359]	3757	[5090, 571]	5439	[2199, 5369]
394	[764, 765]	2076	[3360, 472]	3758	[5108, 5109]	5440	[2337, 604]
395	[766, 767]	2077	[3361, 3362]	3759	[4789, 2694]	5441	[2456, 5263]
396	[768, 769]	2078	[3363, 3364]	3760	[5110, 2598]	5442	[2795, 2769]
397	[770, 771]	2079	[3365, 3366]	3761	[2424, 4562]	5443	[4612, 4583]
398	[772, 773]	2080	[3367, 3118]	3762	[5111, 4829]	5444	[6346, 4777]
399	[774, 775]	2081	[3368, 3369]	3763	[162, 915]	5445	[2180, 2686]
400	[776, 777]	2082	[3370, 3371]	3764	[5112, 5098]	5446	[5100, 6347]
401	[778, 779]	2083	[3372, 1291]	3765	[239, 4975]	5447	[794, 1766]
402	[780, 781]	2084	[342, 956]	3766	[5038, 2269]	5448	[797, 5072]
403	[782, 783]	2085	[1577, 3373]	3767	[4909, 4771]	5449	[6348, 6349]
404	[784, 654]	2086	[3374, 3375]	3768	[1771, 2814]	5450	[1893, 33]
405	[785, 786]	2087	[1433, 3059]	3769	[648, 5113]	5451	[4814, 674]
406	[787, 788]	2088	[3376, 3377]	3770	[5114, 5115]	5452	[2813, 1772]
407	[789, 790]	2089	[3378, 1445]	3771	[5116, 5093]	5453	[4914, 6350]
408	[791, 740]	2090	[3379, 3380]	3772	[2733, 2594]	5454	[6351, 6352]
409	[792, 612]	2091	[3381, 3382]	3773	[2243, 5117]	5455	[4793, 595]
410	[793, 671]	2092	[3065, 3383]	3774	[35, 5118]	5456	[1776, 6353]
411	[794, 795]	2093	[3384, 3385]	3775	[2623, 4569]	5457	[1847, 160]
412	[555, 796]	2094	[3386, 3387]	3776	[2142, 2313]	5458	[6354, 2453]
413	[671, 797]	2095	[3388, 3389]	3777	[4924, 5119]	5459	[6355, 5308]
414	[132, 798]	2096	[1050, 3390]	3778	[5120, 4765]	5460	[4524, 2565]
415	[134, 799]	2097	[1431, 3391]	3779	[2017, 2132]	5461	[2034, 5382]
416	[585, 800]	2098	[3392, 3393]	3780	[591, 5121]	5462	[5294, 2769]
417	[801, 802]	2099	[3394, 3009]	3781	[4511, 5122]	5463	[745, 6356]
418	[803, 804]	2100	[3395, 3396]	3782	[4400, 810]	5464	[817, 4468]
419	[805, 806]	2101	[3397, 3398]	3783	[209, 2475]	5465	[736, 4549]
420	[807, 808]	2102	[3399, 3400]	3784	[1908, 2102]	5466	[2540, 677]
421	[809, 810]	2103	[3401, 1319]	3785	[2082, 5123]	5467	[5185, 2428]
422	[811, 806]	2104	[3402, 3403]	3786	[727, 5124]	5468	[5307, 2558]
423	[812, 813]	2105	[3404, 3405]	3787	[5125, 5126]	5469	[4480, 6357]
424	[814, 815]	2106	[3406, 3407]	3788	[4676, 5007]	5470	[187, 4485]
425	[744, 816]	2107	[3408, 3409]	3789	[4631, 5102]	5471	[2208, 2806]
426	[817, 818]	2108	[3410, 3411]	3790	[2514, 1970]	5472	[4972, 2116]
427	[819, 820]	2109	[1171, 1168]	3791	[1758, 2259]	5473	[6358, 6359]
428	[821, 822]	2110	[1305, 327]	3792	[2777, 2164]	5474	[4982, 4669]
429	[823, 824]	2111	[3412, 3413]	3793	[4857, 5127]	5475	[5278, 5218]
430	[825, 730]	2112	[1169, 3414]	3794	[4926, 5128]	5476	[4575, 5265]
431	[826, 827]	2113	[3415, 3416]	3795	[2460, 2197]	5477	[5217, 891]
432	[828, 147]	2114	[3417, 3418]	3796	[2580, 5129]	5478	[6360, 2174]
433	[829, 830]	2115	[1020, 2886]	3797	[45, 4800]	5479	[5329, 4740]
434	[831, 832]	2116	[3419, 3420]	3798	[5130, 2287]	5480	[5333, 2654]
435	[833, 834]	2117	[3421, 3422]	3799	[4778, 557]	5481	[4474, 6361]
436	[572, 835]	2118	[3423, 2949]	3800	[2254, 4865]	5482	[539, 5348]

437	[836, 837]	2119	[1385, 3424]	3801	[4579, 5131]	5483	[4450, 6362]
438	[838, 839]	2120	[3012, 3425]	3802	[2495, 4613]	5484	[6363, 6364]
439	[840, 795]	2121	[3426, 3275]	3803	[4837, 2284]	5485	[5204, 6365]
440	[841, 842]	2122	[1307, 3427]	3804	[2054, 4979]	5486	[6366, 5162]
441	[843, 844]	2123	[3428, 3410]	3805	[4484, 188]	5487	[652, 5041]
442	[845, 846]	2124	[2947, 3429]	3806	[2453, 5132]	5488	[5289, 2730]
443	[847, 848]	2125	[3430, 3137]	3807	[5133, 1854]	5489	[4987, 6367]
444	[849, 850]	2126	[3431, 3432]	3808	[2745, 2406]	5490	[5125, 2091]
445	[851, 852]	2127	[3433, 3434]	3809	[2755, 4866]	5491	[6368, 794]
446	[853, 854]	2128	[1013, 3435]	3810	[5134, 855]	5492	[4485, 4894]
447	[855, 856]	2129	[3436, 3437]	3811	[622, 5135]	5493	[6369, 2340]
448	[857, 858]	2130	[3438, 289]	3812	[5136, 5137]	5494	[6370, 4963]
449	[859, 860]	2131	[3389, 3439]	3813	[4491, 4964]	5495	[2470, 4769]
450	[861, 862]	2132	[3440, 3441]	3814	[2598, 5138]	5496	[6371, 6372]
451	[863, 864]	2133	[1109, 3442]	3815	[4801, 697]	5497	[2482, 1786]
452	[865, 866]	2134	[3443, 3372]	3816	[5139, 5140]	5498	[2290, 4792]
453	[867, 868]	2135	[3444, 3211]	3817	[5141, 1755]	5499	[2498, 2759]
454	[157, 869]	2136	[3445, 3446]	3818	[2241, 561]	5500	[5286, 2251]
455	[870, 871]	2137	[3447, 3448]	3819	[5142, 5143]	5501	[149, 753]
456	[872, 873]	2138	[3449, 3450]	3820	[5144, 2274]	5502	[1862, 4405]
457	[874, 875]	2139	[3451, 3452]	3821	[2136, 5145]	5503	[6373, 2717]
458	[876, 877]	2140	[3298, 3153]	3822	[5146, 5147]	5504	[872, 2761]
459	[676, 878]	2141	[86, 3062]	3823	[2048, 1966]	5505	[6374, 1986]
460	[879, 740]	2142	[3453, 3454]	3824	[2684, 4746]	5506	[5005, 576]
461	[880, 881]	2143	[3455, 3456]	3825	[2330, 2126]	5507	[2040, 1767]
462	[846, 882]	2144	[3457, 1509]	3826	[2655, 4969]	5508	[6375, 6376]
463	[218, 883]	2145	[3458, 3459]	3827	[5148, 2035]	5509	[6377, 583]
464	[884, 885]	2146	[3460, 3461]	3828	[2288, 4921]	5510	[5286, 6378]
465	[886, 887]	2147	[3462, 3463]	3829	[4992, 5149]	5511	[6366, 1962]
466	[888, 889]	2148	[3464, 3465]	3830	[1894, 5150]	5512	[2557, 808]
467	[600, 890]	2149	[3466, 3467]	3831	[5151, 502]	5513	[4529, 756]
468	[766, 891]	2150	[3468, 3469]	3832	[2226, 5152]	5514	[4851, 6379]
469	[892, 893]	2151	[3470, 3471]	3833	[2750, 2809]	5515	[1823, 6364]
470	[894, 895]	2152	[3472, 3473]	3834	[4977, 5085]	5516	[186, 5106]
471	[896, 897]	2153	[3474, 3475]	3835	[580, 2640]	5517	[2620, 4395]
472	[898, 899]	2154	[1601, 3472]	3836	[2780, 2710]	5518	[5008, 822]
473	[900, 901]	2155	[1204, 3476]	3837	[5153, 4459]	5519	[1821, 2526]
474	[902, 903]	2156	[3477, 3478]	3838	[2521, 4628]	5520	[2277, 5235]
475	[904, 905]	2157	[2157, 2157]	3839	[2773, 5154]	5521	[6380, 5387]
476	[906, 907]	2158	[3479, 1199]	3840	[2258, 5155]	5522	[4769, 5248]
477	[908, 807]	2159	[1211, 1203]	3841	[537, 5156]	5523	[5376, 5346]
478	[909, 906]	2160	[3480, 3481]	3842	[5157, 5158]	5524	[6381, 6382]
479	[910, 911]	2161	[3482, 3483]	3843	[4938, 4880]	5525	[2223, 6383]
480	[195, 912]	2162	[3427, 3480]	3844	[4628, 5159]	5526	[509, 2780]

481	[913, 530]	2163	[3484, 3485]	3845	[2169, 5160]	5527	[4935, 4682]
482	[914, 742]	2164	[3486, 3487]	3846	[4689, 5161]	5528	[759, 4933]
483	[915, 916]	2165	[3488, 3489]	3847	[866, 2522]	5529	[900, 2554]
484	[917, 918]	2166	[3490, 460]	3848	[1800, 2431]	5530	[5210, 5270]
485	[214, 919]	2167	[3491, 3492]	3849	[1961, 5162]	5531	[5172, 4557]
486	[920, 921]	2168	[3493, 1648]	3850	[222, 2726]	5532	[2027, 2409]
487	[922, 923]	2169	[3494, 3495]	3851	[5163, 4957]	5533	[4784, 5017]
488	[924, 600]	2170	[3496, 3497]	3852	[558, 5164]	5534	[223, 6384]
489	[925, 914]	2171	[3498, 3499]	3853	[5165, 916]	5535	[1813, 6385]
490	[926, 927]	2172	[3500, 3501]	3854	[51, 4873]	5536	[1860, 2034]
491	[928, 929]	2173	[3502, 3503]	3855	[2529, 4692]	5537	[4722, 6386]
492	[930, 931]	2174	[3504, 3505]	3856	[2175, 591]	5538	[2560, 4895]
493	[932, 933]	2175	[3506, 3507]	3857	[246, 4409]	5539	[2275, 5286]
494	[934, 935]	2176	[3508, 3509]	3858	[2707, 5166]	5540	[6374, 2272]
495	[936, 937]	2177	[3510, 3511]	3859	[1834, 4452]	5541	[4718, 2633]
496	[938, 721]	2178	[3512, 343]	3860	[5000, 2514]	5542	[5052, 5296]
497	[939, 940]	2179	[3409, 1201]	3861	[512, 2605]	5543	[2675, 2572]
498	[941, 942]	2180	[3513, 3514]	3862	[525, 4732]	5544	[2694, 6387]
499	[943, 944]	2181	[1737, 3515]	3863	[5167, 2384]	5545	[6388, 2080]
500	[945, 946]	2182	[3516, 3090]	3864	[4642, 5168]	5546	[1932, 204]
501	[947, 948]	2183	[3517, 1404]	3865	[1896, 2489]	5547	[2596, 4733]
502	[949, 25]	2184	[3518, 3519]	3866	[2561, 2456]	5548	[227, 4699]
503	[950, 951]	2185	[3520, 3521]	3867	[4403, 5169]	5549	[2564, 2036]
504	[952, 953]	2186	[3522, 3523]	3868	[875, 2628]	5550	[6335, 2579]
505	[954, 955]	2187	[3524, 3525]	3869	[5170, 5171]	5551	[164, 694]
506	[956, 957]	2188	[3526, 3295]	3870	[5172, 1797]	5552	[6389, 5067]
507	[958, 959]	2189	[3527, 3528]	3871	[2227, 32]	5553	[6390, 2608]
508	[960, 961]	2190	[3529, 3530]	3872	[2541, 5173]	5554	[6391, 926]
509	[962, 412]	2191	[3531, 3532]	3873	[5174, 2076]	5555	[5065, 2331]
510	[963, 964]	2192	[3533, 3534]	3874	[2614, 5044]	5556	[6392, 5361]
511	[965, 966]	2193	[3535, 3176]	3875	[4931, 2775]	5557	[6381, 2190]
512	[440, 967]	2194	[3536, 3537]	3876	[1883, 2629]	5558	[2461, 6393]
513	[968, 969]	2195	[3073, 3538]	3877	[2279, 929]	5559	[159, 1848]
514	[970, 971]	2196	[3539, 1364]	3878	[657, 5175]	5560	[2416, 6394]
515	[972, 973]	2197	[3023, 119]	3879	[4845, 5176]	5561	[4959, 2543]
516	[974, 949]	2198	[3540, 1477]	3880	[2420, 4678]	5562	[154, 6395]
517	[975, 23]	2199	[3175, 3541]	3881	[5177, 4696]	5563	[5337, 5265]
518	[976, 977]	2200	[3542, 3543]	3882	[5120, 5149]	5564	[2248, 2075]
519	[978, 979]	2201	[3544, 3545]	3883	[4709, 2265]	5565	[5202, 4399]
520	[980, 981]	2202	[3546, 1317]	3884	[5178, 5033]	5566	[5056, 2827]
521	[982, 983]	2203	[3547, 3548]	3885	[5179, 5180]	5567	[5065, 6396]
522	[984, 985]	2204	[3549, 1250]	3886	[5181, 1845]	5568	[4840, 6397]
523	[986, 987]	2205	[2917, 3550]	3887	[5182, 2137]	5569	[1910, 6341]
524	[988, 425]	2206	[3551, 3552]	3888	[2005, 4625]	5570	[687, 5189]

525	[989, 990]	2207	[3553, 3554]	3889	[5183, 2058]	5571	[4777, 2358]
526	[966, 991]	2208	[3356, 3555]	3890	[2398, 2349]	5572	[6368, 840]
527	[992, 993]	2209	[967, 3556]	3891	[5184, 915]	5573	[6398, 4482]
528	[994, 995]	2210	[3557, 3558]	3892	[4774, 511]	5574	[4993, 1862]
529	[996, 997]	2211	[3559, 3547]	3893	[130, 659]	5575	[2485, 6399]
530	[998, 999]	2212	[3560, 3561]	3894	[739, 4874]	5576	[5052, 5109]
531	[1000, 1001]	2213	[3562, 254]	3895	[729, 2750]	5577	[6400, 5010]
532	[1002, 1003]	2214	[3563, 3564]	3896	[4928, 5185]	5578	[1936, 4641]
533	[1004, 1005]	2215	[3172, 3565]	3897	[5186, 2079]	5579	[2385, 2089]
534	[1006, 1007]	2216	[1117, 3566]	3898	[674, 4413]	5580	[1927, 6401]
535	[1008, 1009]	2217	[2930, 3567]	3899	[2714, 5143]	5581	[6377, 559]
536	[1010, 1011]	2218	[3568, 3569]	3900	[595, 5187]	5582	[759, 4878]
537	[1012, 1013]	2219	[1340, 3570]	3901	[5188, 517]	5583	[6402, 1834]
538	[1014, 1015]	2220	[3571, 3572]	3902	[5042, 5124]	5584	[1790, 5119]
539	[481, 1016]	2221	[3573, 3574]	3903	[205, 2733]	5585	[2599, 4495]
540	[1017, 1018]	2222	[124, 3575]	3904	[2325, 799]	5586	[5174, 5129]
541	[1019, 1020]	2223	[3576, 3577]	3905	[2754, 5189]	5587	[2551, 4799]
542	[1021, 1022]	2224	[3578, 3579]	3906	[162, 5165]	5588	[6354, 2129]
543	[1023, 1024]	2225	[3580, 3581]	3907	[5190, 2543]	5589	[1859, 6357]
544	[1025, 1026]	2226	[3582, 3583]	3908	[4650, 4813]	5590	[2062, 4483]
545	[1027, 1028]	2227	[3584, 3449]	3909	[923, 2645]	5591	[2270, 5223]
546	[1029, 1030]	2228	[3585, 1008]	3910	[2106, 5191]	5592	[2121, 2502]
547	[1031, 1032]	2229	[3586, 1135]	3911	[4548, 4884]	5593	[48, 5191]
548	[1033, 1034]	2230	[3587, 3493]	3912	[1855, 4722]	5594	[5214, 4654]
549	[1035, 1036]	2231	[3588, 3494]	3913	[2129, 5132]	5595	[5184, 5165]
550	[1037, 1038]	2232	[3589, 3590]	3914	[4526, 2521]	5596	[2086, 5287]
551	[1039, 1040]	2233	[3591, 3592]	3915	[5192, 5193]	5597	[5325, 13]
552	[1041, 1042]	2234	[3593, 3594]	3916	[1843, 5194]	5598	[6403, 4961]
553	[1043, 1044]	2235	[426, 3595]	3917	[5195, 4635]	5599	[4662, 5304]
554	[1045, 1046]	2236	[1347, 3111]	3918	[5196, 5197]	5600	[901, 2555]
555	[1047, 1048]	2237	[3185, 1258]	3919	[4749, 2816]	5601	[4889, 171]
556	[1049, 1050]	2238	[3596, 3597]	3920	[2045, 2568]	5602	[4652, 672]
557	[1051, 1052]	2239	[3271, 3202]	3921	[5198, 5199]	5603	[192, 2452]
558	[1053, 1054]	2240	[3004, 387]	3922	[723, 1799]	5604	[5110, 1813]
559	[1055, 1056]	2241	[2883, 3598]	3923	[4598, 5200]	5605	[6404, 2350]
560	[1057, 1058]	2242	[3599, 3600]	3924	[2611, 4615]	5606	[4564, 4911]
561	[1059, 1060]	2243	[469, 3601]	3925	[611, 1767]	5607	[4966, 4501]
562	[1061, 1062]	2244	[1704, 3602]	3926	[2722, 556]	5608	[155, 2292]
563	[1063, 1064]	2245	[344, 3603]	3927	[2373, 5123]	5609	[5316, 2052]
564	[1065, 1066]	2246	[3400, 3604]	3928	[2002, 5201]	5610	[734, 2335]
565	[302, 1067]	2247	[3605, 3606]	3929	[5202, 2120]	5611	[6405, 6406]
566	[403, 1068]	2248	[3607, 3608]	3930	[882, 842]	5612	[4546, 6337]
567	[964, 1069]	2249	[3609, 3610]	3931	[5011, 4494]	5613	[2348, 1898]
568	[1070, 1071]	2250	[3611, 3612]	3932	[913, 4943]	5614	[2322, 174]

569	[1072, 1073]	2251	[3613, 3365]	3933	[2473, 2444]	5615	[4960, 882]
570	[1074, 1075]	2252	[3614, 301]	3934	[4521, 2559]	5616	[4829, 4864]
571	[1076, 1077]	2253	[3615, 281]	3935	[5203, 5204]	5617	[2201, 6407]
572	[1078, 1079]	2254	[3616, 3617]	3936	[2765, 5205]	5618	[2038, 749]
573	[392, 1080]	2255	[3618, 3619]	3937	[2410, 2751]	5619	[6408, 6409]
574	[1081, 1082]	2256	[3620, 3621]	3938	[2666, 5206]	5620	[6410, 6411]
575	[1083, 1084]	2257	[3622, 3623]	3939	[5182, 5145]	5621	[6412, 5332]
576	[438, 1085]	2258	[3624, 3625]	3940	[5207, 5208]	5622	[5302, 4985]
577	[1086, 1087]	2259	[1369, 3626]	3941	[2833, 4552]	5623	[4951, 1919]
578	[1088, 1089]	2260	[3627, 3628]	3942	[4627, 4989]	5624	[2069, 4734]
579	[1090, 383]	2261	[3276, 3629]	3943	[2799, 2529]	5625	[4624, 2006]
580	[1091, 1092]	2262	[3630, 3462]	3944	[2381, 881]	5626	[6413, 2364]
581	[1093, 279]	2263	[1449, 3631]	3945	[4774, 2630]	5627	[5380, 5131]
582	[1094, 1095]	2264	[3632, 3297]	3946	[5209, 5156]	5628	[2001, 5040]
583	[1096, 1097]	2265	[3633, 3634]	3947	[5210, 5208]	5629	[6414, 6415]
584	[1098, 1099]	2266	[3635, 3636]	3948	[5051, 5108]	5630	[777, 5337]
585	[1100, 1101]	2267	[3637, 3638]	3949	[596, 4564]	5631	[819, 2419]
586	[1102, 1103]	2268	[3639, 3640]	3950	[4651, 707]	5632	[6416, 5105]
587	[1104, 1105]	2269	[3641, 3159]	3951	[4915, 609]	5633	[2340, 6365]
588	[1106, 1107]	2270	[362, 3642]	3952	[4743, 2324]	5634	[6417, 6418]
589	[1108, 1109]	2271	[3643, 3644]	3953	[2041, 4805]	5635	[4976, 4602]
590	[1110, 1111]	2272	[3645, 3646]	3954	[4427, 5211]	5636	[6388, 4989]
591	[1112, 1113]	2273	[1271, 3647]	3955	[5212, 4959]	5637	[2002, 6419]
592	[1114, 1115]	2274	[3648, 3649]	3956	[5213, 5017]	5638	[664, 5205]
593	[1116, 1117]	2275	[1604, 3613]	3957	[2382, 2747]	5639	[675, 4451]
594	[1118, 1119]	2276	[3650, 3651]	3958	[5214, 236]	5640	[4541, 4780]
595	[1120, 1121]	2277	[3652, 3653]	3959	[4658, 5215]	5641	[2572, 2099]
596	[1122, 1123]	2278	[3654, 1722]	3960	[5216, 4743]	5642	[176, 5089]
597	[1124, 1125]	2279	[3655, 3656]	3961	[32, 2541]	5643	[48, 4574]
598	[1126, 1127]	2280	[1639, 3657]	3962	[2394, 2315]	5644	[2549, 6420]
599	[1128, 1129]	2281	[477, 2890]	3963	[5006, 132]	5645	[5391, 793]
600	[1130, 1131]	2282	[3658, 468]	3964	[5217, 767]	5646	[868, 42]
601	[1132, 1133]	2283	[1491, 3659]	3965	[2029, 2306]	5647	[2219, 2032]
602	[496, 1134]	2284	[3660, 3661]	3966	[4650, 4916]	5648	[5372, 2453]
603	[1135, 1136]	2285	[3662, 3663]	3967	[871, 5218]	5649	[6421, 2517]
604	[1137, 1138]	2286	[3664, 3665]	3968	[131, 216]	5650	[541, 6422]
605	[1139, 1140]	2287	[3666, 3667]	3969	[644, 4901]	5651	[6409, 2829]
606	[1141, 1142]	2288	[3668, 3669]	3970	[4903, 643]	5652	[5238, 5246]
607	[1143, 1144]	2289	[3670, 3671]	3971	[2298, 2109]	5653	[4611, 4582]
608	[1145, 1146]	2290	[3672, 3673]	3972	[640, 2160]	5654	[1776, 6423]
609	[1147, 1049]	2291	[3674, 3675]	3973	[785, 2151]	5655	[1778, 5374]
610	[1148, 1149]	2292	[1554, 3676]	3974	[5219, 896]	5656	[1762, 6381]
611	[1150, 1151]	2293	[310, 3677]	3975	[5220, 5221]	5657	[5001, 4664]
612	[1152, 1153]	2294	[3678, 3679]	3976	[4613, 5222]	5658	[6406, 2239]

