

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

$$(a, b) = (z^5 + z^4 + z^3 + z^2 + 1, z + 1)$$

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ABSTRACT. The continued fraction conjecture claims that the continued fraction defined by the (a, b) -Thue-Morse sequence is algebraic over $\mathbb{F}_2(x)$ for all pairs of distinct elements (a, b) in $\mathbb{F}_2[x] \setminus \mathbb{F}_2$. In this paper we prove the conjecture for $(a, b) = (z^5 + z^4 + z^3 + z^2 + 1, z + 1)$.

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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Theorem 1.1. *When $(a, b) = (z^5 + z^4 + z^3 + z^2 + 1, z + 1)$, the two power series $\text{CF}(a, b)$ and $\text{CF}(b, a)$ are algebraic over $\mathbb{F}_2(z)$, with minimal polynomials of the form*

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

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

$$p_0(z) = z^{18} + z^{16} + z^{13} + z^{11} + z^9 + z^7 + z + 1,$$

$$p_1(z) = z^{23} + z^{22} + z^{17} + z^{16} + z^{15} + z^{13} + z^{12} + z^9 + z^8 + z^7 + z^5 + z^4 + z^3 + z$$

,

$$p_2(z) = z^{24} + z^{22} + z^{20} + z^{18} + z^{16} + z^{10} + z^6 + z^4 + z^2 + 1,$$

$$p_3(z) = z^{23} + z^{22} + z^{17} + z^{16} + z^{15} + z^{13} + z^{12} + z^9 + z^8 + z^7 + z^5 + z^4 + z^3 + z$$

,

$$p_4(z) = z^{22} + z^{16} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^4 + z^2 + z + 1,$$

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

$$p_0(z) = z^{20} + z^{18} + z^{13} + z^{12} + z^{11} + z^9 + z^8 + z^7 + z^4 + z + 1,$$

$$p_1(z) = z^{23} + z^{22} + z^{17} + z^{16} + z^{15} + z^{13} + z^{12} + z^9 + z^8 + z^7 + z^5 + z^4 + z^3 + z$$

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$$p_2(z) = z^{24} + z^{22} + z^{20} + z^{18} + z^{16} + z^{10} + z^6 + z^4 + z^2 + 1,$$

$$p_3(z) = z^{23} + z^{22} + z^{17} + z^{16} + z^{15} + z^{13} + z^{12} + z^9 + z^8 + z^7 + z^5 + z^4 + z^3 + z$$

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$$p_4(z) = z^{22} + z^{20} + z^{13} + z^{11} + z^{10} + z^9 + z^8 + z^7 + z^6 + z^2 + z + 1.$$

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 $\bar{\mathbf{t}}$ 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,

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

Therefore, by the convergence theorem of continued fraction, the algebraicity of $\text{CF}(a, b)$ will be established if it is shown that both $M_{2n}(x)_{0,1}$ and $M_{2n}(x)_{0,0}$ 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 $(M_{2n}(x)_{i,j})_n$, $(M_{2n+1}(x)_{i,j})_n$, $(W_{2n}(x)_{i,j})_n$, and $(W_{2n+1}(x)_{i,j})_n$ 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 $(M_{2n}(x))_n$, $(M_{2n+1}(x))_n$, $(W_{2n}(x))_n$, and $(W_{2n+1}(x))_n$.

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

$$(150, 150, 150, 150, 150)$$

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 540 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 540, 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 660 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 660, 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.*

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

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

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

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

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

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

The proof of the other 15 cases are similar. We break down the above identity into 6 parts:

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

which can be rewritten as

$$(2.7) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[110w]_2],$$

$$(2.8) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[111w]_2],$$

$$(2.9) \quad 0 = T[[10w]_2] + T[[11w]_2] + T[[1000w]_2],$$

$$(2.10) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1001w]_2],$$

$$(2.11) \quad 0 = T[[1w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[1w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad 1 = T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[110w]_2],$$

$$(2.14) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[111w]_2],$$

$$(2.15) \quad 1 = T[[10w]_2] + T[[11w]_2] + T[[1000w]_2],$$

$$(2.16) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 0 = T[[1w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 1 = T[[1w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8149 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 (2.18) can be written as

$$(2.19) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 110)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101))$$

$$(2.20) \quad + \tau(A(s, 111)),$$

$$(2.21) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1000)),$$

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

$$(2.23) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.24) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

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

$$(2.25) \quad 1 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 110)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101))$$

$$(2.26) \quad + \tau(A(s, 111)),$$

$$(2.27) \quad 1 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1000)),$$

$$(2.28) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

$$(2.29) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.30) \quad 1 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{100}), E_{100}) = (A(i, 0^{16}), E_{16})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 50$, 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 $u = 2^{2k-1}$,*

$$M_{2k} = M^e[:6u] + x^{2u} M^e[:4u] + x^{4u} M^e[:2u] + x^{5u} M^e[:u] + x^{6u} R^e,$$

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

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

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

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

$$(2.31) \quad \begin{aligned} W_{2k}M_{2k} &= (W^e[:6v] + x^{2v}W^e[:4v] + x^{4v}W^e[:2v] + x^{5v}W^e[:v] + x^{6v}R^e) \times (\\ &M^e[:6v] + x^{2v}M^e[:4v] + x^{4v}M^e[:2v] + x^{5v}M^e[:v] + x^{6v}R^e); \end{aligned}$$

Call this expression *lhs*. Note that both sides of identity M_{2k+1} have the same term of highest degree $x^{12v}R^o$. Therefore we only need to prove that their difference is $O(x^{12v})$. Using Lemma 2.1 it can be seen that the right side of identity M_{2k+1} is congruent, modulo x^{12v} , to

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

For all $n \leq 12$, 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* (2.31) and *rhs* as polynomials in $\mathbb{F}_2[a_1, \dots, a_{12}, b_1, \dots, b_{12}, c][X]$. 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 $O(X^{12})$, 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

$$\begin{aligned} q_0(x) &= x^{24} + x^{23} + x^{17} + x^{15} + x^{13} + x^{11} + x^8 + x^6, \\ q_1(x) &= x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^7 \\ &\quad + x^2 + x, \\ q_2(x) &= x^{24} + x^{22} + x^{20} + x^{18} + x^{14} + x^8 + x^6 + x^4 + x^2 + 1, \\ q_3(x) &= x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^7 \\ &\quad + x^2 + x, \\ q_4(x) &= x^{24} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^8 \\ &\quad + x^2. \end{aligned}$$

The polynomial $Q(x, y)$ is the candidate for the minimal polynomial of $f(x)$ found by Padé-Hermite approximation. To prove that it is indeed the minimal polynomial of $f(x)$, we only need to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and $R(x, y) := P(x, y)/Q(x, y)^m$ is not an annihilating polynomial of $f(x)$. We verify the first point directly. For the second point, we find that when we truncate $f(x)$ to order 186, and substitute it for y in $R(z, y)$, we get a series with valuation smaller than 186, 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 $\phi(M^e, 0, 0)$:

$$\begin{aligned} p_0(x) &= x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{88} + x^{86} + x^{84} + x^{78} + x^{76} + x^{54} \\ &\quad + x^{42} + x^{40} + x^{38} + x^{34} + x^{32} + x^{30} + x^{28} + x^{20} + x^{18} + x^{16} + x^{14} \\ &\quad + x^{12}, \\ p_3(x) &= x^{112} + x^{110} + x^{108} + x^{104} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} \\ &\quad + x^{76} + x^{64} + x^{60} + x^{56} + x^{54} + x^{50} + x^{46} + x^{40} + x^{38} + x^{34} + x^{28} \\ &\quad + x^{26} + x^{22} + x^{16} + x^{14} + x^{12} + x^8, \end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{112} + x^{108} + x^{104} + x^{102} + x^{100} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{84} \\
&\quad + x^{80} + x^{72} + x^{70} + x^{68} + x^{60} + x^{50} + x^{48} + x^{46} + x^{44} + x^{32} + x^{30} \\
&\quad + x^{24} + x^{16} + x^{14} + x^{10} + x^6 + 1, \\
p_9(x) &= x^{112} + x^{110} + x^{104} + x^{102} + x^{94} + x^{88} + x^{84} + x^{80} + x^{70} + x^{68} + x^{62} \\
&\quad + x^{58} + x^{56} + x^{50} + x^{48} + x^{40} + x^{36} + x^{34} + x^{28} + x^{24} + x^{20} + x^{16} \\
&\quad + x^8 + x^6 + x^4 + x^2, \\
p_{12}(x) &= x^{114} + x^{110} + x^{108} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{66} + x^{62} \\
&\quad + x^{60} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} + x^{44} + x^{40} + x^{38} + x^{36} + x^{32} \\
&\quad + x^{30} + x^{28} + x^{24} + x^{22} + x^{20} + x^{16} + x^{14} + x^{12} + x^8 + x^6 + x^4 + x^2 \\
&\quad + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{119} + x^{115} + x^{114} + x^{113} + x^{108} \\
&\quad + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{93} \\
&\quad + x^{90} + x^{89} + x^{88} + x^{86} + x^{85} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} \\
&\quad + x^{77} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} + x^{66} + x^{64} + x^{61} + x^{60} + x^{59} \\
&\quad + x^{56} + x^{55} + x^{53} + x^{50} + x^{46} + x^{43} + x^{42} + x^{41} + x^{36} + x^{35} + x^{34} \\
&\quad + x^{33} + x^{32} + x^{26} + x^{24}, \\
p_3(x) &= x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{106} + x^{104} + x^{100} + x^{98} + x^{97} \\
&\quad + x^{96} + x^{95} + x^{89} + x^{88} + x^{85} + x^{82} + x^{81} + x^{73} + x^{72} + x^{69} + x^{66} \\
&\quad + x^{64} + x^{60} + x^{58} + x^{55} + x^{52} + x^{50} + x^{47} + x^{44} + x^{42} + x^{41} + x^{40} \\
&\quad + x^{39} + x^{29} + x^{28} + x^{24} + x^{23} + x^{21} + x^{20} + x^{17} + x^{15} + x^{13} + x^{10} \\
&\quad + x^9, \\
p_6(x) &= x^{120} + x^{119} + x^{118} + x^{113} + x^{111} + x^{109} + x^{106} + x^{103} + x^{102} + x^{97} \\
&\quad + x^{95} + x^{94} + x^{92} + x^{90} + x^{86} + x^{85} + x^{83} + x^{81} + x^{77} + x^{76} + x^{75} \\
&\quad + x^{74} + x^{71} + x^{68} + x^{67} + x^{64} + x^{63} + x^{58} + x^{48} + x^{47} + x^{45} + x^{43} \\
&\quad + x^{40} + x^{38} + x^{34} + x^{33} + x^{32} + x^{27} + x^{25} + x^{23} + x^{20} + x^{17} + x^{15} \\
&\quad + x^{13} + x^{12} + x^{11} + x^8 + x^6, \\
p_9(x) &= x^{123} + x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{109} + x^{108} + x^{106} + x^{102} \\
&\quad + x^{101} + x^{97} + x^{96} + x^{92} + x^{91} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} \\
&\quad + x^{76} + x^{75} + x^{74} + x^{73} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{60} + x^{59} \\
&\quad + x^{51} + x^{50} + x^{47} + x^{45} + x^{43} + x^{40} + x^{39} + x^{35} + x^{34} + x^{30} + x^{28} \\
&\quad + x^{25} + x^{23} + x^{21} + x^{19} + x^{17} + x^{15} + x^{12} + x^{11} + x^7 + x^6 + x^5 + x^4 \\
&\quad + x^3, \\
p_{12}(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{112} + x^{102} + x^{101}
\end{aligned}$$

$$\begin{aligned}
& + x^{100} + x^{96} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{64} + x^{62} \\
& + x^{61} + x^{60} + x^{58} + x^{57} + x^{52} + x^{46} + x^{45} + x^{44} + x^{42} + x^{41} + x^{36} \\
& + x^{30} + x^{29} + x^{28} + x^{26} + x^{25} + x^{20} + x^6 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{119} + x^{115} + x^{114} + x^{113} + x^{108} \\
& + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{93} \\
& + x^{90} + x^{89} + x^{88} + x^{86} + x^{85} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} \\
& + x^{77} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} + x^{66} + x^{64} + x^{61} + x^{60} + x^{59} \\
& + x^{56} + x^{55} + x^{53} + x^{50} + x^{46} + x^{43} + x^{42} + x^{41} + x^{36} + x^{35} + x^{34} \\
& + x^{33} + x^{32} + x^{26} + x^{24},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{106} + x^{104} + x^{100} + x^{98} + x^{97} \\
& + x^{96} + x^{95} + x^{89} + x^{88} + x^{85} + x^{82} + x^{81} + x^{73} + x^{72} + x^{69} + x^{66} \\
& + x^{64} + x^{60} + x^{58} + x^{55} + x^{52} + x^{50} + x^{47} + x^{44} + x^{42} + x^{41} + x^{40} \\
& + x^{39} + x^{29} + x^{28} + x^{24} + x^{23} + x^{21} + x^{20} + x^{17} + x^{15} + x^{13} + x^{10} \\
& + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{120} + x^{119} + x^{118} + x^{113} + x^{111} + x^{109} + x^{106} + x^{103} + x^{102} + x^{97} \\
& + x^{95} + x^{94} + x^{92} + x^{90} + x^{86} + x^{85} + x^{83} + x^{81} + x^{77} + x^{76} + x^{75} \\
& + x^{74} + x^{71} + x^{68} + x^{67} + x^{64} + x^{63} + x^{58} + x^{48} + x^{47} + x^{45} + x^{43} \\
& + x^{40} + x^{38} + x^{34} + x^{33} + x^{32} + x^{27} + x^{25} + x^{23} + x^{20} + x^{17} + x^{15} \\
& + x^{13} + x^{12} + x^{11} + x^8 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{123} + x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{109} + x^{108} + x^{106} + x^{102} \\
& + x^{101} + x^{97} + x^{96} + x^{92} + x^{91} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{60} + x^{59} \\
& + x^{51} + x^{50} + x^{47} + x^{45} + x^{43} + x^{40} + x^{39} + x^{35} + x^{34} + x^{30} + x^{28} \\
& + x^{25} + x^{23} + x^{21} + x^{19} + x^{17} + x^{15} + x^{12} + x^{11} + x^7 + x^6 + x^5 + x^4 \\
& + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{112} + x^{102} + x^{101} \\
& + x^{100} + x^{96} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{64} + x^{62} \\
& + x^{61} + x^{60} + x^{58} + x^{57} + x^{52} + x^{46} + x^{45} + x^{44} + x^{42} + x^{41} + x^{36} \\
& + x^{30} + x^{29} + x^{28} + x^{26} + x^{25} + x^{20} + x^6 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{124} + x^{122} + x^{116} + x^{114} + x^{110} + x^{104} + x^{96} + x^{92} + x^{88} \\
& + x^{86} + x^{84} + x^{82} + x^{80} + x^{74} + x^{68} + x^{66} + x^{62} + x^{54} + x^{52} + x^{50}
\end{aligned}$$

$$\begin{aligned}
& + x^{48} + x^{46} + x^{42} + x^{40} + x^{38} + x^{36}, \\
p_3(x) &= x^{136} + x^{130} + x^{128} + x^{126} + x^{116} + x^{106} + x^{96} + x^{94} + x^{92} + x^{90} \\
& + x^{84} + x^{80} + x^{78} + x^{72} + x^{70} + x^{68} + x^{64} + x^{52} + x^{50} + x^{44} + x^{42} \\
& + x^{40} + x^{36} + x^{34} + x^{32} + x^{28} + x^{22} + x^{18} + x^{16} + x^{14} + x^8 + x^6, \\
p_6(x) &= x^{136} + x^{130} + x^{126} + x^{118} + x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} \\
& + x^{102} + x^{96} + x^{90} + x^{88} + x^{82} + x^{76} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} \\
& + x^{60} + x^{54} + x^{52} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{34} + x^{32} + x^{30} \\
& + x^{28} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} + x^8 + x^6 + 1, \\
p_9(x) &= x^{136} + x^{130} + x^{128} + x^{120} + x^{116} + x^{114} + x^{110} + x^{108} + x^{94} + x^{84} \\
& + x^{82} + x^{70} + x^{62} + x^{60} + x^{58} + x^{54} + x^{52} + x^{50} + x^{48} + x^{44} + x^{38} \\
& + x^{34} + x^{24} + x^{22} + x^{18} + x^{12} + x^4 + x^2, \\
p_{12}(x) &= x^{138} + x^{136} + x^{122} + x^{120} + x^{114} + x^{112} + x^{106} + x^{104} + x^{98} + x^{96} \\
& + x^{90} + x^{88} + x^{66} + x^{64} + x^{58} + x^{56} + x^{42} + x^{40} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{134} + x^{132} + x^{128} + x^{122} + x^{120} + x^{118} + x^{114} + x^{102} + x^{100} \\
& + x^{98} + x^{94} + x^{90} + x^{76} + x^{66} + x^{62} + x^{60} + x^{58} + x^{54} + x^{50} + x^{48} \\
& + x^{46} + x^{34} + x^{32} + x^{30} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_3(x) &= x^{136} + x^{132} + x^{128} + x^{118} + x^{112} + x^{102} + x^{94} + x^{90} + x^{86} + x^{80} \\
& + x^{76} + x^{68} + x^{60} + x^{56} + x^{54} + x^{52} + x^{50} + x^{38} + x^{36} + x^{32} + x^{30} \\
& + x^{28} + x^{24} + x^{22} + x^{16} + x^{14} + x^{10} + x^8, \\
p_6(x) &= x^{136} + x^{134} + x^{126} + x^{124} + x^{122} + x^{120} + x^{116} + x^{114} + x^{104} + x^{98} \\
& + x^{96} + x^{92} + x^{82} + x^{78} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} \\
& + x^{54} + x^{50} + x^{48} + x^{46} + x^{42} + x^{40} + x^{32} + x^{28} + x^{26} + x^{22} + x^{18} \\
& + x^{10} + x^6 + x^4 + 1, \\
p_9(x) &= x^{136} + x^{130} + x^{128} + x^{120} + x^{116} + x^{114} + x^{110} + x^{108} + x^{94} + x^{84} \\
& + x^{82} + x^{70} + x^{62} + x^{60} + x^{58} + x^{54} + x^{52} + x^{50} + x^{48} + x^{44} + x^{38} \\
& + x^{34} + x^{24} + x^{22} + x^{18} + x^{12} + x^4 + x^2, \\
p_{12}(x) &= x^{138} + x^{136} + x^{122} + x^{120} + x^{114} + x^{112} + x^{106} + x^{104} + x^{98} + x^{96} \\
& + x^{90} + x^{88} + x^{66} + x^{64} + x^{58} + x^{56} + x^{42} + x^{40} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} + x^{111} \\
& + x^{108} + x^{107} + x^{105} + x^{104} + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} \\
& + x^{87} + x^{84} + x^{81} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} + x^{70} + x^{69} + x^{66}
\end{aligned}$$

$$\begin{aligned}
& + x^{65} + x^{64} + x^{60} + x^{58} + x^{57} + x^{54} + x^{48} + x^{45} + x^{42} + x^{41} + x^{39} \\
& + x^{38} + x^{37} + x^{34} + x^{29} + x^{26} + x^{25} + x^{24} + x^{23} + x^{18}, \\
p_3(x) & = x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{106} + x^{104} + x^{100} + x^{98} + x^{97} \\
& + x^{96} + x^{95} + x^{89} + x^{88} + x^{85} + x^{82} + x^{81} + x^{73} + x^{72} + x^{69} + x^{66} \\
& + x^{64} + x^{60} + x^{58} + x^{55} + x^{52} + x^{50} + x^{47} + x^{44} + x^{42} + x^{41} + x^{40} \\
& + x^{39} + x^{29} + x^{28} + x^{24} + x^{23} + x^{21} + x^{20} + x^{17} + x^{15} + x^{13} + x^{10} \\
& + x^9, \\
p_6(x) & = x^{120} + x^{119} + x^{118} + x^{113} + x^{111} + x^{109} + x^{106} + x^{103} + x^{102} + x^{97} \\
& + x^{95} + x^{94} + x^{92} + x^{90} + x^{86} + x^{85} + x^{83} + x^{81} + x^{77} + x^{76} + x^{75} \\
& + x^{74} + x^{71} + x^{68} + x^{67} + x^{64} + x^{63} + x^{58} + x^{48} + x^{47} + x^{45} + x^{43} \\
& + x^{40} + x^{38} + x^{34} + x^{33} + x^{32} + x^{27} + x^{25} + x^{23} + x^{20} + x^{17} + x^{15} \\
& + x^{13} + x^{12} + x^{11} + x^8 + x^6, \\
p_9(x) & = x^{123} + x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{109} + x^{108} + x^{106} + x^{102} \\
& + x^{101} + x^{97} + x^{96} + x^{92} + x^{91} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{60} + x^{59} \\
& + x^{51} + x^{50} + x^{47} + x^{45} + x^{43} + x^{40} + x^{39} + x^{35} + x^{34} + x^{30} + x^{28} \\
& + x^{25} + x^{23} + x^{21} + x^{19} + x^{17} + x^{15} + x^{12} + x^{11} + x^7 + x^6 + x^5 + x^4 \\
& + x^3, \\
p_{12}(x) & = x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{112} + x^{102} + x^{101} \\
& + x^{100} + x^{96} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{64} + x^{62} \\
& + x^{61} + x^{60} + x^{58} + x^{57} + x^{52} + x^{46} + x^{45} + x^{44} + x^{42} + x^{41} + x^{36} \\
& + x^{30} + x^{29} + x^{28} + x^{26} + x^{25} + x^{20} + x^6 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) & = x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} + x^{111} \\
& + x^{108} + x^{107} + x^{105} + x^{104} + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} \\
& + x^{87} + x^{84} + x^{81} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} + x^{70} + x^{69} + x^{66} \\
& + x^{65} + x^{64} + x^{60} + x^{58} + x^{57} + x^{54} + x^{48} + x^{45} + x^{42} + x^{41} + x^{39} \\
& + x^{38} + x^{37} + x^{34} + x^{29} + x^{26} + x^{25} + x^{24} + x^{23} + x^{18}, \\
p_3(x) & = x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{106} + x^{104} + x^{100} + x^{98} + x^{97} \\
& + x^{96} + x^{95} + x^{89} + x^{88} + x^{85} + x^{82} + x^{81} + x^{73} + x^{72} + x^{69} + x^{66} \\
& + x^{64} + x^{60} + x^{58} + x^{55} + x^{52} + x^{50} + x^{47} + x^{44} + x^{42} + x^{41} + x^{40} \\
& + x^{39} + x^{29} + x^{28} + x^{24} + x^{23} + x^{21} + x^{20} + x^{17} + x^{15} + x^{13} + x^{10} \\
& + x^9, \\
p_6(x) & = x^{120} + x^{119} + x^{118} + x^{113} + x^{111} + x^{109} + x^{106} + x^{103} + x^{102} + x^{97}
\end{aligned}$$