613	[1154, 1155]	2295	[3680, 2926]	3977	[5013, 5223]	5659	[6380, 895]
614	[1156, 1157]	2296	[3681, 2928]	3978	[2528, 5224]	5660	[939, 246]
615	[1158, 1159]	2297	[326, 3682]	3979	[2210, 5225]	5661	[802, 6423]
616	[1160, 1161]	2298	[3475, 3408]	3980	[4406, 549]	5662	[6424, 6425]
617	[1162, 1163]	2299	[3683, 2905]	3981	[2562, 5226]	5663	[4404, 8]
618	[1164, 1165]	2300	[3684, 339]	3982	[5227, 4598]	5664	[4788, 6426]
619	[1166, 1167]	2301	[3685, 3093]	3983	[5136, 5228]	5665	[5028, 6427]
620	[1168, 1169]	2302	[3686, 3687]	3984	[5229, 2262]	5666	[2728, 203]
621	[1170, 1171]	2303	[3688, 3689]	3985	[4694, 2626]	5667	[5328, 5274]
622	[1172, 1173]	2304	[3690, 3691]	3986	[1906, 5022]	5668	[4656, 1917]
623	[1174, 1175]	2305	[3069, 3692]	3987	[5230, 5231]	5669	[5318, 4438]
624	[1176, 1177]	2306	[3693, 3694]	3988	[2476, 1787]	5670	[705, 6428]
625	[1178, 1179]	2307	[3695, 3184]	3989	[5232, 242]	5671	[4536, 5269]
626	[1180, 1181]	2308	[3696, 3697]	3990	[2134, 4500]	5672	[2192, 5258]
627	[1182, 1183]	2309	[1645, 3698]	3991	[875, 4623]	5673	[6402, 2581]
628	[76, 1184]	2310	[3699, 3700]	3992	[132, 217]	5674	[6429, 6422]
629	[1185, 1186]	2311	[3701, 3702]	3993	[5233, 4944]	5675	[2831, 5171]
630	[1187, 1188]	2312	[3703, 1051]	3994	[2363, 2703]	5676	[5271, 2065]
631	[1189, 1190]	2313	[3319, 3704]	3995	[2798, 2679]	5677	[4757, 2498]
632	[1191, 954]	2314	[3705, 3706]	3996	[2003, 2830]	5678	[2697, 2100]
633	[409, 1192]	2315	[3707, 3708]	3997	[5092, 5234]	5679	[942, 4527]
634	[1193, 1194]	2316	[3709, 1641]	3998	[635, 5235]	5680	[2296, 1806]
635	[1195, 1196]	2317	[1702, 117]	3999	[2534, 789]	5681	[6430, 2823]
636	[282, 406]	2318	[3710, 437]	4000	[667, 4559]	5682	[2683, 2378]
637	[1197, 1198]	2319	[3711, 3712]	4001	[4552, 5236]	5683	[5313, 4428]
638	[1199, 1200]	2320	[3713, 3711]	4002	[4554, 4982]	5684	[4582, 6431]
639	[1201, 1202]	2321	[3714, 3588]	4003	[4754, 4671]	5685	[4783, 5213]
640	[1203, 1204]	2322	[3715, 3716]	4004	[2460, 4594]	5686	[1920, 2440]
641	[1205, 1206]	2323	[3537, 1690]	4005	[716, 1960]	5687	[6432, 6433]
642	[1207, 1208]	2324	[3717, 439]	4006	[4753, 5237]	5688	[797, 5224]
643	[1208, 1209]	2325	[3718, 3719]	4007	[838, 50]	5689	[4486, 5147]
644	[1210, 1211]	2326	[3720, 3721]	4008	[5238, 5239]	5690	[5199, 2358]
645	[1212, 1213]	2327	[3722, 3630]	4009	[4733, 4506]	5691	[6434, 2044]
646	[1214, 1215]	2328	[1741, 3723]	4010	[4643, 5240]	5692	[4790, 4698]
647	[1216, 1217]	2329	[90, 3724]	4011	[1912, 5241]	5693	[697, 6435]
648	[1218, 1219]	2330	[3725, 1150]	4012	[1982, 904]	5694	[862, 864]
649	[1220, 1221]	2331	[3682, 3482]	4013	[5026, 5242]	5695	[1853, 1825]
650	[1222, 1223]	2332	[3726, 3474]	4014	[2191, 5155]	5696	[942, 6436]
651	[1224, 1225]	2333	[3583, 3727]	4015	[2612, 5243]	5697	[2505, 852]
652	[1226, 1227]	2334	[3728, 1580]	4016	[4876, 2376]	5698	[2313, 6437]
653	[1228, 1229]	2335	[3281, 319]	4017	[4516, 5244]	5699	[5389, 2314]
654	[1230, 419]	2336	[985, 3729]	4018	[128, 5077]	5700	[810, 6438]
655	[1231, 1232]	2337	[3730, 3124]	4019	[5245, 5246]	5701	[5301, 4516]
656	[1233, 1234]	2338	[1163, 3731]	4020	[5230, 1887]	5702	[1810, 6439]

657	[1235, 1236]	2339	[3732, 3019]	4021	[675, 5247]	5703	[2801, 1769]
658	[1237, 1238]	2340	[973, 3733]	4022	[2471, 5248]	5704	[2648, 4688]
659	[1239, 1240]	2341	[3734, 3735]	4023	[4866, 2296]	5705	[4555, 4728]
660	[260, 1241]	2342	[3736, 1276]	4024	[5069, 2600]	5706	[6413, 5343]
661	[1242, 1243]	2343	[3737, 3738]	4025	[2576, 2465]	5707	[2646, 2485]
662	[1244, 1245]	2344	[3429, 3739]	4026	[563, 2762]	5708	[6440, 5086]
663	[1246, 1247]	2345	[1705, 3740]	4027	[735, 4403]	5709	[756, 4607]
664	[1248, 1249]	2346	[3741, 3742]	4028	[5249, 2170]	5710	[6441, 6442]
665	[1250, 1251]	2347	[3743, 3192]	4029	[5027, 2423]	5711	[1826, 6443]
666	[1252, 1253]	2348	[3744, 3745]	4030	[2219, 4723]	5712	[5306, 6374]
667	[1254, 1255]	2349	[3746, 3747]	4031	[2406, 4867]	5713	[5314, 1967]
668	[1256, 1257]	2350	[3748, 3749]	4032	[619, 927]	5714	[5276, 4700]
669	[1258, 1259]	2351	[3750, 3751]	4033	[5086, 128]	5715	[6424, 4782]
670	[1260, 1261]	2352	[1698, 3044]	4034	[5163, 5250]	5716	[221, 907]
671	[1262, 1263]	2353	[3752, 3753]	4035	[5251, 733]	5717	[2336, 6444]
672	[1264, 1265]	2354	[3754, 3755]	4036	[1813, 5138]	5718	[5355, 1978]
673	[1266, 1267]	2355	[2953, 3756]	4037	[5046, 5252]	5719	[5220, 6376]
674	[1268, 1269]	2356	[3757, 3758]	4038	[5253, 2213]	5720	[5331, 6445]
675	[1270, 1271]	2357	[1552, 1547]	4039	[1794, 5020]	5721	[5183, 2184]
676	[1272, 1273]	2358	[1739, 1053]	4040	[2672, 2424]	5722	[5053, 724]
677	[1274, 1275]	2359	[3759, 1658]	4041	[4497, 2308]	5723	[1949, 2216]
678	[1276, 1277]	2360	[3760, 3761]	4042	[5151, 772]	5724	[6446, 2364]
679	[1278, 1279]	2361	[3762, 3763]	4043	[5254, 2536]	5725	[2139, 4983]
680	[1280, 1281]	2362	[3649, 3764]	4044	[516, 5151]	5726	[2250, 6378]
681	[1282, 1283]	2363	[256, 3765]	4045	[4854, 2653]	5727	[4629, 5237]
682	[1284, 1285]	2364	[3766, 3767]	4046	[4898, 2482]	5728	[6396, 5134]
683	[1286, 1266]	2365	[3768, 3769]	4047	[1902, 5255]	5729	[695, 6447]
684	[1287, 1288]	2366	[3770, 1027]	4048	[151, 202]	5730	[2485, 4968]
685	[1289, 1290]	2367	[3771, 3772]	4049	[2064, 593]	5731	[2009, 828]
686	[1291, 1292]	2368	[3354, 3773]	4050	[2725, 158]	5732	[4819, 2669]
687	[1293, 1294]	2369	[1701, 3183]	4051	[5251, 5256]	5733	[2558, 6448]
688	[1295, 1296]	2370	[3774, 3775]	4052	[4569, 2792]	5734	[5096, 4449]
689	[1297, 1298]	2371	[2841, 3776]	4053	[154, 662]	5735	[2574, 2523]
690	[364, 1299]	2372	[3777, 3484]	4054	[4982, 2392]	5736	[2595, 2068]
691	[1300, 1301]	2373	[1727, 3778]	4055	[5257, 2677]	5737	[4516, 6449]
692	[1302, 1303]	2374	[3779, 1065]	4056	[5155, 5258]	5738	[4453, 6381]
693	[1304, 1305]	2375	[3780, 3781]	4057	[771, 5259]	5739	[6450, 4644]
694	[1306, 1307]	2376	[3595, 3782]	4058	[4942, 5260]	5740	[2116, 6451]
695	[1308, 1309]	2377	[3152, 3783]	4059	[5261, 732]	5741	[5131, 689]
696	[1310, 1287]	2378	[3784, 3127]	4060	[4791, 2291]	5742	[6452, 6345]
697	[1311, 1312]	2379	[3076, 3785]	4061	[4773, 4492]	5743	[6417, 6453]
698	[1313, 1314]	2380	[3786, 1374]	4062	[2618, 4823]	5744	[708, 2807]
699	[1315, 1316]	2381	[3629, 3787]	4063	[2547, 4796]	5745	[202, 565]
700	[1317, 1318]	2382	[3788, 3535]	4064	[2366, 4820]	5746	[5212, 5190]

701	[1319, 1320]	2383	[3789, 3790]	4065	[4796, 4434]	5747	[930, 2791]
702	[1321, 1322]	2384	[3782, 3791]	4066	[545, 5262]	5748	[2368, 4513]
703	[1323, 1324]	2385	[1232, 3792]	4067	[2482, 2476]	5749	[4860, 4781]
704	[1325, 1326]	2386	[3793, 3722]	4068	[5195, 2838]	5750	[2394, 4707]
705	[1327, 1328]	2387	[3794, 3795]	4069	[4604, 2264]	5751	[1954, 2634]
706	[1329, 1330]	2388	[436, 3796]	4070	[2412, 5263]	5752	[826, 6367]
707	[1331, 1332]	2389	[3797, 2969]	4071	[5264, 2230]	5753	[776, 2787]
708	[1333, 1334]	2390	[3798, 263]	4072	[2793, 1851]	5754	[2825, 5378]
709	[1335, 1336]	2391	[3799, 3800]	4073	[5265, 4622]	5755	[4854, 4433]
710	[1337, 1338]	2392	[485, 1652]	4074	[2176, 2817]	5756	[779, 5388]
711	[1339, 1340]	2393	[330, 1671]	4075	[1866, 4616]	5757	[4587, 1955]
712	[1341, 1342]	2394	[3801, 3802]	4076	[5266, 5267]	5758	[5298, 2708]
713	[1343, 1344]	2395	[3301, 3803]	4077	[5268, 2664]	5759	[536, 6361]
714	[1345, 1002]	2396	[3804, 3805]	4078	[1988, 5269]	5760	[535, 4474]
715	[1346, 1347]	2397	[3806, 3807]	4079	[5207, 5270]	5761	[6454, 5016]
716	[1348, 1349]	2398	[3808, 3809]	4080	[5271, 4602]	5762	[4661, 4659]
717	[1350, 1351]	2399	[3810, 3811]	4081	[5188, 5151]	5763	[5326, 5324]
718	[1352, 1353]	2400	[3473, 1207]	4082	[5272, 1844]	5764	[2717, 6332]
719	[1354, 1355]	2401	[3812, 1346]	4083	[5185, 2247]	5765	[206, 2734]
720	[1356, 1357]	2402	[2945, 3813]	4084	[2277, 2782]	5766	[5107, 2631]
721	[1358, 1359]	2403	[3814, 3815]	4085	[5273, 5274]	5767	[585, 6455]
722	[1360, 1361]	2404	[3816, 3054]	4086	[5275, 5276]	5768	[4860, 6424]
723	[1362, 1363]	2405	[3817, 3818]	4087	[5277, 5278]	5769	[58, 6456]
724	[1364, 1365]	2406	[3776, 3819]	4088	[5279, 5280]	5770	[804, 5215]
725	[1366, 1367]	2407	[3820, 3821]	4089	[5281, 5282]	5771	[4617, 533]
726	[1368, 1369]	2408	[3822, 3823]	4090	[5283, 5284]	5772	[867, 41]
727	[1370, 1371]	2409	[3030, 3824]	4091	[5285, 4966]	5773	[6398, 2026]
728	[1372, 1373]	2410	[3781, 3825]	4092	[685, 2503]	5774	[2654, 2054]
729	[1374, 1375]	2411	[3826, 3827]	4093	[4929, 2346]	5775	[5036, 4843]
730	[1376, 1377]	2412	[3828, 3829]	4094	[1894, 34]	5776	[2225, 2784]
731	[1378, 1379]	2413	[3830, 3831]	4095	[2318, 5286]	5777	[4990, 2275]
732	[1380, 1381]	2414	[1253, 3832]	4096	[4464, 5287]	5778	[6457, 5039]
733	[1382, 1383]	2415	[3833, 3834]	4097	[4735, 5288]	5779	[2836, 4613]
734	[1384, 1385]	2416	[3835, 3836]	4098	[1953, 1894]	5780	[5073, 2444]
735	[1386, 1387]	2417	[3837, 3838]	4099	[5289, 2072]	5781	[669, 2325]
736	[1388, 1389]	2418	[1696, 3839]	4100	[2359, 4770]	5782	[2263, 4605]
737	[1390, 1391]	2419	[3840, 3841]	4101	[2742, 5075]	5783	[5343, 2365]
738	[1392, 1393]	2420	[3842, 3843]	4102	[5290, 5200]	5784	[6458, 5315]
739	[1394, 1395]	2421	[3844, 3845]	4103	[5146, 4487]	5785	[2698, 1947]
740	[1396, 1397]	2422	[3846, 3847]	4104	[5277, 871]	5786	[1861, 4994]
741	[1398, 1399]	2423	[3848, 3849]	4105	[5291, 5292]	5787	[5344, 748]
742	[1400, 1401]	2424	[3850, 3851]	4106	[2214, 2210]	5788	[227, 2808]
743	[1402, 1403]	2425	[3121, 3852]	4107	[2094, 5293]	5789	[182, 2647]
744	[1404, 1405]	2426	[3853, 3854]	4108	[699, 5280]	5790	[6459, 2171]

745	[1151, 1406]	2427	[3855, 1675]	4109	[5294, 145]	5791	[888, 4828]
746	[1407, 1408]	2428	[3856, 3857]	4110	[758, 4877]	5792	[5019, 1795]
747	[1409, 1410]	2429	[3858, 3859]	4111	[5018, 2208]	5793	[6405, 2019]
748	[1411, 1412]	2430	[3860, 3464]	4112	[1939, 5295]	5794	[6460, 2405]
749	[1413, 493]	2431	[3861, 1553]	4113	[5108, 5296]	5795	[6461, 4742]
750	[1414, 1239]	2432	[2927, 3862]	4114	[772, 11]	5796	[5178, 60]
751	[1415, 1416]	2433	[3863, 3864]	4115	[5297, 2068]	5797	[6462, 2624]
752	[1417, 1418]	2434	[3564, 3865]	4116	[5298, 5166]	5798	[5291, 6463]
753	[1419, 417]	2435	[3866, 3867]	4117	[2557, 2257]	5799	[5148, 2564]
754	[1420, 1220]	2436	[3868, 3869]	4118	[2195, 2194]	5800	[6464, 4564]
755	[1421, 391]	2437	[3870, 3871]	4119	[653, 2711]	5801	[4928, 718]
756	[1422, 1423]	2438	[3872, 3873]	4120	[2468, 2804]	5802	[917, 2243]
757	[1424, 1425]	2439	[1534, 3874]	4121	[633, 2618]	5803	[6414, 6465]
758	[1426, 1427]	2440	[2964, 3875]	4122	[1910, 2402]	5804	[6360, 4440]
759	[1428, 1429]	2441	[3876, 3877]	4123	[1912, 5113]	5805	[5340, 5323]
760	[1430, 1431]	2442	[1636, 3878]	4124	[1777, 2463]	5806	[6416, 2390]
761	[1432, 1433]	2443	[3879, 3880]	4125	[5031, 1982]	5807	[2455, 5192]
762	[1434, 1435]	2444	[3881, 3882]	4126	[4507, 5299]	5808	[5237, 932]
763	[1436, 1437]	2445	[3883, 3884]	4127	[1773, 5300]	5809	[2488, 2574]
764	[1285, 1438]	2446	[3885, 3886]	4128	[918, 5117]	5810	[5165, 2368]
765	[459, 1439]	2447	[3887, 3888]	4129	[5229, 2139]	5811	[2407, 4868]
766	[1092, 1440]	2448	[3889, 3730]	4130	[5301, 4934]	5812	[4548, 6355]
767	[1441, 1442]	2449	[3890, 1505]	4131	[2668, 4554]	5813	[5353, 5004]
768	[1443, 1444]	2450	[3891, 1362]	4132	[2650, 5255]	5814	[2292, 5309]
769	[1445, 1195]	2451	[3892, 3893]	4133	[2395, 2062]	5815	[4652, 2206]
770	[1446, 1447]	2452	[382, 3894]	4134	[5302, 5303]	5816	[4902, 2162]
771	[1448, 1449]	2453	[1591, 3895]	4135	[1782, 5048]	5817	[6466, 4971]
772	[1165, 1450]	2454	[3896, 3897]	4136	[1886, 5231]	5818	[791, 814]
773	[948, 1451]	2455	[3898, 3899]	4137	[4751, 5242]	5819	[2012, 2552]
774	[1016, 1452]	2456	[1410, 1543]	4138	[4772, 1831]	5820	[6458, 2756]
775	[1453, 1454]	2457	[1067, 3900]	4139	[760, 5304]	5821	[692, 2533]
776	[1455, 1456]	2458	[3901, 1570]	4140	[5070, 5305]	5822	[5097, 6467]
777	[1457, 1458]	2459	[3902, 75]	4141	[2203, 4851]	5823	[6460, 2683]
778	[1294, 1459]	2460	[3903, 1644]	4142	[4570, 148]	5824	[6468, 6468]
779	[1460, 1461]	2461	[3904, 3905]	4143	[5306, 2271]	5825	[5066, 6469]
780	[1462, 1463]	2462	[3906, 3907]	4144	[5307, 4521]	5826	[4883, 2215]
781	[1464, 1465]	2463	[3107, 3908]	4145	[4884, 5308]	5827	[2324, 909]
782	[1466, 1467]	2464	[3269, 3909]	4146	[4569, 600]	5828	[2206, 4716]
783	[1468, 1469]	2465	[3738, 3910]	4147	[4956, 5250]	5829	[6454, 6330]
784	[1470, 1471]	2466	[3911, 3912]	4148	[156, 5309]	5830	[2467, 6470]
785	[274, 1472]	2467	[3913, 3914]	4149	[5310, 4736]	5831	[4458, 6471]
786	[1473, 1474]	2468	[1536, 3842]	4150	[4763, 4566]	5832	[4895, 764]
787	[1475, 1476]	2469	[3915, 3916]	4151	[5311, 2202]	5833	[2215, 5225]
788	[1477, 1478]	2470	[3917, 1634]	4152	[4407, 550]	5834	[6373, 4672]

789	[1479, 1480]	2471	[3918, 3919]	4153	[5099, 2508]	5835	[4967, 2565]
790	[1481, 1482]	2472	[3920, 3921]	4154	[4891, 5312]	5836	[2765, 1857]
791	[1483, 1484]	2473	[3922, 972]	4155	[5313, 5211]	5837	[2787, 5337]
792	[1485, 1486]	2474	[1217, 3923]	4156	[2048, 5314]	5838	[921, 4547]
793	[1487, 1488]	2475	[3499, 3924]	4157	[5315, 2366]	5839	[724, 1800]
794	[1322, 1489]	2476	[3925, 3926]	4158	[920, 4546]	5840	[4833, 1964]
795	[1490, 1491]	2477	[1167, 3927]	4159	[5316, 779]	5841	[5394, 4393]
796	[1492, 1493]	2478	[3928, 3929]	4160	[5149, 4824]	5842	[4980, 2487]
797	[1494, 1495]	2479	[3930, 3720]	4161	[1946, 5252]	5843	[6472, 2373]
798	[262, 1496]	2480	[3931, 3932]	4162	[2692, 2460]	5844	[880, 2382]
799	[266, 1497]	2481	[3677, 3925]	4163	[602, 2690]	5845	[4597, 5290]
800	[1099, 1498]	2482	[3933, 2895]	4164	[189, 2457]	5846	[5266, 6473]
801	[1499, 1500]	2483	[3934, 3935]	4165	[4902, 638]	5847	[6474, 918]
802	[1501, 1502]	2484	[1009, 3936]	4166	[5317, 5318]	5848	[873, 4523]
803	[1503, 1504]	2485	[3937, 3938]	4167	[4768, 5319]	5849	[2687, 620]
804	[1505, 1506]	2486	[3939, 3940]	4168	[2699, 803]	5850	[6475, 5322]
805	[1507, 1508]	2487	[3941, 3942]	4169	[4615, 1867]	5851	[6476, 2550]
806	[1509, 1510]	2488	[3943, 3944]	4170	[5320, 4804]	5852	[5081, 4415]
807	[1511, 1512]	2489	[1301, 3945]	4171	[620, 2509]	5853	[6363, 1824]
808	[1513, 1514]	2490	[2850, 3946]	4172	[5321, 5322]	5854	[1944, 5192]
809	[1515, 1516]	2491	[3785, 1680]	4173	[4998, 4600]	5855	[4927, 717]
810	[1517, 1518]	2492	[1572, 3947]	4174	[5064, 2755]	5856	[5043, 5176]
811	[1519, 1520]	2493	[3948, 3757]	4175	[614, 5323]	5857	[5078, 4442]
812	[1495, 1521]	2494	[3949, 3950]	4176	[5199, 4778]	5858	[810, 6477]
813	[1522, 1523]	2495	[3951, 3952]	4177	[4426, 2254]	5859	[6478, 6409]
814	[1296, 1524]	2496	[3953, 3954]	4178	[4797, 194]	5860	[612, 4435]
815	[1525, 1526]	2497	[3955, 3956]	4179	[2710, 1941]	5861	[4429, 4977]
816	[1527, 1528]	2498	[3957, 3958]	4180	[2577, 5324]	5862	[2053, 2655]
817	[1529, 1530]	2499	[3959, 3960]	4181	[1865, 2197]	5863	[680, 933]
818	[1026, 1531]	2500	[16, 3961]	4182	[2635, 5024]	5864	[6479, 6453]
819	[422, 1532]	2501	[3962, 3678]	4183	[5325, 2797]	5865	[6480, 5108]
820	[1533, 1534]	2502	[3963, 948]	4184	[5326, 2578]	5866	[6481, 2666]
821	[1535, 1536]	2503	[1735, 3250]	4185	[145, 543]	5867	[4576, 6482]
822	[1537, 1538]	2504	[3964, 365]	4186	[5327, 2271]	5868	[2538, 2320]
823	[1539, 1540]	2505	[3965, 3966]	4187	[5141, 2370]	5869	[4910, 2323]
824	[1541, 1542]	2506	[3570, 3967]	4188	[5328, 4997]	5870	[2180, 2123]
825	[1543, 1544]	2507	[3968, 3186]	4189	[5329, 4422]	5871	[6483, 4995]
826	[1545, 1546]	2508	[3969, 3970]	4190	[2447, 1998]	5872	[2480, 4553]
827	[1547, 1548]	2509	[3971, 3972]	4191	[2704, 5330]	5873	[6329, 1906]
828	[1549, 1550]	2510	[3973, 3974]	4192	[1924, 4551]	5874	[2332, 4838]
829	[1551, 1552]	2511	[3975, 2916]	4193	[2512, 4870]	5875	[2510, 6484]
830	[1553, 1554]	2512	[3976, 3977]	4194	[1871, 1832]	5876	[2153, 2297]
831	[1555, 1556]	2513	[3978, 2892]	4195	[150, 2474]	5877	[2301, 5318]
832	[1557, 1558]	2514	[3979, 3980]	4196	[4430, 4978]	5878	[6485, 6372]

833	[1559, 1560]	2515	[3195, 3981]	4197	[5130, 2520]	5879	[4470, 2139]
834	[1561, 1562]	2516	[334, 3982]	4198	[4603, 2146]	5880	[6486, 1901]
835	[1563, 1564]	2517	[3983, 3984]	4199	[642, 4903]	5881	[2766, 2433]
836	[1565, 1566]	2518	[3985, 3986]	4200	[5331, 5332]	5882	[1831, 4632]
837	[1567, 1568]	2519	[3987, 3988]	4201	[5333, 2053]	5883	[6487, 5390]
838	[288, 1569]	2520	[3989, 1703]	4202	[775, 2632]	5884	[4591, 6442]
839	[1570, 371]	2521	[432, 2861]	4203	[5334, 4996]	5885	[550, 6488]
840	[1571, 1572]	2522	[3990, 3991]	4204	[684, 2253]	5886	[5003, 5354]
841	[1550, 1573]	2523	[3818, 3992]	4205	[2443, 2753]	5887	[5249, 5160]
842	[1574, 1575]	2524	[3993, 3994]	4206	[4779, 4542]	5888	[4984, 5303]
843	[1576, 1577]	2525	[3995, 3996]	4207	[5216, 2323]	5889	[1885, 1890]
844	[1578, 1579]	2526	[3997, 73]	4208	[4585, 2180]	5890	[2099, 2765]
845	[1580, 1581]	2527	[1365, 3998]	4209	[5335, 5336]	5891	[6489, 5315]
846	[1582, 1583]	2528	[1488, 3999]	4210	[5337, 4576]	5892	[6476, 6420]
847	[1584, 1585]	2529	[4000, 1455]	4211	[2689, 5046]	5893	[2026, 6490]
848	[1586, 1587]	2530	[4001, 4002]	4212	[4764, 2656]	5894	[4499, 2135]
849	[1588, 1589]	2531	[4003, 4004]	4213	[522, 735]	5895	[2474, 210]
850	[1590, 1591]	2532	[4005, 4006]	4214	[5338, 4812]	5896	[6491, 5071]
851	[1592, 1593]	2533	[3075, 1479]	4215	[594, 629]	5897	[5282, 2231]
852	[1594, 1595]	2534	[1303, 4007]	4216	[202, 4560]	5898	[6481, 4961]
853	[1596, 1582]	2535	[4008, 4009]	4217	[5334, 5339]	5899	[6404, 783]
854	[1597, 295]	2536	[4010, 4011]	4218	[4653, 4866]	5900	[179, 736]
855	[1598, 1599]	2537	[3767, 4012]	4219	[2433, 2042]	5901	[6492, 5068]
856	[1600, 1601]	2538	[3751, 4013]	4220	[5340, 615]	5902	[4647, 6493]
857	[1153, 1602]	2539	[4014, 4015]	4221	[5341, 1797]	5903	[1976, 4919]
858	[1603, 1604]	2540	[4016, 4017]	4222	[4859, 5342]	5904	[4963, 5330]
859	[1605, 1606]	2541	[64, 4018]	4223	[1775, 802]	5905	[2816, 6494]
860	[1607, 1608]	2542	[3432, 1481]	4224	[4918, 1977]	5906	[2479, 4552]
861	[1609, 1610]	2543	[4019, 1666]	4225	[5343, 5076]	5907	[2606, 5392]
862	[1611, 1612]	2544	[4020, 4021]	4226	[5279, 4834]	5908	[4944, 800]
863	[1613, 1614]	2545	[987, 1380]	4227	[5344, 2038]	5909	[6495, 6456]
864	[1484, 1615]	2546	[3233, 4022]	4228	[4610, 5345]	5910	[4998, 617]
865	[1616, 1617]	2547	[4023, 3363]	4229	[524, 5164]	5911	[183, 605]
866	[1140, 1618]	2548	[4024, 4025]	4230	[2658, 580]	5912	[6369, 5204]
867	[1619, 1620]	2549	[4026, 4027]	4231	[5080, 2706]	5913	[2723, 5279]
868	[1621, 1622]	2550	[4028, 4029]	4232	[1835, 5346]	5914	[6355, 4885]
869	[1623, 1624]	2551	[4030, 2967]	4233	[5347, 5348]	5915	[6390, 4742]
870	[1032, 1625]	2552	[3809, 4031]	4234	[4904, 5349]	5916	[6375, 5221]
871	[1626, 1627]	2553	[4032, 4033]	4235	[5055, 5350]	5917	[6496, 6473]
872	[1628, 1629]	2554	[4034, 4035]	4236	[531, 5243]	5918	[4815, 519]
873	[1630, 1631]	2555	[1677, 4036]	4237	[1834, 2582]	5919	[2726, 6384]
874	[1632, 1633]	2556	[3731, 3622]	4238	[5351, 5026]	5920	[6497, 5391]
875	[1634, 1635]	2557	[4037, 4038]	4239	[4869, 2513]	5921	[4784, 4680]
876	[411, 1636]	2558	[4039, 4040]	4240	[5177, 2187]	5922	[6406, 2377]

877	[1637, 1464]	2559	[4041, 4042]	4241	[4505, 2779]	5923	[2492, 5319]
878	[1638, 1639]	2560	[4043, 3551]	4242	[5245, 5239]	5924	[647, 1912]
879	[1640, 1525]	2561	[4044, 3830]	4243	[932, 681]	5925	[6496, 5267]
880	[1641, 1345]	2562	[3340, 4045]	4244	[1883, 4917]	5926	[4824, 1859]
881	[1642, 1643]	2563	[4046, 2841]	4245	[1995, 2265]	5927	[2784, 5152]
882	[1581, 1637]	2564	[4047, 4048]	4246	[5196, 4646]	5928	[2439, 1921]
883	[1644, 1645]	2565	[4029, 4049]	4247	[2077, 238]	5929	[5026, 6498]
884	[1646, 1647]	2566	[3210, 3165]	4248	[2624, 2235]	5930	[5190, 4638]
885	[1648, 1649]	2567	[4050, 4051]	4249	[228, 4801]	5931	[4849, 2229]
886	[1650, 1651]	2568	[4052, 4053]	4250	[2177, 5352]	5932	[748, 4940]
887	[1652, 1653]	2569	[4054, 4055]	4251	[161, 5184]	5933	[2162, 640]
888	[1654, 1655]	2570	[3841, 4056]	4252	[928, 5012]	5934	[5317, 2302]
889	[1656, 1657]	2571	[4057, 4058]	4253	[4842, 5037]	5935	[6499, 6500]
890	[1658, 1659]	2572	[4059, 4060]	4254	[2827, 632]	5936	[2117, 6501]
891	[1660, 1661]	2573	[4061, 4062]	4255	[4487, 510]	5937	[4775, 2823]
892	[1662, 1663]	2574	[4063, 3835]	4256	[5147, 510]	5938	[4807, 2533]
893	[1664, 1665]	2575	[1077, 283]	4257	[5353, 5354]	5939	[5315, 2757]
894	[1666, 1667]	2576	[4064, 4065]	4258	[2040, 744]	5940	[4403, 6444]
895	[1668, 373]	2577	[4036, 3031]	4259	[4717, 1924]	5941	[5370, 4611]
896	[1669, 1670]	2578	[4066, 3451]	4260	[5355, 251]	5942	[6502, 6495]
897	[1671, 1672]	2579	[4067, 3987]	4261	[4997, 616]	5943	[775, 577]
898	[1673, 1674]	2580	[4068, 4069]	4262	[4740, 5356]	5944	[2625, 4695]
899	[1675, 1676]	2581	[4070, 4071]	4263	[557, 524]	5945	[4959, 4638]
900	[983, 1677]	2582	[4072, 4073]	4264	[1805, 5175]	5946	[828, 4570]
901	[1678, 1679]	2583	[467, 1390]	4265	[1814, 176]	5947	[6344, 6383]
902	[1680, 1681]	2584	[4074, 4075]	4266	[4886, 4811]	5948	[4626, 4815]
903	[1682, 1683]	2585	[4076, 3517]	4267	[5357, 4703]	5949	[2834, 205]
904	[454, 1684]	2586	[3600, 1043]	4268	[2016, 4483]	5950	[2682, 6368]
905	[1685, 1686]	2587	[4077, 3353]	4269	[5358, 2658]	5951	[4413, 5247]
906	[1450, 1687]	2588	[4078, 1337]	4270	[5359, 5050]	5952	[4888, 1828]
907	[1688, 1124]	2589	[3996, 4079]	4271	[945, 897]	5953	[2773, 6470]
908	[1689, 1656]	2590	[4080, 4081]	4272	[4630, 680]	5954	[6365, 6503]
909	[1690, 1688]	2591	[3160, 3624]	4273	[5094, 2071]	5955	[661, 6395]
910	[1691, 1692]	2592	[4082, 375]	4274	[2676, 2476]	5956	[229, 4802]
911	[1693, 1694]	2593	[3897, 4083]	4275	[4795, 2430]	5957	[6457, 2269]
912	[1695, 1696]	2594	[3347, 4084]	4276	[5278, 2435]	5958	[5367, 4977]
913	[1697, 1698]	2595	[3982, 3350]	4277	[5338, 4650]	5959	[4657, 6504]
914	[368, 1699]	2596	[4085, 4086]	4278	[856, 5360]	5960	[601, 6505]
915	[1700, 1701]	2597	[3775, 4087]	4279	[5335, 5361]	5961	[603, 2691]
916	[324, 1702]	2598	[4088, 4089]	4280	[1757, 5035]	5962	[5253, 2203]
917	[1703, 1704]	2599	[4090, 273]	4281	[5362, 5363]	5963	[2268, 6463]
918	[1034, 1705]	2600	[3126, 4091]	4282	[4858, 5295]	5964	[4434, 5364]
919	[1706, 1707]	2601	[1451, 4092]	4283	[2261, 5364]	5965	[6506, 61]
920	[1708, 1682]	2602	[3273, 3670]	4284	[2656, 2484]	5966	[5227, 5290]

921	[284, 1709]	2603	[2931, 4093]	4285	[2809, 4788]	5967	[2663, 6507]
922	[1710, 1711]	2604	[4094, 4095]	4286	[4702, 2380]	5968	[5049, 6508]
923	[1712, 1713]	2605	[4096, 2977]	4287	[4609, 2372]	5969	[749, 6509]
924	[1714, 1132]	2606	[3991, 4097]	4288	[2067, 2733]	5970	[5139, 6433]
925	[1715, 1716]	2607	[4098, 4099]	4289	[5186, 2491]	5971	[6510, 1982]
926	[1717, 1718]	2608	[4100, 4101]	4290	[2043, 5365]	5972	[689, 5352]
927	[1719, 109]	2609	[1452, 4102]	4291	[2823, 1821]	5973	[6511, 2405]
928	[1720, 1721]	2610	[4103, 1382]	4292	[5366, 2652]	5974	[5099, 620]
929	[1722, 1723]	2611	[4104, 3028]	4293	[2499, 731]	5975	[6512, 2511]
930	[1724, 1725]	2612	[4105, 3036]	4294	[5367, 4430]	5976	[6513, 162]
931	[1726, 1727]	2613	[4106, 4107]	4295	[5149, 1858]	5977	[6396, 2332]
932	[1728, 1729]	2614	[4108, 4109]	4296	[698, 5279]	5978	[6514, 4787]
933	[1730, 1731]	2615	[3201, 4110]	4297	[4523, 5293]	5979	[896, 946]
934	[1732, 1733]	2616	[4111, 4112]	4298	[4602, 2066]	5980	[2772, 2467]
935	[1734, 1360]	2617	[4113, 3003]	4299	[732, 5256]	5981	[4675, 156]
936	[1277, 1735]	2618	[3097, 3071]	4300	[4799, 46]	5982	[6515, 2322]
937	[1736, 1737]	2619	[4114, 4115]	4301	[5368, 5369]	5983	[2126, 611]
938	[1738, 1739]	2620	[4116, 4117]	4302	[2083, 837]	5984	[5018, 2805]
939	[1740, 1741]	2621	[1015, 4016]	4303	[5370, 2741]	5985	[6516, 232]
940	[1456, 21]	2622	[3377, 4118]	4304	[5371, 2268]	5986	[5360, 163]
941	[1742, 1743]	2623	[3043, 1130]	4305	[1949, 9]	5987	[6475, 6517]
942	[1744, 1745]	2624	[4119, 4120]	4306	[5372, 2129]	5988	[2596, 2069]
943	[1746, 1747]	2625	[1040, 4121]	4307	[2035, 2794]	5989	[5058, 2749]
944	[1748, 1749]	2626	[1042, 4122]	4308	[5264, 5282]	5990	[5273, 4997]
945	[1750, 1751]	2627	[1044, 4123]	4309	[5075, 5373]	5991	[4759, 4769]
946	[1752, 1753]	2628	[1046, 4124]	4310	[2463, 5374]	5992	[4645, 5197]
947	[1754, 1755]	2629	[1134, 3305]	4311	[4491, 790]	5993	[4861, 248]
948	[1756, 1757]	2630	[1324, 3130]	4312	[1971, 2514]	5994	[4827, 182]
949	[927, 53]	2631	[4125, 1088]	4313	[137, 646]	5995	[2028, 6339]
950	[1758, 1759]	2632	[4126, 4127]	4314	[2299, 4667]	5996	[2332, 855]
951	[1760, 1761]	2633	[4128, 2876]	4315	[4532, 945]	5997	[6518, 4892]
952	[1762, 1763]	2634	[4129, 381]	4316	[649, 5375]	5998	[6459, 1873]
953	[1764, 1765]	2635	[3166, 3029]	4317	[908, 2557]	5999	[6452, 1914]
954	[840, 1766]	2636	[4130, 992]	4318	[5376, 1836]	6000	[4637, 5122]
955	[1767, 816]	2637	[4131, 4113]	4319	[2073, 2770]	6001	[6519, 5391]
956	[559, 1768]	2638	[4132, 4133]	4320	[2142, 1888]	6002	[2331, 5134]
957	[1769, 1770]	2639	[4134, 4135]	4321	[683, 2206]	6003	[6389, 6469]
958	[1771, 1772]	2640	[4136, 3872]	4322	[5167, 4900]	6004	[191, 2451]
959	[1773, 1774]	2641	[3117, 4137]	4323	[4513, 4798]	6005	[2565, 4525]
960	[1775, 1776]	2642	[4138, 4139]	4324	[4930, 2483]	6006	[5133, 1825]
961	[1777, 1778]	2643	[4140, 4141]	4325	[5377, 5251]	6007	[1947, 6426]
962	[233, 1779]	2644	[4142, 4143]	4326	[2695, 5378]	6008	[41, 5084]
963	[1780, 1781]	2645	[4144, 4145]	4327	[4474, 2613]	6009	[6520, 6465]
964	[1782, 1783]	2646	[4087, 4146]	4328	[5379, 5349]	6010	[4955, 203]