$$\begin{aligned}
& + x^{95} + x^{94} + x^{92} + x^{90} + x^{86} + x^{85} + x^{83} + x^{81} + x^{77} + x^{76} + x^{75} \\
& + x^{74} + x^{71} + x^{68} + x^{67} + x^{64} + x^{63} + x^{58} + x^{48} + x^{47} + x^{45} + x^{43} \\
& + x^{40} + x^{38} + x^{34} + x^{33} + x^{32} + x^{27} + x^{25} + x^{23} + x^{20} + x^{17} + x^{15} \\
& + x^{13} + x^{12} + x^{11} + x^8 + x^6, \\
p_9(x) &= x^{123} + x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{109} + x^{108} + x^{106} + x^{102} \\
& + x^{101} + x^{97} + x^{96} + x^{92} + x^{91} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{60} + x^{59} \\
& + x^{51} + x^{50} + x^{47} + x^{45} + x^{43} + x^{40} + x^{39} + x^{35} + x^{34} + x^{30} + x^{28} \\
& + x^{25} + x^{23} + x^{21} + x^{19} + x^{17} + x^{15} + x^{12} + x^{11} + x^7 + x^6 + x^5 + x^4 \\
& + x^3, \\
p_{12}(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{112} + x^{102} + x^{101} \\
& + x^{100} + x^{96} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{64} + x^{62} \\
& + x^{61} + x^{60} + x^{58} + x^{57} + x^{52} + x^{46} + x^{45} + x^{44} + x^{42} + x^{41} + x^{36} \\
& + x^{30} + x^{29} + x^{28} + x^{26} + x^{25} + x^{20} + x^6 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{112} + x^{108} + x^{102} + x^{96} + x^{94} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} \\
& + x^{74} + x^{66} + x^{62} + x^{58} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} + x^{44} + x^{40} \\
& + x^{32} + x^{26} + x^{24}, \\
p_3(x) &= x^{112} + x^{110} + x^{96} + x^{92} + x^{84} + x^{78} + x^{76} + x^{74} + x^{72} + x^{62} + x^{60} \\
& + x^{52} + x^{50} + x^{42} + x^{38} + x^{34} + x^{30} + x^{28} + x^{26} + x^{24} + x^{22} + x^{12} \\
& + x^8 + x^6, \\
p_6(x) &= x^{112} + x^{110} + x^{106} + x^{104} + x^{100} + x^{96} + x^{94} + x^{88} + x^{86} + x^{84} + x^{76} \\
& + x^{74} + x^{72} + x^{70} + x^{66} + x^{64} + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} + x^{50} \\
& + x^{46} + x^{42} + x^{36} + x^{32} + x^{30} + x^{28} + x^{26} + x^{20} + x^{18} + x^{14} + x^{10} \\
& + x^6 + x^4 + 1, \\
p_9(x) &= x^{112} + x^{110} + x^{104} + x^{102} + x^{94} + x^{88} + x^{84} + x^{80} + x^{70} + x^{68} + x^{62} \\
& + x^{58} + x^{56} + x^{50} + x^{48} + x^{40} + x^{36} + x^{34} + x^{28} + x^{24} + x^{20} + x^{16} \\
& + x^8 + x^6 + x^4 + x^2, \\
p_{12}(x) &= x^{114} + x^{110} + x^{108} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{66} + x^{62} \\
& + x^{60} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} + x^{44} + x^{40} + x^{38} + x^{36} + x^{32} \\
& + x^{30} + x^{28} + x^{24} + x^{22} + x^{20} + x^{16} + x^{14} + x^{12} + x^8 + x^6 + x^4 + x^2 \\
& + 1,
\end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{125} + x^{123} + x^{122} + x^{121} + x^{120} + x^{117} + x^{116} + x^{115} + x^{112} \\ & + x^{111} + x^{110} + x^{106} + x^{104} + x^{103} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} \\ & + x^{86} + x^{85} + x^{84} + x^{82} + x^{81} + x^{79} + x^{78} + x^{76} + x^{72} + x^{71} + x^{70} \\ & + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} \\ & + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{44} + x^{42} + x^{41} + x^{39} + x^{37} + x^{36} \\ & + x^{33} + x^{30} + x^{28} + x^{26} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{17} + x^{14} \\ & + x^{12}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{122} + x^{121} + x^{119} + x^{116} + x^{115} + x^{113} + x^{110} + x^{109} + x^{108} + x^{107} \\ & + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} \\ & + x^{92} + x^{91} + x^{89} + x^{88} + x^{84} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} \\ & + x^{75} + x^{74} + x^{73} + x^{72} + x^{68} + x^{65} + x^{58} + x^{56} + x^{51} + x^{50} + x^{49} \\ & + x^{48} + x^{47} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{35} + x^{34} + x^{32} \\ & + x^{31} + x^{29} + x^{28} + x^{27} + x^{24} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{15} \\ & + x^{13} + x^{12} + x^{10} + x^8, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{113} + x^{108} + x^{106} + x^{105} \\ & + x^{99} + x^{98} + x^{97} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} + x^{81} + x^{80} \\ & + x^{78} + x^{74} + x^{73} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{60} + x^{58} \\ & + x^{56} + x^{55} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{37} \\ & + x^{34} + x^{31} + x^{30} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} \\ & + x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^5 + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} + x^{106} \\ & + x^{105} + x^{100} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} + x^{61} \\ & + x^{56} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{45} + x^{40} + x^{38} + x^{37} \\ & + x^{36} + x^{34} + x^{33} + x^{30} + x^{29} + x^{24} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} \\ & + x^{14} + x^{13} + x^{10} + x^9 + x^4, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{126} + x^{125} + x^{124} + x^{120} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} \\ & + x^{105} + x^{102} + x^{101} + x^{96} + x^{78} + x^{77} + x^{76} + x^{72} + x^{66} + x^{65} + x^{64} \\ & + x^{60} + x^{58} + x^{57} + x^{56} + x^{54} + x^{53} + x^{50} + x^{49} + x^{44} + x^{42} + x^{41} \\ & + x^{40} + x^{38} + x^{37} + x^{34} + x^{33} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} + x^{21} \\ & + x^{18} + x^{17} + x^{14} + x^{13} + x^{10} + x^9 + x^6 + x^5 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{140} + x^{137} + x^{136} + x^{131} + x^{130} + x^{124} + x^{123} + x^{120} + x^{118} + x^{117} \\ & + x^{114} + x^{113} + x^{107} + x^{106} + x^{103} + x^{102} + x^{100} + x^{98} + x^{97} + x^{95} \end{aligned}$$

$$\begin{aligned}
& + x^{92} + x^{91} + x^{88} + x^{86} + x^{82} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{71} \\
& + x^{69} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} \\
& + x^{53} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} \\
& + x^{36} + x^{34} + x^{32} + x^{29} + x^{24}, \\
p_3(x) &= x^{131} + x^{128} + x^{127} + x^{126} + x^{118} + x^{115} + x^{114} + x^{109} + x^{107} + x^{106} \\
& + x^{104} + x^{102} + x^{98} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{87} \\
& + x^{84} + x^{80} + x^{79} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{67} + x^{65} + x^{64} \\
& + x^{60} + x^{59} + x^{58} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{45} + x^{40} + x^{37} + x^{34} + x^{33} + x^{28} + x^{26} + x^{25} + x^{23} + x^{21} \\
& + x^{19} + x^{17} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{134} + x^{128} + x^{124} + x^{122} + x^{120} + x^{118} + x^{112} + x^{110} + x^{98} + x^{94} \\
& + x^{92} + x^{90} + x^{84} + x^{82} + x^{80} + x^{74} + x^{72} + x^{66} + x^{62} + x^{60} + x^{54} \\
& + x^{52} + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{22} \\
& + x^{20} + x^{18} + x^8 + x^6, \\
p_9(x) &= x^{137} + x^{134} + x^{133} + x^{132} + x^{131} + x^{129} + x^{128} + x^{125} + x^{124} + x^{123} \\
& + x^{122} + x^{120} + x^{117} + x^{115} + x^{112} + x^{110} + x^{109} + x^{107} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{100} + x^{99} + x^{89} + x^{86} + x^{85} + x^{84} + x^{83} \\
& + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} \\
& + x^{62} + x^{60} + x^{55} + x^{54} + x^{51} + x^{49} + x^{46} + x^{44} + x^{39} + x^{38} + x^{35} \\
& + x^{33} + x^{30} + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} + x^{16} + x^{14} + x^{13} + x^{11} \\
& + x^{10} + x^9 + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{140} + x^{132} + x^{120} + x^{116} + x^{112} + x^{104} + x^{96} + x^{92} + x^{84} + x^{76} \\
& + x^{72} + x^{64} + x^{60} + x^{44} + x^{20} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{109} \\
& + x^{106} + x^{105} + x^{104} + x^{103} + x^{100} + x^{98} + x^{96} + x^{95} + x^{93} + x^{90} \\
& + x^{87} + x^{86} + x^{84} + x^{83} + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{71} + x^{70} \\
& + x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{52} \\
& + x^{51} + x^{50} + x^{49} + x^{45} + x^{44} + x^{42} + x^{37} + x^{36} + x^{32} + x^{29} + x^{26} \\
& + x^{25} + x^{24} + x^{20} + x^{18}, \\
p_3(x) &= x^{115} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{103} + x^{96} + x^{95} + x^{94} \\
& + x^{93} + x^{92} + x^{90} + x^{89} + x^{87} + x^{85} + x^{81} + x^{80} + x^{77} + x^{75} + x^{73} \\
& + x^{72} + x^{71} + x^{67} + x^{63} + x^{61} + x^{59} + x^{57} + x^{54} + x^{53} + x^{52} + x^{50} \\
& + x^{49} + x^{48} + x^{46} + x^{44} + x^{43} + x^{42} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34}
\end{aligned}$$

$$\begin{aligned}
& + x^{32} + x^{29} + x^{25} + x^{23} + x^{22} + x^{20} + x^{18} + x^{14} + x^{13} + x^{12} + x^{11} \\
& + x^{10} + x^9, \\
p_6(x) &= x^{118} + x^{114} + x^{112} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} + x^{96} + x^{94} \\
& + x^{92} + x^{90} + x^{84} + x^{82} + x^{78} + x^{74} + x^{72} + x^{58} + x^{46} + x^{44} + x^{40} \\
& + x^{38} + x^{32} + x^{28} + x^{26} + x^{24} + x^{20} + x^{18} + x^{16} + x^{14} + x^8 + x^6, \\
p_9(x) &= x^{121} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} \\
& + x^{106} + x^{105} + x^{104} + x^{103} + x^{100} + x^{99} + x^{73} + x^{70} + x^{68} + x^{67} \\
& + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{60} + x^{58} + x^{56} + x^{55} + x^{54} + x^{50} \\
& + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} + x^{39} + x^{38} + x^{34} + x^{33} \\
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{18} + x^{17} + x^{15} \\
& + x^{14} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{124} + x^{120} + x^{112} + x^{96} + x^{76} + x^{72} + x^{64} + x^{60} + x^{56} + x^{44} + x^{40} \\
& + x^{28} + x^{24} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{120} + x^{119} + x^{113} + x^{111} + x^{108} + x^{106} + x^{105} \\
& + x^{103} + x^{102} + x^{100} + x^{97} + x^{94} + x^{92} + x^{91} + x^{90} + x^{84} + x^{83} + x^{82} \\
& + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{66} + x^{65} + x^{62} \\
& + x^{57} + x^{56} + x^{54} + x^{52} + x^{51} + x^{49} + x^{44} + x^{38} + x^{37} + x^{36} + x^{30}, \\
p_3(x) &= x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{112} + x^{111} + x^{108} + x^{107} \\
& + x^{106} + x^{103} + x^{100} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} \\
& + x^{85} + x^{84} + x^{81} + x^{78} + x^{77} + x^{76} + x^{75} + x^{72} + x^{71} + x^{69} + x^{68} \\
& + x^{64} + x^{63} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{48} + x^{44} + x^{42} + x^{41} \\
& + x^{40} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{22} + x^{20} + x^{17} \\
& + x^{14} + x^{12}, \\
p_6(x) &= x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{109} + x^{105} + x^{103} + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{93} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} \\
& + x^{77} + x^{75} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} + x^{63} + x^{62} + x^{61} \\
& + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\
& + x^{45} + x^{43} + x^{40} + x^{33} + x^{31} + x^{30} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} \\
& + x^{20} + x^{18} + x^{16} + x^{13} + x^{10} + x^8 + x^6 + x^5 + x^4 + 1, \\
p_9(x) &= x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} + x^{106} \\
& + x^{105} + x^{100} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} + x^{61} \\
& + x^{56} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{45} + x^{40} + x^{38} + x^{37}
\end{aligned}$$

$$\begin{aligned}
& + x^{36} + x^{34} + x^{33} + x^{30} + x^{29} + x^{24} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{14} + x^{13} + x^{10} + x^9 + x^4, \\
p_{12}(x) = & x^{126} + x^{125} + x^{124} + x^{120} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} \\
& + x^{105} + x^{102} + x^{101} + x^{96} + x^{78} + x^{77} + x^{76} + x^{72} + x^{66} + x^{65} + x^{64} \\
& + x^{60} + x^{58} + x^{57} + x^{56} + x^{54} + x^{53} + x^{50} + x^{49} + x^{44} + x^{42} + x^{41} \\
& + x^{40} + x^{38} + x^{37} + x^{34} + x^{33} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} + x^{21} \\
& + x^{18} + x^{17} + x^{14} + x^{13} + x^{10} + x^9 + x^6 + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{123} + x^{122} + x^{121} + x^{120} + x^{117} + x^{116} + x^{115} + x^{112} \\
& + x^{111} + x^{110} + x^{106} + x^{104} + x^{103} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} \\
& + x^{86} + x^{85} + x^{84} + x^{82} + x^{81} + x^{79} + x^{78} + x^{76} + x^{72} + x^{71} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} \\
& + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{44} + x^{42} + x^{41} + x^{39} + x^{37} + x^{36} \\
& + x^{33} + x^{30} + x^{28} + x^{26} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{17} + x^{14} \\
& + x^{12}, \\
p_3(x) = & x^{122} + x^{121} + x^{119} + x^{116} + x^{115} + x^{113} + x^{110} + x^{109} + x^{108} + x^{107} \\
& + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} \\
& + x^{92} + x^{91} + x^{89} + x^{88} + x^{84} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} \\
& + x^{75} + x^{74} + x^{73} + x^{72} + x^{68} + x^{65} + x^{58} + x^{56} + x^{51} + x^{50} + x^{49} \\
& + x^{48} + x^{47} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{35} + x^{34} + x^{32} \\
& + x^{31} + x^{29} + x^{28} + x^{27} + x^{24} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{15} \\
& + x^{13} + x^{12} + x^{10} + x^8, \\
p_6(x) = & x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{113} + x^{108} + x^{106} + x^{105} \\
& + x^{99} + x^{98} + x^{97} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} + x^{81} + x^{80} \\
& + x^{78} + x^{74} + x^{73} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{60} + x^{58} \\
& + x^{56} + x^{55} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{37} \\
& + x^{34} + x^{31} + x^{30} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^5 + 1, \\
p_9(x) = & x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} + x^{106} \\
& + x^{105} + x^{100} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} + x^{61} \\
& + x^{56} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{45} + x^{40} + x^{38} + x^{37} \\
& + x^{36} + x^{34} + x^{33} + x^{30} + x^{29} + x^{24} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{14} + x^{13} + x^{10} + x^9 + x^4, \\
p_{12}(x) = & x^{126} + x^{125} + x^{124} + x^{120} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106}
\end{aligned}$$

$$\begin{aligned}
& + x^{105} + x^{102} + x^{101} + x^{96} + x^{78} + x^{77} + x^{76} + x^{72} + x^{66} + x^{65} + x^{64} \\
& + x^{60} + x^{58} + x^{57} + x^{56} + x^{54} + x^{53} + x^{50} + x^{49} + x^{44} + x^{42} + x^{41} \\
& + x^{40} + x^{38} + x^{37} + x^{34} + x^{33} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} + x^{21} \\
& + x^{18} + x^{17} + x^{14} + x^{13} + x^{10} + x^9 + x^6 + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{109} \\
&+ x^{106} + x^{105} + x^{104} + x^{103} + x^{100} + x^{98} + x^{96} + x^{95} + x^{93} + x^{90} \\
&+ x^{87} + x^{86} + x^{84} + x^{83} + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{71} + x^{70} \\
&+ x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{52} \\
&+ x^{51} + x^{50} + x^{49} + x^{45} + x^{44} + x^{42} + x^{37} + x^{36} + x^{32} + x^{29} + x^{26} \\
&+ x^{25} + x^{24} + x^{20} + x^{18}, \\
p_3(x) &= x^{115} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{103} + x^{96} + x^{95} + x^{94} \\
&+ x^{93} + x^{92} + x^{90} + x^{89} + x^{87} + x^{85} + x^{81} + x^{80} + x^{77} + x^{75} + x^{73} \\
&+ x^{72} + x^{71} + x^{67} + x^{63} + x^{61} + x^{59} + x^{57} + x^{54} + x^{53} + x^{52} + x^{50} \\
&+ x^{49} + x^{48} + x^{46} + x^{44} + x^{43} + x^{42} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} \\
&+ x^{32} + x^{29} + x^{25} + x^{23} + x^{22} + x^{20} + x^{18} + x^{14} + x^{13} + x^{12} + x^{11} \\
&+ x^{10} + x^9, \\
p_6(x) &= x^{118} + x^{114} + x^{112} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} + x^{96} + x^{94} \\
&+ x^{92} + x^{90} + x^{84} + x^{82} + x^{78} + x^{74} + x^{72} + x^{58} + x^{46} + x^{44} + x^{40} \\
&+ x^{38} + x^{32} + x^{28} + x^{26} + x^{24} + x^{20} + x^{18} + x^{16} + x^{14} + x^8 + x^6, \\
p_9(x) &= x^{121} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} \\
&+ x^{106} + x^{105} + x^{104} + x^{103} + x^{100} + x^{99} + x^{73} + x^{70} + x^{68} + x^{67} \\
&+ x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{60} + x^{58} + x^{56} + x^{55} + x^{54} + x^{50} \\
&+ x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} + x^{39} + x^{38} + x^{34} + x^{33} \\
&+ x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{18} + x^{17} + x^{15} \\
&+ x^{14} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{124} + x^{120} + x^{112} + x^{96} + x^{76} + x^{72} + x^{64} + x^{60} + x^{56} + x^{44} + x^{40} \\
&+ x^{28} + x^{24} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{140} + x^{137} + x^{136} + x^{131} + x^{130} + x^{124} + x^{123} + x^{120} + x^{118} + x^{117} \\
&+ x^{114} + x^{113} + x^{107} + x^{106} + x^{103} + x^{102} + x^{100} + x^{98} + x^{97} + x^{95} \\
&+ x^{92} + x^{91} + x^{88} + x^{86} + x^{82} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{71} \\
&+ x^{69} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56}
\end{aligned}$$

$$\begin{aligned}
& + x^{53} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} \\
& + x^{36} + x^{34} + x^{32} + x^{29} + x^{24}, \\
p_3(x) &= x^{131} + x^{128} + x^{127} + x^{126} + x^{118} + x^{115} + x^{114} + x^{109} + x^{107} + x^{106} \\
& + x^{104} + x^{102} + x^{98} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{87} \\
& + x^{84} + x^{80} + x^{79} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{67} + x^{65} + x^{64} \\
& + x^{60} + x^{59} + x^{58} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{45} + x^{40} + x^{37} + x^{34} + x^{33} + x^{28} + x^{26} + x^{25} + x^{23} + x^{21} \\
& + x^{19} + x^{17} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{134} + x^{128} + x^{124} + x^{122} + x^{120} + x^{118} + x^{112} + x^{110} + x^{98} + x^{94} \\
& + x^{92} + x^{90} + x^{84} + x^{82} + x^{80} + x^{74} + x^{72} + x^{66} + x^{62} + x^{60} + x^{54} \\
& + x^{52} + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{22} \\
& + x^{20} + x^{18} + x^8 + x^6, \\
p_9(x) &= x^{137} + x^{134} + x^{133} + x^{132} + x^{131} + x^{129} + x^{128} + x^{125} + x^{124} + x^{123} \\
& + x^{122} + x^{120} + x^{117} + x^{115} + x^{112} + x^{110} + x^{109} + x^{107} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{100} + x^{99} + x^{89} + x^{86} + x^{85} + x^{84} + x^{83} \\
& + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} \\
& + x^{62} + x^{60} + x^{55} + x^{54} + x^{51} + x^{49} + x^{46} + x^{44} + x^{39} + x^{38} + x^{35} \\
& + x^{33} + x^{30} + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} + x^{16} + x^{14} + x^{13} + x^{11} \\
& + x^{10} + x^9 + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{140} + x^{132} + x^{120} + x^{116} + x^{112} + x^{104} + x^{96} + x^{92} + x^{84} + x^{76} \\
& + x^{72} + x^{64} + x^{60} + x^{44} + x^{20} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{120} + x^{119} + x^{113} + x^{111} + x^{108} + x^{106} + x^{105} \\
& + x^{103} + x^{102} + x^{100} + x^{97} + x^{94} + x^{92} + x^{91} + x^{90} + x^{84} + x^{83} + x^{82} \\
& + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{66} + x^{65} + x^{62} \\
& + x^{57} + x^{56} + x^{54} + x^{52} + x^{51} + x^{49} + x^{44} + x^{38} + x^{37} + x^{36} + x^{30}, \\
p_3(x) &= x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{112} + x^{111} + x^{108} + x^{107} \\
& + x^{106} + x^{103} + x^{100} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} \\
& + x^{85} + x^{84} + x^{81} + x^{78} + x^{77} + x^{76} + x^{75} + x^{72} + x^{71} + x^{69} + x^{68} \\
& + x^{64} + x^{63} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{48} + x^{44} + x^{42} + x^{41} \\
& + x^{40} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{22} + x^{20} + x^{17} \\
& + x^{14} + x^{12}, \\
p_6(x) &= x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{109} + x^{105} + x^{103} + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{93}
\end{aligned}$$

$$\begin{aligned}
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} \\
& + x^{77} + x^{75} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} + x^{63} + x^{62} + x^{61} \\
& + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\
& + x^{45} + x^{43} + x^{40} + x^{33} + x^{31} + x^{30} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} \\
& + x^{20} + x^{18} + x^{16} + x^{13} + x^{10} + x^8 + x^6 + x^5 + x^4 + 1, \\
p_9(x) = & x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} + x^{106} \\
& + x^{105} + x^{100} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} + x^{61} \\
& + x^{56} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{45} + x^{40} + x^{38} + x^{37} \\
& + x^{36} + x^{34} + x^{33} + x^{30} + x^{29} + x^{24} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{14} + x^{13} + x^{10} + x^9 + x^4, \\
p_{12}(x) = & x^{126} + x^{125} + x^{124} + x^{120} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} \\
& + x^{105} + x^{102} + x^{101} + x^{96} + x^{78} + x^{77} + x^{76} + x^{72} + x^{66} + x^{65} + x^{64} \\
& + x^{60} + x^{58} + x^{57} + x^{56} + x^{54} + x^{53} + x^{50} + x^{49} + x^{44} + x^{42} + x^{41} \\
& + x^{40} + x^{38} + x^{37} + x^{34} + x^{33} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} + x^{21} \\
& + x^{18} + x^{17} + x^{14} + x^{13} + x^{10} + x^9 + x^6 + x^5 + 1,
\end{aligned}$$

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

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]	2038	[3569, 3570]	4076	[6141, 1875]	6114	[4297, 7586]
1	[3, 4]	2039	[3571, 3557]	4077	[6142, 173]	6115	[7587, 7480]
2	[5, 6]	2040	[3496, 3572]	4078	[2732, 141]	6116	[7588, 1817]
3	[7, 8]	2041	[3573, 1650]	4079	[6143, 6144]	6117	[4365, 1031]
4	[9, 10]	2042	[3574, 294]	4080	[2008, 5791]	6118	[7589, 4612]
5	[11, 12]	2043	[80, 3575]	4081	[2009, 6014]	6119	[7590, 4854]
6	[13, 14]	2044	[289, 65]	4082	[753, 6145]	6120	[1522, 7591]
7	[15, 16]	2045	[3576, 3577]	4083	[2788, 5636]	6121	[3249, 4492]
8	[17, 18]	2046	[1796, 3578]	4084	[6146, 6147]	6122	[4838, 7589]
9	[19, 20]	2047	[3579, 3365]	4085	[5504, 5254]	6123	[1524, 4124]
10	[21, 22]	2048	[1236, 3580]	4086	[5944, 2825]	6124	[7591, 7302]
11	[23, 24]	2049	[3581, 434]	4087	[5410, 6148]	6125	[4759, 1352]
12	[25, 26]	2050	[3582, 3583]	4088	[6149, 6150]	6126	[7487, 1354]
13	[27, 28]	2051	[3584, 3238]	4089	[6151, 2654]	6127	[3836, 7491]
14	[29, 30]	2052	[3585, 3586]	4090	[6152, 6153]	6128	[112, 7592]
15	[31, 32]	2053	[3587, 3588]	4091	[6154, 2297]	6129	[383, 7593]
16	[33, 34]	2054	[3589, 3590]	4092	[2492, 6155]	6130	[7495, 4671]
17	[35, 36]	2055	[1631, 3591]	4093	[6156, 2680]	6131	[96, 4520]
18	[37, 38]	2056	[3592, 3593]	4094	[6157, 6158]	6132	[1644, 7594]
19	[39, 40]	2057	[3594, 3595]	4095	[2413, 6159]	6133	[7266, 3924]