965	[1784, 1785]	2647	[4147, 4148]	4329	[2586, 4685]	6011	[2730, 2073]
966	[1786, 1787]	2648	[2984, 4149]	4330	[2486, 4981]	6012	[1877, 4479]
967	[1788, 1789]	2649	[4150, 3015]	4331	[5357, 2284]	6013	[5181, 5276]
968	[1790, 1791]	2650	[4151, 4152]	4332	[1931, 4548]	6014	[4646, 2045]
969	[1792, 1793]	2651	[4153, 4154]	4333	[2058, 2185]	6015	[4414, 5082]
970	[1794, 1795]	2652	[2885, 4155]	4334	[5129, 2077]	6016	[4465, 5168]
971	[1796, 181]	2653	[4156, 4157]	4335	[4425, 4829]	6017	[1755, 2764]
972	[1797, 1798]	2654	[4158, 4034]	4336	[5380, 4580]	6018	[6474, 2243]
973	[1799, 1800]	2655	[4159, 4160]	4337	[898, 4771]	6019	[4543, 555]
974	[1801, 51]	2656	[4161, 4162]	4338	[2525, 1822]	6020	[2208, 4726]
975	[1802, 49]	2657	[4163, 4164]	4339	[33, 5150]	6021	[2182, 32]
976	[527, 1803]	2658	[3961, 4136]	4340	[2060, 2096]	6022	[1797, 4558]
977	[1804, 198]	2659	[4165, 3513]	4341	[825, 2750]	6023	[4945, 6521]
978	[1805, 658]	2660	[3483, 1170]	4342	[1767, 745]	6024	[2411, 154]
979	[1806, 1807]	2661	[4166, 4167]	4343	[4899, 4679]	6025	[223, 2727]
980	[1808, 1809]	2662	[4168, 2888]	4344	[2706, 5079]	6026	[4560, 189]
981	[186, 1810]	2663	[4169, 4170]	4345	[4460, 5381]	6027	[5054, 5161]
982	[1811, 712]	2664	[4171, 4172]	4346	[4864, 2255]	6028	[703, 771]
983	[1812, 1813]	2665	[4173, 4174]	4347	[1861, 5382]	6029	[4969, 6522]
984	[1814, 1815]	2666	[3366, 4175]	4348	[5281, 2230]	6030	[6479, 6418]
985	[706, 1816]	2667	[4176, 3584]	4349	[860, 5383]	6031	[936, 4819]
986	[1817, 1818]	2668	[4177, 3799]	4350	[181, 2646]	6032	[2143, 4991]
987	[1819, 1820]	2669	[4178, 4179]	4351	[5310, 5288]	6033	[6523, 4686]
988	[1821, 1822]	2670	[4180, 4181]	4352	[2007, 4497]	6034	[5157, 5284]
989	[1823, 1824]	2671	[4182, 4183]	4353	[1904, 2542]	6035	[2231, 6524]
990	[1825, 1826]	2672	[3371, 3641]	4354	[2393, 2314]	6036	[5297, 2596]
991	[1827, 1828]	2673	[4184, 4185]	4355	[1986, 5384]	6037	[4934, 6449]
992	[1829, 1830]	2674	[3099, 4186]	4356	[5385, 4952]	6038	[659, 6401]
993	[1831, 1832]	2675	[1318, 1246]	4357	[5386, 4566]	6039	[6336, 4836]
994	[1833, 1834]	2676	[4187, 107]	4358	[894, 5387]	6040	[4790, 6387]
995	[1835, 1836]	2677	[4188, 4189]	4359	[5290, 4863]	6041	[4562, 6355]
996	[1837, 1838]	2678	[4190, 4191]	4360	[2748, 5059]	6042	[4740, 6525]
997	[1839, 1840]	2679	[2882, 4192]	4361	[2062, 2017]	6043	[4658, 6526]
998	[1841, 1842]	2680	[4193, 4194]	4362	[2052, 5388]	6044	[2237, 6394]
999	[1843, 1844]	2681	[4110, 3789]	4363	[561, 4655]	6045	[5017, 2207]
1000	[1845, 1846]	2682	[4195, 1448]	4364	[768, 1957]	6046	[2105, 48]
1001	[1847, 1848]	2683	[1437, 259]	4365	[4895, 5055]	6047	[746, 548]
1002	[816, 1849]	2684	[4196, 1689]	4366	[5389, 2394]	6048	[2213, 2204]
1003	[1850, 533]	2685	[4197, 4198]	4367	[4455, 5390]	6049	[6408, 6527]
1004	[1851, 1852]	2686	[4199, 3969]	4368	[2826, 231]	6050	[5275, 1845]
1005	[1853, 1854]	2687	[3514, 4165]	4369	[5391, 670]	6051	[4440, 5202]
1006	[1855, 1856]	2688	[4200, 3431]	4370	[853, 845]	6052	[4681, 4936]
1007	[664, 1857]	2689	[1030, 4094]	4371	[753, 209]	6053	[863, 1942]
1008	[1858, 1859]	2690	[340, 4201]	4372	[2017, 2562]	6054	[4402, 703]

1009	[1860, 1861]	2691	[3053, 3397]	4373	[4423, 5392]	6055	[6491, 5305]
1010	[1862, 1863]	2692	[4202, 3820]	4374	[4635, 2839]	6056	[4407, 4907]
1011	[1864, 1865]	2693	[4203, 4204]	4375	[590, 2176]	6057	[5276, 1846]
1012	[248, 903]	2694	[4205, 4206]	4376	[4739, 1847]	6058	[910, 2355]
1013	[1866, 1867]	2695	[475, 4207]	4377	[4610, 5393]	6059	[6464, 597]
1014	[1868, 1869]	2696	[4208, 4209]	4378	[4637, 4512]	6060	[4810, 2218]
1015	[1870, 1871]	2697	[4210, 4211]	4379	[5014, 4877]	6061	[6480, 5052]
1016	[1872, 1873]	2698	[4212, 4213]	4380	[5394, 1991]	6062	[1962, 1885]
1017	[1874, 1875]	2699	[4214, 1607]	4381	[5339, 218]	6063	[2369, 4514]
1018	[1876, 1877]	2700	[4215, 4216]	4382	[2547, 2260]	6064	[5366, 4854]
1019	[1878, 1879]	2701	[4217, 4218]	4383	[175, 1815]	6065	[4893, 2348]
1020	[1880, 1773]	2702	[4219, 4220]	4384	[843, 5086]	6066	[43, 1949]
1021	[1881, 650]	2703	[4221, 3922]	4385	[171, 579]	6067	[6351, 5363]
1022	[1882, 1883]	2704	[4222, 4223]	4386	[4761, 1952]	6068	[2767, 5128]
1023	[1884, 1781]	2705	[4224, 4225]	4387	[5395, 4860]	6069	[4672, 6332]
1024	[1885, 508]	2706	[4226, 4227]	4388	[4633, 4871]	6070	[5155, 4443]
1025	[1886, 1887]	2707	[4228, 3688]	4389	[2446, 62]	6071	[861, 863]
1026	[1888, 1889]	2708	[4229, 3466]	4390	[5396, 3319]	6072	[566, 190]
1027	[507, 1890]	2709	[4230, 4063]	4391	[5397, 5398]	6073	[2345, 228]
1028	[1891, 1892]	2710	[4018, 2944]	4392	[5399, 5400]	6074	[56, 4511]
1029	[1893, 1894]	2711	[4231, 4232]	4393	[5401, 5402]	6075	[2702, 6494]
1030	[1895, 1896]	2712	[4233, 4234]	4394	[5403, 5404]	6076	[2374, 4530]
1031	[1897, 1898]	2713	[4235, 1158]	4395	[5405, 5406]	6077	[6400, 1789]
1032	[628, 1899]	2714	[4236, 4237]	4396	[5407, 3415]	6078	[4394, 2621]
1033	[1900, 1901]	2715	[4238, 4239]	4397	[5408, 5409]	6079	[4677, 2421]
1034	[1902, 1903]	2716	[1474, 4240]	4398	[4218, 4381]	6080	[844, 2085]
1035	[32, 1904]	2717	[1526, 4241]	4399	[3505, 3279]	6081	[4948, 4534]
1036	[1905, 1785]	2718	[4242, 4243]	4400	[5410, 5411]	6082	[6528, 2590]
1037	[207, 720]	2719	[3168, 4244]	4401	[5412, 5413]	6083	[1888, 6437]
1038	[1906, 1907]	2720	[4245, 3445]	4402	[6, 5414]	6084	[609, 555]
1039	[1908, 633]	2721	[4246, 3447]	4403	[5415, 5416]	6085	[6529, 4946]
1040	[128, 1909]	2722	[1146, 4247]	4404	[5417, 5418]	6086	[5116, 5234]
1041	[1817, 1910]	2723	[3501, 4248]	4405	[3758, 5419]	6087	[2338, 4856]
1042	[814, 741]	2724	[4249, 1588]	4406	[5420, 255]	6088	[2455, 2593]
1043	[1911, 1912]	2725	[4250, 4251]	4407	[5421, 3618]	6089	[2397, 6340]
1044	[1913, 1914]	2726	[4252, 4253]	4408	[1123, 5422]	6090	[6432, 5140]
1045	[1915, 1777]	2727	[4254, 4255]	4409	[304, 5423]	6091	[870, 5278]
1046	[1916, 1917]	2728	[1651, 3136]	4410	[488, 5424]	6092	[38, 628]
1047	[12, 1918]	2729	[4256, 1090]	4411	[3992, 5425]	6093	[2023, 4806]
1048	[831, 1919]	2730	[3322, 3737]	4412	[3369, 5426]	6094	[4963, 2705]
1049	[1920, 1921]	2731	[3724, 357]	4413	[3590, 988]	6095	[4771, 6530]
1050	[551, 1922]	2732	[4257, 3370]	4414	[5427, 5428]	6096	[1945, 5046]
1051	[1923, 1924]	2733	[4258, 1494]	4415	[4312, 1470]	6097	[4979, 6531]
1052	[652, 1925]	2734	[4259, 4128]	4416	[5429, 5430]	6098	[4751, 6498]

1053	[631, 1926]	2735	[4260, 2872]	4417	[3854, 2844]	6099	[6532, 826]
1054	[130, 1927]	2736	[4189, 4261]	4418	[424, 1327]	6100	[231, 51]
1055	[1928, 1929]	2737	[4262, 1329]	4419	[979, 3860]	6101	[4523, 4522]
1056	[1930, 1931]	2738	[4025, 3840]	4420	[3999, 3520]	6102	[901, 4528]
1057	[1932, 1933]	2739	[4263, 4264]	4421	[5431, 4254]	6103	[6513, 5184]
1058	[1934, 1935]	2740	[4265, 4266]	4422	[4122, 5432]	6104	[4839, 5360]
1059	[1936, 136]	2741	[4267, 4268]	4423	[1265, 5433]	6105	[2181, 4490]
1060	[1937, 1938]	2742	[4269, 85]	4424	[5434, 5435]	6106	[2101, 840]
1061	[1939, 1940]	2743	[1048, 4270]	4425	[5436, 3616]	6107	[6533, 2738]
1062	[54, 1941]	2744	[3739, 4271]	4426	[3602, 5437]	6108	[4401, 6477]
1063	[862, 1942]	2745	[4272, 4273]	4427	[5438, 5410]	6109	[4473, 536]
1064	[1943, 1944]	2746	[4274, 4275]	4428	[5439, 3299]	6110	[6534, 6368]
1065	[1945, 1946]	2747	[3787, 3620]	4429	[1725, 5440]	6111	[2797, 1782]
1066	[1947, 1948]	2748	[4276, 3531]	4430	[5441, 5442]	6112	[5219, 945]
1067	[593, 1949]	2749	[3144, 1055]	4431	[5443, 5444]	6113	[6535, 6536]
1068	[781, 1950]	2750	[4277, 3510]	4432	[5445, 5446]	6114	[842, 2819]
1069	[1951, 1952]	2751	[4278, 4279]	4433	[1500, 4230]	6115	[4502, 574]
1070	[1953, 33]	2752	[4280, 4281]	4434	[5447, 4263]	6116	[6537, 2624]
1071	[1954, 1955]	2753	[4282, 4283]	4435	[1486, 5448]	6117	[2272, 5384]
1072	[1956, 1957]	2754	[4284, 4285]	4436	[3189, 5449]	6118	[4729, 2281]
1073	[1958, 1959]	2755	[4286, 4287]	4437	[5450, 5451]	6119	[816, 6356]
1074	[750, 1960]	2756	[4288, 3771]	4438	[5452, 5453]	6120	[4560, 566]
1075	[1961, 1962]	2757	[4289, 3236]	4439	[3149, 5454]	6121	[4462, 5182]
1076	[1963, 1964]	2758	[4192, 4290]	4440	[5455, 4249]	6122	[2662, 5300]
1077	[1965, 561]	2759	[3109, 4291]	4441	[5456, 5457]	6123	[4530, 757]
1078	[1966, 1967]	2760	[4292, 4293]	4442	[3278, 1230]	6124	[4673, 5254]
1079	[1968, 219]	2761	[4294, 4295]	4443	[5458, 5459]	6125	[809, 4401]
1080	[1969, 1970]	2762	[4296, 4297]	4444	[3815, 5460]	6126	[2746, 2407]
1081	[1971, 1969]	2763	[4287, 3444]	4445	[5461, 5462]	6127	[716, 751]
1082	[1829, 1972]	2764	[4298, 3562]	4446	[5463, 3223]	6128	[5327, 6374]
1083	[742, 1973]	2765	[4060, 4299]	4447	[1355, 5464]	6129	[4855, 2339]
1084	[882, 1868]	2766	[3364, 3310]	4448	[5465, 3194]	6130	[4519, 1810]
1085	[1974, 1975]	2767	[4300, 2935]	4449	[4320, 5466]	6131	[4504, 1922]
1086	[1976, 1977]	2768	[4301, 4047]	4450	[458, 5467]	6132	[6478, 6527]
1087	[1978, 1979]	2769	[3125, 4078]	4451	[1269, 3648]	6133	[5142, 2715]
1088	[1980, 1981]	2770	[4302, 1278]	4452	[5468, 5469]	6134	[6510, 5032]
1089	[1982, 1983]	2771	[4303, 4304]	4453	[3280, 5470]	6135	[57, 6495]
1090	[611, 744]	2772	[4305, 4306]	4454	[5471, 1081]	6136	[5170, 2832]
1091	[1984, 1985]	2773	[4307, 4308]	4455	[3719, 5472]	6137	[753, 2474]
1092	[1986, 1987]	2774	[4309, 4310]	4456	[5473, 3320]	6138	[6371, 6538]
1093	[1988, 1989]	2775	[4311, 4312]	4457	[1699, 5474]	6139	[6539, 692]
1094	[909, 221]	2776	[4313, 297]	4458	[5475, 5476]	6140	[694, 2179]
1095	[1990, 1991]	2777	[4314, 4315]	4459	[5477, 2948]	6141	[6540, 6347]
1096	[1992, 710]	2778	[4316, 484]	4460	[5414, 3664]	6142	[2132, 5226]

1097	[1993, 1994]	2779	[4317, 4318]	4461	[3944, 3855]	6143	[4538, 6493]
1098	[1995, 1996]	2780	[1718, 3148]	4462	[5478, 5479]	6144	[2739, 2784]
1099	[1997, 1998]	2781	[4241, 4319]	4463	[5480, 113]	6145	[2467, 5154]
1100	[1999, 2000]	2782	[1194, 4320]	4464	[953, 5481]	6146	[1870, 1831]
1101	[2001, 2002]	2783	[4321, 1414]	4465	[3416, 5482]	6147	[5131, 2177]
1102	[2003, 2004]	2784	[4322, 4313]	4466	[5483, 3586]	6148	[717, 5185]
1103	[2005, 2006]	2785	[4112, 4323]	4467	[5484, 5485]	6149	[2312, 1888]
1104	[2007, 2008]	2786	[1614, 4324]	4468	[106, 5486]	6150	[4640, 5023]
1105	[2009, 2010]	2787	[4325, 4326]	4469	[5487, 3508]	6151	[6541, 2752]
1106	[2011, 2012]	2788	[2921, 4327]	4470	[5488, 5489]	6152	[6472, 2082]
1107	[2013, 2014]	2789	[4328, 4329]	4471	[1084, 5490]	6153	[2348, 4561]
1108	[2015, 888]	2790	[1299, 1426]	4472	[5491, 410]	6154	[9, 5047]
1109	[2016, 2017]	2791	[4330, 17]	4473	[1157, 4106]	6155	[4521, 6448]
1110	[2018, 2019]	2792	[4331, 4332]	4474	[5492, 5493]	6156	[4518, 186]
1111	[2020, 2021]	2793	[4099, 3001]	4475	[1721, 5494]	6157	[1911, 648]
1112	[637, 2022]	2794	[4333, 1286]	4476	[3880, 5495]	6158	[6535, 5088]
1113	[2023, 170]	2795	[4334, 2950]	4477	[5496, 3963]	6159	[6542, 713]
1114	[2024, 522]	2796	[4335, 3333]	4478	[1215, 3000]	6160	[6486, 2095]
1115	[2025, 2026]	2797	[4336, 4337]	4479	[1314, 5497]	6161	[2740, 4611]
1116	[2027, 2028]	2798	[4338, 265]	4480	[5498, 5499]	6162	[6346, 5199]
1117	[2029, 2030]	2799	[1442, 4339]	4481	[5500, 5501]	6163	[1763, 6382]
1118	[2031, 2032]	2800	[4340, 4341]	4482	[5502, 5503]	6164	[5106, 6543]
1119	[2033, 2034]	2801	[4342, 4343]	4483	[3338, 5504]	6165	[4422, 6525]
1120	[2035, 2036]	2802	[4232, 4344]	4484	[3942, 4001]	6166	[6461, 2608]
1121	[2037, 2038]	2803	[3626, 3607]	4485	[4198, 1114]	6167	[5257, 5254]
1122	[925, 2039]	2804	[4345, 3816]	4486	[5505, 5506]	6168	[5153, 6471]
1123	[610, 2040]	2805	[4346, 3654]	4487	[5497, 965]	6169	[1958, 4450]
1124	[2041, 2042]	2806	[3554, 4280]	4488	[5507, 3352]	6170	[934, 6544]
1125	[2043, 2044]	2807	[4347, 4348]	4489	[3970, 3726]	6171	[5095, 4546]
1126	[2045, 2046]	2808	[450, 4349]	4490	[5508, 5509]	6172	[608, 4543]
1127	[2047, 2048]	2809	[1544, 4350]	4491	[3063, 3404]	6173	[2171, 6545]
1128	[2049, 693]	2810	[1190, 4351]	4492	[5510, 5511]	6174	[2379, 659]
1129	[2050, 2051]	2811	[4352, 4131]	4493	[4015, 5512]	6175	[2116, 6350]
1130	[778, 2052]	2812	[4353, 4354]	4494	[5513, 389]	6176	[2032, 5025]
1131	[2053, 2054]	2813	[4355, 4356]	4495	[5514, 1033]	6177	[567, 5104]
1132	[177, 2055]	2814	[4357, 3005]	4496	[5515, 5516]	6178	[4989, 4504]
1133	[2056, 2057]	2815	[4358, 4359]	4497	[5517, 5518]	6179	[139, 2619]
1134	[2058, 2059]	2816	[3910, 4360]	4498	[5490, 3164]	6180	[5114, 1918]
1135	[2060, 200]	2817	[1111, 3426]	4499	[5519, 3930]	6181	[4707, 4986]
1136	[2061, 2062]	2818	[4361, 4362]	4500	[5520, 3331]	6182	[5386, 2143]
1137	[2063, 1929]	2819	[4084, 4363]	4501	[5521, 5522]	6183	[6338, 2010]
1138	[2064, 43]	2820	[4364, 4365]	4502	[5523, 5524]	6184	[5233, 585]
1139	[2065, 2066]	2821	[2986, 4366]	4503	[434, 5525]	6185	[5261, 5251]
1140	[2067, 206]	2822	[3469, 4367]	4504	[5526, 4064]	6186	[5147, 4774]

1141	[2068, 2069]	2823	[4095, 2985]	4505	[5527, 5528]	6187	[648, 5241]
1142	[2070, 2071]	2824	[4368, 4369]	4506	[4101, 5529]	6188	[2758, 6546]
1143	[2072, 2073]	2825	[1520, 4370]	4507	[2958, 5530]	6189	[554, 875]
1144	[2074, 2075]	2826	[4371, 103]	4508	[5531, 3563]	6190	[5144, 5021]
1145	[2076, 2077]	2827	[1018, 4259]	4509	[5532, 3026]	6191	[619, 509]
1146	[2078, 2079]	2828	[4362, 4372]	4510	[5533, 3695]	6192	[4439, 6436]
1147	[2080, 551]	2829	[4373, 4374]	4511	[112, 5534]	6193	[5040, 5201]
1148	[2081, 2082]	2830	[4375, 4376]	4512	[1131, 5535]	6194	[4409, 2329]
1149	[2083, 685]	2831	[4377, 4378]	4513	[3800, 3252]	6195	[4713, 2462]
1150	[579, 2084]	2832	[3702, 4379]	4514	[3773, 3904]	6196	[5272, 5194]
1151	[2085, 1909]	2833	[1240, 4380]	4515	[1589, 5536]	6197	[2677, 2536]
1152	[2086, 2087]	2834	[4381, 4382]	4516	[5537, 5538]	6198	[4482, 6490]
1153	[2088, 2089]	2835	[4383, 1248]	4517	[3651, 5539]	6199	[180, 737]
1154	[2090, 2091]	2836	[4384, 4385]	4518	[5540, 5541]	6200	[5339, 1968]
1155	[54, 2092]	2837	[3492, 4386]	4519	[3831, 1093]	6201	[6547, 6544]
1156	[779, 2093]	2838	[4387, 3220]	4520	[1105, 5542]	6202	[4802, 6548]
1157	[873, 2094]	2839	[4388, 4389]	4521	[4240, 5543]	6203	[6549, 2838]
1158	[1900, 2095]	2840	[4390, 2142]	4522	[1504, 337]	6204	[2178, 4844]
1159	[199, 2096]	2841	[4391, 714]	4523	[1629, 5544]	6205	[4838, 856]
1160	[2097, 2098]	2842	[4392, 2309]	4524	[5545, 5546]	6206	[6392, 5336]
1161	[705, 2057]	2843	[201, 152]	4525	[5546, 1147]	6207	[1757, 1975]
1162	[1994, 2099]	2844	[2084, 2451]	4526	[5547, 963]	6208	[4890, 163]
1163	[2100, 889]	2845	[1990, 4393]	4527	[1743, 974]	6209	[6512, 6484]
1164	[2101, 794]	2846	[4394, 4395]	4528	[1247, 5548]	6210	[4401, 6438]
1165	[632, 2102]	2847	[4396, 4397]	4529	[286, 1424]	6211	[4738, 5180]
1166	[2103, 2104]	2848	[2702, 4398]	4530	[5549, 5550]	6212	[1916, 4657]
1167	[2105, 2106]	2849	[2119, 4399]	4531	[5551, 5552]	6213	[6532, 4987]
1168	[2107, 2108]	2850	[4400, 4401]	4532	[5553, 3707]	6214	[251, 1979]
1169	[2109, 642]	2851	[8, 2500]	4533	[3577, 5554]	6215	[4480, 2724]
1170	[2110, 2111]	2852	[4402, 770]	4534	[5555, 5556]	6216	[1899, 2415]
1171	[2112, 2112]	2853	[2335, 4403]	4535	[1079, 3580]	6217	[4742, 4872]
1172	[2113, 2114]	2854	[4404, 1851]	4536	[272, 5557]	6218	[6533, 4419]
1173	[2115, 2116]	2855	[2459, 4405]	4537	[1288, 3876]	6219	[2400, 2179]
1174	[2117, 1875]	2856	[4406, 4407]	4538	[5558, 5559]	6220	[2050, 6550]
1175	[2118, 1819]	2857	[58, 4408]	4539	[5560, 3750]	6221	[5362, 6352]
1176	[2119, 2120]	2858	[4409, 4410]	4540	[5561, 3611]	6222	[5162, 1885]
1177	[2121, 2020]	2859	[906, 4411]	4541	[5562, 5563]	6223	[5395, 5342]
1178	[2122, 2123]	2860	[1833, 2581]	4542	[3845, 3652]	6224	[4920, 4439]
1179	[2124, 2125]	2861	[1905, 2636]	4543	[4002, 5564]	6225	[4965, 6329]
1180	[2126, 2040]	2862	[2313, 1889]	4544	[5565, 5566]	6226	[2323, 2138]
1181	[844, 128]	2863	[2082, 4412]	4545	[5567, 5568]	6227	[6370, 2704]
1182	[2127, 223]	2864	[2233, 4413]	4546	[5569, 5570]	6228	[601, 6551]
1183	[2128, 40]	2865	[4414, 4415]	4547	[5571, 5572]	6229	[6552, 937]
1184	[152, 565]	2866	[4416, 788]	4548	[5573, 1162]	6230	[2018, 6406]

1185	[2129, 2130]	2867	[4417, 4418]	4549	[5574, 5575]	6231	[6462, 2234]
1186	[702, 770]	2868	[2737, 4419]	4550	[5576, 3272]	6232	[2480, 5236]
1187	[2131, 603]	2869	[4420, 2184]	4551	[5577, 3196]	6233	[1828, 4951]
1188	[2132, 2133]	2870	[1915, 589]	4552	[5578, 5579]	6234	[2498, 6546]
1189	[2134, 2135]	2871	[4421, 4422]	4553	[1259, 5580]	6235	[6539, 4807]
1190	[2136, 2137]	2872	[4423, 2607]	4554	[5581, 3553]	6236	[5134, 4838]
1191	[2138, 909]	2873	[2446, 4424]	4555	[3610, 5582]	6237	[5321, 6517]
1192	[2139, 2140]	2874	[4425, 4426]	4556	[5583, 3858]	6238	[6511, 2683]
1193	[2141, 2142]	2875	[854, 846]	4557	[5584, 5585]	6239	[6553, 6554]
1194	[2143, 2144]	2876	[1924, 168]	4558	[3862, 1432]	6240	[6403, 2666]
1195	[2145, 2146]	2877	[4427, 4428]	4559	[5474, 5586]	6241	[2760, 873]
1196	[2147, 38]	2878	[4429, 4430]	4560	[5587, 4052]	6242	[6440, 844]
1197	[2148, 2149]	2879	[2572, 663]	4561	[5588, 5589]	6243	[5112, 6467]
1198	[2150, 2151]	2880	[4431, 4432]	4562	[3132, 5590]	6244	[1856, 6386]
1199	[2152, 2153]	2881	[2652, 4433]	4563	[5591, 5592]	6245	[5203, 2340]
1200	[2154, 2155]	2882	[740, 815]	4564	[5593, 5594]	6246	[520, 5118]
1201	[2155, 2156]	2883	[2260, 4434]	4565	[5595, 1596]	6247	[724, 2426]
1202	[2157, 2112]	2884	[2373, 4412]	4566	[5596, 3488]	6248	[1962, 507]
1203	[2158, 2159]	2885	[2372, 4435]	4567	[3198, 5597]	6249	[6555, 5137]
1204	[639, 2160]	2886	[4436, 4437]	4568	[3565, 4215]	6250	[5314, 2236]
1205	[641, 2107]	2887	[2302, 4438]	4569	[5598, 3965]	6251	[55, 5074]
1206	[2161, 2152]	2888	[941, 4439]	4570	[3256, 3892]	6252	[2267, 5291]
1207	[642, 2108]	2889	[4440, 2119]	4571	[2976, 5599]	6253	[6343, 850]
1208	[2159, 2162]	2890	[4441, 4442]	4572	[5600, 5601]	6254	[5068, 580]
1209	[2108, 643]	2891	[2192, 4443]	4573	[3287, 5602]	6255	[2631, 577]
1210	[644, 2158]	2892	[4444, 4445]	4574	[96, 5603]	6256	[2524, 2797]
1211	[2162, 639]	2893	[2375, 4446]	4575	[5604, 4361]	6257	[4422, 5356]
1212	[2163, 2164]	2894	[670, 2527]	4576	[5605, 5606]	6258	[6552, 4819]
1213	[2165, 2166]	2895	[4447, 1974]	4577	[3439, 3898]	6259	[5318, 4748]
1214	[2167, 2168]	2896	[2444, 515]	4578	[5607, 3188]	6260	[4663, 4491]
1215	[2169, 2170]	2897	[4448, 2732]	4579	[5608, 1297]	6261	[6450, 5240]
1216	[1872, 2171]	2898	[4449, 4450]	4580	[5609, 5610]	6262	[2176, 5121]
1217	[943, 2172]	2899	[4413, 4451]	4581	[5611, 1180]	6263	[4533, 4949]
1218	[2173, 2174]	2900	[553, 874]	4582	[4326, 5612]	6264	[2483, 2657]
1219	[2175, 2176]	2901	[2584, 2256]	4583	[456, 5613]	6265	[4680, 5018]
1220	[2177, 690]	2902	[2581, 4452]	4584	[5614, 5615]	6266	[4562, 4884]
1221	[2178, 171]	2903	[4453, 1763]	4585	[328, 4199]	6267	[6446, 5343]
1222	[2179, 2180]	2904	[4441, 4454]	4586	[3135, 1098]	6268	[588, 1777]
1223	[2181, 858]	2905	[4455, 4456]	4587	[5616, 1700]	6269	[5232, 725]
1224	[2182, 2183]	2906	[2593, 4457]	4588	[5617, 5618]	6270	[2445, 61]
1225	[2184, 2185]	2907	[4458, 4459]	4589	[3988, 5619]	6271	[6358, 6411]
1226	[2186, 2187]	2908	[770, 4460]	4590	[430, 3327]	6272	[2436, 5260]
1227	[1811, 2188]	2909	[2489, 4461]	4591	[405, 4166]	6273	[6556, 4826]
1228	[2189, 1759]	2910	[2735, 4462]	4592	[5620, 1358]	6274	[2796, 705]

1229	[1763, 2190]	2911	[4463, 2760]	4593	[5621, 341]	6275	[6430, 4776]
1230	[2191, 2192]	2912	[4464, 2087]	4594	[5622, 5623]	6276	[2507, 5314]
1231	[2193, 2194]	2913	[4465, 4466]	4595	[3025, 3088]	6277	[4599, 5299]
1232	[2195, 2196]	2914	[4467, 4468]	4596	[5624, 5625]	6278	[4914, 6451]
1233	[2197, 2198]	2915	[4434, 4469]	4597	[5626, 1555]	6279	[2567, 2046]
1234	[2199, 2200]	2916	[4470, 2262]	4598	[5627, 5628]	6280	[6557, 4784]
1235	[2201, 2202]	2917	[4471, 928]	4599	[4135, 5629]	6281	[2508, 621]
1236	[2203, 2204]	2918	[2010, 147]	4600	[5630, 5562]	6282	[6518, 5312]
1237	[1800, 2205]	2919	[4472, 205]	4601	[1181, 2894]	6283	[1828, 831]
1238	[752, 150]	2920	[4473, 4474]	4602	[5631, 1308]	6284	[6558, 6559]
1239	[2206, 673]	2921	[805, 2615]	4603	[5632, 5633]	6285	[1994, 663]
1240	[2207, 2208]	2922	[4475, 2166]	4604	[104, 5634]	6286	[6342, 2746]
1241	[513, 2209]	2923	[4476, 4477]	4605	[5635, 5636]	6287	[4765, 4824]
1242	[2210, 2211]	2924	[2731, 4478]	4606	[5637, 4173]	6288	[6560, 2360]
1243	[2212, 2213]	2925	[703, 4460]	4607	[3567, 5638]	6289	[6502, 58]
1244	[2214, 2215]	2926	[2757, 2367]	4608	[346, 5639]	6290	[6527, 2003]
1245	[2216, 10]	2927	[2763, 1806]	4609	[3647, 1368]	6291	[6485, 6538]
1246	[2217, 2218]	2928	[2638, 4479]	4610	[5425, 5640]	6292	[6466, 4832]
1247	[2188, 2219]	2929	[2443, 848]	4611	[401, 5641]	6293	[2563, 2035]
1248	[2097, 2220]	2930	[1858, 4480]	4612	[4266, 5642]	6294	[6561, 5029]
1249	[781, 2221]	2931	[2063, 4481]	4613	[5643, 5644]	6295	[5341, 4557]
1250	[577, 2222]	2932	[829, 506]	4614	[5645, 4256]	6296	[4875, 571]
1251	[2223, 2224]	2933	[14, 1783]	4615	[3231, 5646]	6297	[2314, 4707]
1252	[2225, 2226]	2934	[2025, 4482]	4616	[3328, 4284]	6298	[2496, 5222]
1253	[2227, 2183]	2935	[4483, 2132]	4617	[5647, 5648]	6299	[6410, 6359]
1254	[2228, 2229]	2936	[4484, 4485]	4618	[3579, 5527]	6300	[5091, 5262]
1255	[2230, 2231]	2937	[8, 1852]	4619	[5649, 5650]	6301	[5034, 5339]
1256	[2232, 2233]	2938	[865, 2521]	4620	[5651, 5652]	6302	[4804, 632]
1257	[2234, 2235]	2939	[4486, 4487]	4621	[3543, 1139]	6303	[6547, 935]
1258	[2236, 2237]	2940	[692, 4488]	4622	[3214, 5475]	6304	[5030, 4987]
1259	[2238, 885]	2941	[2790, 931]	4623	[5628, 5653]	6305	[2408, 2028]
1260	[172, 191]	2942	[4489, 2331]	4624	[5654, 5655]	6306	[6489, 2756]
1261	[2239, 2240]	2943	[857, 4490]	4625	[2915, 5656]	6307	[2405, 2378]
1262	[2241, 2242]	2944	[2534, 4491]	4626	[3555, 5657]	6308	[2509, 4489]
1263	[2243, 2244]	2945	[2387, 4492]	4627	[5658, 1191]	6309	[6562, 2401]
1264	[2245, 2246]	2946	[4493, 4494]	4628	[1617, 2987]	6310	[4713, 6393]
1265	[718, 2247]	2947	[1878, 4495]	4629	[3489, 5659]	6311	[4958, 5190]
1266	[2248, 2249]	2948	[4496, 2674]	4630	[5660, 1730]	6312	[4844, 172]
1267	[2250, 2251]	2949	[4497, 4498]	4631	[5661, 5662]	6313	[621, 4489]
1268	[651, 2252]	2950	[4499, 4500]	4632	[5663, 5664]	6314	[4786, 6563]
1269	[1965, 2242]	2951	[4501, 1907]	4633	[3679, 5665]	6315	[2127, 2726]
1270	[2253, 1779]	2952	[4502, 722]	4634	[5666, 3040]	6316	[5371, 5291]
1271	[2254, 2255]	2953	[2574, 4461]	4635	[5667, 5668]	6317	[4770, 851]
1272	[1764, 2256]	2954	[2052, 2093]	4636	[5659, 5669]	6318	[2816, 4398]

1273	[807, 2257]	2955	[4503, 2649]	4637	[1342, 5670]	6319	[6564, 4497]
1274	[2258, 2192]	2956	[2080, 4504]	4638	[370, 3082]	6320	[938, 715]
1275	[2189, 2259]	2957	[4505, 834]	4639	[5671, 1372]	6321	[890, 6505]
1276	[174, 1926]	2958	[2069, 4506]	4640	[1275, 5672]	6322	[6565, 6559]
1277	[2260, 2261]	2959	[4507, 4508]	4641	[5673, 2901]	6323	[6537, 2234]
1278	[2262, 2140]	2960	[4509, 2611]	4642	[5674, 996]	6324	[1801, 2535]
1279	[837, 686]	2961	[902, 4510]	4643	[3821, 5675]	6325	[2591, 1809]
1280	[2263, 2264]	2962	[4511, 4512]	4644	[5676, 4046]	6326	[5204, 2341]
1281	[2265, 2266]	2963	[4513, 4514]	4645	[5677, 19]	6327	[704, 2056]
1282	[2267, 2268]	2964	[4515, 4516]	4646	[5678, 3316]	6328	[6566, 4241]
1283	[2269, 2270]	2965	[1856, 4517]	4647	[5679, 5443]	6329	[6567, 6050]
1284	[2271, 2272]	2966	[4518, 4519]	4648	[5680, 978]	6330	[6038, 6146]
1285	[2273, 2274]	2967	[4520, 4521]	4649	[5681, 5682]	6331	[6568, 3933]
1286	[2275, 2250]	2968	[2094, 4522]	4650	[1653, 5683]	6332	[6569, 3887]
1287	[2276, 2277]	2969	[2761, 4523]	4651	[5684, 5685]	6333	[4275, 5765]
1288	[2278, 2279]	2970	[4524, 700]	4652	[3865, 5686]	6334	[6570, 5417]
1289	[2280, 2281]	2971	[700, 4525]	4653	[3984, 1041]	6335	[6571, 4289]
1290	[655, 2282]	2972	[4526, 866]	4654	[5687, 3828]	6336	[2858, 6572]
1291	[787, 2283]	2973	[4439, 4527]	4655	[5657, 5688]	6337	[490, 5616]
1292	[886, 1807]	2974	[2554, 4528]	4656	[5689, 5690]	6338	[6126, 6045]
1293	[2284, 2285]	2975	[2618, 4418]	4657	[1357, 5691]	6339	[3507, 6084]
1294	[44, 9]	2976	[4529, 4530]	4658	[1183, 5692]	6340	[1711, 6573]
1295	[2286, 2287]	2977	[645, 138]	4659	[5460, 5693]	6341	[6058, 6114]
1296	[2288, 2289]	2978	[2303, 4531]	4660	[1444, 4144]	6342	[6574, 5622]
1297	[2290, 2291]	2979	[2103, 1819]	4661	[5694, 5695]	6343	[6575, 6120]
1298	[2292, 2293]	2980	[2712, 2353]	4662	[5696, 5697]	6344	[6576, 6577]
1299	[2218, 564]	2981	[4532, 896]	4663	[3592, 1356]	6345	[6578, 5757]
1300	[914, 2294]	2982	[4533, 4534]	4664	[5698, 5699]	6346	[1383, 5810]
1301	[2295, 2296]	2983	[4535, 2317]	4665	[3791, 5700]	6347	[6579, 3968]
1302	[1802, 838]	2984	[2829, 2004]	4666	[5701, 4193]	6348	[6580, 6581]
1303	[2278, 928]	2985	[4536, 1989]	4667	[5702, 2955]	6349	[5688, 952]
1304	[2112, 2157]	2986	[1935, 4537]	4668	[1566, 3978]	6350	[3994, 6582]
1305	[2297, 2298]	2987	[2678, 2736]	4669	[5703, 5520]	6351	[3010, 3779]
1306	[2156, 2153]	2988	[4538, 4539]	4670	[3425, 4305]	6352	[6583, 4000]
1307	[2155, 2152]	2989	[4420, 2058]	4671	[5704, 4340]	6353	[6302, 1164]
1308	[2299, 2300]	2990	[4540, 2275]	4672	[5539, 5705]	6354	[5949, 431]
1309	[2301, 2302]	2991	[4541, 4542]	4673	[5706, 3207]	6355	[1107, 6584]
1310	[2303, 2304]	2992	[926, 509]	4674	[5707, 5574]	6356	[2863, 351]
1311	[2305, 2306]	2993	[4543, 2722]	4675	[5708, 3891]	6357	[5862, 3544]
1312	[1815, 626]	2994	[4544, 4545]	4676	[3359, 5709]	6358	[3249, 6585]
1313	[2307, 2142]	2995	[4546, 4547]	4677	[5710, 5407]	6359	[6586, 6587]
1314	[2008, 2308]	2996	[2424, 4548]	4678	[5711, 4066]	6360	[6588, 5415]
1315	[823, 2309]	2997	[180, 4549]	4679	[1267, 5712]	6361	[5799, 6589]
1316	[2061, 2016]	2998	[2104, 4550]	4680	[5713, 4338]	6362	[5686, 1693]

1317	[2310, 2289]	2999	[167, 4551]	4681	[5714, 5715]	6363	[6590, 5890]
1318	[711, 2188]	3000	[4392, 824]	4682	[5716, 5513]	6364	[6591, 2842]
1319	[2234, 2311]	3001	[4552, 4553]	4683	[3805, 5717]	6365	[6190, 3868]
1320	[2312, 2313]	3002	[874, 2627]	4684	[3594, 5718]	6366	[6592, 3057]
1321	[2314, 2315]	3003	[4554, 2391]	4685	[5719, 1302]	6367	[6593, 2963]
1322	[2316, 2317]	3004	[4555, 4556]	4686	[5720, 4129]	6368	[6011, 1490]
1323	[2318, 2250]	3005	[243, 4554]	4687	[5705, 5500]	6369	[6594, 1091]
1324	[2319, 2320]	3006	[4557, 4558]	4688	[5721, 5722]	6370	[3538, 6277]
1325	[2321, 2322]	3007	[569, 4559]	4689	[3900, 5723]	6371	[6194, 6595]
1326	[2323, 2324]	3008	[37, 627]	4690	[4058, 3786]	6372	[6596, 6597]
1327	[2325, 2326]	3009	[152, 4560]	4691	[5724, 1352]	6373	[6598, 6569]
1328	[849, 2327]	3010	[1897, 4561]	4692	[4339, 4067]	6374	[6599, 6316]
1329	[2328, 2329]	3011	[2015, 2100]	4693	[4343, 5463]	6375	[4075, 6600]
1330	[2330, 610]	3012	[1931, 4562]	4694	[463, 4111]	6376	[6601, 6602]
1331	[2331, 2332]	3013	[4563, 2098]	4695	[5725, 3288]	6377	[6320, 4041]
1332	[2333, 2334]	3014	[4564, 4565]	4696	[5726, 5727]	6378	[5781, 6603]
1333	[2335, 2336]	3015	[2783, 715]	4697	[5728, 5729]	6379	[1579, 5951]
1334	[2337, 183]	3016	[4566, 2144]	4698	[3763, 482]	6380	[6181, 6604]
1335	[2338, 2339]	3017	[4496, 2812]	4699	[3912, 5730]	6381	[6605, 6606]
1336	[2340, 2341]	3018	[4463, 872]	4700	[3259, 4321]	6382	[5470, 6607]
1337	[2342, 2343]	3019	[2145, 4567]	4701	[3550, 4205]	6383	[4179, 1274]
1338	[2344, 554]	3020	[4568, 4569]	4702	[5731, 5732]	6384	[442, 6080]
1339	[2345, 2346]	3021	[2008, 4498]	4703	[5733, 5734]	6385	[2970, 6608]
1340	[2347, 2348]	3022	[2076, 237]	4704	[5735, 5736]	6386	[5752, 1578]
1341	[2011, 2349]	3023	[1984, 2246]	4705	[3875, 5737]	6387	[4204, 6609]
1342	[782, 2350]	3024	[2010, 4570]	4706	[5738, 5523]	6388	[4033, 1039]
1343	[2148, 2351]	3025	[2429, 4571]	4707	[5739, 5740]	6389	[1060, 6166]
1344	[2352, 2353]	3026	[4572, 2399]	4708	[3802, 5741]	6390	[6270, 1086]
1345	[2354, 2355]	3027	[2409, 4573]	4709	[2981, 5742]	6391	[6609, 1719]
1346	[2356, 838]	3028	[712, 2031]	4710	[3735, 5743]	6392	[5518, 5706]
1347	[2357, 1910]	3029	[2294, 1973]	4711	[5744, 5745]	6393	[350, 3589]
1348	[2358, 523]	3030	[2106, 4574]	4712	[5746, 3906]	6394	[3187, 83]
1349	[2294, 743]	3031	[4575, 4576]	4713	[957, 5747]	6395	[3827, 6610]
1350	[2359, 2360]	3032	[2690, 4577]	4714	[479, 476]	6396	[3972, 1598]
1351	[2361, 2362]	3033	[4578, 2717]	4715	[3882, 4294]	6397	[6611, 3703]
1352	[2363, 250]	3034	[4579, 4580]	4716	[3173, 1664]	6398	[5789, 5458]
1353	[2364, 2365]	3035	[4581, 2461]	4717	[3893, 335]	6399	[4146, 4276]
1354	[2366, 2367]	3036	[4582, 4583]	4718	[1261, 5748]	6400	[6612, 6613]
1355	[2368, 2369]	3037	[4584, 854]	4719	[3206, 5749]	6401	[6603, 3746]
1356	[2370, 2371]	3038	[2400, 4585]	4720	[5750, 3174]	6402	[3313, 5468]
1357	[2372, 613]	3039	[4586, 2125]	4721	[5751, 5752]	6403	[6614, 6615]
1358	[2081, 2373]	3040	[4587, 2634]	4722	[1159, 5753]	6404	[6577, 6616]
1359	[792, 2372]	3041	[203, 1933]	4723	[5754, 5755]	6405	[6617, 6180]
1360	[2374, 756]	3042	[4588, 4589]	4724	[3761, 5756]	6406	[5839, 6133]