20	[41, 42]	2058	[3596, 3597]	4096	[6160, 6161]	6134	[3970, 4636]
21	[43, 44]	2059	[1779, 3598]	4097	[6162, 6163]	6135	[3904, 3367]
22	[45, 46]	2060	[3599, 3600]	4098	[3099, 2470]	6136	[3242, 1393]
23	[47, 48]	2061	[3601, 3602]	4099	[6164, 6165]	6137	[7595, 4889]
24	[49, 50]	2062	[3603, 3604]	4100	[6166, 6167]	6138	[3790, 7596]
25	[51, 52]	2063	[3605, 3363]	4101	[6168, 639]	6139	[7018, 6943]
26	[53, 54]	2064	[3606, 3607]	4102	[6169, 6170]	6140	[3948, 7597]
27	[55, 56]	2065	[3608, 3609]	4103	[6171, 6081]	6141	[4632, 4384]
28	[57, 58]	2066	[3610, 3611]	4104	[6172, 5929]	6142	[4677, 4942]
29	[59, 60]	2067	[1138, 3612]	4105	[6173, 135]	6143	[7598, 3914]
30	[61, 62]	2068	[3408, 3613]	4106	[6174, 5429]	6144	[3377, 4061]
31	[63, 64]	2069	[3614, 3615]	4107	[2821, 6175]	6145	[1442, 7599]
32	[65, 66]	2070	[3616, 3423]	4108	[3070, 1834]	6146	[3314, 1406]
33	[67, 68]	2071	[3617, 3618]	4109	[245, 6176]	6147	[1485, 3712]
34	[69, 70]	2072	[3619, 3620]	4110	[2716, 5370]	6148	[7070, 3952]
35	[71, 72]	2073	[3621, 3431]	4111	[6177, 2217]	6149	[7600, 1471]
36	[73, 74]	2074	[3622, 3623]	4112	[5955, 2415]	6150	[6972, 4880]
37	[75, 76]	2075	[1798, 3624]	4113	[2878, 5646]	6151	[4613, 7528]
38	[77, 78]	2076	[1341, 3625]	4114	[6178, 6179]	6152	[7601, 4193]
39	[79, 80]	2077	[3626, 3627]	4115	[6180, 2071]	6153	[4123, 7464]
40	[81, 82]	2078	[1733, 3628]	4116	[6181, 6182]	6154	[4170, 7223]
41	[83, 84]	2079	[3629, 3630]	4117	[6183, 1921]	6155	[4232, 1616]
42	[85, 86]	2080	[3631, 3632]	4118	[6175, 6184]	6156	[7602, 1116]
43	[87, 88]	2081	[3633, 3634]	4119	[5947, 782]	6157	[7294, 3266]
44	[89, 90]	2082	[3635, 3636]	4120	[2629, 6185]	6158	[4394, 7603]
45	[91, 92]	2083	[1127, 3637]	4121	[2024, 5660]	6159	[7604, 7338]
46	[93, 94]	2084	[3638, 3639]	4122	[6186, 5835]	6160	[1666, 7404]
47	[95, 96]	2085	[3640, 3641]	4123	[2175, 5998]	6161	[1551, 4990]
48	[97, 98]	2086	[3642, 3643]	4124	[2749, 2337]	6162	[3813, 7605]
49	[99, 100]	2087	[3644, 3645]	4125	[48, 3036]	6163	[1129, 7606]
50	[101, 102]	2088	[3646, 3647]	4126	[3168, 656]	6164	[3661, 7075]
51	[103, 104]	2089	[3648, 3649]	4127	[3148, 2870]	6165	[7607, 3533]
52	[105, 106]	2090	[3650, 115]	4128	[6187, 6188]	6166	[3892, 3711]
53	[107, 108]	2091	[3651, 3652]	4129	[6189, 6190]	6167	[7118, 4591]
54	[109, 110]	2092	[3653, 3654]	4130	[6191, 735]	6168	[7362, 1489]
55	[111, 112]	2093	[1300, 3655]	4131	[6192, 6193]	6169	[4567, 7590]
56	[113, 114]	2094	[3656, 3657]	4132	[5518, 2082]	6170	[3492, 7608]
57	[115, 116]	2095	[3658, 3659]	4133	[5752, 6194]	6171	[7420, 7498]
58	[117, 118]	2096	[3660, 3661]	4134	[6195, 5666]	6172	[4974, 7497]
59	[119, 120]	2097	[3662, 395]	4135	[856, 2497]	6173	[7245, 4641]
60	[121, 122]	2098	[3663, 3664]	4136	[6196, 1917]	6174	[7592, 5019]
61	[123, 124]	2099	[3665, 1786]	4137	[6197, 2557]	6175	[4411, 3710]
62	[125, 126]	2100	[3666, 968]	4138	[6198, 5864]	6176	[7609, 3969]
63	[127, 128]	2101	[3667, 3668]	4139	[6199, 5121]	6177	[7610, 4127]

64	[129, 130]	2102	[264, 3669]	4140	[6200, 2522]	6178	[7326, 6925]
65	[131, 132]	2103	[3670, 3671]	4141	[6201, 6202]	6179	[4719, 7213]
66	[133, 134]	2104	[3320, 397]	4142	[5859, 6203]	6180	[4172, 4960]
67	[135, 136]	2105	[3672, 3673]	4143	[6204, 5302]	6181	[7536, 7611]
68	[137, 138]	2106	[3674, 3675]	4144	[655, 5812]	6182	[7414, 3610]
69	[139, 140]	2107	[3676, 3677]	4145	[5307, 2610]	6183	[3657, 3386]
70	[141, 142]	2108	[3624, 3678]	4146	[5925, 6205]	6184	[1111, 7612]
71	[143, 144]	2109	[3679, 3680]	4147	[916, 3169]	6185	[1446, 7613]
72	[145, 146]	2110	[1221, 3681]	4148	[2897, 6206]	6186	[4084, 4108]
73	[147, 148]	2111	[3292, 3682]	4149	[2168, 6207]	6187	[5017, 7614]
74	[149, 150]	2112	[3683, 3506]	4150	[5551, 6173]	6188	[7615, 7616]
75	[151, 152]	2113	[3684, 3685]	4151	[6098, 5942]	6189	[4140, 7322]
76	[153, 154]	2114	[3686, 3441]	4152	[6208, 6196]	6190	[1597, 3336]
77	[155, 156]	2115	[3687, 3688]	4153	[6209, 2729]	6191	[4404, 7557]
78	[157, 158]	2116	[3689, 3690]	4154	[2226, 6210]	6192	[7278, 7602]
79	[159, 160]	2117	[3691, 3692]	4155	[6211, 6152]	6193	[3475, 1791]
80	[161, 162]	2118	[3664, 3656]	4156	[6212, 2746]	6194	[7617, 6917]
81	[163, 164]	2119	[3693, 3694]	4157	[6213, 5204]	6195	[7053, 4410]
82	[165, 166]	2120	[3695, 3696]	4158	[6214, 6215]	6196	[4713, 3378]
83	[167, 168]	2121	[3697, 1641]	4159	[638, 2069]	6197	[7477, 7433]
84	[169, 170]	2122	[3698, 1793]	4160	[6216, 6217]	6198	[7618, 7311]
85	[171, 172]	2123	[1167, 3699]	4161	[2292, 6218]	6199	[7619, 3998]
86	[173, 174]	2124	[3700, 3701]	4162	[6219, 6220]	6200	[3417, 7620]
87	[175, 176]	2125	[3539, 3702]	4163	[2988, 849]	6201	[7621, 3768]
88	[177, 178]	2126	[3703, 3704]	4164	[2486, 6221]	6202	[1789, 5078]
89	[179, 180]	2127	[3705, 3299]	4165	[2418, 5528]	6203	[7447, 7622]
90	[181, 182]	2128	[3706, 3707]	4166	[547, 5212]	6204	[7623, 322]
91	[183, 184]	2129	[3708, 1552]	4167	[1863, 6222]	6205	[7624, 302]
92	[185, 186]	2130	[3461, 3709]	4168	[6223, 628]	6206	[4729, 4849]
93	[187, 188]	2131	[3710, 3481]	4169	[6224, 6225]	6207	[3769, 7625]
94	[189, 190]	2132	[3711, 3683]	4170	[6226, 5827]	6208	[7122, 7212]
95	[191, 192]	2133	[3712, 3713]	4171	[6227, 6228]	6209	[7132, 7247]
96	[193, 194]	2134	[3714, 3715]	4172	[2268, 6229]	6210	[3519, 7626]
97	[195, 196]	2135	[3716, 1059]	4173	[2187, 2638]	6211	[7289, 7627]
98	[197, 198]	2136	[1099, 3443]	4174	[6230, 6231]	6212	[1468, 7628]
99	[199, 200]	2137	[3717, 3718]	4175	[6059, 6232]	6213	[3702, 6861]
100	[201, 202]	2138	[3719, 3720]	4176	[2072, 6233]	6214	[1317, 7190]
101	[203, 204]	2139	[3721, 3722]	4177	[2578, 6234]	6215	[7629, 3789]
102	[205, 206]	2140	[3723, 3724]	4178	[6235, 697]	6216	[345, 7630]
103	[207, 208]	2141	[3725, 3726]	4179	[6236, 6237]	6217	[3253, 7555]
104	[209, 210]	2142	[3727, 3728]	4180	[6238, 5958]	6218	[4667, 4487]
105	[211, 212]	2143	[3729, 3730]	4181	[3039, 5980]	6219	[4642, 6968]
106	[213, 214]	2144	[3731, 1160]	4182	[5976, 2781]	6220	[7631, 1178]
107	[215, 216]	2145	[3732, 3733]	4183	[3177, 6239]	6221	[3422, 4512]

108	[217, 218]	2146	[3734, 1210]	4184	[6139, 6240]	6222	[3290, 3403]
109	[219, 220]	2147	[3735, 3736]	4185	[2364, 6000]	6223	[1411, 7540]
110	[221, 222]	2148	[3737, 1613]	4186	[6241, 5816]	6224	[1387, 7632]
111	[223, 224]	2149	[3738, 3739]	4187	[3064, 2164]	6225	[7172, 1416]
112	[225, 226]	2150	[3740, 3741]	4188	[6040, 6242]	6226	[1056, 7171]
113	[227, 228]	2151	[3742, 3376]	4189	[1825, 3071]	6227	[7313, 3230]
114	[229, 230]	2152	[3743, 3744]	4190	[5919, 6243]	6228	[7633, 3338]
115	[231, 232]	2153	[1413, 3745]	4191	[5921, 2334]	6229	[3919, 7561]
116	[233, 234]	2154	[3746, 1632]	4192	[780, 6178]	6230	[7512, 7163]
117	[235, 236]	2155	[3747, 3748]	4193	[6244, 6212]	6231	[454, 7634]
118	[212, 237]	2156	[3749, 3407]	4194	[2948, 1998]	6232	[7556, 7635]
119	[238, 239]	2157	[3750, 3751]	4195	[6245, 2549]	6233	[7407, 7227]
120	[240, 241]	2158	[3752, 3753]	4196	[6246, 6247]	6234	[1818, 1158]
121	[242, 243]	2159	[3754, 3755]	4197	[2446, 6154]	6235	[1581, 1342]
122	[244, 245]	2160	[3756, 3757]	4198	[5961, 590]	6236	[4690, 4452]
123	[144, 246]	2161	[3758, 3734]	4199	[952, 2107]	6237	[7636, 7128]
124	[247, 248]	2162	[3759, 3760]	4200	[6248, 6249]	6238	[4877, 4186]
125	[249, 250]	2163	[3761, 3762]	4201	[6250, 5577]	6239	[1814, 7637]
126	[251, 252]	2164	[3763, 1521]	4202	[6251, 6252]	6240	[1498, 1348]
127	[253, 254]	2165	[3764, 3765]	4203	[6253, 6254]	6241	[4438, 5006]
128	[255, 256]	2166	[3766, 3767]	4204	[6255, 2093]	6242	[7638, 7565]
129	[257, 258]	2167	[3768, 3769]	4205	[3152, 1867]	6243	[7488, 7504]
130	[259, 260]	2168	[3770, 3729]	4206	[6256, 1973]	6244	[3564, 4566]
131	[261, 262]	2169	[3771, 3772]	4207	[6257, 582]	6245	[3863, 4190]
132	[263, 264]	2170	[3498, 3773]	4208	[6258, 812]	6246	[7393, 4999]
133	[265, 266]	2171	[3774, 3775]	4209	[6259, 6260]	6247	[3852, 1718]
134	[267, 268]	2172	[3776, 3777]	4210	[6261, 6226]	6248	[4545, 7639]
135	[269, 123]	2173	[3778, 3779]	4211	[5462, 6262]	6249	[1269, 1208]
136	[270, 271]	2174	[3780, 3781]	4212	[6263, 5778]	6250	[7640, 7641]
137	[272, 273]	2175	[1753, 1774]	4213	[6264, 6265]	6251	[4697, 7642]
138	[274, 275]	2176	[1757, 1742]	4214	[2706, 6266]	6252	[7643, 7539]
139	[276, 277]	2177	[3782, 3783]	4215	[154, 2589]	6253	[3954, 6934]
140	[278, 279]	2178	[3681, 3784]	4216	[5403, 6267]	6254	[4415, 1334]
141	[280, 281]	2179	[256, 3785]	4217	[6147, 6268]	6255	[7644, 5026]
142	[282, 283]	2180	[3786, 3787]	4218	[5235, 6269]	6256	[4599, 7645]
143	[284, 285]	2181	[1121, 3788]	4219	[6270, 5769]	6257	[7646, 1287]
144	[286, 287]	2182	[3789, 3790]	4220	[6271, 6272]	6258	[4510, 1546]
145	[288, 289]	2183	[422, 3791]	4221	[6273, 837]	6259	[7471, 7647]
146	[290, 291]	2184	[3792, 3793]	4222	[3208, 2412]	6260	[4424, 7648]
147	[292, 293]	2185	[3794, 3795]	4223	[6274, 5141]	6261	[7649, 7383]
148	[294, 295]	2186	[3796, 3797]	4224	[6275, 5306]	6262	[4945, 5057]
149	[296, 297]	2187	[3798, 3799]	4225	[6276, 5753]	6263	[7650, 7071]
150	[298, 299]	2188	[3800, 3801]	4226	[6277, 1982]	6264	[3959, 7651]
151	[300, 301]	2189	[3802, 3803]	4227	[2459, 6278]	6265	[7652, 1569]

152	[302, 303]	2190	[3804, 306]	4228	[5609, 1938]	6266	[4869, 4215]
153	[304, 305]	2191	[1105, 376]	4229	[2355, 6279]	6267	[4309, 4533]
154	[306, 307]	2192	[3805, 3806]	4230	[6280, 1971]	6268	[3709, 4711]
155	[308, 309]	2193	[3807, 3808]	4231	[6281, 2896]	6269	[6980, 1045]
156	[310, 311]	2194	[3677, 3809]	4232	[5136, 6282]	6270	[7574, 3277]
157	[312, 313]	2195	[3810, 3811]	4233	[6283, 6284]	6271	[7116, 4538]
158	[314, 315]	2196	[400, 3812]	4234	[6285, 5867]	6272	[7653, 7654]
159	[316, 317]	2197	[1076, 3813]	4235	[1903, 6286]	6273	[7655, 1255]
160	[318, 319]	2198	[3814, 3815]	4236	[5216, 6287]	6274	[84, 4594]
161	[320, 321]	2199	[1579, 1065]	4237	[6288, 602]	6275	[7656, 7304]
162	[322, 323]	2200	[3816, 3817]	4238	[6289, 6290]	6276	[6986, 7386]
163	[324, 325]	2201	[3818, 3819]	4239	[6291, 2946]	6277	[7319, 3483]
164	[326, 327]	2202	[447, 3820]	4240	[6282, 2194]	6278	[7228, 3427]
165	[328, 329]	2203	[3821, 1053]	4241	[6292, 6293]	6279	[3460, 7657]
166	[330, 331]	2204	[3822, 3823]	4242	[5651, 6294]	6280	[4912, 7186]
167	[332, 333]	2205	[359, 3824]	4243	[741, 6295]	6281	[7583, 4743]
168	[334, 335]	2206	[3825, 3826]	4244	[2313, 2990]	6282	[3287, 7564]
169	[336, 337]	2207	[3827, 3828]	4245	[6296, 6297]	6283	[427, 7658]
170	[338, 339]	2208	[3829, 3830]	4246	[6298, 6299]	6284	[7659, 1592]
171	[340, 341]	2209	[3831, 3832]	4247	[5744, 2652]	6285	[7479, 6874]
172	[342, 343]	2210	[3833, 3834]	4248	[6300, 6301]	6286	[3352, 7660]
173	[344, 345]	2211	[3835, 3836]	4249	[6302, 1906]	6287	[6965, 7073]
174	[346, 347]	2212	[3724, 3837]	4250	[6303, 2992]	6288	[3762, 7173]
175	[348, 349]	2213	[3838, 3631]	4251	[6304, 6305]	6289	[1437, 7661]
176	[350, 351]	2214	[275, 1487]	4252	[5570, 6306]	6290	[3595, 1431]
177	[352, 353]	2215	[425, 3839]	4253	[6307, 6308]	6291	[4744, 7463]
178	[354, 355]	2216	[1472, 3840]	4254	[704, 821]	6292	[7252, 3792]
179	[356, 357]	2217	[3841, 1765]	4255	[2770, 2407]	6293	[7084, 7532]
180	[358, 359]	2218	[3842, 3843]	4256	[3183, 6309]	6294	[7662, 4646]
181	[360, 361]	2219	[3568, 3844]	4257	[6310, 6311]	6295	[7663, 7274]
182	[362, 363]	2220	[3845, 3846]	4258	[5699, 2440]	6296	[7613, 7221]
183	[364, 365]	2221	[3847, 1484]	4259	[6037, 6312]	6297	[7452, 7604]
184	[366, 367]	2222	[3834, 455]	4260	[6313, 2277]	6298	[7664, 99]
185	[368, 369]	2223	[3848, 3849]	4261	[6314, 5234]	6299	[1430, 5059]
186	[370, 371]	2224	[3649, 3850]	4262	[6315, 6316]	6300	[7586, 7665]
187	[372, 373]	2225	[3851, 3852]	4263	[6317, 6318]	6301	[7666, 7667]
188	[374, 375]	2226	[3853, 3854]	4264	[6319, 5547]	6302	[3832, 7580]
189	[376, 377]	2227	[3855, 3342]	4265	[6320, 6321]	6303	[7545, 4009]
190	[378, 379]	2228	[3856, 3857]	4266	[6293, 5470]	6304	[327, 7668]
191	[380, 381]	2229	[3858, 3859]	4267	[6322, 2976]	6305	[7669, 1637]
192	[382, 383]	2230	[3860, 3861]	4268	[6323, 6324]	6306	[4486, 4900]
193	[384, 385]	2231	[3862, 3863]	4269	[2444, 6325]	6307	[6958, 4200]
194	[386, 387]	2232	[3864, 3865]	4270	[6326, 2727]	6308	[7670, 7607]
195	[388, 389]	2233	[3866, 3867]	4271	[2766, 3182]	6309	[5067, 7617]

196	[390, 391]	2234	[3868, 3869]	4272	[6089, 538]	6310	[4549, 1148]
197	[392, 83]	2235	[1234, 1098]	4273	[543, 5933]	6311	[3549, 1150]
198	[393, 394]	2236	[3870, 3871]	4274	[6327, 6328]	6312	[1629, 7035]
199	[395, 396]	2237	[3872, 3873]	4275	[6329, 6224]	6313	[7671, 3629]
200	[397, 398]	2238	[3874, 3875]	4276	[6330, 6331]	6314	[7422, 7672]
201	[399, 400]	2239	[3785, 3876]	4277	[2479, 6332]	6315	[1723, 4434]
202	[401, 402]	2240	[3787, 3877]	4278	[224, 6333]	6316	[1181, 4425]
203	[403, 404]	2241	[3512, 3878]	4279	[6334, 5779]	6317	[1265, 4514]
204	[405, 406]	2242	[3879, 3880]	4280	[6335, 6336]	6318	[4770, 1235]
205	[407, 408]	2243	[3881, 3882]	4281	[6337, 2358]	6319	[7673, 3752]
206	[409, 23]	2244	[3883, 3884]	4282	[6106, 1836]	6320	[7674, 3911]
207	[410, 411]	2245	[3885, 1772]	4283	[5963, 5126]	6321	[7675, 4208]
208	[412, 413]	2246	[3886, 3467]	4284	[6104, 6338]	6322	[7676, 4428]
209	[414, 415]	2247	[3887, 1434]	4285	[5328, 1832]	6323	[7153, 7108]
210	[416, 417]	2248	[3888, 3889]	4286	[2191, 3081]	6324	[7677, 7631]
211	[418, 274]	2249	[1375, 3890]	4287	[5394, 3047]	6325	[4166, 7272]
212	[419, 420]	2250	[3891, 3892]	4288	[6339, 6340]	6326	[6890, 4414]
213	[421, 422]	2251	[3893, 3894]	4289	[6341, 6342]	6327	[7449, 7678]
214	[423, 257]	2252	[3895, 3896]	4290	[6343, 6344]	6328	[7679, 7174]
215	[424, 425]	2253	[3897, 3898]	4291	[710, 6314]	6329	[7637, 4666]
216	[426, 427]	2254	[3899, 3900]	4292	[2639, 217]	6330	[1286, 7587]
217	[428, 429]	2255	[3477, 1495]	4293	[6064, 6345]	6331	[7680, 7588]
218	[430, 431]	2256	[3901, 3902]	4294	[2469, 6346]	6332	[1475, 7032]
219	[432, 433]	2257	[3903, 3904]	4295	[2150, 6347]	6333	[6944, 7680]
220	[434, 435]	2258	[3905, 3906]	4296	[6297, 6348]	6334	[3288, 7397]
221	[436, 437]	2259	[3907, 3908]	4297	[6338, 6349]	6335	[3996, 7451]
222	[438, 439]	2260	[3909, 3910]	4298	[846, 752]	6336	[396, 7151]
223	[440, 441]	2261	[1094, 1192]	4299	[649, 890]	6337	[4446, 3646]
224	[442, 443]	2262	[3911, 1453]	4300	[2129, 5251]	6338	[301, 5072]
225	[444, 445]	2263	[1070, 3912]	4301	[871, 6350]	6339	[4648, 1493]
226	[446, 447]	2264	[3913, 1680]	4302	[6351, 6352]	6340	[7681, 7682]
227	[448, 449]	2265	[3914, 3915]	4303	[5510, 6353]	6341	[4463, 7683]
228	[450, 451]	2266	[3916, 3917]	4304	[172, 6354]	6342	[7684, 7548]
229	[452, 453]	2267	[3918, 3919]	4305	[174, 6216]	6343	[7560, 7685]
230	[22, 454]	2268	[3920, 3921]	4306	[2761, 5356]	6344	[28, 3453]
231	[455, 456]	2269	[3922, 3923]	4307	[2261, 201]	6345	[7686, 4757]
232	[457, 458]	2270	[3924, 3925]	4308	[6355, 6330]	6346	[7687, 3476]
233	[459, 460]	2271	[3296, 3926]	4309	[6234, 6156]	6347	[3739, 304]
234	[461, 462]	2272	[3927, 3928]	4310	[6356, 2626]	6348	[7688, 7250]
235	[463, 464]	2273	[3929, 3930]	4311	[2134, 6357]	6349	[7689, 3891]
236	[465, 466]	2274	[3312, 3931]	4312	[2303, 6358]	6350	[1649, 4420]
237	[467, 468]	2275	[64, 3932]	4313	[5833, 5303]	6351	[4475, 3411]
238	[469, 470]	2276	[3933, 3934]	4314	[130, 6359]	6352	[3760, 7209]
239	[471, 472]	2277	[3935, 3936]	4315	[5712, 5847]	6353	[1743, 7643]