1361	[2375, 2376]	3043	[4590, 2053]	4725	[5757, 1398]	6407	[3418, 3042]
1362	[2019, 2377]	3044	[4591, 4592]	4726	[3119, 1501]	6408	[6618, 4373]
1363	[2378, 2379]	3045	[1837, 4593]	4727	[5758, 5759]	6409	[6619, 4375]
1364	[1882, 2380]	3046	[4594, 4595]	4728	[5760, 1228]	6410	[6043, 6620]
1365	[2381, 2382]	3047	[4596, 568]	4729	[5761, 5762]	6411	[6621, 6622]
1366	[2383, 2384]	3048	[4597, 4598]	4730	[1003, 269]	6412	[1733, 6623]
1367	[2385, 2386]	3049	[4599, 4508]	4731	[5763, 5764]	6413	[1173, 470]
1368	[2387, 2388]	3050	[616, 4600]	4732	[5765, 5766]	6414	[6624, 6625]
1369	[1806, 887]	3051	[4601, 2020]	4733	[3884, 5767]	6415	[465, 2920]
1370	[2389, 2390]	3052	[2729, 2072]	4734	[3349, 5768]	6416	[4053, 3826]
1371	[1854, 1826]	3053	[4602, 2425]	4735	[5769, 5770]	6417	[6626, 3920]
1372	[2391, 2392]	3054	[4603, 4567]	4736	[1723, 5771]	6418	[1155, 5701]
1373	[2393, 2394]	3055	[4590, 2654]	4737	[4121, 4061]	6419	[6312, 6019]
1374	[2395, 2016]	3056	[523, 558]	4738	[5772, 5498]	6420	[5886, 4132]
1375	[2396, 2397]	3057	[4604, 4605]	4739	[5773, 5774]	6421	[5579, 5553]
1376	[2398, 2012]	3058	[1978, 252]	4740	[4363, 5775]	6422	[6627, 3453]
1377	[624, 2399]	3059	[4606, 1830]	4741	[5776, 5777]	6423	[2875, 4177]
1378	[164, 2400]	3060	[4530, 4607]	4742	[5778, 5779]	6424	[5899, 6628]
1379	[2333, 2401]	3061	[2556, 807]	4743	[5780, 5781]	6425	[6287, 6198]
1380	[1818, 2402]	3062	[172, 2084]	4744	[4264, 4311]	6426	[4350, 3814]
1381	[2403, 2404]	3063	[174, 4608]	4745	[380, 449]	6427	[6063, 421]
1382	[2405, 129]	3064	[4609, 612]	4746	[3047, 3181]	6428	[3638, 5491]
1383	[2406, 2407]	3065	[49, 839]	4747	[1095, 5716]	6429	[6079, 6227]
1384	[2408, 2409]	3066	[2361, 4610]	4748	[5782, 5783]	6430	[6629, 3995]
1385	[2410, 2014]	3067	[4611, 4612]	4749	[5784, 4176]	6431	[4268, 3169]
1386	[2411, 661]	3068	[4613, 4614]	4750	[5785, 1187]	6432	[6117, 6630]
1387	[2346, 229]	3069	[4615, 4616]	4751	[5786, 5787]	6433	[6631, 1313]
1388	[2412, 2413]	3070	[4617, 2614]	4752	[5788, 5789]	6434	[5424, 305]
1389	[2037, 748]	3071	[2575, 141]	4753	[5790, 1728]	6435	[5837, 1724]
1390	[2414, 2412]	3072	[4493, 4618]	4754	[5791, 3265]	6436	[6632, 5614]
1391	[860, 2415]	3073	[4619, 1793]	4755	[1538, 5792]	6437	[3454, 6017]
1392	[1967, 2416]	3074	[2322, 631]	4756	[1320, 3997]	6438	[5411, 6633]
1393	[2417, 140]	3075	[793, 2527]	4757	[5793, 4032]	6439	[6086, 4182]
1394	[2418, 2419]	3076	[4471, 2279]	4758	[2974, 5794]	6440	[6634, 1037]
1395	[2420, 2421]	3077	[603, 4577]	4759	[5795, 5796]	6441	[3101, 4068]
1396	[2422, 2423]	3078	[4620, 4407]	4760	[5797, 5545]	6442	[6635, 1597]
1397	[1930, 2424]	3079	[4621, 183]	4761	[5798, 445]	6443	[2957, 6131]
1398	[2065, 2425]	3080	[4576, 4622]	4762	[3556, 5673]	6444	[5774, 466]
1399	[1799, 2426]	3081	[156, 2293]	4763	[1054, 3457]	6445	[6636, 6637]
1400	[575, 2427]	3082	[2627, 4623]	4764	[4372, 5799]	6446	[6157, 3768]
1401	[718, 2428]	3083	[4624, 4625]	4765	[5800, 3013]	6447	[6638, 65]
1402	[2429, 2430]	3084	[4626, 518]	4766	[5801, 1264]	6448	[5542, 3024]
1403	[2426, 2431]	3085	[4627, 2080]	4767	[5802, 1262]	6449	[5536, 6639]
1404	[2432, 2433]	3086	[4448, 4478]	4768	[5467, 5803]	6450	[292, 6640]

1405	[514, 2434]	3087	[866, 4628]	4769	[5804, 3113]	6451	[5999, 6641]
1406	[2084, 192]	3088	[4570, 213]	4770	[3463, 1594]	6452	[5889, 6642]
1407	[871, 2435]	3089	[4629, 4630]	4771	[2999, 5805]	6453	[6119, 6109]
1408	[2099, 664]	3090	[915, 2368]	4772	[4285, 5663]	6454	[6643, 3672]
1409	[2436, 2437]	3091	[4631, 755]	4773	[5806, 5807]	6455	[6261, 6644]
1410	[2422, 2438]	3092	[1871, 4632]	4774	[5506, 4355]	6456	[6645, 6106]
1411	[715, 750]	3093	[4633, 4634]	4775	[5808, 1023]	6457	[6646, 6039]
1412	[2439, 2440]	3094	[4635, 4636]	4776	[5809, 2952]	6458	[6647, 2983]
1413	[2316, 2441]	3095	[56, 4637]	4777	[3487, 3064]	6459	[5966, 4358]
1414	[846, 841]	3096	[2253, 2575]	4778	[5810, 5811]	6460	[4255, 257]
1415	[2442, 2443]	3097	[4638, 4639]	4779	[22, 5812]	6461	[3485, 5907]
1416	[2444, 2434]	3098	[4640, 2681]	4780	[5813, 3557]	6462	[3603, 464]
1417	[2445, 2446]	3099	[2426, 2205]	4781	[4293, 5814]	6463	[6307, 3516]
1418	[2447, 2448]	3100	[135, 4641]	4782	[1184, 4300]	6464	[6648, 5595]
1419	[2449, 803]	3101	[4642, 4466]	4783	[5815, 293]	6465	[70, 4130]
1420	[899, 2450]	3102	[4643, 4644]	4784	[1022, 5703]	6466	[6625, 6649]
1421	[2451, 2452]	3103	[4645, 4646]	4785	[3481, 5816]	6467	[6650, 99]
1422	[2453, 2130]	3104	[4647, 4539]	4786	[2913, 5790]	6468	[5816, 3477]
1423	[2454, 2455]	3105	[4648, 518]	4787	[5817, 5818]	6469	[6651, 6152]
1424	[2414, 2456]	3106	[4649, 4650]	4788	[1377, 5819]	6470	[1334, 6652]
1425	[566, 2457]	3107	[4651, 1816]	4789	[5820, 5821]	6471	[5970, 6246]
1426	[44, 2216]	3108	[682, 4652]	4790	[3877, 5822]	6472	[1749, 6232]
1427	[2458, 2459]	3109	[4653, 2295]	4791	[5655, 5823]	6473	[6653, 6654]
1428	[2215, 2211]	3110	[235, 4654]	4792	[5824, 5825]	6474	[5451, 16]
1429	[1864, 2460]	3111	[2800, 2530]	4793	[338, 5826]	6475	[3335, 5991]
1430	[2461, 2462]	3112	[2242, 4655]	4794	[5827, 5828]	6476	[5548, 5647]
1431	[2463, 2464]	3113	[4656, 4657]	4795	[5829, 5830]	6477	[1459, 6655]
1432	[141, 2465]	3114	[803, 4658]	4796	[3274, 5487]	6478	[5915, 4224]
1433	[2466, 2467]	3115	[4445, 4659]	4797	[5831, 5832]	6479	[6656, 5600]
1434	[2468, 2469]	3116	[4660, 4661]	4798	[1564, 311]	6480	[110, 4282]
1435	[2470, 2471]	3117	[4662, 761]	4799	[5833, 5834]	6481	[6657, 6191]
1436	[2472, 2304]	3118	[1923, 167]	4800	[5835, 5836]	6482	[6285, 6264]
1437	[2473, 514]	3119	[583, 1768]	4801	[3740, 5837]	6483	[1344, 6658]
1438	[2474, 2475]	3120	[4663, 789]	4802	[3742, 5838]	6484	[6659, 5780]
1439	[2476, 2477]	3121	[2643, 4664]	4803	[374, 5839]	6485	[6581, 6660]
1440	[2478, 240]	3122	[4665, 4666]	4804	[5840, 3399]	6486	[4083, 6661]
1441	[2479, 2480]	3123	[2622, 4667]	4805	[5841, 3578]	6487	[3344, 3883]
1442	[2481, 2482]	3124	[937, 4668]	4806	[5842, 1226]	6488	[1036, 5401]
1443	[2483, 2484]	3125	[2730, 2342]	4807	[5843, 5844]	6489	[6662, 3770]
1444	[182, 2485]	3126	[2391, 4669]	4808	[1395, 5845]	6490	[3283, 6663]
1445	[2486, 2487]	3127	[2639, 581]	4809	[5846, 5847]	6491	[320, 2853]
1446	[2488, 2489]	3128	[4670, 4671]	4810	[5848, 4296]	6492	[6664, 4134]
1447	[503, 2490]	3129	[4672, 2718]	4811	[5849, 5850]	6493	[5580, 5583]
1448	[2078, 2491]	3130	[572, 4537]	4812	[3217, 5851]	6494	[6615, 6665]

1449	[2272, 1987]	3131	[4673, 2677]	4813	[5682, 1738]	6495	[3894, 6666]
1450	[2377, 2240]	3132	[4674, 736]	4814	[5602, 3784]	6496	[3977, 6667]
1451	[1755, 2371]	3133	[4675, 2292]	4815	[5852, 1172]	6497	[6324, 1487]
1452	[2492, 2493]	3134	[4676, 4666]	4816	[3598, 2859]	6498	[6293, 6668]
1453	[2494, 2000]	3135	[4677, 4678]	4817	[5853, 5854]	6499	[5715, 6669]
1454	[2495, 2496]	3136	[2820, 4679]	4818	[5639, 5855]	6500	[6670, 6671]
1455	[521, 734]	3137	[2637, 1877]	4819	[5856, 4314]	6501	[6672, 6673]
1456	[153, 661]	3138	[4680, 2207]	4820	[290, 5726]	6502	[6674, 6645]
1457	[2497, 2498]	3139	[4681, 4682]	4821	[5857, 5858]	6503	[3733, 1237]
1458	[2499, 225]	3140	[4661, 4683]	4822	[4021, 5859]	6504	[5690, 6186]
1459	[2033, 1861]	3141	[4684, 4685]	4823	[1192, 5860]	6505	[6092, 1031]
1460	[1851, 2500]	3142	[762, 4686]	4824	[5861, 5862]	6506	[6658, 125]
1461	[1943, 2455]	3143	[2718, 4687]	4825	[5863, 5864]	6507	[6675, 6676]
1462	[2501, 914]	3144	[4503, 4688]	4826	[5865, 3423]	6508	[1548, 3713]
1463	[2502, 2021]	3145	[4689, 4690]	4827	[5866, 3937]	6509	[3306, 4114]
1464	[837, 2503]	3146	[4449, 1959]	4828	[4211, 5867]	6510	[6677, 1311]
1465	[2403, 2504]	3147	[4691, 717]	4829	[4042, 5868]	6511	[6678, 1270]
1466	[2505, 2506]	3148	[2800, 4692]	4830	[4081, 367]	6512	[3864, 6184]
1467	[2047, 2507]	3149	[813, 4693]	4831	[2962, 5869]	6513	[6254, 5827]
1468	[2508, 2509]	3150	[244, 2391]	4832	[5870, 5871]	6514	[1585, 5626]
1469	[2510, 2511]	3151	[2271, 1986]	4833	[1071, 5872]	6515	[6679, 1189]
1470	[2512, 2513]	3152	[4694, 4695]	4834	[4248, 5809]	6516	[3907, 3853]
1471	[2514, 2515]	3153	[2183, 2541]	4835	[5873, 3985]	6517	[6680, 1717]
1472	[2516, 2517]	3154	[2141, 2312]	4836	[5874, 5875]	6518	[3123, 6592]
1473	[2518, 2519]	3155	[2226, 2785]	4837	[5812, 3529]	6519	[4157, 3138]
1474	[2286, 2520]	3156	[2186, 4696]	4838	[1202, 5876]	6520	[6681, 353]
1475	[1956, 769]	3157	[4544, 4697]	4839	[3476, 325]	6521	[6682, 6683]
1476	[2521, 2522]	3158	[2694, 4698]	4840	[1643, 5877]	6522	[5745, 285]
1477	[2489, 2523]	3159	[924, 2792]	4841	[5878, 5879]	6523	[3407, 6684]
1478	[2524, 13]	3160	[2807, 4699]	4842	[3317, 5707]	6524	[5564, 6127]
1479	[2525, 2526]	3161	[522, 2335]	4843	[5880, 3402]	6525	[6276, 6685]
1480	[2527, 2528]	3162	[1845, 4700]	4844	[5847, 5881]	6526	[4216, 6575]
1481	[2529, 2530]	3163	[1778, 2464]	4845	[4139, 5882]	6527	[6686, 6687]
1482	[919, 234]	3164	[2451, 4701]	4846	[3070, 950]	6528	[5623, 6688]
1483	[2307, 2312]	3165	[2039, 2294]	4847	[5883, 5884]	6529	[5910, 6689]
1484	[2184, 2059]	3166	[233, 2575]	4848	[5885, 5886]	6530	[1674, 6678]
1485	[2527, 797]	3167	[4702, 1883]	4849	[1595, 1710]	6531	[4160, 1156]
1486	[2531, 2532]	3168	[836, 685]	4850	[5887, 3614]	6532	[5748, 6593]
1487	[2533, 2534]	3169	[4703, 2285]	4851	[5888, 5889]	6533	[6690, 4169]
1488	[2535, 52]	3170	[565, 189]	4852	[5890, 5835]	6534	[6691, 1571]
1489	[2536, 2537]	3171	[2810, 666]	4853	[5891, 4156]	6535	[2849, 6692]
1490	[2538, 2539]	3172	[1992, 4704]	4854	[3383, 5892]	6536	[6693, 6694]
1491	[2073, 2343]	3173	[4705, 4706]	4855	[5893, 1333]	6537	[1480, 3701]
1492	[2540, 878]	3174	[505, 830]	4856	[5409, 1096]	6538	[6695, 6696]

1493	[2541, 2542]	3175	[4707, 4708]	4857	[5894, 5895]	6539	[5422, 5507]
1494	[2543, 2544]	3176	[4709, 1996]	4858	[5896, 5897]	6540	[3456, 3993]
1495	[220, 906]	3177	[4710, 4634]	4859	[5898, 5899]	6541	[6697, 6632]
1496	[517, 502]	3178	[2835, 4711]	4860	[5900, 3833]	6542	[1687, 4024]
1497	[524, 2545]	3179	[4712, 4713]	4861	[5901, 5533]	6543	[372, 4005]
1498	[1996, 2546]	3180	[242, 4714]	4862	[3986, 5902]	6544	[5603, 4231]
1499	[2321, 173]	3181	[709, 4704]	4863	[5903, 5904]	6545	[3177, 6698]
1500	[2020, 2547]	3182	[4715, 872]	4864	[3561, 1102]	6546	[3956, 5561]
1501	[2382, 2548]	3183	[2780, 54]	4865	[5437, 1074]	6547	[6699, 5565]
1502	[2549, 2550]	3184	[1966, 2236]	4866	[4382, 3709]	6548	[5641, 6590]
1503	[2551, 45]	3185	[672, 4716]	4867	[4273, 5863]	6549	[6684, 4388]
1504	[712, 2219]	3186	[4717, 167]	4868	[3819, 5698]	6550	[6700, 5843]
1505	[2305, 2030]	3187	[216, 798]	4869	[5905, 3959]	6551	[4332, 1293]
1506	[2349, 2552]	3188	[4718, 877]	4870	[3311, 994]	6552	[3836, 4178]
1507	[1917, 2553]	3189	[2077, 4719]	4871	[5906, 4044]	6553	[6701, 79]
1508	[2554, 2555]	3190	[604, 184]	4872	[5907, 5908]	6554	[4062, 4138]
1509	[1927, 660]	3191	[4720, 4449]	4873	[1144, 5735]	6555	[3929, 6702]
1510	[2556, 2557]	3192	[4721, 4722]	4874	[1393, 5560]	6556	[1024, 6703]
1511	[2558, 2559]	3193	[4723, 4724]	4875	[3574, 1078]	6557	[6685, 5713]
1512	[2560, 607]	3194	[4483, 2562]	4876	[5909, 5910]	6558	[5770, 6704]
1513	[2561, 2412]	3195	[4725, 862]	4877	[5911, 5912]	6559	[6705, 6706]
1514	[2562, 2133]	3196	[2805, 4726]	4878	[5913, 5914]	6560	[6707, 1592]
1515	[628, 860]	3197	[4727, 4728]	4879	[1523, 5915]	6561	[6708, 6102]
1516	[2563, 2564]	3198	[502, 11]	4880	[5916, 3591]	6562	[2847, 3685]
1517	[2565, 701]	3199	[4729, 4730]	4881	[5917, 1148]	6563	[6709, 1268]
1518	[2454, 1944]	3200	[4731, 4732]	4882	[1618, 1541]	6564	[3056, 3696]
1519	[1981, 2566]	3201	[2416, 2601]	4883	[3497, 5918]	6565	[5697, 6710]
1520	[2567, 2568]	3202	[4733, 4734]	4884	[3851, 5919]	6566	[6711, 2073]
1521	[193, 2569]	3203	[4735, 4736]	4885	[5590, 5465]	6567	[2173, 4440]
1522	[2570, 1803]	3204	[4737, 713]	4886	[3528, 5920]	6568	[5087, 6536]
1523	[1792, 2571]	3205	[4738, 4739]	4887	[5921, 5922]	6569	[719, 208]
1524	[1993, 2572]	3206	[4421, 4740]	4888	[3974, 5923]	6570	[241, 725]
1525	[713, 2573]	3207	[586, 4741]	4889	[4291, 3736]	6571	[4462, 2136]
1526	[1896, 2574]	3208	[4742, 2609]	4890	[3413, 3479]	6572	[6516, 684]
1527	[1968, 883]	3209	[2501, 2039]	4891	[3932, 5924]	6573	[890, 6551]
1528	[2575, 2576]	3210	[4743, 2138]	4892	[5925, 3167]	6574	[6527, 2829]
1529	[2577, 2578]	3211	[2605, 4744]	4893	[5926, 5588]	6575	[629, 5187]
1530	[2579, 1841]	3212	[4745, 4746]	4894	[5927, 1446]	6576	[5040, 6419]
1531	[2580, 2076]	3213	[2347, 1897]	4895	[1058, 5928]	6577	[804, 6526]
1532	[2581, 2582]	3214	[777, 4575]	4896	[4239, 5929]	6578	[6542, 4391]
1533	[2583, 1760]	3215	[2665, 2055]	4897	[5872, 3587]	6579	[6555, 5228]
1534	[2584, 1765]	3216	[597, 4565]	4898	[5930, 4023]	6580	[4657, 2553]
1535	[2165, 2585]	3217	[215, 4747]	4899	[5931, 5932]	6581	[4612, 6431]
1536	[2586, 2587]	3218	[2743, 944]	4900	[5656, 5758]	6582	[1996, 2266]

1537	[146, 2588]	3219	[2302, 4748]	4901	[1209, 5933]	6583	[6556, 6334]
1538	[2589, 2590]	3220	[4749, 2702]	4902	[1599, 3428]	6584	[2056, 6428]
1539	[2591, 2592]	3221	[4739, 159]	4903	[1206, 3412]	6585	[6557, 5213]
1540	[1944, 2593]	3222	[1969, 2515]	4904	[428, 5934]	6586	[2049, 164]
1541	[206, 2594]	3223	[4750, 4751]	4905	[5935, 5802]	6587	[4586, 2688]
1542	[2595, 2596]	3224	[4752, 144]	4906	[5936, 3346]	6588	[5377, 732]
1543	[2597, 181]	3225	[2579, 2518]	4907	[5652, 1746]	6589	[4788, 1948]
1544	[1812, 2598]	3226	[4753, 4630]	4908	[5868, 3460]	6590	[2598, 6385]
1545	[2570, 528]	3227	[4754, 4755]	4909	[5937, 5938]	6591	[6528, 5083]
1546	[2599, 1879]	3228	[4756, 2518]	4910	[5572, 3717]	6592	[6712, 1978]
1547	[2531, 2600]	3229	[4674, 180]	4911	[116, 5939]	6593	[2090, 5126]
1548	[2237, 2601]	3230	[4757, 2758]	4912	[3532, 5940]	6594	[150, 209]
1549	[2276, 635]	3231	[4758, 4697]	4913	[3478, 1205]	6595	[6519, 4767]
1550	[47, 2106]	3232	[4759, 2471]	4914	[5941, 5942]	6596	[4785, 6468]
1551	[2377, 2602]	3233	[4436, 4760]	4915	[5943, 5944]	6597	[6713, 6447]
1552	[2379, 1927]	3234	[2494, 900]	4916	[3952, 5945]	6598	[2721, 5182]
1553	[2603, 2604]	3235	[4581, 4713]	4917	[5732, 5946]	6599	[6560, 4770]
1554	[2605, 2209]	3236	[2632, 2222]	4918	[2933, 5947]	6600	[4601, 2502]
1555	[2606, 2607]	3237	[4761, 4762]	4919	[5948, 5949]	6601	[693, 2400]
1556	[2608, 2609]	3238	[4763, 2143]	4920	[5950, 3573]	6602	[6514, 6563]
1557	[2610, 2002]	3239	[780, 2752]	4921	[5951, 5952]	6603	[2252, 1925]
1558	[2611, 1866]	3240	[4764, 2483]	4922	[5636, 4298]	6604	[5385, 1892]
1559	[2612, 532]	3241	[4765, 1858]	4923	[1528, 1586]	6605	[188, 4803]
1560	[536, 2613]	3242	[4766, 683]	4924	[1361, 5953]	6606	[4720, 1958]
1561	[1850, 2614]	3243	[4767, 670]	4925	[5954, 5439]	6607	[1899, 5383]
1562	[811, 2615]	3244	[2828, 2504]	4926	[5955, 5956]	6608	[2032, 4724]
1563	[2616, 513]	3245	[4768, 2493]	4927	[3515, 3635]	6609	[4996, 218]
1564	[1877, 2617]	3246	[4769, 2744]	4928	[5957, 3605]	6610	[4969, 6531]
1565	[2102, 2618]	3247	[4770, 2505]	4929	[1138, 5958]	6611	[1874, 6501]
1566	[2417, 2619]	3248	[4771, 2450]	4930	[3170, 4163]	6612	[5311, 6407]
1567	[2620, 2621]	3249	[851, 2506]	4931	[5959, 1466]	6613	[5282, 2167]
1568	[2622, 2300]	3250	[221, 4411]	4932	[3697, 4014]	6614	[5111, 4426]
1569	[2623, 924]	3251	[4772, 1871]	4933	[1625, 5960]	6615	[5213, 4680]
1570	[2624, 2311]	3252	[2236, 2416]	4934	[5961, 5962]	6616	[6497, 4767]
1571	[2625, 2626]	3253	[4773, 2388]	4935	[5963, 4250]	6617	[5254, 2678]
1572	[2627, 2628]	3254	[2280, 4730]	4936	[5964, 1638]	6618	[6549, 4635]
1573	[2380, 2629]	3255	[4487, 4774]	4937	[5585, 5965]	6619	[5179, 4739]
1574	[510, 2630]	3256	[4488, 2534]	4938	[5398, 5966]	6620	[6714, 610]
1575	[916, 2369]	3257	[879, 814]	4939	[5967, 323]	6621	[2687, 2508]
1576	[2631, 2632]	3258	[4775, 4776]	4940	[5944, 3939]	6622	[6715, 623]
1577	[876, 2633]	3259	[4777, 4778]	4941	[3716, 3848]	6623	[6714, 2126]
1578	[2634, 2635]	3260	[4779, 4780]	4942	[1401, 5968]	6624	[1981, 5373]
1579	[1784, 2636]	3261	[4781, 4782]	4943	[5969, 5970]	6625	[4781, 6425]
1580	[2637, 2638]	3262	[4783, 4784]	4944	[5971, 1282]	6626	[802, 6353]

1581	[1756, 1974]	3263	[4785, 4785]	4945	[5972, 5973]	6627	[6529, 6521]
1582	[129, 2379]	3264	[4786, 4787]	4946	[5974, 5975]	6628	[4961, 5206]
1583	[2639, 2640]	3265	[2698, 4788]	4947	[5777, 5927]	6629	[6409, 2003]
1584	[2641, 2642]	3266	[4789, 4790]	4948	[4310, 5976]	6630	[6553, 6349]
1585	[2150, 786]	3267	[4791, 4792]	4949	[5977, 5978]	6631	[6564, 2008]
1586	[2643, 2644]	3268	[4793, 629]	4950	[3628, 1744]	6632	[845, 4960]
1587	[2576, 142]	3269	[2787, 4575]	4951	[5923, 5979]	6633	[2336, 5169]
1588	[2397, 2645]	3270	[2068, 4733]	4952	[1497, 5980]	6634	[5129, 237]
1589	[2646, 2647]	3271	[4535, 2441]	4953	[5981, 5754]	6635	[6558, 6716]
1590	[2648, 2649]	3272	[1955, 4794]	4954	[5982, 5983]	6636	[2123, 2687]
1591	[2650, 1903]	3273	[4795, 4571]	4955	[5984, 3277]	6637	[6483, 166]
1592	[39, 2651]	3274	[582, 919]	4956	[4378, 5985]	6638	[6412, 6445]
1593	[2652, 2653]	3275	[2021, 4796]	4957	[5986, 5987]	6639	[2647, 6399]
1594	[2654, 2655]	3276	[2239, 2602]	4958	[5988, 2932]	6640	[5359, 6508]
1595	[2656, 2657]	3277	[4797, 2569]	4959	[3150, 5671]	6641	[1873, 2815]
1596	[2658, 2639]	3278	[2369, 4798]	4960	[483, 1574]	6642	[6348, 6554]
1597	[1963, 2603]	3279	[4799, 4800]	4961	[1482, 5989]	6643	[2362, 5393]
1598	[2109, 2107]	3280	[859, 1899]	4962	[5924, 3245]	6644	[1873, 6545]
1599	[2160, 2155]	3281	[2396, 923]	4963	[5990, 3856]	6645	[4807, 4488]
1600	[2297, 2659]	3282	[4801, 4802]	4964	[4007, 491]	6646	[2693, 4790]
1601	[2156, 2660]	3283	[4721, 1856]	4965	[5991, 5521]	6647	[2771, 4951]
1602	[2661, 2662]	3284	[4485, 4803]	4966	[5992, 5993]	6648	[6492, 2658]
1603	[2663, 2664]	3285	[185, 4519]	4967	[3667, 5576]	6649	[4584, 845]
1604	[2118, 2104]	3286	[4766, 4652]	4968	[5994, 1443]	6650	[5368, 2200]
1605	[922, 2397]	3287	[4804, 1908]	4969	[3950, 5995]	6651	[1881, 5375]
1606	[2188, 2031]	3288	[2433, 4805]	4970	[3180, 2956]	6652	[4979, 6522]
1607	[2665, 178]	3289	[169, 4806]	4971	[5996, 5997]	6653	[2122, 2686]
1608	[2666, 2667]	3290	[691, 4807]	4972	[5998, 5999]	6654	[6717, 6550]
1609	[2668, 244]	3291	[2179, 2122]	4973	[6000, 6001]	6655	[697, 6548]
1610	[937, 2669]	3292	[4808, 4809]	4974	[6002, 6003]	6656	[899, 6530]
1611	[2670, 2671]	3293	[4810, 563]	4975	[4283, 3609]	6657	[6515, 173]
1612	[2672, 1931]	3294	[627, 859]	4976	[6004, 3345]	6658	[6712, 251]
1613	[2673, 2674]	3295	[598, 4811]	4977	[6005, 6006]	6659	[5268, 6507]
1614	[2675, 1994]	3296	[4812, 4813]	4978	[5440, 6007]	6660	[6718, 2507]
1615	[2676, 1786]	3297	[4814, 2233]	4979	[3326, 6008]	6661	[1951, 4762]
1616	[2677, 2678]	3298	[4815, 4816]	4980	[3373, 6009]	6662	[5162, 507]
1617	[678, 2679]	3299	[4817, 4818]	4981	[6010, 1256]	6663	[4802, 6435]
1618	[2680, 2681]	3300	[892, 4589]	4982	[5615, 5519]	6664	[13, 1782]
1619	[2682, 2101]	3301	[4568, 924]	4983	[5489, 6011]	6665	[2039, 742]
1620	[2683, 129]	3302	[4819, 4668]	4984	[5828, 1094]	6666	[6434, 5365]
1621	[881, 2548]	3303	[2634, 4794]	4985	[6012, 4219]	6667	[6719, 4653]
1622	[2684, 2685]	3304	[4630, 932]	4986	[6013, 6014]	6668	[5265, 6482]
1623	[2686, 2687]	3305	[517, 772]	4987	[6015, 6016]	6669	[6718, 2048]
1624	[2124, 2688]	3306	[2074, 2249]	4988	[6017, 443]	6670	[4489, 6396]

1625	[2689, 1946]	3307	[4488, 4663]	4989	[6018, 3681]	6671	[5063, 5057]
1626	[2690, 2691]	3308	[2757, 4820]	4990	[6019, 3307]	6672	[5360, 2049]
1627	[2692, 1865]	3309	[4821, 912]	4991	[3405, 6020]	6673	[6715, 5135]
1628	[2693, 2694]	3310	[2238, 4822]	4992	[3895, 4104]	6674	[6534, 2101]
1629	[2695, 2696]	3311	[4417, 4823]	4993	[6021, 3021]	6675	[2686, 5099]
1630	[2697, 888]	3312	[595, 630]	4994	[6022, 4288]	6676	[6717, 2051]
1631	[730, 2698]	3313	[4824, 4480]	4995	[6023, 408]	6677	[6541, 781]
1632	[2699, 2700]	3314	[4825, 4826]	4996	[5426, 435]	6678	[2746, 4867]
1633	[2701, 2702]	3315	[2752, 2221]	4997	[6024, 5630]	6679	[2721, 2136]
1634	[249, 2703]	3316	[4827, 2646]	4998	[3267, 6025]	6680	[6565, 6716]
1635	[2704, 2705]	3317	[2100, 4828]	4999	[4213, 5438]	6681	[1917, 6504]
1636	[671, 2528]	3318	[4829, 2254]	5000	[6026, 3079]	6682	[163, 693]
1637	[2638, 2617]	3319	[2533, 4663]	5001	[6027, 6028]	6683	[6540, 5101]
1638	[2583, 2706]	3320	[4830, 2252]	5002	[2854, 6029]	6684	[6506, 2446]
1639	[2707, 2708]	3321	[4831, 4832]	5003	[1038, 6030]	6685	[4776, 2525]
1640	[2709, 1896]	3322	[4833, 2603]	5004	[6031, 1483]	6686	[245, 940]
1641	[53, 2710]	3323	[699, 4834]	5005	[3945, 5680]	6687	[801, 1776]
1642	[784, 2711]	3324	[4835, 2579]	5006	[3871, 6032]	6688	[6520, 6415]
1643	[2712, 2713]	3325	[2824, 41]	5007	[3621, 5761]	6689	[5320, 2827]
1644	[2714, 2715]	3326	[4431, 4836]	5008	[6033, 6034]	6690	[2362, 5345]
1645	[1786, 2477]	3327	[4837, 4703]	5009	[6035, 4330]	6691	[554, 2627]
1646	[143, 2716]	3328	[730, 2809]	5010	[3619, 6036]	6692	[6391, 619]
1647	[2717, 2718]	3329	[4838, 4839]	5011	[3467, 6037]	6693	[6468, 4785]
1648	[2635, 2719]	3330	[4840, 4841]	5012	[3253, 6038]	6694	[6562, 2334]
1649	[2720, 2721]	3331	[1769, 4693]	5013	[6039, 6040]	6695	[856, 4890]
1650	[2722, 796]	3332	[4842, 4843]	5014	[6041, 5913]	6696	[6720, 6397]
1651	[841, 1868]	3333	[4844, 579]	5015	[6042, 6043]	6697	[5358, 5068]
1652	[918, 2244]	3334	[4845, 4846]	5016	[6044, 2903]	6698	[4944, 6455]
1653	[739, 2022]	3335	[4847, 4848]	5017	[6045, 4346]	6699	[6495, 4408]
1654	[2459, 1863]	3336	[4849, 4850]	5018	[6046, 5725]	6700	[4973, 6500]
1655	[2212, 2203]	3337	[2213, 4851]	5019	[6047, 6048]	6701	[5075, 2566]
1656	[2723, 699]	3338	[4852, 45]	5020	[4319, 6049]	6702	[6719, 2755]
1657	[1859, 2724]	3339	[4853, 4854]	5021	[1405, 5593]	6703	[6561, 6427]
1658	[2725, 869]	3340	[4758, 4545]	5022	[6050, 6051]	6704	[5062, 684]
1659	[2726, 2727]	3341	[4855, 4856]	5023	[5980, 6052]	6705	[4585, 2122]
1660	[2728, 1932]	3342	[1854, 4857]	5024	[5881, 6012]	6706	[6720, 4841]
1661	[2729, 2730]	3343	[2788, 2149]	5025	[3294, 4026]	6707	[4853, 2652]
1662	[2731, 2732]	3344	[2822, 2282]	5026	[6053, 6054]	6708	[2268, 5292]
1663	[607, 764]	3345	[4858, 1940]	5027	[6055, 6056]	6709	[6499, 4974]
1664	[2733, 2734]	3346	[634, 2277]	5028	[6057, 1126]	6710	[5198, 4777]
1665	[2735, 2721]	3347	[2357, 1818]	5029	[6020, 5405]	6711	[6721, 4302]
1666	[2536, 2736]	3348	[4859, 4860]	5030	[1406, 6058]	6712	[6112, 499]
1667	[2737, 2738]	3349	[4861, 902]	5031	[6059, 3215]	6713	[268, 6618]
1668	[2739, 2226]	3350	[4862, 4760]	5032	[6060, 1685]	6714	[5922, 6250]

1669	[2740, 2741]	3351	[4598, 4863]	5033	[6061, 6021]	6715	[1707, 4245]
1670	[2742, 1981]	3352	[4864, 4865]	5034	[6062, 4242]	6716	[6722, 6723]
1671	[2743, 2172]	3353	[1876, 2638]	5035	[5464, 6063]	6717	[1367, 1417]
1672	[2471, 2744]	3354	[133, 2325]	5036	[3442, 6026]	6718	[6665, 6265]
1673	[2745, 2746]	3355	[4866, 2763]	5037	[3471, 1315]	6719	[6100, 4258]
1674	[232, 2253]	3356	[4867, 4868]	5038	[6064, 4147]	6720	[68, 6203]
1675	[881, 2747]	3357	[2614, 534]	5039	[6065, 6066]	6721	[6724, 2262]
1676	[2748, 2749]	3358	[2466, 2773]	5040	[3604, 6067]	6722	[621, 5065]
1677	[2750, 2698]	3359	[4869, 4870]	5041	[1225, 3715]	6723	[6713, 696]
1678	[2013, 2751]	3360	[1999, 900]	5042	[6068, 6069]	6724	[6725, 3298]
1679	[2752, 1950]	3361	[4710, 4871]	5043	[4318, 6070]	6725	[31, 2183]
1680	[847, 2753]	3362	[2608, 4872]	5044	[6071, 6072]		
1681	[2754, 688]	3363	[2535, 4873]	5045	[3548, 4054]		

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

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1122	1	2244	1	3366	0	4488	1	5610	1
1	0	1123	0	2245	1	3367	0	4489	0	5611	1
2	0	1124	0	2246	0	3368	0	4490	1	5612	0
3	0	1125	1	2247	0	3369	1	4491	1	5613	0
4	0	1126	0	2248	1	3370	0	4492	1	5614	1
5	0	1127	1	2249	0	3371	1	4493	1	5615	0
6	0	1128	0	2250	0	3372	0	4494	0	5616	1
7	0	1129	1	2251	0	3373	1	4495	0	5617	0
8	0	1130	1	2252	0	3374	1	4496	0	5618	0
9	0	1131	0	2253	0	3375	0	4497	0	5619	0
10	1	1132	0	2254	0	3376	1	4498	1	5620	1
11	0	1133	1	2255	1	3377	0	4499	1	5621	0
12	1	1134	0	2256	1	3378	0	4500	1	5622	1
13	0	1135	1	2257	1	3379	0	4501	0	5623	0
14	1	1136	0	2258	0	3380	0	4502	1	5624	1
15	0	1137	1	2259	1	3381	0	4503	1	5625	1
16	0	1138	1	2260	1	3382	0	4504	1	5626	1
17	0	1139	1	2261	1	3383	1	4505	0	5627	1
18	0	1140	0	2262	0	3384	0	4506	1	5628	0
19	0	1141	0	2263	0	3385	0	4507	1	5629	0
20	0	1142	1	2264	1	3386	1	4508	1	5630	0
21	1	1143	1	2265	0	3387	1	4509	0	5631	0
22	0	1144	0	2266	1	3388	0	4510	1	5632	1
23	0	1145	0	2267	1	3389	0	4511	0	5633	0
24	0	1146	0	2268	0	3390	0	4512	0	5634	0
25	1	1147	0	2269	1	3391	1	4513	0	5635	0
26	1	1148	0	2270	1	3392	1	4514	1	5636	0
27	0	1149	0	2271	1	3393	1	4515	0	5637	0

28	1	1150	0	2272	0	3394	0	4516	0	5638	0
29	1	1151	0	2273	0	3395	0	4517	1	5639	0
30	1	1152	1	2274	0	3396	0	4518	0	5640	1
31	0	1153	1	2275	0	3397	1	4519	1	5641	0
32	0	1154	0	2276	1	3398	0	4520	0	5642	1
33	0	1155	0	2277	1	3399	1	4521	0	5643	1
34	1	1156	1	2278	0	3400	0	4522	1	5644	0
35	0	1157	0	2279	1	3401	1	4523	0	5645	1
36	0	1158	0	2280	1	3402	1	4524	0	5646	1
37	0	1159	0	2281	1	3403	0	4525	0	5647	1
38	0	1160	0	2282	1	3404	1	4526	1	5648	0
39	0	1161	0	2283	1	3405	1	4527	1	5649	0
40	1	1162	1	2284	0	3406	0	4528	0	5650	0
41	0	1163	0	2285	0	3407	0	4529	0	5651	0
42	0	1164	1	2286	1	3408	1	4530	0	5652	0
43	1	1165	1	2287	0	3409	1	4531	0	5653	1
44	1	1166	1	2288	0	3410	1	4532	1	5654	1
45	0	1167	1	2289	0	3411	0	4533	1	5655	1
46	0	1168	1	2290	0	3412	1	4534	1	5656	1
47	0	1169	1	2291	0	3413	1	4535	1	5657	0
48	1	1170	1	2292	0	3414	1	4536	0	5658	1
49	0	1171	1	2293	0	3415	1	4537	0	5659	0
50	1	1172	1	2294	1	3416	0	4538	0	5660	0
51	1	1173	1	2295	0	3417	0	4539	0	5661	0
52	1	1174	1	2296	0	3418	0	4540	0	5662	0
53	1	1175	0	2297	1	3419	0	4541	1	5663	1
54	0	1176	0	2298	0	3420	1	4542	1	5664	0
55	0	1177	0	2299	1	3421	1	4543	1	5665	1
56	0	1178	1	2300	1	3422	0	4544	1	5666	0
57	1	1179	0	2301	1	3423	0	4545	1	5667	0
58	0	1180	1	2302	0	3424	0	4546	0	5668	0
59	1	1181	1	2303	1	3425	0	4547	1	5669	1
60	0	1182	1	2304	1	3426	0	4548	1	5670	0
61	1	1183	1	2305	0	3427	0	4549	0	5671	0
62	1	1184	1	2306	0	3428	1	4550	1	5672	1
63	0	1185	0	2307	1	3429	1	4551	1	5673	0
64	1	1186	1	2308	0	3430	0	4552	1	5674	1
65	0	1187	0	2309	1	3431	1	4553	1	5675	1
66	0	1188	1	2310	1	3432	1	4554	1	5676	1
67	0	1189	0	2311	1	3433	1	4555	1	5677	1
68	1	1190	1	2312	1	3434	1	4556	0	5678	0
69	1	1191	1	2313	0	3435	1	4557	1	5679	1
70	1	1192	1	2314	1	3436	0	4558	0	5680	0
71	0	1193	0	2315	1	3437	0	4559	0	5681	0

72	1	1194	0	2316	0	3438	1	4560	1	5682	0
73	0	1195	0	2317	0	3439	1	4561	1	5683	0
74	0	1196	1	2318	1	3440	1	4562	0	5684	0
75	0	1197	0	2319	0	3441	0	4563	1	5685	1
76	1	1198	1	2320	0	3442	1	4564	1	5686	0
77	0	1199	1	2321	1	3443	0	4565	1	5687	0
78	0	1200	0	2322	1	3444	0	4566	1	5688	1
79	0	1201	1	2323	0	3445	1	4567	0	5689	0
80	0	1202	0	2324	0	3446	0	4568	1	5690	0
81	1	1203	0	2325	0	3447	1	4569	1	5691	0
82	0	1204	1	2326	1	3448	0	4570	1	5692	1
83	0	1205	0	2327	1	3449	1	4571	0	5693	0
84	0	1206	0	2328	1	3450	0	4572	1	5694	0
85	0	1207	0	2329	1	3451	1	4573	0	5695	1
86	0	1208	0	2330	0	3452	0	4574	0	5696	1
87	1	1209	1	2331	1	3453	0	4575	1	5697	1
88	0	1210	0	2332	1	3454	0	4576	0	5698	0
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91	0	1213	1	2335	1	3457	0	4579	0	5701	1
92	1	1214	0	2336	1	3458	0	4580	0	5702	0
93	0	1215	1	2337	1	3459	1	4581	1	5703	0
94	0	1216	1	2338	0	3460	1	4582	0	5704	0
95	0	1217	0	2339	1	3461	1	4583	0	5705	1
96	0	1218	0	2340	0	3462	1	4584	1	5706	1
97	1	1219	1	2341	0	3463	0	4585	0	5707	0
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99	0	1221	0	2343	1	3465	0	4587	1	5709	1
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101	1	1223	0	2345	0	3467	0	4589	0	5711	0
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103	1	1225	1	2347	1	3469	0	4591	0	5713	1
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118	1	1240	0	2362	0	3484	0	4606	0	5728	0
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123	1	1245	1	2367	1	3489	1	4611	1	5733	1
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144	0	1266	1	2388	0	3510	1	4632	1	5754	1
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151	0	1273	1	2395	1	3517	1	4639	0	5761	0
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154	1	1276	1	2398	0	3520	0	4642	1	5764	1
155	0	1277	1	2399	0	3521	0	4643	1	5765	0
156	1	1278	0	2400	1	3522	1	4644	1	5766	0
157	0	1279	0	2401	0	3523	0	4645	1	5767	0
158	1	1280	0	2402	0	3524	1	4646	0	5768	1
159	0	1281	0	2403	1	3525	0	4647	1	5769	0