240	[473, 474]	2278	[3937, 1277]	4316	[2504, 5555]	6354	[341, 4568]
241	[475, 476]	2279	[3938, 3939]	4317	[204, 2801]	6355	[4885, 7526]
242	[477, 478]	2280	[3940, 3324]	4318	[206, 2594]	6356	[3926, 7690]
243	[479, 480]	2281	[3941, 1671]	4319	[3103, 6360]	6357	[7060, 1604]
244	[481, 482]	2282	[3882, 3449]	4320	[6361, 6362]	6358	[6866, 7691]
245	[483, 484]	2283	[3942, 3584]	4321	[6363, 2438]	6359	[258, 7511]
246	[485, 486]	2284	[3943, 3944]	4322	[6364, 6365]	6360	[7246, 7131]
247	[487, 488]	2285	[3945, 1259]	4323	[2592, 2686]	6361	[7692, 7283]
248	[489, 278]	2286	[1481, 3946]	4324	[6366, 6367]	6362	[7141, 7693]
249	[490, 491]	2287	[3947, 3948]	4325	[6368, 6369]	6363	[268, 7694]
250	[492, 493]	2288	[3949, 3950]	4326	[2991, 613]	6364	[7667, 6927]
251	[494, 495]	2289	[3951, 1669]	4327	[5956, 6370]	6365	[7695, 6867]
252	[496, 497]	2290	[3952, 3601]	4328	[6371, 2898]	6366	[5046, 7696]
253	[498, 499]	2291	[3953, 3954]	4329	[2370, 6032]	6367	[3783, 4227]
254	[500, 501]	2292	[3955, 3394]	4330	[6372, 5949]	6368	[433, 7143]
255	[502, 503]	2293	[3956, 3957]	4331	[6373, 6062]	6369	[7697, 7492]
256	[504, 505]	2294	[90, 1041]	4332	[5665, 2484]	6370	[7603, 3938]
257	[506, 507]	2295	[3958, 3959]	4333	[2242, 6374]	6371	[7099, 16]
258	[508, 509]	2296	[3960, 3961]	4334	[6375, 5444]	6372	[4998, 1587]
259	[510, 137]	2297	[1794, 3698]	4335	[6376, 506]	6373	[4806, 436]
260	[511, 512]	2298	[1421, 3962]	4336	[637, 6377]	6374	[4087, 4860]
261	[513, 514]	2299	[3963, 3964]	4337	[6378, 6379]	6375	[7456, 7159]
262	[515, 516]	2300	[3965, 3966]	4338	[6380, 6381]	6376	[4847, 7034]
263	[517, 518]	2301	[3967, 3968]	4339	[2613, 6382]	6377	[7112, 7698]
264	[519, 520]	2302	[3969, 3970]	4340	[539, 6383]	6378	[1463, 3953]
265	[521, 522]	2303	[3971, 3972]	4341	[6384, 6385]	6379	[7423, 7699]
266	[523, 524]	2304	[3973, 3974]	4342	[6386, 6387]	6380	[7550, 7064]
267	[525, 526]	2305	[3696, 3975]	4343	[5561, 5248]	6381	[7700, 7059]
268	[527, 528]	2306	[1211, 3569]	4344	[5667, 6388]	6382	[7530, 1591]
269	[529, 247]	2307	[3976, 1585]	4345	[5659, 6389]	6383	[1648, 3735]
270	[530, 531]	2308	[3977, 3978]	4346	[5115, 6390]	6384	[7701, 7041]
271	[532, 533]	2309	[3979, 3980]	4347	[5643, 2020]	6385	[3615, 3743]
272	[534, 535]	2310	[3981, 3982]	4348	[6391, 5736]	6386	[4542, 3829]
273	[536, 537]	2311	[1683, 3425]	4349	[5371, 2155]	6387	[4, 7158]
274	[538, 539]	2312	[1760, 1813]	4350	[5796, 6168]	6388	[3715, 7078]
275	[540, 541]	2313	[3983, 3984]	4351	[6392, 3018]	6389	[7702, 7297]
276	[542, 543]	2314	[3985, 3986]	4352	[6393, 6244]	6390	[7079, 7703]
277	[544, 545]	2315	[3987, 3345]	4353	[6394, 191]	6391	[7207, 6995]
278	[546, 547]	2316	[3988, 3989]	4354	[1861, 2495]	6392	[3235, 1307]
279	[548, 549]	2317	[3990, 3991]	4355	[6395, 5316]	6393	[7254, 1611]
280	[550, 551]	2318	[3992, 1402]	4356	[2166, 2887]	6394	[6907, 382]
281	[552, 553]	2319	[3880, 3993]	4357	[6221, 2007]	6395	[7704, 5012]
282	[554, 555]	2320	[3482, 3994]	4358	[5269, 3049]	6396	[4721, 3576]
283	[556, 557]	2321	[3995, 3996]	4359	[6396, 6397]	6397	[4574, 3774]

284	[558, 559]	2322	[3580, 3997]	4360	[5582, 6398]	6398	[4752, 4206]
285	[560, 561]	2323	[3998, 3999]	4361	[6025, 5255]	6399	[7690, 288]
286	[562, 563]	2324	[4000, 1655]	4362	[6399, 5591]	6400	[1161, 1152]
287	[564, 565]	2325	[1488, 1244]	4363	[601, 6400]	6401	[3875, 7573]
288	[549, 131]	2326	[4001, 1249]	4364	[2858, 6401]	6402	[266, 7057]
289	[566, 567]	2327	[4002, 332]	4365	[2595, 2171]	6403	[3826, 4497]
290	[568, 569]	2328	[4003, 1400]	4366	[6402, 6403]	6404	[4214, 4750]
291	[570, 571]	2329	[4004, 4005]	4367	[6404, 2744]	6405	[4482, 7705]
292	[572, 573]	2330	[4006, 4007]	4368	[2679, 6405]	6406	[1504, 3289]
293	[574, 575]	2331	[4008, 1285]	4369	[789, 6406]	6407	[7706, 7161]
294	[576, 577]	2332	[4009, 4010]	4370	[5766, 6009]	6408	[3854, 1369]
295	[578, 579]	2333	[4011, 4012]	4371	[6407, 5975]	6409	[3748, 7411]
296	[580, 581]	2334	[4013, 3486]	4372	[5335, 2696]	6410	[7707, 7708]
297	[582, 583]	2335	[262, 1459]	4373	[5420, 6408]	6411	[4273, 7709]
298	[584, 585]	2336	[4014, 4015]	4374	[3088, 2661]	6412	[7616, 4139]
299	[586, 587]	2337	[4016, 3872]	4375	[6182, 5822]	6413	[7710, 430]
300	[588, 589]	2338	[3777, 392]	4376	[6409, 6410]	6414	[4173, 7049]
301	[590, 591]	2339	[4017, 3271]	4377	[6411, 2537]	6415	[7639, 7711]
302	[592, 593]	2340	[4018, 4019]	4378	[6412, 6413]	6416	[4961, 7515]
303	[594, 595]	2341	[1741, 4020]	4379	[1976, 5564]	6417	[1096, 1139]
304	[596, 597]	2342	[1802, 4021]	4380	[6414, 808]	6418	[7712, 7713]
305	[598, 599]	2343	[3869, 3903]	4381	[5111, 5392]	6419	[7410, 7396]
306	[600, 601]	2344	[4022, 4023]	4382	[6249, 6415]	6420	[4100, 4286]
307	[602, 603]	2345	[4024, 4025]	4383	[1935, 6416]	6421	[7714, 4321]
308	[604, 605]	2346	[4026, 1660]	4384	[6417, 2281]	6422	[7013, 1795]
309	[606, 607]	2347	[4027, 4028]	4385	[6418, 6419]	6423	[4850, 7546]
310	[148, 608]	2348	[4029, 4030]	4386	[2886, 2524]	6424	[6888, 7520]
311	[609, 610]	2349	[4031, 4032]	4387	[5134, 6420]	6425	[7585, 3847]
312	[611, 612]	2350	[4033, 119]	4388	[1841, 6421]	6426	[1652, 7399]
313	[613, 562]	2351	[4034, 4035]	4389	[192, 6045]	6427	[6954, 3956]
314	[614, 615]	2352	[4036, 4037]	4390	[6422, 3023]	6428	[4578, 1006]
315	[616, 617]	2353	[4038, 4039]	4391	[5319, 6423]	6429	[4683, 7715]
316	[618, 619]	2354	[4040, 4041]	4392	[2587, 1911]	6430	[4427, 1260]
317	[620, 621]	2355	[4020, 372]	4393	[5865, 5881]	6431	[7381, 4323]
318	[622, 623]	2356	[4042, 4043]	4394	[3154, 6238]	6432	[7716, 1686]
319	[624, 625]	2357	[1381, 3390]	4395	[6424, 5983]	6433	[7446, 4245]
320	[626, 627]	2358	[4044, 4045]	4396	[5301, 2962]	6434	[4984, 7707]
321	[628, 629]	2359	[4046, 4047]	4397	[6425, 6426]	6435	[4202, 7257]
322	[630, 631]	2360	[3412, 3868]	4398	[6427, 6428]	6436	[7651, 7230]
323	[632, 633]	2361	[1103, 3616]	4399	[6429, 6430]	6437	[1025, 7005]
324	[634, 635]	2362	[3791, 3589]	4400	[6431, 5837]	6438	[7571, 7600]
325	[636, 637]	2363	[1373, 4048]	4401	[5640, 6050]	6439	[7594, 4964]
326	[134, 638]	2364	[4049, 4050]	4402	[6432, 1984]	6440	[4830, 3255]
327	[639, 640]	2365	[4051, 4052]	4403	[6079, 6433]	6441	[7717, 4031]

328	[641, 642]	2366	[4053, 3941]	4404	[5992, 6434]	6442	[7718, 356]
329	[643, 644]	2367	[4054, 4055]	4405	[2043, 620]	6443	[1226, 4171]
330	[645, 13]	2368	[4056, 4057]	4406	[5852, 2101]	6444	[5047, 3605]
331	[646, 647]	2369	[1389, 4058]	4407	[5917, 2443]	6445	[4952, 4480]
332	[648, 649]	2370	[4059, 4060]	4408	[6435, 6436]	6446	[3736, 7244]
333	[650, 651]	2371	[4061, 3708]	4409	[6437, 5799]	6447	[6967, 7063]
334	[652, 653]	2372	[4062, 4063]	4410	[6438, 5845]	6448	[7719, 7307]
335	[654, 655]	2373	[4064, 4065]	4411	[6439, 6440]	6449	[7720, 3706]
336	[656, 213]	2374	[4066, 4067]	4412	[6441, 6442]	6450	[6863, 7426]
337	[657, 658]	2375	[4068, 4069]	4413	[557, 1988]	6451	[7721, 1248]
338	[659, 660]	2376	[4070, 4071]	4414	[232, 6355]	6452	[26, 7684]
339	[661, 662]	2377	[3344, 4072]	4415	[6443, 2445]	6453	[7522, 461]
340	[663, 664]	2378	[4073, 4074]	4416	[6010, 6439]	6454	[5062, 4336]
341	[665, 666]	2379	[4075, 4076]	4417	[6444, 2967]	6455	[7516, 7358]
342	[561, 667]	2380	[3939, 3384]	4418	[6269, 5885]	6456	[7722, 3960]
343	[668, 669]	2381	[4077, 4078]	4419	[2874, 6445]	6457	[3322, 7659]
344	[670, 671]	2382	[4079, 1212]	4420	[2148, 6446]	6458	[7440, 3721]
345	[672, 673]	2383	[4080, 4081]	4421	[3201, 6447]	6459	[7723, 7724]
346	[674, 675]	2384	[4082, 1292]	4422	[5362, 2482]	6460	[7552, 3858]
347	[676, 677]	2385	[4083, 4084]	4423	[5165, 6448]	6461	[4226, 3716]
348	[678, 679]	2386	[4085, 3940]	4424	[6449, 5554]	6462	[4071, 1188]
349	[680, 681]	2387	[4086, 4087]	4425	[6020, 6450]	6463	[5070, 7031]
350	[682, 683]	2388	[4088, 254]	4426	[6451, 2326]	6464	[7606, 7236]
351	[684, 685]	2389	[4089, 3827]	4427	[6452, 5596]	6465	[4429, 3856]
352	[686, 687]	2390	[4090, 3759]	4428	[3054, 5911]	6466	[7725, 7126]
353	[688, 552]	2391	[4091, 3746]	4429	[6453, 6454]	6467	[4179, 358]
354	[689, 690]	2392	[4092, 4093]	4430	[6455, 6456]	6468	[7726, 3693]
355	[691, 692]	2393	[1577, 4094]	4431	[6457, 6283]	6469	[7647, 7619]
356	[693, 694]	2394	[3374, 4095]	4432	[5846, 6458]	6470	[1207, 4577]
357	[695, 696]	2395	[4096, 4097]	4433	[5458, 6151]	6471	[4735, 1229]
358	[697, 698]	2396	[4098, 1662]	4434	[700, 6459]	6472	[7505, 4859]
359	[699, 700]	2397	[4099, 4100]	4435	[5408, 5222]	6473	[1612, 7179]
360	[701, 702]	2398	[4101, 4102]	4436	[962, 5641]	6474	[4893, 7727]
361	[703, 704]	2399	[4103, 4104]	4437	[6460, 6368]	6475	[7728, 7729]
362	[705, 706]	2400	[4105, 4106]	4438	[2077, 5732]	6476	[4110, 7531]
363	[198, 41]	2401	[381, 4107]	4439	[2605, 2350]	6477	[3669, 6982]
364	[707, 708]	2402	[4108, 4109]	4440	[5771, 965]	6478	[4727, 3796]
365	[709, 710]	2403	[1540, 4110]	4441	[5977, 6461]	6479	[4182, 1544]
366	[711, 712]	2404	[4111, 4112]	4442	[2377, 6462]	6480	[6976, 7730]
367	[713, 714]	2405	[4113, 4114]	4443	[759, 6463]	6481	[7310, 4046]
368	[715, 716]	2406	[4115, 1634]	4444	[6464, 5538]	6482	[7731, 4089]
369	[717, 718]	2407	[4116, 1658]	4445	[6220, 5217]	6483	[4408, 4308]
370	[719, 720]	2408	[3323, 4117]	4446	[5763, 2893]	6484	[1213, 7206]
371	[721, 722]	2409	[1804, 3552]	4447	[6389, 5628]	6485	[7366, 7732]

372	[723, 724]	2410	[3765, 459]	4448	[2636, 6465]	6486	[7507, 4734]
373	[725, 726]	2411	[4118, 4119]	4449	[2554, 5333]	6487	[7733, 1216]
374	[727, 728]	2412	[3391, 4120]	4450	[1974, 6466]	6488	[7611, 424]
375	[729, 730]	2413	[4121, 4122]	4451	[160, 3075]	6489	[7734, 6900]
376	[731, 732]	2414	[1169, 4123]	4452	[6467, 6468]	6490	[3259, 1758]
377	[733, 734]	2415	[4124, 3899]	4453	[5709, 2382]	6491	[3263, 7261]
378	[735, 736]	2416	[4125, 4126]	4454	[1868, 6395]	6492	[3525, 1324]
379	[737, 738]	2417	[4127, 4128]	4455	[509, 6469]	6493	[7634, 7553]
380	[739, 740]	2418	[4129, 4130]	4456	[5491, 5802]	6494	[98, 362]
381	[12, 741]	2419	[4131, 3563]	4457	[6403, 6036]	6495	[1232, 4580]
382	[742, 743]	2420	[4132, 4133]	4458	[6470, 2010]	6496	[7735, 7736]
383	[744, 745]	2421	[4134, 4135]	4459	[2949, 6471]	6497	[7648, 4650]
384	[746, 747]	2422	[4136, 1022]	4460	[5695, 1915]	6498	[6978, 1069]
385	[748, 749]	2423	[4137, 4138]	4461	[6472, 6473]	6499	[5092, 6988]
386	[750, 751]	2424	[4139, 4140]	4462	[6474, 6475]	6500	[7416, 5091]
387	[752, 753]	2425	[4141, 1560]	4463	[5838, 5534]	6501	[4212, 7737]
388	[754, 755]	2426	[4142, 4143]	4464	[3134, 2182]	6502	[7478, 3920]
389	[756, 757]	2427	[4144, 3766]	4465	[6476, 6477]	6503	[5061, 1532]
390	[758, 759]	2428	[4145, 4146]	4466	[6478, 933]	6504	[7572, 7135]
391	[760, 761]	2429	[4147, 4148]	4467	[46, 6479]	6505	[3824, 3621]
392	[762, 169]	2430	[1165, 4149]	4468	[2800, 6480]	6506	[4863, 7738]
393	[763, 764]	2431	[4150, 4151]	4469	[2798, 5962]	6507	[470, 4606]
394	[765, 766]	2432	[4152, 4153]	4470	[5199, 6481]	6508	[5035, 3666]
395	[640, 767]	2433	[1473, 4154]	4471	[6482, 5498]	6509	[7739, 7740]
396	[768, 769]	2434	[4155, 1397]	4472	[514, 6483]	6510	[7387, 7046]
397	[770, 750]	2435	[4156, 1067]	4473	[6101, 2380]	6511	[4350, 4621]
398	[771, 772]	2436	[4157, 4158]	4474	[5595, 1913]	6512	[7741, 7742]
399	[773, 774]	2437	[4159, 1085]	4475	[2906, 6484]	6513	[7380, 7743]
400	[775, 776]	2438	[4160, 4161]	4476	[5317, 6485]	6514	[7263, 1543]
401	[777, 778]	2439	[4162, 4163]	4477	[6486, 5948]	6515	[7729, 7744]
402	[779, 780]	2440	[4164, 4165]	4478	[6487, 6488]	6516	[4706, 405]
403	[781, 39]	2441	[3583, 4018]	4479	[170, 6489]	6517	[7239, 4700]
404	[782, 783]	2442	[72, 1093]	4480	[6116, 3055]	6518	[1149, 7745]
405	[784, 785]	2443	[3828, 4166]	4481	[1843, 6490]	6519	[5040, 7513]
406	[786, 787]	2444	[4167, 4168]	4482	[1845, 6491]	6520	[1640, 7746]
407	[788, 789]	2445	[4169, 4170]	4483	[1847, 510]	6521	[7453, 7747]
408	[790, 791]	2446	[4171, 4172]	4484	[2701, 6492]	6522	[4459, 4611]
409	[792, 793]	2447	[1179, 4173]	4485	[2379, 5733]	6523	[7145, 7094]
410	[794, 795]	2448	[4174, 4175]	4486	[6493, 6323]	6524	[3730, 3663]
411	[796, 797]	2449	[4176, 4177]	4487	[6477, 566]	6525	[3245, 5025]
412	[798, 799]	2450	[4178, 4179]	4488	[6494, 181]	6526	[4660, 1144]
413	[800, 801]	2451	[4180, 4062]	4489	[136, 61]	6527	[7484, 7748]
414	[802, 803]	2452	[4181, 3918]	4490	[5866, 6285]	6528	[1030, 1130]
415	[804, 805]	2453	[1314, 4182]	4491	[6377, 6495]	6529	[7737, 6969]

416	[806, 807]	2454	[4183, 3395]	4492	[6496, 5623]	6530	[7743, 7051]
417	[808, 809]	2455	[4184, 4185]	4493	[2433, 6497]	6531	[3226, 4689]
418	[810, 811]	2456	[4186, 1688]	4494	[6498, 550]	6532	[4886, 4785]
419	[812, 813]	2457	[1491, 4187]	4495	[1916, 1877]	6533	[7375, 7749]
420	[814, 815]	2458	[3341, 4188]	4496	[6499, 5696]	6534	[7750, 3473]
421	[816, 817]	2459	[4189, 1722]	4497	[6500, 6180]	6535	[7751, 7243]
422	[818, 819]	2460	[4190, 4191]	4498	[6167, 3066]	6536	[3772, 7752]
423	[820, 508]	2461	[3356, 4192]	4499	[5912, 2616]	6537	[7657, 7336]
424	[821, 822]	2462	[4193, 4194]	4500	[5520, 6035]	6538	[7164, 3719]
425	[823, 824]	2463	[4195, 4155]	4501	[6501, 5627]	6539	[7527, 3293]
426	[825, 826]	2464	[3744, 4196]	4502	[2922, 5232]	6540	[7260, 1004]
427	[827, 828]	2465	[4197, 4198]	4503	[6502, 6503]	6541	[7753, 4768]
428	[829, 830]	2466	[4199, 1682]	4504	[5906, 2411]	6542	[7730, 3565]
429	[831, 832]	2467	[4200, 4201]	4505	[2924, 6504]	6543	[3733, 4426]
430	[833, 834]	2468	[394, 17]	4506	[5902, 6449]	6544	[7160, 6857]
431	[835, 836]	2469	[3318, 4202]	4507	[5530, 3096]	6545	[7259, 6858]
432	[837, 838]	2470	[4203, 4068]	4508	[6505, 6335]	6546	[7398, 3855]
433	[839, 840]	2471	[4204, 4205]	4509	[6506, 6298]	6547	[3372, 7720]
434	[841, 842]	2472	[4206, 1029]	4510	[6507, 2785]	6548	[7754, 1809]
435	[843, 844]	2473	[4207, 471]	4511	[5476, 223]	6549	[1011, 7652]
436	[845, 846]	2474	[4208, 4209]	4512	[6508, 2097]	6550	[3270, 3535]
437	[847, 848]	2475	[4210, 3874]	4513	[3037, 6509]	6551	[4021, 5086]
438	[849, 850]	2476	[4211, 4212]	4514	[5182, 6510]	6552	[7755, 7140]
439	[851, 852]	2477	[4213, 3943]	4515	[6193, 6511]	6553	[4795, 4375]
440	[853, 854]	2478	[281, 4214]	4516	[6512, 6513]	6554	[7323, 7025]
441	[855, 856]	2479	[4081, 3747]	4517	[2983, 2238]	6555	[7756, 7275]
442	[807, 857]	2480	[4215, 1424]	4518	[714, 6514]	6556	[4381, 7176]
443	[858, 859]	2481	[4216, 4024]	4519	[6515, 2942]	6557	[7077, 5039]
444	[860, 861]	2482	[4217, 4105]	4520	[6516, 2618]	6558	[7693, 6914]
445	[862, 863]	2483	[4218, 4219]	4521	[2408, 6517]	6559	[3978, 5011]
446	[864, 865]	2484	[4220, 4221]	4522	[3189, 721]	6560	[4012, 7753]
447	[866, 867]	2485	[4222, 3802]	4523	[6518, 6519]	6561	[1278, 7664]
448	[868, 869]	2486	[1306, 3644]	4524	[6520, 6521]	6562	[435, 3967]
449	[870, 871]	2487	[4223, 4224]	4525	[6240, 682]	6563	[7757, 4831]
450	[872, 873]	2488	[4225, 4226]	4526	[5715, 2573]	6564	[7237, 7562]
451	[874, 875]	2489	[4227, 4228]	4527	[6522, 3013]	6565	[1197, 5028]
452	[876, 877]	2490	[4229, 4230]	4528	[6523, 5358]	6566	[6946, 4115]
453	[878, 879]	2491	[4231, 4232]	4529	[673, 6524]	6567	[7752, 7758]
454	[880, 881]	2492	[4233, 4234]	4530	[241, 6525]	6568	[7759, 121]
455	[882, 883]	2493	[4235, 4236]	4531	[5890, 6526]	6569	[3936, 3804]
456	[884, 885]	2494	[4237, 4238]	4532	[5915, 6527]	6570	[4710, 75]
457	[886, 887]	2495	[4239, 3252]	4533	[2724, 6455]	6571	[3432, 7584]
458	[888, 889]	2496	[4240, 4241]	4534	[2517, 5773]	6572	[3767, 7679]
459	[890, 891]	2497	[82, 3905]	4535	[6528, 2628]	6573	[4320, 7759]

460	[892, 893]	2498	[4242, 4243]	4536	[776, 6146]	6574	[7069, 7706]
461	[824, 894]	2499	[4209, 419]	4537	[2199, 2807]	6575	[7437, 7004]
462	[895, 896]	2500	[3850, 4244]	4538	[6529, 2682]	6576	[4766, 7754]
463	[897, 898]	2501	[4245, 4246]	4539	[2690, 6127]	6577	[4205, 7225]
464	[899, 900]	2502	[4241, 4247]	4540	[6530, 5313]	6578	[5016, 3754]
465	[901, 902]	2503	[4248, 4249]	4541	[184, 6531]	6579	[7682, 7760]
466	[903, 904]	2504	[4250, 4251]	4542	[6532, 2340]	6580	[7403, 4881]
467	[905, 906]	2505	[4252, 4253]	4543	[6533, 6534]	6581	[7761, 4590]
468	[907, 908]	2506	[4254, 3608]	4544	[3131, 5869]	6582	[1444, 7762]
469	[909, 910]	2507	[1538, 4255]	4545	[6535, 6536]	6583	[1781, 1426]
470	[911, 912]	2508	[4256, 4257]	4546	[6537, 5883]	6584	[7763, 7697]
471	[913, 914]	2509	[4258, 3308]	4547	[2763, 719]	6585	[7764, 7001]
472	[915, 916]	2510	[3551, 4150]	4548	[6538, 2137]	6586	[7287, 3220]
473	[917, 918]	2511	[4259, 4260]	4549	[3108, 2139]	6587	[7742, 3947]
474	[919, 920]	2512	[4261, 1778]	4550	[6539, 6540]	6588	[4335, 4692]
475	[921, 922]	2513	[4262, 4263]	4551	[176, 556]	6589	[6942, 7351]
476	[923, 924]	2514	[4264, 4265]	4552	[6541, 6542]	6590	[7654, 4904]
477	[925, 926]	2515	[4266, 1309]	4553	[132, 6543]	6591	[7541, 7734]
478	[927, 928]	2516	[4267, 4268]	4554	[2089, 6189]	6592	[1298, 7376]
479	[929, 930]	2517	[1335, 4269]	4555	[6544, 6545]	6593	[7285, 1223]
480	[931, 932]	2518	[4270, 4271]	4556	[6546, 6547]	6594	[3634, 7719]
481	[933, 934]	2519	[4272, 1364]	4557	[6092, 6457]	6595	[7765, 4176]
482	[935, 936]	2520	[4135, 4273]	4558	[6548, 5679]	6596	[6979, 4248]
483	[937, 938]	2521	[4274, 4275]	4559	[2930, 6549]	6597	[1044, 7636]
484	[939, 940]	2522	[1511, 4276]	4560	[6550, 6086]	6598	[7189, 3798]
485	[941, 942]	2523	[287, 4277]	4561	[6551, 6552]	6599	[6999, 5043]
486	[943, 944]	2524	[4278, 4279]	4562	[6553, 5607]	6600	[7596, 7649]
487	[945, 946]	2525	[4280, 4281]	4563	[2673, 2248]	6601	[4963, 7714]
488	[947, 948]	2526	[4282, 1410]	4564	[6554, 6555]	6602	[7766, 7331]
489	[949, 950]	2527	[3902, 4283]	4565	[6556, 6557]	6603	[7281, 7767]
490	[951, 952]	2528	[4284, 4285]	4566	[6558, 6559]	6604	[7768, 7357]
491	[953, 954]	2529	[4286, 4287]	4567	[5566, 6560]	6605	[6902, 4775]
492	[955, 956]	2530	[3454, 4288]	4568	[664, 6561]	6606	[7134, 3955]
493	[957, 958]	2531	[4289, 125]	4569	[6562, 47]	6607	[7769, 7047]
494	[959, 960]	2532	[1392, 340]	4570	[6563, 5854]	6608	[4493, 1057]
495	[961, 962]	2533	[3276, 4290]	4571	[6176, 699]	6609	[3898, 3679]
496	[963, 964]	2534	[4291, 4292]	4572	[5153, 2575]	6610	[7459, 3990]
497	[965, 966]	2535	[4293, 4294]	4573	[6564, 5406]	6611	[3448, 7472]
498	[967, 968]	2536	[4295, 1311]	4574	[6565, 5157]	6612	[3618, 4837]
499	[969, 970]	2537	[1038, 1412]	4575	[6080, 6566]	6613	[7691, 4509]
500	[971, 972]	2538	[4296, 4297]	4576	[6481, 6567]	6614	[7770, 6966]
501	[973, 974]	2539	[4298, 4222]	4577	[2233, 5937]	6615	[1349, 7314]
502	[975, 976]	2540	[333, 4299]	4578	[6566, 6568]	6616	[3699, 4874]
503	[977, 978]	2541	[335, 1492]	4579	[5700, 2715]	6617	[7627, 7439]