160	1	1282	1	2404	1	3526	0	4648	0	5770	0
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162	0	1284	1	2406	0	3528	1	4650	1	5772	1
163	1	1285	0	2407	1	3529	1	4651	0	5773	1
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165	0	1287	1	2409	0	3531	1	4653	1	5775	1
166	1	1288	0	2410	0	3532	1	4654	0	5776	0
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168	0	1290	1	2412	0	3534	1	4656	0	5778	0
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170	0	1292	0	2414	1	3536	0	4658	1	5780	1
171	0	1293	0	2415	1	3537	0	4659	0	5781	1
172	1	1294	1	2416	0	3538	0	4660	1	5782	0
173	0	1295	1	2417	0	3539	1	4661	0	5783	0
174	1	1296	0	2418	1	3540	0	4662	1	5784	1
175	1	1297	0	2419	0	3541	0	4663	1	5785	1
176	1	1298	0	2420	0	3542	0	4664	0	5786	0
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178	1	1300	1	2422	1	3544	0	4666	1	5788	1
179	1	1301	0	2423	0	3545	0	4667	0	5789	1
180	1	1302	0	2424	0	3546	1	4668	0	5790	0
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182	1	1304	1	2426	1	3548	0	4670	0	5792	0
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184	0	1306	0	2428	1	3550	0	4672	0	5794	0
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186	0	1308	1	2430	1	3552	1	4674	0	5796	0
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188	0	1310	1	2432	1	3554	0	4676	0	5798	1
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197	1	1319	1	2441	1	3563	1	4685	0	5807	0
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199	0	1321	1	2443	0	3565	1	4687	1	5809	0
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237	1	1359	0	2481	0	3603	1	4725	1	5847	1
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342	1	1464	0	2586	1	3708	1	4830	1	5952	0
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344	1	1466	1	2588	1	3710	1	4832	0	5954	1
345	0	1467	1	2589	1	3711	0	4833	0	5955	0
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347	1	1469	0	2591	0	3713	0	4835	0	5957	0
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349	1	1471	0	2593	1	3715	1	4837	1	5959	0
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352	0	1474	1	2596	1	3718	0	4840	0	5962	0
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359	1	1481	0	2603	1	3725	0	4847	0	5969	0
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361	1	1483	1	2605	0	3727	0	4849	1	5971	1
362	1	1484	1	2606	1	3728	1	4850	0	5972	0
363	1	1485	0	2607	1	3729	0	4851	0	5973	1
364	0	1486	1	2608	1	3730	1	4852	0	5974	0
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366	0	1488	0	2610	1	3732	1	4854	1	5976	1
367	0	1489	1	2611	0	3733	0	4855	1	5977	0
368	1	1490	1	2612	1	3734	0	4856	0	5978	1
369	1	1491	1	2613	1	3735	0	4857	1	5979	0
370	0	1492	1	2614	0	3736	0	4858	0	5980	0
371	0	1493	1	2615	0	3737	1	4859	0	5981	1
372	0	1494	1	2616	1	3738	1	4860	1	5982	0
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374	0	1496	0	2618	0	3740	0	4862	1	5984	1
375	0	1497	1	2619	1	3741	0	4863	0	5985	1
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379	1	1501	0	2623	0	3745	1	4867	0	5989	0

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383	0	1505	0	2627	0	3749	1	4871	1	5993	0
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393	1	1515	1	2637	0	3759	1	4881	0	6003	0
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417	1	1539	0	2661	0	3783	1	4905	0	6027	0
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419	1	1541	0	2663	0	3785	0	4907	0	6029	0
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421	1	1543	0	2665	1	3787	1	4909	1	6031	1
422	0	1544	0	2666	0	3788	0	4910	0	6032	0
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611	0	1733	0	2855	1	3977	0	5099	0	6221	0
612	1	1734	1	2856	1	3978	0	5100	1	6222	0
613	0	1735	0	2857	0	3979	0	5101	0	6223	1
614	1	1736	0	2858	0	3980	1	5102	0	6224	1
615	0	1737	0	2859	0	3981	0	5103	1	6225	0
616	0	1738	1	2860	1	3982	0	5104	0	6226	0
617	1	1739	0	2861	0	3983	0	5105	1	6227	0
618	1	1740	0	2862	0	3984	1	5106	1	6228	0
619	1	1741	1	2863	0	3985	0	5107	0	6229	0
620	1	1742	0	2864	1	3986	1	5108	0	6230	0
621	1	1743	1	2865	1	3987	1	5109	1	6231	1
622	1	1744	1	2866	0	3988	0	5110	1	6232	0
623	1	1745	0	2867	1	3989	1	5111	1	6233	0
624	0	1746	0	2868	1	3990	0	5112	0	6234	0
625	1	1747	1	2869	0	3991	1	5113	1	6235	0
626	1	1748	0	2870	0	3992	1	5114	0	6236	0
627	1	1749	1	2871	1	3993	1	5115	0	6237	1
628	1	1750	1	2872	0	3994	0	5116	1	6238	1
629	0	1751	0	2873	0	3995	0	5117	0	6239	1
630	0	1752	0	2874	0	3996	1	5118	1	6240	1
631	0	1753	1	2875	1	3997	0	5119	1	6241	1
632	1	1754	0	2876	1	3998	0	5120	0	6242	1
633	0	1755	1	2877	1	3999	0	5121	1	6243	0
634	0	1756	1	2878	0	4000	0	5122	1	6244	1
635	0	1757	1	2879	0	4001	1	5123	0	6245	0
636	1	1758	1	2880	1	4002	1	5124	0	6246	1
637	0	1759	0	2881	0	4003	1	5125	1	6247	1
638	1	1760	0	2882	1	4004	1	5126	1	6248	1
639	1	1761	1	2883	1	4005	0	5127	1	6249	1
640	0	1762	1	2884	1	4006	0	5128	0	6250	1
641	0	1763	1	2885	0	4007	1	5129	1	6251	0
642	0	1764	0	2886	0	4008	0	5130	0	6252	1
643	0	1765	0	2887	0	4009	0	5131	1	6253	0

644	0	1766	0	2888	0	4010	1	5132	0	6254	1
645	0	1767	0	2889	1	4011	1	5133	0	6255	0
646	0	1768	1	2890	1	4012	1	5134	0	6256	1
647	1	1769	1	2891	1	4013	1	5135	0	6257	0
648	0	1770	0	2892	0	4014	1	5136	0	6258	0
649	1	1771	0	2893	0	4015	1	5137	0	6259	1
650	1	1772	0	2894	1	4016	1	5138	1	6260	1
651	0	1773	0	2895	0	4017	0	5139	1	6261	0
652	1	1774	0	2896	0	4018	1	5140	1	6262	1
653	0	1775	0	2897	0	4019	1	5141	1	6263	1
654	1	1776	1	2898	0	4020	1	5142	1	6264	0
655	1	1777	0	2899	1	4021	0	5143	1	6265	1
656	0	1778	1	2900	0	4022	0	5144	1	6266	0
657	0	1779	1	2901	1	4023	1	5145	0	6267	0
658	0	1780	0	2902	0	4024	0	5146	1	6268	1
659	0	1781	1	2903	0	4025	0	5147	1	6269	1
660	1	1782	0	2904	1	4026	0	5148	0	6270	1
661	0	1783	0	2905	1	4027	0	5149	1	6271	0
662	1	1784	1	2906	1	4028	0	5150	0	6272	1
663	1	1785	0	2907	1	4029	0	5151	1	6273	1
664	0	1786	1	2908	0	4030	1	5152	0	6274	0
665	0	1787	0	2909	0	4031	0	5153	0	6275	0
666	0	1788	0	2910	1	4032	1	5154	0	6276	0
667	0	1789	1	2911	1	4033	0	5155	0	6277	0
668	0	1790	1	2912	0	4034	0	5156	0	6278	1
669	1	1791	0	2913	0	4035	0	5157	0	6279	1
670	1	1792	1	2914	1	4036	0	5158	0	6280	0
671	1	1793	1	2915	0	4037	0	5159	0	6281	0
672	1	1794	1	2916	0	4038	0	5160	1	6282	0
673	1	1795	0	2917	1	4039	1	5161	1	6283	0
674	0	1796	1	2918	0	4040	1	5162	0	6284	0
675	0	1797	0	2919	0	4041	0	5163	0	6285	1
676	0	1798	1	2920	0	4042	1	5164	1	6286	1
677	0	1799	0	2921	1	4043	1	5165	1	6287	0
678	1	1800	0	2922	0	4044	0	5166	0	6288	0
679	0	1801	0	2923	0	4045	1	5167	1	6289	0
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681	1	1803	0	2925	1	4047	0	5169	0	6291	1
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683	0	1805	1	2927	1	4049	1	5171	1	6293	1
684	1	1806	1	2928	1	4050	1	5172	1	6294	0
685	1	1807	1	2929	0	4051	0	5173	0	6295	0
686	1	1808	1	2930	1	4052	1	5174	0	6296	0
687	0	1809	0	2931	1	4053	1	5175	1	6297	1

688	1	1810	0	2932	0	4054	0	5176	0	6298	0
689	0	1811	1	2933	1	4055	0	5177	0	6299	1
690	0	1812	0	2934	0	4056	0	5178	0	6300	1
691	1	1813	0	2935	0	4057	0	5179	0	6301	1
692	0	1814	0	2936	1	4058	0	5180	0	6302	0
693	1	1815	0	2937	0	4059	0	5181	0	6303	1
694	0	1816	0	2938	0	4060	1	5182	0	6304	1
695	1	1817	0	2939	0	4061	1	5183	1	6305	1
696	1	1818	1	2940	0	4062	0	5184	1	6306	0
697	0	1819	0	2941	1	4063	1	5185	1	6307	1
698	1	1820	0	2942	0	4064	0	5186	1	6308	0
699	0	1821	1	2943	1	4065	0	5187	1	6309	1
700	1	1822	1	2944	0	4066	0	5188	1	6310	1
701	1	1823	0	2945	0	4067	0	5189	0	6311	1
702	1	1824	1	2946	1	4068	1	5190	1	6312	1
703	1	1825	0	2947	0	4069	1	5191	1	6313	1
704	1	1826	0	2948	0	4070	0	5192	0	6314	0
705	0	1827	1	2949	0	4071	0	5193	0	6315	1
706	1	1828	0	2950	1	4072	0	5194	1	6316	0
707	1	1829	1	2951	0	4073	1	5195	1	6317	0
708	1	1830	0	2952	1	4074	1	5196	0	6318	0
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712	1	1834	1	2956	0	4078	1	5200	1	6322	1
713	0	1835	0	2957	0	4079	0	5201	0	6323	0
714	0	1836	0	2958	1	4080	1	5202	1	6324	0
715	1	1837	0	2959	1	4081	1	5203	0	6325	0
716	0	1838	1	2960	0	4082	1	5204	1	6326	1
717	1	1839	0	2961	1	4083	1	5205	0	6327	1
718	0	1840	1	2962	0	4084	1	5206	1	6328	0
719	0	1841	1	2963	0	4085	1	5207	0	6329	0
720	0	1842	0	2964	0	4086	1	5208	1	6330	0
721	0	1843	0	2965	1	4087	0	5209	1	6331	1
722	1	1844	0	2966	0	4088	1	5210	1	6332	0
723	0	1845	0	2967	0	4089	1	5211	1	6333	0
724	1	1846	0	2968	1	4090	1	5212	0	6334	0
725	0	1847	1	2969	1	4091	1	5213	0	6335	1
726	0	1848	0	2970	0	4092	1	5214	0	6336	0
727	0	1849	1	2971	1	4093	1	5215	1	6337	0
728	1	1850	0	2972	1	4094	1	5216	1	6338	1
729	1	1851	1	2973	0	4095	1	5217	0	6339	1
730	0	1852	1	2974	0	4096	0	5218	1	6340	0
731	0	1853	1	2975	0	4097	0	5219	0	6341	1

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733	1	1855	1	2977	0	4099	0	5221	0	6343	0
734	1	1856	1	2978	1	4100	1	5222	0	6344	1
735	0	1857	1	2979	1	4101	1	5223	1	6345	1
736	0	1858	1	2980	0	4102	0	5224	1	6346	0
737	1	1859	1	2981	1	4103	1	5225	0	6347	1
738	0	1860	0	2982	1	4104	0	5226	0	6348	0
739	1	1861	0	2983	1	4105	1	5227	0	6349	1
740	1	1862	0	2984	0	4106	1	5228	1	6350	0
741	1	1863	1	2985	0	4107	1	5229	1	6351	1
742	0	1864	0	2986	1	4108	0	5230	1	6352	1
743	1	1865	0	2987	0	4109	0	5231	1	6353	0
744	1	1866	1	2988	0	4110	1	5232	1	6354	1
745	0	1867	1	2989	0	4111	1	5233	1	6355	1
746	0	1868	1	2990	0	4112	1	5234	1	6356	0
747	1	1869	0	2991	1	4113	0	5235	1	6357	0
748	1	1870	1	2992	0	4114	1	5236	0	6358	0
749	0	1871	0	2993	1	4115	1	5237	1	6359	0
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751	1	1873	0	2995	0	4117	0	5239	1	6361	0
752	1	1874	0	2996	0	4118	0	5240	0	6362	0
753	0	1875	1	2997	1	4119	0	5241	0	6363	1
754	1	1876	1	2998	1	4120	1	5242	0	6364	0
755	1	1877	0	2999	0	4121	0	5243	0	6365	1
756	1	1878	0	3000	1	4122	0	5244	1	6366	0
757	1	1879	1	3001	1	4123	1	5245	1	6367	0
758	1	1880	1	3002	1	4124	0	5246	0	6368	0
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762	1	1884	1	3006	1	4128	0	5250	1	6372	0
763	0	1885	1	3007	1	4129	1	5251	0	6373	0
764	0	1886	0	3008	0	4130	1	5252	0	6374	0
765	0	1887	0	3009	1	4131	0	5253	0	6375	1
766	1	1888	1	3010	1	4132	1	5254	1	6376	1
767	1	1889	1	3011	1	4133	1	5255	0	6377	1
768	0	1890	1	3012	1	4134	1	5256	0	6378	1
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770	0	1892	0	3014	1	4136	0	5258	0	6380	0
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772	1	1894	1	3016	1	4138	0	5260	0	6382	0
773	1	1895	1	3017	0	4139	0	5261	0	6383	1
774	1	1896	1	3018	1	4140	1	5262	1	6384	0
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776	1	1898	0	3020	1	4142	1	5264	0	6386	0
777	0	1899	0	3021	1	4143	1	5265	1	6387	1
778	1	1900	0	3022	0	4144	1	5266	1	6388	0
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780	0	1902	0	3024	0	4146	1	5268	1	6390	1
781	0	1903	1	3025	1	4147	1	5269	0	6391	0
782	1	1904	0	3026	1	4148	1	5270	0	6392	0
783	0	1905	0	3027	0	4149	1	5271	1	6393	1
784	1	1906	1	3028	1	4150	0	5272	1	6394	0
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787	1	1909	0	3031	1	4153	0	5275	1	6397	0
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789	0	1911	0	3033	1	4155	0	5277	0	6399	1
790	0	1912	1	3034	0	4156	1	5278	1	6400	1
791	1	1913	0	3035	1	4157	1	5279	1	6401	0
792	0	1914	0	3036	0	4158	1	5280	1	6402	0
793	0	1915	0	3037	1	4159	0	5281	1	6403	1
794	0	1916	1	3038	1	4160	1	5282	1	6404	0
795	1	1917	1	3039	1	4161	1	5283	1	6405	1
796	1	1918	1	3040	1	4162	1	5284	1	6406	1
797	1	1919	0	3041	1	4163	1	5285	1	6407	0
798	1	1920	0	3042	0	4164	0	5286	1	6408	0
799	0	1921	1	3043	0	4165	1	5287	0	6409	0
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801	1	1923	1	3045	0	4167	1	5289	0	6411	1
802	0	1924	1	3046	1	4168	1	5290	0	6412	0
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804	0	1926	1	3048	1	4170	0	5292	0	6414	0
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806	1	1928	0	3050	0	4172	1	5294	0	6416	1
807	1	1929	0	3051	1	4173	1	5295	1	6417	0
808	0	1930	0	3052	1	4174	0	5296	0	6418	0
809	1	1931	1	3053	0	4175	1	5297	1	6419	1
810	0	1932	0	3054	1	4176	0	5298	0	6420	1
811	0	1933	0	3055	0	4177	0	5299	0	6421	0
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813	0	1935	1	3057	1	4179	1	5301	1	6423	1
814	0	1936	1	3058	1	4180	0	5302	1	6424	0
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816	1	1938	1	3060	0	4182	1	5304	0	6426	1
817	0	1939	1	3061	0	4183	0	5305	1	6427	1
818	1	1940	0	3062	1	4184	1	5306	1	6428	0
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821	1	1943	1	3065	0	4187	1	5309	1	6431	1
822	0	1944	1	3066	1	4188	0	5310	1	6432	0
823	0	1945	0	3067	1	4189	0	5311	1	6433	0
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825	0	1947	1	3069	0	4191	0	5313	0	6435	1
826	0	1948	0	3070	1	4192	1	5314	1	6436	0
827	1	1949	0	3071	0	4193	1	5315	1	6437	0
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830	1	1952	1	3074	1	4196	1	5318	1	6440	1
831	1	1953	1	3075	0	4197	0	5319	1	6441	1
832	1	1954	0	3076	1	4198	1	5320	0	6442	0
833	1	1955	0	3077	1	4199	0	5321	1	6443	0
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835	1	1957	1	3079	0	4201	1	5323	1	6445	1
836	1	1958	1	3080	0	4202	1	5324	1	6446	0
837	0	1959	1	3081	1	4203	0	5325	0	6447	0
838	1	1960	0	3082	0	4204	1	5326	1	6448	1
839	0	1961	1	3083	1	4205	0	5327	0	6449	0
840	1	1962	1	3084	1	4206	0	5328	0	6450	0
841	0	1963	1	3085	1	4207	1	5329	0	6451	1
842	0	1964	0	3086	0	4208	0	5330	0	6452	1
843	0	1965	0	3087	0	4209	1	5331	1	6453	1
844	1	1966	0	3088	1	4210	0	5332	0	6454	0
845	0	1967	0	3089	1	4211	1	5333	1	6455	0
846	1	1968	1	3090	0	4212	1	5334	0	6456	1
847	1	1969	1	3091	0	4213	0	5335	1	6457	0
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849	1	1971	0	3093	1	4215	0	5337	0	6459	0
850	0	1972	1	3094	0	4216	0	5338	1	6460	0
851	0	1973	0	3095	0	4217	0	5339	1	6461	0
852	1	1974	0	3096	0	4218	1	5340	0	6462	1
853	0	1975	1	3097	0	4219	1	5341	0	6463	1
854	1	1976	0	3098	0	4220	0	5342	0	6464	0
855	1	1977	0	3099	1	4221	0	5343	0	6465	1
856	1	1978	1	3100	0	4222	0	5344	1	6466	1
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858	0	1980	0	3102	1	4224	1	5346	1	6468	1
859	0	1981	0	3103	1	4225	0	5347	0	6469	0
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861	0	1983	1	3105	0	4227	1	5349	1	6471	1
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864	1	1986	1	3108	1	4230	0	5352	1	6474	1
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870	1	1992	1	3114	1	4236	0	5358	1	6480	1
871	0	1993	1	3115	1	4237	1	5359	0	6481	0
872	0	1994	1	3116	1	4238	0	5360	0	6482	1
873	0	1995	0	3117	1	4239	0	5361	1	6483	1
874	1	1996	1	3118	1	4240	0	5362	0	6484	1
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876	0	1998	0	3120	1	4242	1	5364	0	6486	1
877	1	1999	0	3121	1	4243	1	5365	1	6487	0
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881	1	2003	1	3125	0	4247	0	5369	1	6491	0
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883	0	2005	0	3127	1	4249	1	5371	0	6493	1
884	0	2006	1	3128	0	4250	1	5372	0	6494	0
885	1	2007	1	3129	0	4251	0	5373	0	6495	1
886	0	2008	1	3130	0	4252	0	5374	0	6496	0
887	0	2009	0	3131	1	4253	0	5375	0	6497	0
888	1	2010	0	3132	0	4254	1	5376	1	6498	1
889	0	2011	1	3133	1	4255	0	5377	1	6499	0
890	1	2012	1	3134	0	4256	1	5378	1	6500	0
891	0	2013	1	3135	1	4257	0	5379	0	6501	0
892	1	2014	0	3136	0	4258	1	5380	1	6502	0
893	1	2015	1	3137	0	4259	0	5381	0	6503	0
894	1	2016	1	3138	1	4260	1	5382	1	6504	0
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896	0	2018	0	3140	0	4262	1	5384	0	6506	0
897	1	2019	0	3141	0	4263	1	5385	0	6507	0
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899	1	2021	0	3143	1	4265	0	5387	0	6509	0
900	0	2022	1	3144	1	4266	1	5388	1	6510	1
901	1	2023	1	3145	1	4267	0	5389	0	6511	1
902	1	2024	0	3146	0	4268	1	5390	1	6512	1
903	0	2025	0	3147	0	4269	1	5391	1	6513	1
904	0	2026	1	3148	1	4270	0	5392	0	6514	1
905	1	2027	0	3149	0	4271	1	5393	0	6515	0
906	0	2028	1	3150	0	4272	0	5394	0	6516	1
907	0	2029	1	3151	1	4273	0	5395	1	6517	1

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909	0	2031	0	3153	1	4275	0	5397	1	6519	1
910	1	2032	0	3154	0	4276	1	5398	0	6520	1
911	0	2033	1	3155	0	4277	1	5399	1	6521	1
912	0	2034	1	3156	1	4278	1	5400	0	6522	0
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915	0	2037	0	3159	0	4281	0	5403	1	6525	0
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937	0	2059	1	3181	0	4303	1	5425	1	6547	1
938	1	2060	1	3182	0	4304	0	5426	0	6548	0
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941	0	2063	1	3185	1	4307	1	5429	0	6551	1
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949	0	2071	0	3193	1	4315	1	5437	0	6559	0
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956	0	2078	0	3200	1	4322	1	5444	0	6566	0
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958	0	2080	0	3202	0	4324	0	5446	1	6568	1
959	0	2081	0	3203	0	4325	1	5447	0	6569	0
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962	1	2084	1	3206	1	4328	0	5450	0	6572	1
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972	0	2094	1	3216	0	4338	0	5460	0	6582	1
973	0	2095	0	3217	0	4339	0	5461	1	6583	1
974	0	2096	0	3218	1	4340	1	5462	0	6584	1
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1120	1	2242	0	3364	0	4486	0	5608	0		
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