504	[979, 980]	2542	[4268, 4300]	4580	[2278, 6569]	6618	[4853, 6903]
505	[981, 982]	2543	[4301, 1126]	4581	[5952, 3091]	6619	[1588, 4921]
506	[983, 984]	2544	[4302, 4303]	4582	[2868, 6570]	6620	[3627, 7701]
507	[985, 986]	2545	[4304, 4305]	4583	[5541, 6571]	6621	[3393, 977]
508	[987, 988]	2546	[4230, 4306]	4584	[5284, 6572]	6622	[4619, 7061]
509	[989, 990]	2547	[1704, 4307]	4585	[6408, 711]	6623	[4791, 7769]
510	[991, 467]	2548	[4308, 4309]	4586	[778, 2839]	6624	[5014, 7623]
511	[992, 993]	2549	[4310, 3273]	4587	[5292, 878]	6625	[4808, 360]
512	[994, 995]	2550	[4311, 4312]	4588	[2978, 756]	6626	[7771, 1180]
513	[996, 997]	2551	[3517, 4313]	4589	[5460, 6573]	6627	[1046, 7169]
514	[998, 999]	2552	[3932, 4314]	4590	[2287, 5742]	6628	[7280, 6910]
515	[1000, 1001]	2553	[4315, 1422]	4591	[2849, 5263]	6629	[7772, 3434]
516	[1002, 1003]	2554	[4316, 1390]	4592	[6574, 6575]	6630	[3316, 1623]
517	[1004, 1005]	2555	[4317, 4318]	4593	[5231, 6576]	6631	[7773, 3225]
518	[1006, 1007]	2556	[4319, 4320]	4594	[168, 2540]	6632	[7506, 7330]
519	[1008, 1009]	2557	[4321, 4322]	4595	[6073, 6577]	6633	[7774, 7775]
520	[1010, 1011]	2558	[4323, 4324]	4596	[922, 2925]	6634	[1775, 7610]
521	[1012, 1013]	2559	[1254, 4325]	4597	[6415, 6578]	6635	[7332, 7776]
522	[1014, 1015]	2560	[337, 1338]	4598	[38, 6579]	6636	[4192, 7766]
523	[1016, 1017]	2561	[4326, 981]	4599	[6580, 229]	6637	[7378, 3485]
524	[1018, 1019]	2562	[4327, 4070]	4600	[6581, 6582]	6638	[7593, 7100]
525	[1020, 1021]	2563	[4328, 4329]	4601	[5792, 6556]	6639	[402, 4586]
526	[1022, 1023]	2564	[4330, 4331]	4602	[3072, 907]	6640	[4526, 7735]
527	[1024, 1025]	2565	[4332, 4333]	4603	[946, 2757]	6641	[5083, 1156]
528	[1026, 1027]	2566	[1696, 1170]	4604	[948, 6583]	6642	[7635, 7770]
529	[1028, 489]	2567	[4334, 3462]	4605	[6294, 2819]	6643	[464, 7768]
530	[1029, 1030]	2568	[1247, 4335]	4606	[910, 5130]	6644	[7419, 7721]
531	[1031, 1032]	2569	[4336, 4337]	4607	[912, 5388]	6645	[7711, 6876]
532	[1033, 1034]	2570	[4338, 4339]	4608	[6584, 2228]	6646	[4396, 4000]
533	[1035, 1036]	2571	[273, 4340]	4609	[6585, 6586]	6647	[7777, 7068]
534	[1037, 1038]	2572	[4255, 4341]	4610	[6587, 6530]	6648	[7738, 7671]
535	[1039, 1040]	2573	[4342, 1214]	4611	[2257, 2527]	6649	[4723, 1647]
536	[1041, 1042]	2574	[1327, 4343]	4612	[6588, 6451]	6650	[7778, 7728]
537	[1043, 1044]	2575	[4344, 3983]	4613	[6589, 2405]	6651	[1201, 7262]
538	[1045, 1046]	2576	[4345, 4346]	4614	[5493, 6506]	6652	[4851, 1762]
539	[1047, 1048]	2577	[4347, 4348]	4615	[2951, 6334]	6653	[7042, 3995]
540	[1049, 1050]	2578	[4349, 4350]	4616	[2574, 2065]	6654	[7523, 7444]
541	[1051, 1052]	2579	[4185, 4351]	4617	[6161, 5788]	6655	[1624, 1621]
542	[1053, 1054]	2580	[4352, 4353]	4618	[6567, 2088]	6656	[313, 7751]
543	[1055, 1056]	2581	[4354, 4355]	4619	[5575, 5457]	6657	[4257, 7779]
544	[1057, 1058]	2582	[3359, 3548]	4620	[6586, 5652]	6658	[4238, 7066]
545	[1059, 1060]	2583	[4356, 4357]	4621	[6590, 6591]	6659	[1729, 1358]
546	[1061, 1062]	2584	[4358, 1709]	4622	[2017, 2124]	6660	[6985, 1106]
547	[1063, 1064]	2585	[4359, 1594]	4623	[667, 6292]	6661	[3964, 4145]

548	[1065, 1066]	2586	[4360, 4121]	4624	[6592, 6493]	6662	[6947, 7780]
549	[1067, 263]	2587	[331, 1035]	4625	[6346, 5785]	6663	[1256, 4901]
550	[114, 1068]	2588	[4030, 4361]	4626	[2894, 145]	6664	[3994, 7781]
551	[1069, 1070]	2589	[4362, 1043]	4627	[6583, 2344]	6665	[1451, 4740]
552	[1071, 1072]	2590	[307, 4363]	4628	[2590, 5348]	6666	[4562, 4918]
553	[1073, 1074]	2591	[4364, 4365]	4629	[6593, 604]	6667	[1415, 3436]
554	[1075, 1076]	2592	[4366, 4367]	4630	[6029, 2754]	6668	[4050, 4405]
555	[1077, 1078]	2593	[4368, 4327]	4631	[2366, 6417]	6669	[7563, 5021]
556	[1079, 1080]	2594	[408, 4369]	4632	[924, 6594]	6670	[5054, 1190]
557	[351, 1081]	2595	[4370, 4371]	4633	[6595, 674]	6671	[7699, 7148]
558	[1052, 1082]	2596	[4372, 1202]	4634	[2421, 5475]	6672	[1549, 7650]
559	[1083, 1084]	2597	[4373, 1703]	4635	[3062, 6580]	6673	[1291, 4553]
560	[1085, 1086]	2598	[4374, 3571]	4636	[6596, 5211]	6674	[7156, 7782]
561	[377, 1087]	2599	[4375, 4376]	4637	[5873, 6520]	6675	[7783, 4359]
562	[1088, 312]	2600	[4299, 4377]	4638	[6597, 6236]	6676	[7784, 7147]
563	[1089, 1090]	2601	[4378, 3897]	4639	[906, 6598]	6677	[7180, 7443]
564	[1091, 1092]	2602	[4379, 4131]	4640	[6599, 6600]	6678	[7062, 7785]
565	[1093, 1094]	2603	[4380, 4381]	4641	[6601, 5943]	6679	[4681, 7181]
566	[1095, 1096]	2604	[4382, 4383]	4642	[6602, 6548]	6680	[4688, 4213]
567	[1097, 1016]	2605	[1568, 4034]	4643	[6568, 5703]	6681	[7010, 7217]
568	[1098, 1099]	2606	[4384, 4385]	4644	[142, 626]	6682	[7678, 4546]
569	[1100, 1101]	2607	[4386, 1380]	4645	[6603, 6604]	6683	[3468, 7595]
570	[1102, 1103]	2608	[4387, 1441]	4646	[904, 6605]	6684	[7510, 457]
571	[1104, 1105]	2609	[4388, 4003]	4647	[6606, 6607]	6685	[7713, 3439]
572	[1106, 1107]	2610	[445, 4389]	4648	[5280, 6015]	6686	[480, 1168]
573	[1108, 1109]	2611	[3326, 979]	4649	[6608, 2314]	6687	[7202, 7017]
574	[1110, 1111]	2612	[4390, 4391]	4650	[6609, 2108]	6688	[7724, 3358]
575	[1112, 1113]	2613	[4392, 3810]	4651	[2790, 6021]	6689	[7780, 7666]
576	[1114, 1115]	2614	[4393, 4394]	4652	[6610, 6611]	6690	[7786, 3457]
577	[1116, 1117]	2615	[4395, 4396]	4653	[6612, 5599]	6691	[7620, 5080]
578	[1118, 1119]	2616	[4397, 4398]	4654	[545, 6613]	6692	[4177, 7670]
579	[1120, 1121]	2617	[4399, 4400]	4655	[6517, 6614]	6693	[3637, 3642]
580	[1122, 1123]	2618	[4401, 4402]	4656	[5974, 2241]	6694	[4468, 7054]
581	[1124, 1125]	2619	[4403, 4404]	4657	[6615, 6616]	6695	[4685, 7663]
582	[1126, 1127]	2620	[4405, 4406]	4658	[6617, 5874]	6696	[7008, 7144]
583	[1128, 1129]	2621	[4407, 4408]	4659	[2987, 6618]	6697	[7626, 5023]
584	[1130, 4]	2622	[4409, 1554]	4660	[6619, 6620]	6698	[4861, 7015]
585	[1131, 1132]	2623	[4410, 4411]	4661	[6570, 6621]	6699	[4958, 1576]
586	[1133, 1134]	2624	[4412, 4413]	4662	[6268, 2230]	6700	[3602, 7787]
587	[1135, 1136]	2625	[4414, 4415]	4663	[6459, 5658]	6701	[3265, 7485]
588	[1137, 1138]	2626	[1690, 4416]	4664	[6622, 5650]	6702	[7570, 7718]
589	[1139, 1140]	2627	[1423, 4417]	4665	[2932, 6623]	6703	[7788, 1606]
590	[1141, 1026]	2628	[4418, 4419]	4666	[3212, 6624]	6704	[7127, 7103]
591	[1142, 1143]	2629	[4420, 4421]	4667	[6625, 6494]	6705	[6875, 1726]

592	[1144, 1145]	2630	[4422, 265]	4668	[2044, 5417]	6706	[4285, 973]
593	[1146, 1147]	2631	[3934, 1071]	4669	[6626, 2863]	6707	[4416, 3267]
594	[1148, 1149]	2632	[4423, 4424]	4670	[6627, 5225]	6708	[7696, 4610]
595	[1150, 1151]	2633	[4425, 3633]	4671	[573, 6628]	6709	[3641, 4704]
596	[1152, 1153]	2634	[4426, 4427]	4672	[6629, 5219]	6710	[7658, 4955]
597	[1154, 1155]	2635	[4428, 4429]	4673	[5857, 1824]	6711	[7554, 7750]
598	[1156, 1157]	2636	[4224, 4430]	4674	[3144, 6630]	6712	[1368, 7726]
599	[1158, 1159]	2637	[3305, 4431]	4675	[6631, 2207]	6713	[7745, 7673]
600	[1160, 1161]	2638	[3797, 4432]	4676	[1956, 5576]	6714	[7476, 7789]
601	[1162, 1163]	2639	[4168, 4433]	4677	[6632, 6270]	6715	[4450, 4397]
602	[1164, 1165]	2640	[4434, 4435]	4678	[6633, 6634]	6716	[279, 4403]
603	[1166, 1167]	2641	[3755, 4436]	4679	[5428, 6523]	6717	[6998, 7638]
604	[1168, 1169]	2642	[4437, 4438]	4680	[6635, 1942]	6718	[7709, 1204]
605	[1170, 1171]	2643	[4219, 4418]	4681	[5756, 2169]	6719	[4993, 3239]
606	[1172, 1173]	2644	[4439, 1275]	4682	[6636, 6637]	6720	[984, 7019]
607	[1174, 1175]	2645	[4440, 4441]	4683	[6130, 6638]	6721	[3680, 7581]
608	[1176, 1177]	2646	[4442, 4443]	4684	[6426, 2221]	6722	[7762, 7688]
609	[1178, 1179]	2647	[4444, 3538]	4685	[6428, 2293]	6723	[7746, 1251]
610	[1180, 1181]	2648	[4445, 4446]	4686	[964, 6453]	6724	[295, 4556]
611	[1182, 1183]	2649	[4447, 4254]	4687	[6549, 6264]	6725	[4470, 6892]
612	[1184, 1185]	2650	[1454, 4448]	4688	[5686, 6003]	6726	[3558, 7442]
613	[1186, 1187]	2651	[4221, 4449]	4689	[6639, 6640]	6727	[7435, 7731]
614	[1188, 1189]	2652	[1372, 4450]	4690	[5989, 3027]	6728	[3923, 4824]
615	[1190, 1191]	2653	[4048, 4090]	4691	[708, 874]	6729	[4820, 4207]
616	[1192, 1193]	2654	[4451, 310]	4692	[6641, 6033]	6730	[3690, 1222]
617	[1194, 1195]	2655	[4389, 3447]	4693	[6642, 6553]	6731	[5069, 7324]
618	[1196, 1197]	2656	[4452, 4453]	4694	[236, 6643]	6732	[1230, 1398]
619	[1198, 1199]	2657	[4454, 4354]	4695	[5688, 6644]	6733	[7790, 7662]
620	[1200, 1201]	2658	[4455, 4456]	4696	[6645, 6646]	6734	[7210, 4259]
621	[1202, 1203]	2659	[4457, 4458]	4697	[1922, 6589]	6735	[4191, 5018]
622	[1204, 1205]	2660	[1219, 4459]	4698	[5803, 2208]	6736	[7791, 318]
623	[1206, 1207]	2661	[4460, 4461]	4699	[902, 6647]	6737	[3915, 4440]
624	[1208, 1209]	2662	[4462, 4463]	4700	[6648, 6649]	6738	[4981, 4718]
625	[1210, 1211]	2663	[4464, 4465]	4701	[6650, 2698]	6739	[3795, 1782]
626	[1212, 1213]	2664	[3283, 4466]	4702	[621, 6651]	6740	[4647, 7445]
627	[283, 1184]	2665	[4467, 4468]	4703	[6652, 2401]	6741	[325, 6859]
628	[1214, 1215]	2666	[1555, 4469]	4704	[6034, 953]	6742	[7503, 426]
629	[1216, 1217]	2667	[3974, 4470]	4705	[5437, 6653]	6743	[7789, 3977]
630	[1218, 1219]	2668	[4471, 4472]	4706	[6654, 6444]	6744	[7089, 6913]
631	[1220, 1221]	2669	[4473, 3794]	4707	[3193, 6655]	6745	[4525, 4835]
632	[1222, 259]	2670	[4474, 4475]	4708	[158, 6656]	6746	[7760, 3648]
633	[1223, 1224]	2671	[4476, 4267]	4709	[6205, 151]	6747	[7792, 4708]
634	[1225, 1226]	2672	[4477, 3888]	4710	[44, 517]	6748	[3984, 7130]
635	[1227, 1228]	2673	[4478, 4479]	4711	[6416, 2095]	6749	[4107, 7692]

636	[1229, 1230]	2674	[1082, 4360]	4712	[6082, 3117]	6750	[3588, 6905]
637	[1231, 1232]	2675	[4322, 4474]	4713	[6381, 5329]	6751	[3285, 7615]
638	[1233, 1234]	2676	[3385, 1336]	4714	[2196, 6639]	6752	[4762, 3988]
639	[1235, 1236]	2677	[4480, 3445]	4715	[3024, 6235]	6753	[1145, 7107]
640	[1237, 1238]	2678	[4481, 4482]	4716	[216, 6657]	6754	[4346, 7489]
641	[1239, 1240]	2679	[4483, 284]	4717	[5606, 2740]	6755	[4133, 7793]
642	[1241, 1242]	2680	[4484, 4485]	4718	[6658, 6659]	6756	[7400, 3771]
643	[1243, 1033]	2681	[1654, 4486]	4719	[6128, 5105]	6757	[1627, 4079]
644	[1244, 1245]	2682	[4487, 4488]	4720	[5750, 5946]	6758	[1240, 7794]
645	[1246, 1247]	2683	[68, 4489]	4721	[6653, 6407]	6759	[6930, 4552]
646	[1248, 1227]	2684	[4431, 4490]	4722	[6660, 2891]	6760	[4823, 7777]
647	[1249, 1250]	2685	[4337, 4491]	4723	[6661, 5991]	6761	[7248, 7772]
648	[1251, 1252]	2686	[4492, 4493]	4724	[3132, 2933]	6762	[1117, 3515]
649	[1253, 1254]	2687	[4494, 4495]	4725	[5922, 2764]	6763	[5079, 7686]
650	[1255, 1256]	2688	[4496, 1318]	4726	[3159, 6662]	6764	[7544, 3380]
651	[1257, 1258]	2689	[4497, 71]	4727	[6663, 6084]	6765	[4897, 7455]
652	[1259, 328]	2690	[4498, 4499]	4728	[6664, 5427]	6766	[3402, 7795]
653	[1260, 330]	2691	[4500, 3971]	4729	[6665, 5399]	6767	[1601, 4476]
654	[371, 1261]	2692	[1367, 4501]	4730	[2737, 6337]	6768	[7043, 3429]
655	[1262, 1263]	2693	[4265, 1505]	4731	[6666, 3042]	6769	[4875, 4136]
656	[1264, 1265]	2694	[4502, 3776]	4732	[2910, 6125]	6770	[1151, 7796]
657	[1266, 1267]	2695	[4503, 4504]	4733	[914, 5978]	6771	[4367, 3756]
658	[1268, 1269]	2696	[4505, 4506]	4734	[5965, 5988]	6772	[7797, 4822]
659	[1270, 1271]	2697	[4507, 4291]	4735	[6667, 1900]	6773	[7781, 7264]
660	[1272, 1218]	2698	[4508, 4162]	4736	[5936, 5389]	6774	[451, 3310]
661	[1273, 1274]	2699	[4509, 4510]	4737	[2109, 5632]	6775	[4846, 7725]
662	[1275, 1276]	2700	[3484, 4511]	4738	[6184, 511]	6776	[7133, 4781]
663	[1277, 1278]	2701	[4512, 4513]	4739	[6668, 3149]	6777	[1296, 1231]
664	[1279, 1280]	2702	[4514, 4515]	4740	[6669, 6670]	6778	[7095, 7798]
665	[429, 1281]	2703	[3910, 261]	4741	[6671, 5229]	6779	[4855, 7240]
666	[1282, 1283]	2704	[4516, 4517]	4742	[6423, 5318]	6780	[7782, 7799]
667	[1086, 1284]	2705	[4518, 4519]	4743	[2559, 5806]	6781	[1015, 7633]
668	[1285, 1286]	2706	[4520, 4521]	4744	[6672, 6470]	6782	[4883, 3976]
669	[1287, 1288]	2707	[4522, 4523]	4745	[6420, 814]	6783	[7345, 3262]
670	[482, 1289]	2708	[4524, 4525]	4746	[2003, 2672]	6784	[1572, 7406]
671	[1290, 1291]	2709	[76, 4526]	4747	[5463, 5903]	6785	[1394, 7468]
672	[1292, 1246]	2710	[4355, 4527]	4748	[5174, 2731]	6786	[7665, 7695]
673	[1293, 1294]	2711	[4528, 4529]	4749	[6673, 2733]	6787	[3707, 7757]
674	[1295, 1296]	2712	[4530, 4531]	4750	[5140, 1963]	6788	[7432, 4997]
675	[1297, 1298]	2713	[3859, 4532]	4751	[6575, 6674]	6789	[7800, 7717]
676	[1299, 1300]	2714	[4533, 3241]	4752	[6675, 6676]	6790	[4114, 298]
677	[1301, 1302]	2715	[3420, 3574]	4753	[6488, 6023]	6791	[7405, 4751]
678	[1303, 1304]	2716	[3989, 4534]	4754	[2657, 2580]	6792	[4604, 7801]
679	[1305, 1306]	2717	[995, 4535]	4755	[6677, 6257]	6793	[6912, 4356]

680	[1307, 1308]	2718	[4519, 4536]	4756	[5748, 1940]	6794	[3685, 344]
681	[1309, 1310]	2719	[3925, 4537]	4757	[6678, 6386]	6795	[1531, 7466]
682	[1311, 1312]	2720	[4538, 3537]	4758	[6679, 6626]	6796	[1509, 7802]
683	[1313, 1314]	2721	[4539, 1118]	4759	[6680, 2476]	6797	[1659, 3419]
684	[309, 1315]	2722	[1132, 4522]	4760	[5878, 2222]	6798	[3912, 4655]
685	[1316, 1317]	2723	[1419, 4540]	4761	[6681, 5514]	6799	[6878, 7621]
686	[1318, 1319]	2724	[4541, 4542]	4762	[6328, 6682]	6800	[349, 3913]
687	[1320, 1321]	2725	[4543, 4544]	4763	[6237, 6683]	6801	[5008, 1196]
688	[1322, 1323]	2726	[1036, 1720]	4764	[3209, 5717]	6802	[417, 7481]
689	[1324, 1325]	2727	[462, 4545]	4765	[14, 6684]	6803	[7194, 314]
690	[1326, 1327]	2728	[4546, 4547]	4766	[6419, 6685]	6804	[1668, 3617]
691	[1328, 1329]	2729	[4548, 4549]	4767	[5613, 6686]	6805	[6975, 7803]
692	[1330, 1331]	2730	[4060, 3355]	4768	[5104, 6642]	6806	[3896, 5082]
693	[1332, 1333]	2731	[4550, 3246]	4769	[3002, 2284]	6807	[7767, 7568]
694	[1334, 1335]	2732	[4551, 282]	4770	[6618, 2162]	6808	[6895, 4134]
695	[1336, 1337]	2733	[4552, 4390]	4771	[2465, 5354]	6809	[4628, 4183]
696	[1338, 1339]	2734	[4553, 4442]	4772	[5149, 739]	6810	[1456, 7105]
697	[1340, 1341]	2735	[4554, 4555]	4773	[6687, 2563]	6811	[7578, 7582]
698	[1342, 1343]	2736	[1506, 4252]	4774	[2299, 5120]	6812	[4015, 7308]
699	[1344, 1345]	2737	[3837, 4044]	4775	[6340, 2708]	6813	[373, 7741]
700	[1346, 1347]	2738	[4556, 4457]	4776	[5314, 6482]	6814	[7632, 3805]
701	[1348, 1349]	2739	[4529, 3401]	4777	[2209, 6688]	6815	[7628, 4758]
702	[1350, 1351]	2740	[466, 4557]	4778	[6689, 6300]	6816	[4331, 3825]
703	[1352, 1353]	2741	[4558, 4559]	4779	[5843, 5910]	6817	[18, 4864]
704	[1354, 1355]	2742	[4560, 4181]	4780	[230, 6690]	6818	[7795, 7251]
705	[1356, 1357]	2743	[4561, 4562]	4781	[246, 6691]	6819	[4966, 432]
706	[1358, 1359]	2744	[1477, 4563]	4782	[2448, 6414]	6820	[7801, 7804]
707	[1360, 1361]	2745	[4564, 4565]	4783	[2450, 6692]	6821	[7668, 5076]
708	[1362, 1363]	2746	[4566, 4567]	4784	[3097, 2577]	6822	[3900, 7518]
709	[1364, 1365]	2747	[4568, 4144]	4785	[6693, 5824]	6823	[3812, 7687]
710	[1366, 1367]	2748	[4104, 4016]	4786	[2720, 6597]	6824	[7805, 4423]
711	[1177, 1368]	2749	[4569, 3325]	4787	[6120, 6123]	6825	[1345, 7755]
712	[1369, 1370]	2750	[4570, 1313]	4788	[2956, 6694]	6826	[7450, 7290]
713	[1371, 1372]	2751	[1642, 1350]	4789	[2183, 129]	6827	[7608, 73]
714	[1084, 1373]	2752	[1238, 1701]	4790	[6674, 6695]	6828	[1060, 7119]
715	[1374, 1375]	2753	[4571, 4572]	4791	[2320, 6696]	6829	[3381, 4310]
716	[1376, 1377]	2754	[4573, 4574]	4792	[822, 157]	6830	[7402, 7044]
717	[1378, 1379]	2755	[3514, 4575]	4793	[6697, 6394]	6831	[5031, 5033]
718	[1380, 1381]	2756	[4576, 3513]	4794	[5579, 6208]	6832	[7296, 1097]
719	[1382, 1383]	2757	[1777, 3749]	4795	[6434, 6409]	6833	[5090, 410]
720	[1384, 1385]	2758	[1584, 3388]	4796	[734, 6698]	6834	[7110, 7784]
721	[1386, 1387]	2759	[4577, 4578]	4797	[6699, 2126]	6835	[7775, 4103]
722	[1388, 1389]	2760	[1517, 4579]	4798	[6555, 6700]	6836	[3301, 7155]
723	[1390, 418]	2761	[1674, 1713]	4799	[5704, 6701]	6837	[3654, 7800]

724	[1391, 1392]	2762	[4580, 3764]	4800	[138, 2996]	6838	[7559, 7438]
725	[1393, 1394]	2763	[4277, 4451]	4801	[6503, 2562]	6839	[7806, 4142]
726	[1395, 1396]	2764	[3894, 4581]	4802	[2327, 2829]	6840	[7284, 4657]
727	[1397, 1395]	2765	[4582, 4583]	4803	[6702, 6441]	6841	[7085, 7797]
728	[1398, 1399]	2766	[4584, 4585]	4804	[6207, 6581]	6842	[1331, 7196]
729	[1400, 1401]	2767	[1750, 3328]	4805	[6703, 845]	6843	[4130, 3421]
730	[1402, 1403]	2768	[4586, 4587]	4806	[724, 6704]	6844	[7024, 7566]
731	[1404, 1405]	2769	[4417, 4116]	4807	[2836, 6253]	6845	[1267, 7011]
732	[1406, 1407]	2770	[4588, 4589]	4808	[6126, 703]	6846	[1009, 6960]
733	[1408, 1409]	2771	[4590, 4334]	4809	[6705, 6675]	6847	[7408, 7702]
734	[1410, 1411]	2772	[4591, 4217]	4810	[5853, 6706]	6848	[7178, 6941]
735	[1412, 1413]	2773	[4592, 4296]	4811	[2627, 6707]	6849	[3474, 4588]
736	[1414, 1415]	2774	[4247, 3451]	4812	[6367, 6708]	6850	[7006, 7441]
737	[1416, 1206]	2775	[3309, 4593]	4813	[6709, 6291]	6851	[4534, 3732]
738	[1417, 1418]	2776	[4594, 4595]	4814	[6284, 6710]	6852	[5056, 4924]
739	[478, 1419]	2777	[4596, 1562]	4815	[6352, 654]	6853	[7802, 7807]
740	[1420, 1421]	2778	[271, 4597]	4816	[6465, 6711]	6854	[3873, 7761]
741	[1422, 1423]	2779	[4598, 4599]	4817	[3166, 5461]	6855	[7808, 6030]
742	[1424, 1425]	2780	[4600, 4601]	4818	[5210, 6712]	6856	[5556, 189]
743	[1426, 1388]	2781	[3598, 4602]	4819	[6519, 6713]	6857	[5994, 7809]
744	[1427, 1428]	2782	[4603, 4604]	4820	[6714, 6119]	6858	[7810, 6648]
745	[1429, 1430]	2783	[4605, 1567]	4821	[2895, 244]	6859	[6353, 5870]
746	[1431, 1432]	2784	[1761, 1645]	4822	[6715, 6663]	6860	[5862, 5275]
747	[1433, 1233]	2785	[4306, 3332]	4823	[6215, 6716]	6861	[593, 7811]
748	[1434, 1435]	2786	[4606, 4607]	4824	[5986, 5692]	6862	[6299, 7812]
749	[1436, 1437]	2787	[4608, 4609]	4825	[5987, 6717]	6863	[2285, 5818]
750	[1438, 1439]	2788	[4610, 4570]	4826	[2774, 6718]	6864	[7813, 2384]
751	[1440, 1075]	2789	[4611, 3275]	4827	[6719, 2149]	6865	[5572, 6539]
752	[1441, 1442]	2790	[4612, 4613]	4828	[2777, 5372]	6866	[7814, 2173]
753	[1443, 1444]	2791	[4614, 4615]	4829	[5953, 5871]	6867	[7815, 7816]
754	[1445, 1446]	2792	[4579, 3691]	4830	[6720, 648]	6868	[6768, 7817]
755	[1447, 1448]	2793	[3307, 4616]	4831	[5934, 2705]	6869	[6571, 876]
756	[110, 1449]	2794	[4097, 4617]	4832	[6637, 5724]	6870	[7818, 6726]
757	[1450, 1451]	2795	[4618, 4619]	4833	[2926, 2931]	6871	[950, 7819]
758	[1396, 1452]	2796	[4620, 255]	4834	[6721, 6722]	6872	[6692, 6467]
759	[1453, 1454]	2797	[4621, 4622]	4835	[6521, 6723]	6873	[6764, 3155]
760	[1455, 1456]	2798	[4623, 4624]	4836	[2876, 2456]	6874	[5823, 7820]
761	[1457, 1458]	2799	[4625, 4626]	4837	[6724, 5238]	6875	[1945, 7821]
762	[1459, 338]	2800	[4627, 4628]	4838	[6644, 6588]	6876	[7822, 7823]
763	[1460, 1461]	2801	[404, 19]	4839	[6725, 2663]	6877	[617, 7824]
764	[1462, 1463]	2802	[4288, 4373]	4840	[6266, 2970]	6878	[7825, 6843]
765	[1464, 1465]	2803	[4629, 1518]	4841	[6726, 6602]	6879	[6591, 3031]
766	[1466, 272]	2804	[4630, 4561]	4842	[5489, 1965]	6880	[7826, 6067]
767	[1467, 1468]	2805	[4631, 4632]	4843	[6350, 779]	6881	[3058, 7827]

768	[1469, 1470]	2806	[4633, 4004]	4844	[6727, 5774]	6882	[7828, 2979]
769	[1471, 1472]	2807	[4019, 4634]	4845	[6728, 6729]	6883	[7829, 2944]
770	[1087, 1473]	2808	[4635, 4598]	4846	[2830, 6533]	6884	[1866, 7830]
771	[1474, 1475]	2809	[4636, 3291]	4847	[6527, 3029]	6885	[1870, 6558]
772	[1476, 1477]	2810	[4122, 4203]	4848	[6730, 2332]	6886	[5365, 6371]
773	[1478, 1479]	2811	[1432, 3886]	4849	[6731, 6732]	6887	[6758, 7831]
774	[1480, 1481]	2812	[1625, 3234]	4850	[6733, 6734]	6888	[2154, 5839]
775	[1482, 1483]	2813	[4637, 1297]	4851	[6735, 3133]	6889	[6053, 2389]
776	[1484, 1485]	2814	[4638, 4178]	4852	[5532, 1930]	6890	[6620, 6378]
777	[970, 1486]	2815	[4639, 4640]	4853	[2040, 5146]	6891	[6370, 6276]
778	[1487, 1488]	2816	[4641, 4642]	4854	[5208, 6736]	6892	[6405, 7832]
779	[1489, 1490]	2817	[1217, 4464]	4855	[6737, 6738]	6893	[2521, 5243]
780	[389, 1491]	2818	[4325, 4643]	4856	[6739, 947]	6894	[920, 3180]
781	[1492, 81]	2819	[4644, 4645]	4857	[2059, 139]	6895	[6485, 7833]
782	[1493, 1494]	2820	[4646, 4647]	4858	[5702, 2972]	6896	[7834, 957]
783	[1495, 1047]	2821	[3346, 4648]	4859	[2547, 5638]	6897	[551, 2262]
784	[291, 1496]	2822	[1042, 4649]	4860	[2184, 2360]	6898	[6398, 7835]
785	[1497, 1498]	2823	[4650, 4651]	4861	[2667, 57]	6899	[6108, 5842]
786	[1499, 1500]	2824	[1409, 4652]	4862	[6740, 2033]	6900	[5583, 951]
787	[1501, 1502]	2825	[3647, 4653]	4863	[5439, 1944]	6901	[5807, 5832]
788	[1503, 1504]	2826	[3370, 4654]	4864	[2866, 6741]	6902	[7836, 7837]
789	[1505, 1506]	2827	[4655, 4656]	4865	[6742, 215]	6903	[662, 5525]
790	[1507, 1386]	2828	[4657, 4658]	4866	[6049, 6719]	6904	[6118, 7838]
791	[1508, 1509]	2829	[3784, 4315]	4867	[5151, 6304]	6905	[2543, 6563]
792	[1510, 1511]	2830	[1672, 4659]	4868	[5139, 5424]	6906	[5158, 5244]
793	[1512, 1513]	2831	[3889, 4660]	4869	[2404, 2873]	6907	[5804, 744]
794	[1514, 1515]	2832	[4661, 4662]	4870	[6489, 6743]	6908	[2816, 5378]
795	[1516, 1517]	2833	[4663, 4664]	4871	[1896, 2325]	6909	[1827, 5366]
796	[1518, 1519]	2834	[4665, 3626]	4872	[677, 6744]	6910	[6206, 5196]
797	[1520, 987]	2835	[4666, 4667]	4873	[2709, 6745]	6911	[766, 7839]
798	[1521, 1522]	2836	[4668, 1788]	4874	[5723, 6195]	6912	[6573, 2835]
799	[1523, 1524]	2837	[972, 4372]	4875	[6458, 2304]	6913	[2985, 7840]
800	[1525, 1526]	2838	[4669, 4670]	4876	[6746, 6747]	6914	[6072, 2436]
801	[495, 1527]	2839	[1486, 4189]	4877	[6473, 6748]	6915	[2943, 7841]
802	[1528, 1529]	2840	[4671, 4672]	4878	[6749, 197]	6916	[7842, 7843]
803	[1530, 1531]	2841	[4673, 1805]	4879	[5373, 1893]	6917	[6759, 6673]
804	[1532, 1533]	2842	[4674, 4675]	4880	[6750, 6565]	6918	[7844, 6004]
805	[385, 1534]	2843	[102, 4317]	4881	[6406, 6751]	6919	[2272, 578]
806	[1535, 1536]	2844	[4676, 4677]	4882	[6325, 5598]	6920	[3116, 5985]
807	[1321, 267]	2845	[4678, 4679]	4883	[5662, 2846]	6921	[7845, 6818]
808	[1537, 1538]	2846	[4680, 4681]	4884	[2908, 6752]	6922	[6260, 5438]
809	[1539, 1540]	2847	[4682, 4683]	4885	[5441, 6753]	6923	[2172, 7846]
810	[1541, 1542]	2848	[4684, 4685]	4886	[5106, 2533]	6924	[5693, 5960]
811	[1543, 1055]	2849	[4303, 3814]	4887	[6741, 5920]	6925	[6657, 7847]

812	[1544, 1545]	2850	[4686, 3951]	4888	[6440, 6754]	6926	[2349, 7848]
813	[1546, 1547]	2851	[4687, 4688]	4889	[5452, 6538]	6927	[7849, 6636]
814	[1548, 1549]	2852	[4689, 4690]	4890	[5624, 6315]	6928	[6379, 7850]
815	[1550, 1551]	2853	[4691, 450]	4891	[6232, 927]	6929	[6480, 6541]
816	[1552, 1553]	2854	[4692, 4693]	4892	[6085, 6755]	6930	[7851, 6422]
817	[1554, 1555]	2855	[4694, 3927]	4893	[813, 5482]	6931	[6557, 6200]
818	[1556, 1557]	2856	[4695, 4696]	4894	[6110, 6756]	6932	[6229, 2953]
819	[1558, 1559]	2857	[347, 4697]	4895	[5445, 5741]	6933	[7852, 7853]
820	[1560, 989]	2858	[4698, 4699]	4896	[2502, 1885]	6934	[6442, 7854]
821	[1353, 1561]	2859	[4700, 4701]	4897	[6757, 5131]	6935	[7855, 7856]
822	[1562, 1563]	2860	[4702, 4352]	4898	[793, 3151]	6936	[7857, 6854]
823	[1564, 1565]	2861	[4511, 4703]	4899	[2125, 5805]	6937	[7858, 6319]
824	[1359, 1566]	2862	[4704, 1767]	4900	[3119, 676]	6938	[7859, 6320]
825	[1567, 1568]	2863	[4705, 4706]	4901	[6732, 727]	6939	[6430, 7860]
826	[1569, 1570]	2864	[4488, 89]	4902	[2551, 6758]	6940	[1855, 6402]
827	[1571, 1572]	2865	[4707, 3909]	4903	[5759, 5907]	6941	[6712, 6307]
828	[1573, 1574]	2866	[4708, 4113]	4904	[743, 955]	6942	[6345, 6669]
829	[1575, 401]	2867	[4709, 4710]	4905	[3052, 6140]	6943	[7861, 2531]
830	[1576, 1577]	2868	[4711, 3833]	4906	[6510, 6759]	6944	[7862, 7863]
831	[1578, 1579]	2869	[4712, 4075]	4907	[6760, 6039]	6945	[7864, 2664]
832	[1580, 1581]	2870	[4339, 4713]	4908	[6048, 5735]	6946	[5637, 7865]
833	[1339, 1582]	2871	[4714, 4345]	4909	[6577, 6761]	6947	[7866, 6241]
834	[1583, 1584]	2872	[4501, 4715]	4910	[6383, 2787]	6948	[7867, 2993]
835	[1585, 1586]	2873	[3366, 3327]	4911	[2832, 6762]	6949	[712, 5175]
836	[1587, 1588]	2874	[3839, 4686]	4912	[2455, 5765]	6950	[2075, 7868]
837	[1589, 1590]	2875	[4716, 4717]	4913	[6763, 5516]	6951	[7869, 2961]
838	[1591, 1039]	2876	[4718, 4719]	4914	[2796, 5449]	6952	[7870, 2917]
839	[1592, 1593]	2877	[4720, 4721]	4915	[1905, 1851]	6953	[730, 931]
840	[1594, 1595]	2878	[4010, 4478]	4916	[6456, 2295]	6954	[6525, 6019]
841	[1596, 1597]	2879	[3586, 1225]	4917	[499, 6113]	6955	[5898, 6501]
842	[1598, 1599]	2880	[4722, 4723]	4918	[6511, 6764]	6956	[6145, 7871]
843	[1600, 1601]	2881	[4724, 1110]	4919	[2975, 3158]	6957	[6400, 5684]
844	[1602, 1603]	2882	[4725, 3780]	4920	[6655, 6765]	6958	[6831, 6609]
845	[1604, 1605]	2883	[4726, 4727]	4921	[6052, 2919]	6959	[3137, 7872]
846	[1606, 1607]	2884	[375, 3521]	4922	[6766, 5968]	6960	[803, 7873]
847	[1608, 1609]	2885	[4728, 4729]	4923	[1947, 5380]	6961	[2347, 6111]
848	[1610, 1610]	2886	[4730, 4280]	4924	[6765, 521]	6962	[2509, 2215]
849	[1611, 1612]	2887	[1670, 4731]	4925	[6767, 2394]	6963	[6540, 3171]
850	[1613, 1614]	2888	[4732, 4733]	4926	[5568, 6680]	6964	[6683, 7874]
851	[1315, 1615]	2889	[4734, 4735]	4927	[2381, 6768]	6965	[7875, 5729]
852	[1616, 1617]	2890	[4736, 4726]	4928	[6769, 6770]	6966	[608, 2833]
853	[1618, 1619]	2891	[1155, 4295]	4929	[6771, 6725]	6967	[1852, 7876]
854	[1261, 1620]	2892	[1800, 4737]	4930	[6170, 6772]	6968	[7877, 7878]
855	[1621, 1622]	2893	[4738, 4739]	4931	[2634, 6429]	6969	[6333, 7879]

856	[1623, 1624]	2894	[4740, 4741]	4932	[819, 6431]	6970	[6295, 6399]
857	[319, 1625]	2895	[1173, 3758]	4933	[2146, 2335]	6971	[5490, 6271]
858	[1626, 1627]	2896	[4742, 4278]	4934	[6044, 6288]	6972	[6748, 6564]
859	[1628, 1629]	2897	[4743, 4744]	4935	[651, 2871]	6973	[6572, 7880]
860	[1630, 1631]	2898	[3840, 4386]	4936	[6773, 6774]	6974	[631, 7881]
861	[1632, 1633]	2899	[4745, 4746]	4937	[2980, 6775]	6975	[6243, 790]
862	[1634, 1635]	2900	[3775, 4747]	4938	[6342, 225]	6976	[7819, 5567]
863	[398, 1636]	2901	[4748, 4749]	4939	[2726, 5245]	6977	[6374, 6615]
864	[1637, 1638]	2902	[4750, 4705]	4940	[6331, 6115]	6978	[6762, 2002]
865	[1639, 1640]	2903	[4751, 4752]	4941	[6286, 6776]	6979	[6688, 6302]
866	[1641, 1642]	2904	[4753, 4754]	4942	[6777, 636]	6980	[7872, 6703]
867	[1643, 1644]	2905	[4755, 4756]	4943	[3179, 6131]	6981	[252, 6464]
868	[1645, 1646]	2906	[4757, 4444]	4944	[5687, 6476]	6982	[6135, 6610]
869	[1647, 1648]	2907	[4758, 4759]	4945	[6713, 6211]	6983	[6075, 6789]
870	[1153, 1649]	2908	[4760, 4761]	4946	[6778, 6435]	6984	[6348, 5387]
871	[1650, 1237]	2909	[4275, 4762]	4947	[6779, 5872]	6985	[5905, 5557]
872	[1651, 1652]	2910	[4763, 4167]	4948	[6780, 6452]	6986	[3074, 7882]
873	[1653, 1654]	2911	[4764, 4274]	4949	[5129, 6781]	6987	[6534, 7883]
874	[1655, 1656]	2912	[4765, 4766]	4950	[625, 6782]	6988	[7884, 2612]
875	[1363, 1657]	2913	[4602, 4767]	4951	[2581, 5793]	6989	[6828, 7885]
876	[1658, 1659]	2914	[4421, 3662]	4952	[6736, 6783]	6990	[6421, 6197]
877	[1660, 1661]	2915	[4768, 423]	4953	[5119, 773]	6991	[3015, 6198]
878	[1662, 1663]	2916	[4769, 4770]	4954	[1890, 6105]	6992	[7886, 6715]
879	[1664, 1665]	2917	[4771, 4772]	4955	[828, 6784]	6993	[2952, 6535]
880	[497, 1666]	2918	[4773, 1091]	4956	[2206, 5587]	6994	[6463, 2650]
881	[1667, 1668]	2919	[4774, 3614]	4957	[3060, 2831]	6995	[2552, 2631]
882	[1669, 1670]	2920	[4775, 4776]	4958	[6647, 6546]	6996	[2005, 6246]
883	[1671, 1672]	2921	[4777, 4778]	4959	[2892, 5941]	6997	[1933, 6766]
884	[1673, 1674]	2922	[4779, 4780]	4960	[6785, 133]	6998	[2123, 6303]
885	[1675, 1305]	2923	[4781, 3942]	4961	[5797, 2468]	6999	[7887, 6825]
886	[1676, 1677]	2924	[4782, 4783]	4962	[6301, 6786]	7000	[2753, 901]
887	[1678, 1679]	2925	[1739, 4784]	4963	[6787, 6788]	7001	[2538, 7888]
888	[1680, 1681]	2926	[4785, 4786]	4964	[5654, 5889]	7002	[7820, 6384]
889	[365, 490]	2927	[413, 4054]	4965	[2062, 5283]	7003	[2307, 3188]
890	[1252, 496]	2928	[4787, 4056]	4966	[6789, 2283]	7004	[2046, 6627]
891	[1682, 1683]	2929	[4624, 4788]	4967	[6790, 5891]	7005	[6239, 7889]
892	[1684, 1685]	2930	[4789, 4098]	4968	[6791, 6030]	7006	[5897, 7890]
893	[1686, 1687]	2931	[4790, 4791]	4969	[6185, 6792]	7007	[934, 7891]
894	[1688, 1689]	2932	[4792, 3689]	4970	[2339, 6793]	7008	[7831, 7892]
895	[1561, 1690]	2933	[4793, 4794]	4971	[6794, 6142]	7009	[2619, 5594]
896	[1691, 1692]	2934	[3426, 4795]	4972	[6795, 5685]	7010	[7893, 7894]
897	[1693, 1694]	2935	[4796, 4797]	4973	[6134, 6796]	7011	[6853, 7895]
898	[1695, 1696]	2936	[4798, 4799]	4974	[6797, 6635]	7012	[3095, 6326]
899	[1697, 1698]	2937	[4800, 4801]	4975	[2270, 6728]	7013	[7896, 7897]

900	[1699, 1700]	2938	[1620, 4802]	4976	[6614, 2859]	7014	[6820, 7829]
901	[1701, 1702]	2939	[4803, 4804]	4977	[6582, 6721]	7015	[3033, 1858]
902	[1703, 1704]	2940	[4805, 4806]	4978	[528, 1871]	7016	[7833, 7859]
903	[1705, 1706]	2941	[4807, 3838]	4979	[6700, 6191]	7017	[7848, 7861]
904	[1707, 1708]	2942	[1595, 1811]	4980	[5642, 6391]	7018	[1854, 2508]
905	[1157, 442]	2943	[4063, 4808]	4981	[6611, 6798]	7019	[1850, 6550]
906	[1709, 1710]	2944	[3488, 1528]	4982	[6306, 843]	7020	[7898, 6778]
907	[1711, 1712]	2945	[4809, 4810]	4983	[3035, 6132]	7021	[5535, 6804]
908	[1713, 1600]	2946	[4811, 3622]	4984	[5124, 6799]	7022	[2498, 5981]
909	[1714, 1715]	2947	[4812, 4813]	4985	[6800, 6801]	7023	[2963, 6351]
910	[1716, 1717]	2948	[1203, 1008]	4986	[6144, 5163]	7024	[575, 6339]
911	[1718, 1719]	2949	[3590, 4503]	4987	[942, 3077]	7025	[5259, 6392]
912	[1720, 1721]	2950	[4329, 4240]	4988	[6802, 6803]	7026	[3012, 7899]
913	[1722, 1723]	2951	[4814, 4815]	4989	[6804, 5701]	7027	[6083, 6632]
914	[1724, 1725]	2952	[4816, 4817]	4990	[6805, 1990]	7028	[7900, 7901]
915	[1726, 1727]	2953	[4043, 3555]	4991	[6716, 203]	7029	[6682, 2624]
916	[1728, 1729]	2954	[4067, 4818]	4992	[5367, 5137]	7030	[7902, 6166]
917	[1730, 1731]	2955	[1785, 4379]	4993	[6806, 6071]	7031	[5615, 2977]
918	[1732, 1733]	2956	[4819, 1537]	4994	[6203, 6327]	7032	[6821, 3192]
919	[1734, 1735]	2957	[3713, 4820]	4995	[2414, 6807]	7033	[6202, 3194]
920	[1736, 1737]	2958	[4821, 316]	4996	[5172, 3174]	7034	[5855, 3190]
921	[1738, 1739]	2959	[4822, 4823]	4997	[6808, 6809]	7035	[6850, 7903]
922	[1740, 1741]	2960	[4824, 4825]	4998	[6810, 6811]	7036	[2237, 7857]
923	[1742, 1743]	2961	[4469, 3821]	4999	[3187, 2797]	7037	[2565, 3073]
924	[1744, 1028]	2962	[4826, 4827]	5000	[6362, 6812]	7038	[5830, 5228]
925	[1745, 1746]	2963	[4828, 107]	5001	[5617, 5123]	7039	[2021, 7904]
926	[1747, 1748]	2964	[4829, 3778]	5002	[2665, 6813]	7040	[5631, 6516]
927	[1749, 1750]	2965	[453, 4830]	5003	[6814, 2760]	7041	[7905, 6174]
928	[1751, 348]	2966	[1633, 4008]	5004	[6815, 2219]	7042	[5495, 6687]
929	[1752, 1753]	2967	[4831, 4832]	5005	[6761, 6078]	7043	[5499, 5464]
930	[1754, 1755]	2968	[3659, 4833]	5006	[2152, 5506]	7044	[7906, 5794]
931	[1756, 1757]	2969	[4834, 1020]	5007	[5850, 2078]	7045	[7907, 6697]
932	[1758, 1759]	2970	[4835, 4836]	5008	[852, 6816]	7046	[6349, 835]
933	[1759, 1760]	2971	[4837, 4838]	5009	[3086, 6787]	7047	[6696, 6664]
934	[1710, 1761]	2972	[4839, 3684]	5010	[3143, 6806]	7048	[524, 6665]
935	[1762, 1763]	2973	[4058, 4225]	5011	[2098, 6322]	7049	[2189, 7908]
936	[1764, 1523]	2974	[4840, 3831]	5012	[597, 6660]	7050	[5629, 7909]
937	[1765, 27]	2975	[1066, 4841]	5013	[6817, 5503]	7051	[7910, 7911]
938	[1766, 1162]	2976	[3819, 4842]	5014	[6560, 6808]	7052	[7912, 6412]
939	[1767, 463]	2977	[3781, 4843]	5015	[706, 5508]	7053	[5223, 6805]
940	[1768, 465]	2978	[4844, 4812]	5016	[2883, 2047]	7054	[5273, 7913]
941	[1769, 1241]	2979	[4845, 4846]	5017	[6818, 6819]	7055	[5645, 2670]
942	[1770, 1771]	2980	[3803, 4847]	5018	[5563, 6737]	7056	[6190, 5173]
943	[1772, 1773]	2981	[468, 4848]	5019	[5521, 6820]	7057	[6312, 5546]

944	[1774, 1775]	2982	[4849, 4850]	5020	[2722, 6356]	7058	[7914, 868]
945	[1776, 1777]	2983	[321, 4851]	5021	[1981, 5519]	7059	[7915, 2950]
946	[1778, 1779]	2984	[3466, 1558]	5022	[5825, 6821]	7060	[5754, 2141]
947	[1780, 1781]	2985	[4852, 4789]	5023	[5515, 2348]	7061	[2138, 7916]
948	[1782, 1783]	2986	[339, 4853]	5024	[6822, 2635]	7062	[647, 7917]
949	[1784, 1785]	2987	[4854, 3258]	5025	[2702, 3034]	7063	[6621, 502]
950	[1786, 1787]	2988	[1329, 4855]	5026	[2034, 3045]	7064	[6707, 2583]
951	[1788, 1789]	2989	[4856, 487]	5027	[6267, 211]	7065	[7918, 6162]
952	[999, 1790]	2990	[4857, 4858]	5028	[6807, 6617]	7066	[7919, 7920]
953	[1791, 1792]	2991	[4859, 3700]	5029	[6754, 5918]	7067	[7878, 7852]
954	[1793, 1794]	2992	[4860, 4861]	5030	[6745, 6823]	7068	[6028, 7921]
955	[1795, 1796]	2993	[3728, 1630]	5031	[5415, 2115]	7069	[7922, 6209]
956	[1797, 1798]	2994	[4862, 4863]	5032	[6397, 3025]	7070	[7880, 7923]
957	[1799, 1800]	2995	[4864, 4344]	5033	[5305, 6183]	7071	[7924, 7875]
958	[1801, 1802]	2996	[1542, 4865]	5034	[6824, 6791]	7072	[2263, 2316]
959	[1803, 1804]	2997	[4866, 4826]	5035	[5711, 5834]	7073	[7874, 6137]
960	[1805, 1806]	2998	[4867, 374]	5036	[6686, 6593]	7074	[2864, 43]
961	[1807, 1808]	2999	[4868, 3269]	5037	[2711, 2738]	7075	[5719, 6498]
962	[1809, 1810]	3000	[1308, 4869]	5038	[6825, 6551]	7076	[7925, 6017]
963	[1811, 1812]	3001	[1283, 4870]	5039	[6526, 6826]	7077	[6812, 6836]
964	[1813, 1814]	3002	[4871, 3945]	5040	[5233, 6596]	7078	[6781, 6001]
965	[1815, 1816]	3003	[4300, 4872]	5041	[5349, 5972]	7079	[7926, 6181]
966	[1817, 1818]	3004	[4873, 1628]	5042	[6827, 680]	7080	[5940, 7927]
967	[1819, 1820]	3005	[4874, 4875]	5043	[3022, 6828]	7081	[2426, 7928]
968	[1821, 1822]	3006	[4876, 4877]	5044	[2792, 5550]	7082	[7929, 6093]
969	[1823, 888]	3007	[3591, 4878]	5045	[772, 6404]	7083	[783, 6810]
970	[1824, 1825]	3008	[4879, 29]	5046	[6513, 6587]	7084	[5270, 6832]
971	[1826, 1827]	3009	[4351, 4608]	5047	[1997, 5304]	7085	[603, 2430]
972	[1828, 1829]	3010	[4880, 4573]	5048	[1888, 2903]	7086	[5102, 6562]
973	[1830, 1831]	3011	[4881, 1747]	5049	[6545, 5103]	7087	[3175, 6136]
974	[1832, 1833]	3012	[4882, 4883]	5050	[6542, 2157]	7088	[5670, 3040]
975	[1834, 1835]	3013	[4884, 4885]	5051	[2231, 6829]	7089	[7930, 2964]
976	[1836, 1837]	3014	[1140, 4886]	5052	[6830, 6275]	7090	[5787, 155]
977	[1838, 1839]	3015	[1258, 4887]	5053	[6305, 5523]	7091	[2398, 3107]
978	[1840, 1841]	3016	[4292, 3409]	5054	[6087, 5147]	7092	[250, 7877]
979	[1842, 1843]	3017	[4888, 109]	5055	[6547, 5181]	7093	[7931, 7932]
980	[1844, 1845]	3018	[4889, 4890]	5056	[3078, 6699]	7094	[7933, 7934]
981	[1846, 1847]	3019	[4891, 4086]	5057	[2253, 6831]	7095	[7935, 7936]
982	[1848, 558]	3020	[1276, 4892]	5058	[658, 6248]	7096	[5430, 2915]
983	[1849, 1850]	3021	[420, 4893]	5059	[2847, 2080]	7097	[7885, 6011]
984	[1851, 1852]	3022	[4894, 4895]	5060	[2096, 2466]	7098	[7937, 33]
985	[1853, 1854]	3023	[4896, 3313]	5061	[6832, 5236]	7099	[7938, 6057]
986	[747, 1855]	3024	[1425, 4897]	5062	[6833, 6192]	7100	[745, 7810]
987	[1856, 1857]	3025	[3349, 4898]	5063	[5657, 5973]	7101	[6410, 6100]

988	[1858, 1859]	3026	[4369, 4899]	5064	[6290, 6515]	7102	[6278, 913]
989	[1860, 1861]	3027	[4900, 3841]	5065	[6309, 6834]	7103	[7939, 7940]
990	[1862, 1863]	3028	[293, 4437]	5066	[6634, 6835]	7104	[7941, 3186]
991	[1864, 723]	3029	[4901, 4867]	5067	[6836, 6396]	7105	[5381, 3098]
992	[1865, 1866]	3030	[4902, 4903]	5068	[6837, 5899]	7106	[5971, 5694]
993	[1867, 1868]	3031	[4904, 3895]	5069	[6543, 5653]	7107	[5250, 7938]
994	[1869, 1870]	3032	[1609, 1264]	5070	[5526, 2321]	7108	[6471, 2442]
995	[1871, 1872]	3033	[4905, 3315]	5071	[6231, 6592]	7109	[2481, 742]
996	[1873, 1874]	3034	[4788, 1137]	5072	[6792, 2462]	7110	[844, 5811]
997	[1875, 1876]	3035	[4515, 4906]	5073	[5909, 2674]	7111	[6247, 3113]
998	[1877, 1878]	3036	[4907, 4908]	5074	[6838, 6839]	7112	[7942, 7943]
999	[1879, 185]	3037	[4909, 4910]	5075	[6450, 5751]	7113	[5817, 2091]
1000	[698, 1880]	3038	[4911, 4912]	5076	[6447, 5112]	7114	[512, 7944]
1001	[1881, 1882]	3039	[3793, 4913]	5077	[6840, 6841]	7115	[6218, 6529]
1002	[1883, 1884]	3040	[4914, 4915]	5078	[5497, 6842]	7116	[7945, 1953]
1003	[1885, 872]	3041	[4916, 1769]	5079	[3173, 2775]	7117	[6024, 2387]
1004	[1886, 1887]	3042	[4917, 3319]	5080	[6798, 5895]	7118	[6504, 7946]
1005	[960, 1888]	3043	[4918, 3594]	5081	[5622, 5249]	7119	[1948, 1927]
1006	[1889, 1890]	3044	[4919, 1780]	5082	[5342, 2691]	7120	[5413, 5957]
1007	[1891, 1892]	3045	[3428, 4920]	5083	[6783, 6590]	7121	[7947, 7948]
1008	[1893, 1894]	3046	[3562, 969]	5084	[6843, 6790]	7122	[7949, 5716]
1009	[1895, 1896]	3047	[4921, 4922]	5085	[6844, 959]	7123	[7850, 6671]
1010	[152, 1897]	3048	[1771, 4923]	5086	[2728, 6845]	7124	[2611, 2655]
1011	[1898, 1899]	3049	[4924, 3851]	5087	[6846, 6847]	7125	[6756, 6281]
1012	[1900, 1901]	3050	[4925, 4926]	5088	[3114, 2622]	7126	[7901, 6047]
1013	[1902, 1903]	3051	[1656, 4927]	5089	[5469, 794]	7127	[56, 7842]
1014	[1904, 1905]	3052	[4928, 4929]	5090	[6848, 6677]	7128	[1954, 611]
1015	[1906, 622]	3053	[4930, 290]	5091	[5740, 614]	7129	[958, 572]
1016	[1907, 1908]	3054	[4931, 4932]	5092	[6649, 6313]	7130	[5109, 5900]
1017	[1909, 1910]	3055	[4933, 4934]	5093	[6849, 2769]	7131	[6676, 765]
1018	[1911, 1912]	3056	[4935, 4936]	5094	[2170, 5923]	7132	[5533, 5494]
1019	[1913, 1914]	3057	[4937, 4938]	5095	[5265, 6850]	7133	[2603, 2419]
1020	[1915, 532]	3058	[4939, 4940]	5096	[5267, 2678]	7134	[5315, 7950]
1021	[873, 576]	3059	[4915, 4941]	5097	[6851, 2161]	7135	[7951, 5928]
1022	[832, 1916]	3060	[4942, 324]	5098	[6242, 6852]	7136	[190, 798]
1023	[1917, 1918]	3061	[3745, 4943]	5099	[6751, 6853]	7137	[7952, 7953]
1024	[1919, 1920]	3062	[4587, 452]	5100	[6854, 5549]	7138	[6094, 5407]
1025	[1921, 1922]	3063	[4944, 4945]	5101	[6855, 435]	7139	[7954, 5382]
1026	[1923, 1924]	3064	[1687, 4946]	5102	[5100, 6856]	7140	[2463, 7955]
1027	[791, 1925]	3065	[4947, 3818]	5103	[6857, 1751]	7141	[7956, 6487]
1028	[1926, 546]	3066	[4948, 4949]	5104	[6858, 4027]	7142	[7957, 1994]
1029	[1927, 1928]	3067	[4950, 4951]	5105	[6859, 4258]	7143	[896, 2707]
1030	[1929, 9]	3068	[3414, 3542]	5106	[6860, 1427]	7144	[1987, 7933]
1031	[1930, 1931]	3069	[439, 4952]	5107	[6861, 3260]	7145	[7892, 7935]

1032	[1932, 1933]	3070	[4495, 280]	5108	[6862, 6863]	7146	[6600, 1919]
1033	[1934, 1935]	3071	[3227, 4301]	5109	[1027, 6864]	7147	[6561, 6263]
1034	[1936, 1937]	3072	[3229, 4953]	5110	[299, 6865]	7148	[7958, 818]
1035	[1938, 1939]	3073	[1007, 4954]	5111	[437, 4199]	7149	[2918, 6777]
1036	[1940, 1941]	3074	[4955, 4956]	5112	[3928, 6866]	7150	[6775, 6376]
1037	[1942, 820]	3075	[1163, 4210]	5113	[6867, 6868]	7151	[2914, 5446]
1038	[1943, 1820]	3076	[1536, 1330]	5114	[4913, 4779]	7152	[769, 1873]
1039	[1944, 1945]	3077	[4957, 4958]	5115	[3333, 6869]	7153	[7959, 7960]
1040	[1946, 1947]	3078	[4959, 3399]	5116	[1513, 6870]	7154	[7961, 7945]
1041	[1924, 1948]	3079	[1566, 276]	5117	[4236, 6871]	7155	[7962, 6273]
1042	[1949, 1950]	3080	[4960, 3494]	5118	[5096, 1478]	7156	[2393, 7963]
1043	[1951, 1952]	3081	[3501, 4961]	5119	[6872, 6873]	7157	[5672, 2759]
1044	[1953, 1954]	3082	[4962, 4963]	5120	[6874, 1100]	7158	[8, 3126]
1045	[1955, 1956]	3083	[4964, 4965]	5121	[1040, 6875]	7159	[5331, 6619]
1046	[1957, 1958]	3084	[4699, 4966]	5122	[6876, 6877]	7160	[2659, 3118]
1047	[1959, 1960]	3085	[1090, 4967]	5123	[3628, 6878]	7161	[5353, 6255]
1048	[1961, 1962]	3086	[1107, 4968]	5124	[4151, 3883]	7162	[5784, 2378]
1049	[1963, 1964]	3087	[4969, 4916]	5125	[3311, 4218]	7163	[877, 5758]
1050	[1965, 1966]	3088	[4970, 1497]	5126	[6879, 1141]	7164	[5635, 5760]
1051	[1967, 1968]	3089	[4971, 4972]	5127	[6880, 4633]	7165	[6321, 5757]
1052	[1969, 1970]	3090	[4973, 4974]	5128	[4069, 4970]	7166	[7964, 7965]
1053	[1971, 1972]	3091	[1228, 4975]	5129	[3487, 1095]	7167	[54, 5224]
1054	[1973, 1974]	3092	[4976, 4977]	5130	[1715, 6881]	7168	[6357, 2644]
1055	[1975, 1976]	3093	[1136, 1740]	5131	[4109, 4026]	7169	[7966, 7967]
1056	[1977, 1849]	3094	[4978, 3455]	5132	[6882, 3761]	7170	[718, 2356]
1057	[1978, 1979]	3095	[4979, 1295]	5133	[4479, 4995]	7171	[7968, 5451]
1058	[1980, 1981]	3096	[4980, 4347]	5134	[3946, 6883]	7172	[6743, 2566]
1059	[1982, 1983]	3097	[4188, 4981]	5135	[6884, 4239]	7173	[5419, 5801]
1060	[1984, 1985]	3098	[4784, 4982]	5136	[6885, 3640]	7174	[2699, 7969]
1061	[1986, 1987]	3099	[4983, 4984]	5137	[3383, 4947]	7175	[2519, 6443]
1062	[1988, 1989]	3100	[1343, 4985]	5138	[6886, 6887]	7176	[5261, 6230]
1063	[1990, 1991]	3101	[4986, 3256]	5139	[1062, 6888]	7177	[7911, 949]
1064	[1992, 1993]	3102	[4987, 269]	5140	[6889, 6890]	7178	[2651, 586]
1065	[1994, 1995]	3103	[4988, 4989]	5141	[86, 4304]	7179	[6055, 7970]
1066	[1996, 1997]	3104	[4990, 4991]	5142	[4747, 6891]	7180	[7971, 6822]
1067	[1998, 519]	3105	[4992, 4993]	5143	[6892, 4358]	7181	[2212, 2736]
1068	[726, 1999]	3106	[4994, 1404]	5144	[474, 5077]	7182	[720, 5110]
1069	[2000, 2001]	3107	[4995, 1711]	5145	[6893, 4905]	7183	[5743, 5625]
1070	[2002, 2003]	3108	[3694, 3723]	5146	[6894, 6895]	7184	[6043, 7886]
1071	[2004, 2005]	3109	[4996, 3885]	5147	[6896, 492]	7185	[7853, 5168]
1072	[2006, 195]	3110	[3808, 3676]	5148	[1500, 6897]	7186	[7890, 2585]
1073	[2007, 2008]	3111	[4997, 4998]	5149	[6898, 1220]	7187	[2214, 6679]
1074	[755, 2009]	3112	[4106, 4560]	5150	[4045, 4282]	7188	[6630, 855]
1075	[2010, 2011]	3113	[4999, 4409]	5151	[4047, 6899]	7189	[7830, 5849]

1076	[2012, 2013]	3114	[4187, 5000]	5152	[1694, 1503]	7190	[7972, 7818]
1077	[2014, 2015]	3115	[5001, 5002]	5153	[6900, 6901]	7191	[2391, 1842]
1078	[2016, 2017]	3116	[4597, 5003]	5154	[4794, 6902]	7192	[5967, 7814]
1079	[2018, 2019]	3117	[361, 4447]	5155	[6903, 6904]	7193	[2780, 6256]
1080	[2020, 2021]	3118	[5004, 5005]	5156	[1706, 1643]	7194	[2784, 825]
1081	[683, 2022]	3119	[4458, 3973]	5157	[6905, 1378]	7195	[7876, 657]
1082	[2023, 2024]	3120	[5006, 1272]	5158	[6906, 6907]	7196	[6252, 1853]
1083	[2025, 2026]	3121	[5007, 3807]	5159	[6908, 6909]	7197	[7812, 1864]
1084	[2027, 2028]	3122	[4052, 5008]	5160	[1515, 4422]	7198	[2890, 6666]
1085	[2029, 2030]	3123	[5009, 4986]	5161	[6910, 1764]	7199	[6744, 5593]
1086	[2031, 2032]	3124	[1502, 4873]	5162	[6911, 6912]	7200	[7946, 784]
1087	[2033, 2034]	3125	[5010, 4992]	5163	[6913, 4293]	7201	[6385, 2151]
1088	[210, 2035]	3126	[16, 1482]	5164	[6914, 1328]	7202	[7847, 7973]
1089	[2036, 2037]	3127	[5011, 388]	5165	[6915, 6916]	7203	[6107, 7974]
1090	[2038, 2039]	3128	[3575, 4793]	5166	[6917, 4748]	7204	[5689, 3011]
1091	[1993, 2040]	3129	[5012, 5013]	5167	[4057, 4564]	7205	[6002, 737]
1092	[2041, 870]	3130	[1582, 5014]	5168	[6918, 352]	7206	[6469, 6411]
1093	[2042, 2043]	3131	[5015, 5016]	5169	[6919, 6920]	7207	[2, 6251]
1094	[146, 2044]	3132	[4572, 5017]	5170	[4813, 6921]	7208	[6847, 7870]
1095	[1901, 2045]	3133	[4371, 403]	5171	[4975, 3592]	7209	[716, 5133]
1096	[869, 2046]	3134	[5018, 1266]	5172	[4746, 6922]	7210	[2856, 7975]
1097	[2047, 1909]	3135	[5019, 5020]	5173	[431, 6919]	7211	[2916, 6317]
1098	[2048, 2049]	3136	[5021, 5022]	5174	[3950, 4551]	7212	[7948, 5253]
1099	[2050, 2051]	3137	[5023, 5024]	5175	[6923, 6924]	7213	[7976, 6069]
1100	[2052, 2053]	3138	[5025, 1699]	5176	[1370, 4316]	7214	[5405, 6341]
1101	[2054, 2055]	3139	[5026, 1707]	5177	[4890, 4548]	7215	[2741, 1978]
1102	[2056, 2057]	3140	[5027, 4494]	5178	[6925, 6926]	7216	[7977, 6090]
1103	[2058, 2059]	3141	[5028, 5029]	5179	[6927, 6928]	7217	[6704, 7978]
1104	[2060, 193]	3142	[5030, 5031]	5180	[3240, 5068]	7218	[7894, 2848]
1105	[2061, 2062]	3143	[4977, 5032]	5181	[1603, 3727]	7219	[5467, 6848]
1106	[2063, 2064]	3144	[1483, 1012]	5182	[6929, 6930]	7220	[2936, 2929]
1107	[2065, 2066]	3145	[5033, 3304]	5183	[4858, 6931]	7221	[3181, 2258]
1108	[2067, 2068]	3146	[3877, 5034]	5184	[6932, 6933]	7222	[5450, 2386]
1109	[541, 2038]	3147	[1657, 4092]	5185	[4936, 3478]	7223	[6225, 6814]
1110	[2069, 2070]	3148	[1735, 5035]	5186	[6934, 6935]	7224	[2345, 6006]
1111	[2071, 2072]	3149	[5036, 5037]	5187	[6936, 4760]	7225	[7944, 7979]
1112	[2073, 2074]	3150	[3966, 5038]	5188	[6937, 6938]	7226	[5281, 6608]
1113	[1882, 2075]	3151	[5039, 4528]	5189	[6939, 6940]	7227	[7980, 7957]
1114	[2076, 2077]	3152	[4441, 4505]	5190	[6941, 1535]	7228	[7981, 2202]
1115	[2078, 2079]	3153	[4593, 5040]	5191	[4294, 6942]	7229	[7974, 748]
1116	[2080, 2081]	3154	[4595, 1391]	5192	[6943, 4687]	7230	[7982, 6815]
1117	[2082, 2083]	3155	[5041, 5042]	5193	[3593, 6944]	7231	[5355, 7952]
1118	[2084, 2085]	3156	[5043, 5044]	5194	[4843, 6945]	7232	[887, 5586]
1119	[2086, 2087]	3157	[5045, 4366]	5195	[4626, 6946]	7233	[7983, 925]

1120	[2088, 2089]	3158	[4517, 5046]	5196	[1570, 6947]	7234	[2765, 5350]
1121	[2037, 2090]	3159	[4841, 5047]	5197	[6948, 4002]	7235	[954, 6500]
1122	[2091, 2092]	3160	[4485, 4530]	5198	[4832, 6949]	7236	[2085, 2604]
1123	[2093, 2094]	3161	[5048, 5049]	5199	[6950, 4720]	7237	[7984, 6143]
1124	[2095, 2096]	3162	[5050, 5051]	5200	[4313, 1433]	7238	[6365, 5325]
1125	[2097, 2098]	3163	[5052, 4223]	5201	[6951, 4125]	7239	[7985, 6650]
1126	[2099, 2100]	3164	[5053, 5054]	5202	[4406, 270]	7240	[3028, 2399]
1127	[2101, 2102]	3165	[1465, 1166]	5203	[3450, 4250]	7241	[6738, 2645]
1128	[2103, 2104]	3166	[4804, 4412]	5204	[6952, 1626]	7242	[805, 5571]
1129	[2105, 2106]	3167	[5055, 3282]	5205	[4472, 6953]	7243	[2880, 7962]
1130	[2107, 2084]	3168	[4659, 4518]	5206	[4531, 6954]	7244	[5775, 6601]
1131	[2108, 2109]	3169	[1727, 5056]	5207	[4348, 4988]	7245	[6031, 7986]
1132	[2110, 2111]	3170	[5057, 5058]	5208	[6955, 6956]	7246	[2318, 5964]
1133	[2112, 2113]	3171	[5059, 5060]	5209	[6957, 6923]	7247	[5487, 6425]
1134	[2114, 1955]	3172	[88, 4484]	5210	[5058, 6958]	7248	[6012, 6612]
1135	[2045, 860]	3173	[4095, 4302]	5211	[1401, 4821]	7249	[2995, 7987]
1136	[2115, 2116]	3174	[4664, 3540]	5212	[3433, 6959]	7250	[6358, 6063]
1137	[2117, 2118]	3175	[3811, 5061]	5213	[6960, 6961]	7251	[6153, 6296]
1138	[2119, 2120]	3176	[5005, 5062]	5214	[6962, 6963]	7252	[522, 3087]
1139	[2121, 161]	3177	[1449, 5063]	5215	[6964, 6965]	7253	[1820, 7988]
1140	[2122, 2123]	3178	[3779, 4907]	5216	[6966, 6967]	7254	[6576, 5851]
1141	[2124, 2125]	3179	[5064, 4769]	5217	[6968, 4558]	7255	[5675, 7989]
1142	[2126, 2127]	3180	[3757, 5065]	5218	[6969, 6970]	7256	[5456, 5939]
1143	[2128, 2129]	3181	[3986, 3907]	5219	[6971, 3350]	7257	[7895, 6250]
1144	[2130, 731]	3182	[5066, 5067]	5220	[1490, 6972]	7258	[1928, 2553]
1145	[2131, 2132]	3183	[5068, 5069]	5221	[6973, 3742]	7259	[7990, 6088]
1146	[2133, 2134]	3184	[4432, 5070]	5222	[6974, 6975]	7260	[749, 5411]
1147	[2135, 2136]	3185	[4138, 326]	5223	[3456, 4118]	7261	[5170, 6794]
1148	[2137, 2138]	3186	[5002, 5041]	5224	[1271, 6976]	7262	[2223, 231]
1149	[2139, 2140]	3187	[5071, 4623]	5225	[3578, 4256]	7263	[7991, 6767]
1150	[2141, 2142]	3188	[1050, 3392]	5226	[6977, 97]	7264	[7932, 7906]
1151	[2143, 2144]	3189	[5072, 1797]	5227	[4521, 4745]	7265	[5969, 2273]
1152	[2145, 2146]	3190	[5073, 5074]	5228	[3600, 346]	7266	[7879, 5990]
1153	[2147, 2148]	3191	[5075, 4195]	5229	[6899, 1730]	7267	[5542, 5814]
1154	[2149, 2150]	3192	[1665, 4242]	5230	[4163, 4445]	7268	[6624, 6750]
1155	[2151, 2152]	3193	[5076, 1340]	5231	[3931, 6978]	7269	[2838, 7992]
1156	[2153, 2154]	3194	[5077, 1073]	5232	[4778, 6979]	7270	[5680, 6797]
1157	[2155, 2156]	3195	[5078, 5079]	5233	[1199, 1756]	7271	[6222, 6631]
1158	[2157, 2158]	3196	[4532, 1815]	5234	[1134, 6980]	7272	[5884, 7896]
1159	[2159, 2160]	3197	[4693, 1525]	5235	[4783, 6981]	7273	[7993, 5376]
1160	[2161, 2145]	3198	[5080, 4807]	5236	[3470, 1443]	7274	[2106, 7994]
1161	[2162, 2163]	3199	[5081, 4049]	5237	[6982, 3509]	7275	[6495, 3125]
1162	[2164, 560]	3200	[5082, 5083]	5238	[4640, 6983]	7276	[6344, 2330]
1163	[2165, 2166]	3201	[5084, 1120]	5239	[4527, 1124]	7277	[6640, 6041]

1164	[2167, 2168]	3202	[5085, 1279]	5240	[6984, 6985]	7278	[6722, 7995]
1165	[2169, 2170]	3203	[5086, 4266]	5241	[1725, 6986]	7279	[2794, 6038]
1166	[2171, 2172]	3204	[5087, 5088]	5242	[3532, 4059]	7280	[7996, 2791]
1167	[2173, 2174]	3205	[5089, 5090]	5243	[990, 4763]	7281	[5828, 5374]
1168	[930, 2175]	3206	[355, 4006]	5244	[4385, 4765]	7282	[2681, 6544]
1169	[932, 2176]	3207	[5091, 4164]	5245	[4544, 6987]	7283	[5433, 5718]
1170	[2177, 2178]	3208	[4312, 1501]	5246	[6921, 4454]	7284	[7997, 5108]
1171	[2066, 880]	3209	[4701, 5092]	5247	[4679, 5066]	7285	[6524, 2099]
1172	[2179, 2180]	3210	[4833, 4944]	5248	[6988, 1438]	7286	[7888, 777]
1173	[2181, 2014]	3211	[4523, 5093]	5249	[5044, 6989]	7287	[6005, 5226]
1174	[2182, 897]	3212	[5013, 4722]	5250	[6990, 6991]	7288	[6159, 6757]
1175	[214, 2183]	3213	[5094, 3864]	5251	[4967, 6992]	7289	[5511, 6693]
1176	[615, 2184]	3214	[5095, 5096]	5252	[118, 4694]	7290	[2758, 2374]
1177	[736, 2185]	3215	[4112, 5097]	5253	[6993, 6994]	7291	[7998, 2147]
1178	[2186, 2187]	3216	[5098, 1239]	5254	[6938, 4264]	7292	[7921, 3176]
1179	[2188, 2189]	3217	[5099, 5100]	5255	[6949, 3264]	7293	[6433, 6496]
1180	[2190, 2191]	3218	[5101, 5102]	5256	[6995, 1326]	7294	[5156, 5892]
1181	[2192, 2193]	3219	[5103, 5104]	5257	[6996, 6997]	7295	[7999, 7887]
1182	[2194, 2195]	3220	[5105, 5106]	5258	[486, 6998]	7296	[6793, 6849]
1183	[202, 2196]	3221	[2669, 5107]	5259	[4466, 6999]	7297	[6165, 2181]
1184	[555, 2197]	3222	[5108, 5109]	5260	[1526, 7000]	7298	[7863, 6261]
1185	[2198, 2199]	3223	[5110, 5111]	5261	[7001, 7002]	7299	[6604, 7844]
1186	[2200, 2201]	3224	[5112, 5113]	5262	[7003, 3553]	7300	[6784, 5789]
1187	[2202, 2203]	3225	[5114, 5115]	5263	[7004, 4669]	7301	[559, 713]
1188	[2204, 725]	3226	[2646, 5116]	5264	[7005, 7006]	7302	[2747, 6169]
1189	[2205, 2206]	3227	[5117, 2633]	5265	[7007, 7008]	7303	[7883, 6771]
1190	[2207, 618]	3228	[5118, 5119]	5266	[980, 4481]	7304	[7909, 606]
1191	[2208, 2209]	3229	[5120, 238]	5267	[982, 4483]	7305	[5298, 8000]
1192	[2210, 2211]	3230	[5121, 5122]	5268	[7009, 7010]	7306	[5868, 3007]
1193	[1859, 2212]	3231	[5123, 5124]	5269	[3566, 4925]	7307	[7920, 5608]
1194	[2213, 2214]	3232	[1876, 5125]	5270	[7011, 7012]	7308	[6308, 6164]
1195	[2215, 2216]	3233	[5126, 5127]	5271	[3682, 4496]	7309	[5509, 6840]
1196	[2217, 2218]	3234	[5128, 5129]	5272	[94, 7013]	7310	[8001, 3053]
1197	[2219, 221]	3235	[5130, 2606]	5273	[6992, 7014]	7311	[3110, 6201]
1198	[2220, 2135]	3236	[5131, 5132]	5274	[7015, 7016]	7312	[7908, 8001]
1199	[2221, 2130]	3237	[5133, 5134]	5275	[7017, 7018]	7313	[6148, 55]
1200	[2222, 2223]	3238	[5135, 5136]	5276	[7019, 1520]	7314	[6643, 6603]
1201	[842, 2224]	3239	[5137, 961]	5277	[7020, 7021]	7315	[5810, 8002]
1202	[2225, 2226]	3240	[5138, 5139]	5278	[6956, 7022]	7316	[7823, 2955]
1203	[2227, 1895]	3241	[2966, 5140]	5279	[1663, 7023]	7317	[2653, 6380]
1204	[2228, 2229]	3242	[5141, 2544]	5280	[1115, 7024]	7318	[6122, 6117]
1205	[2230, 2231]	3243	[5142, 5143]	5281	[5020, 3371]	7319	[3020, 5477]
1206	[2232, 2233]	3244	[1835, 5144]	5282	[6869, 1580]	7320	[3030, 2998]
1207	[2234, 2235]	3245	[5145, 3032]	5283	[7025, 4732]	7321	[8003, 7926]

1208	[2236, 2237]	3246	[5146, 2579]	5284	[3604, 5081]	7322	[6061, 2959]
1209	[2238, 2]	3247	[5147, 249]	5285	[7026, 6918]	7323	[675, 7968]
1210	[2239, 2240]	3248	[5148, 5149]	5286	[7027, 4676]	7324	[3084, 6844]
1211	[2241, 2242]	3249	[5150, 5151]	5287	[3452, 4678]	7325	[2057, 6289]
1212	[2243, 588]	3250	[5152, 5153]	5288	[7028, 3770]	7326	[6466, 2656]
1213	[2244, 2245]	3251	[5154, 5155]	5289	[1615, 4753]	7327	[1894, 5569]
1214	[2246, 2247]	3252	[5155, 5156]	5290	[7029, 6911]	7328	[5690, 8004]
1215	[2248, 2249]	3253	[3043, 2076]	5291	[460, 7030]	7329	[7873, 592]
1216	[2250, 2251]	3254	[5157, 5158]	5292	[7031, 1664]	7330	[6124, 6486]
1217	[2252, 2253]	3255	[5159, 5160]	5293	[7032, 7033]	7331	[6656, 2596]
1218	[2254, 2255]	3256	[5161, 5162]	5294	[7034, 1799]	7332	[5400, 544]
1219	[2256, 2257]	3257	[5163, 2371]	5295	[7035, 4502]	7333	[6046, 6460]
1220	[2258, 2259]	3258	[5164, 3127]	5296	[7036, 7037]	7334	[2609, 5767]
1221	[164, 2260]	3259	[850, 5165]	5297	[1737, 4712]	7335	[6841, 6714]
1222	[2174, 2261]	3260	[5166, 5167]	5298	[1001, 7038]	7336	[6461, 2220]
1223	[2262, 2263]	3261	[5168, 5169]	5299	[7039, 7040]	7337	[6262, 6658]
1224	[2264, 1823]	3262	[2113, 5170]	5300	[3224, 113]	7338	[6483, 8005]
1225	[2265, 2266]	3263	[5171, 5172]	5301	[4865, 4828]	7339	[5540, 2369]
1226	[2267, 2268]	3264	[5173, 5174]	5302	[4780, 1322]	7340	[6776, 8006]
1227	[2269, 2270]	3265	[5175, 5176]	5303	[7041, 4661]	7341	[7854, 6372]
1228	[2271, 2272]	3266	[2584, 905]	5304	[3503, 7042]	7342	[8007, 7983]
1229	[2273, 2274]	3267	[3019, 5177]	5305	[3505, 7043]	7343	[234, 6595]
1230	[2275, 2276]	3268	[194, 2027]	5306	[7044, 7045]	7344	[2266, 6393]
1231	[2277, 2278]	3269	[1931, 5178]	5307	[4307, 1653]	7345	[8008, 515]
1232	[2279, 2280]	3270	[5179, 5180]	5308	[7046, 3560]	7346	[8000, 2853]
1233	[2281, 2282]	3271	[2361, 2234]	5309	[7047, 7048]	7347	[8009, 8010]
1234	[2283, 2050]	3272	[5181, 5182]	5310	[7049, 3465]	7348	[1897, 2376]
1235	[2284, 2285]	3273	[5183, 5184]	5311	[4827, 7050]	7349	[7811, 5485]
1236	[2286, 2287]	3274	[1872, 5185]	5312	[1333, 286]	7350	[2342, 2031]
1237	[2288, 1891]	3275	[2904, 5159]	5313	[4119, 4311]	7351	[5559, 6733]
1238	[2289, 2290]	3276	[1958, 5186]	5314	[7051, 7052]	7352	[6734, 6227]
1239	[2291, 2292]	3277	[5187, 5188]	5315	[3846, 4792]	7353	[5984, 8011]
1240	[2293, 2294]	3278	[2545, 5189]	5316	[3300, 7053]	7354	[6717, 3121]
1241	[2295, 2296]	3279	[5190, 1865]	5317	[7054, 7055]	7355	[6698, 8012]
1242	[2297, 864]	3280	[5191, 5192]	5318	[7056, 3546]	7356	[7987, 788]
1243	[2298, 2299]	3281	[5193, 1949]	5319	[7057, 7056]	7357	[900, 5673]
1244	[2300, 2301]	3282	[5194, 5195]	5320	[3543, 7058]	7358	[5612, 5383]
1245	[2302, 2303]	3283	[5196, 5197]	5321	[7059, 3737]	7359	[6531, 5603]
1246	[2304, 2305]	3284	[5198, 5199]	5322	[4287, 7060]	7360	[6445, 2850]
1247	[178, 1821]	3285	[5200, 5201]	5323	[7061, 407]	7361	[5459, 5668]
1248	[2306, 2307]	3286	[5202, 2815]	5324	[3545, 7062]	7362	[6318, 6846]
1249	[2308, 2309]	3287	[5203, 2957]	5325	[3570, 4618]	7363	[6158, 8013]
1250	[2310, 2311]	3288	[5204, 5205]	5326	[7063, 4620]	7364	[2843, 6066]
1251	[2312, 963]	3289	[2713, 5206]	5327	[4269, 4197]	7365	[5513, 5913]

1252	[889, 2313]	3290	[5207, 5208]	5328	[5049, 3243]	7366	[8004, 6051]
1253	[2314, 2315]	3291	[5209, 5210]	5329	[7064, 7065]	7367	[8014, 6678]
1254	[2316, 2317]	3292	[5211, 2503]	5330	[4340, 4627]	7368	[5384, 6731]
1255	[644, 2318]	3293	[5212, 5213]	5331	[7066, 3330]	7369	[2359, 5150]
1256	[2319, 2320]	3294	[3048, 5214]	5332	[7067, 6932]	7370	[595, 6769]
1257	[2321, 2322]	3295	[5215, 5216]	5333	[24, 3981]	7371	[6753, 6724]
1258	[2323, 2324]	3296	[5217, 5218]	5334	[7068, 7069]	7372	[7841, 6625]
1259	[2325, 643]	3297	[5219, 1951]	5335	[5022, 7070]	7373	[7843, 2608]
1260	[2326, 646]	3298	[5220, 5221]	5336	[3329, 1651]	7374	[3206, 7862]
1261	[2178, 2327]	3299	[5222, 5223]	5337	[7071, 6964]	7375	[940, 235]
1262	[2328, 2329]	3300	[5224, 5194]	5338	[7072, 4702]	7376	[581, 5200]
1263	[2330, 2331]	3301	[5225, 51]	5339	[7073, 7074]	7377	[6287, 6641]
1264	[2332, 2308]	3302	[5226, 2300]	5340	[7075, 6952]	7378	[5677, 2981]
1265	[1837, 2333]	3303	[5227, 8]	5341	[7076, 7077]	7379	[5553, 8015]
1266	[2334, 892]	3304	[3140, 2789]	5342	[7078, 1346]	7380	[8016, 7910]
1267	[2335, 2336]	3305	[5228, 3059]	5343	[4276, 4939]	7381	[150, 5951]
1268	[2337, 2236]	3306	[5229, 3135]	5344	[5024, 7079]	7382	[6723, 8017]
1269	[2338, 2339]	3307	[2660, 5230]	5345	[7080, 1732]	7383	[6497, 6730]
1270	[2340, 2341]	3308	[2912, 5231]	5346	[7081, 7082]	7384	[6138, 6599]
1271	[1831, 2342]	3309	[5232, 5233]	5347	[3418, 3497]	7385	[8018, 6827]
1272	[2343, 2256]	3310	[5234, 5235]	5348	[7083, 7084]	7386	[7840, 8019]
1273	[2344, 2345]	3311	[5236, 5237]	5349	[4363, 7085]	7387	[7882, 5997]
1274	[2346, 2347]	3312	[5238, 5239]	5350	[4581, 4829]	7388	[2971, 8008]
1275	[2348, 2349]	3313	[5240, 2041]	5351	[7086, 7087]	7389	[5578, 2048]
1276	[2350, 2351]	3314	[5241, 5242]	5352	[6856, 93]	7390	[6462, 7947]
1277	[2352, 2353]	3315	[5243, 2909]	5353	[7088, 7089]	7391	[830, 616]
1278	[2354, 2355]	3316	[5244, 2911]	5354	[4196, 7090]	7392	[6839, 5844]
1279	[2356, 2357]	3317	[5245, 3115]	5355	[6983, 6962]	7393	[3146, 6437]
1280	[2358, 2359]	3318	[5246, 5247]	5356	[7091, 7092]	7394	[5242, 7828]
1281	[2360, 2361]	3319	[5248, 770]	5357	[4953, 3222]	7395	[2116, 6622]
1282	[633, 2362]	3320	[5249, 5250]	5358	[311, 7093]	7396	[7809, 2131]
1283	[2363, 2364]	3321	[5251, 816]	5359	[7094, 7095]	7397	[3112, 179]
1284	[2030, 1879]	3322	[5252, 2854]	5360	[7096, 5027]	7398	[5205, 858]
1285	[2365, 2366]	3323	[5253, 2417]	5361	[1215, 3658]	7399	[5749, 2491]
1286	[2367, 2368]	3324	[5254, 2513]	5362	[4357, 7097]	7400	[5512, 2000]
1287	[2369, 2370]	3325	[694, 2516]	5363	[4815, 4957]	7401	[610, 2447]
1288	[2371, 2128]	3326	[5255, 1844]	5364	[7098, 7099]	7402	[6210, 7907]
1289	[2372, 2373]	3327	[5256, 2927]	5365	[7100, 1596]	7403	[6194, 5722]
1290	[2374, 2375]	3328	[5257, 5258]	5366	[3430, 7101]	7404	[966, 6102]
1291	[2376, 2377]	3329	[188, 5259]	5367	[3972, 1807]	7405	[2828, 8009]
1292	[2378, 2379]	3330	[687, 806]	5368	[5037, 4629]	7406	[2824, 5412]
1293	[2380, 2381]	3331	[5260, 5261]	5369	[5038, 4630]	7407	[226, 7981]
1294	[2382, 2383]	3332	[5262, 804]	5370	[7102, 1049]	7408	[6354, 7982]
1295	[2384, 2385]	3333	[5263, 2837]	5371	[7103, 4066]	7409	[6706, 500]

1296	[2386, 2279]	3334	[5264, 5265]	5372	[3554, 4082]	7410	[7917, 2254]
1297	[2387, 2388]	3335	[5266, 5267]	5373	[1355, 485]	7411	[7979, 2598]
1298	[2389, 1932]	3336	[5268, 5269]	5374	[5074, 7104]	7412	[5821, 3083]
1299	[2390, 2391]	3337	[52, 5270]	5375	[7105, 1738]	7413	[7969, 5272]
1300	[2392, 2393]	3338	[526, 5271]	5376	[6970, 7106]	7414	[7824, 3142]
1301	[2394, 2395]	3339	[5272, 3200]	5377	[4448, 296]	7415	[7950, 7996]
1302	[2396, 2188]	3340	[2623, 5273]	5378	[7107, 7098]	7416	[2507, 542]
1303	[2397, 2398]	3341	[2035, 5274]	5379	[7108, 4673]	7417	[2329, 729]
1304	[2399, 2400]	3342	[2156, 1934]	5380	[3561, 4790]	7418	[2735, 6508]
1305	[2401, 935]	3343	[5275, 5276]	5381	[3231, 4983]	7419	[6782, 2306]
1306	[2402, 2403]	3344	[5277, 5278]	5382	[6877, 4614]	7420	[5663, 3139]
1307	[1910, 2404]	3345	[5279, 5280]	5383	[7109, 7110]	7421	[2675, 2586]
1308	[2405, 2406]	3346	[2999, 5281]	5384	[7111, 7112]	7422	[6387, 5472]
1309	[2407, 2408]	3347	[1884, 715]	5385	[7113, 7114]	7423	[7899, 7958]
1310	[2409, 2025]	3348	[5282, 49]	5386	[7115, 7116]	7424	[5465, 7922]
1311	[883, 2410]	3349	[5283, 5284]	5387	[4120, 5030]	7425	[2441, 6532]
1312	[200, 2073]	3350	[5285, 941]	5388	[1719, 1186]	7426	[6594, 5698]
1313	[2411, 2286]	3351	[5286, 5287]	5389	[7117, 4637]	7427	[7967, 6472]
1314	[2412, 2413]	3352	[50, 2842]	5390	[3751, 7118]	7428	[5848, 5644]
1315	[605, 2414]	3353	[5288, 5289]	5391	[4872, 3321]	7429	[7988, 8020]
1316	[2415, 2416]	3354	[5290, 5291]	5392	[493, 4157]	7430	[3044, 6739]
1317	[2417, 2418]	3355	[2485, 5292]	5393	[1496, 1366]	7431	[5959, 6343]
1318	[2419, 2420]	3356	[5293, 5294]	5394	[7119, 4959]	7432	[2806, 6141]
1319	[2022, 2421]	3357	[5295, 5296]	5395	[1607, 1282]	7433	[6446, 6779]
1320	[2422, 525]	3358	[5297, 5298]	5396	[6922, 7120]	7434	[6811, 6103]
1321	[2423, 2424]	3359	[5299, 5300]	5397	[7121, 7122]	7435	[8012, 6802]
1322	[2425, 2426]	3360	[2997, 5301]	5398	[456, 3740]	7436	[5647, 6026]
1323	[1989, 2427]	3361	[5302, 866]	5399	[1019, 3987]	7437	[6823, 5227]
1324	[2428, 2429]	3362	[5303, 5279]	5400	[7123, 4407]	7438	[42, 6274]
1325	[2430, 2431]	3363	[5304, 5305]	5401	[1439, 7124]	7439	[8021, 5762]
1326	[2432, 2433]	3364	[5306, 5307]	5402	[7125, 1673]	7440	[5602, 3085]
1327	[1985, 686]	3365	[208, 5256]	5403	[7126, 7127]	7441	[7889, 6329]
1328	[2434, 2435]	3366	[5308, 2121]	5404	[1351, 3523]	7442	[2064, 6478]
1329	[2436, 2437]	3367	[5309, 5310]	5405	[7128, 7129]	7443	[7970, 6838]
1330	[2438, 2439]	3368	[5311, 5312]	5406	[7130, 4866]	7444	[6829, 6245]
1331	[2440, 634]	3369	[5313, 5314]	5407	[7097, 4738]	7445	[6605, 7939]
1332	[2051, 2441]	3370	[569, 5315]	5408	[7131, 3480]	7446	[5186, 5927]
1333	[2442, 564]	3371	[5316, 5317]	5409	[3534, 4507]	7447	[8022, 7941]
1334	[2443, 2444]	3372	[5318, 5319]	5410	[3536, 7132]	7448	[2331, 8023]
1335	[2445, 2446]	3373	[5320, 2779]	5411	[1435, 7133]	7449	[5346, 6537]
1336	[2447, 2448]	3374	[5321, 3157]	5412	[4651, 1131]	7450	[2671, 5311]
1337	[2449, 2450]	3375	[5322, 5203]	5413	[4652, 3958]	7451	[5780, 2546]
1338	[1918, 2451]	3376	[5323, 5324]	5414	[4653, 3373]	7452	[2324, 7977]
1339	[2055, 2452]	3377	[5325, 5326]	5415	[4654, 7134]	7453	[5813, 7900]

1340	[2453, 2454]	3378	[5327, 5328]	5416	[6961, 1541]	7454	[2677, 695]
1341	[220, 2455]	3379	[5329, 5321]	5417	[7135, 1752]	7455	[5107, 2153]
1342	[2456, 2457]	3380	[5330, 5331]	5418	[7136, 7137]	7456	[761, 1967]
1343	[2458, 2459]	3381	[5332, 5183]	5419	[4263, 7138]	7457	[2937, 8024]
1344	[2460, 2461]	3382	[5333, 251]	5420	[1635, 4665]	7458	[5738, 2012]
1345	[2462, 2463]	3383	[1914, 5334]	5421	[3857, 4800]	7459	[5324, 32]
1346	[2464, 2465]	3384	[2127, 5335]	5422	[7139, 393]	7460	[6834, 5585]
1347	[2466, 2467]	3385	[2814, 2449]	5423	[7140, 7141]	7461	[8025, 2291]
1348	[2468, 2469]	3386	[5336, 2773]	5424	[7142, 3550]	7462	[6018, 8026]
1349	[2470, 2471]	3387	[5337, 5338]	5425	[4039, 292]	7463	[5776, 6438]
1350	[1970, 2472]	3388	[5339, 5340]	5426	[7143, 4730]	7464	[5162, 6749]
1351	[2473, 568]	3389	[5341, 5342]	5427	[7144, 7145]	7465	[7928, 7964]
1352	[2474, 2475]	3390	[2523, 5343]	5428	[7146, 1316]	7466	[6279, 917]
1353	[2476, 2477]	3391	[5344, 2921]	5429	[7147, 3750]	7467	[6479, 6258]
1354	[2163, 53]	3392	[5345, 5346]	5430	[7148, 7149]	7468	[5597, 5574]
1355	[2478, 2479]	3393	[3101, 1840]	5431	[7150, 5053]	7469	[5649, 6013]
1356	[2480, 2481]	3394	[5347, 1992]	5432	[7151, 7152]	7470	[60, 8025]
1357	[2482, 2483]	3395	[5348, 5349]	5433	[4842, 7039]	7471	[5357, 5783]
1358	[2484, 2485]	3396	[5350, 5351]	5434	[4074, 7153]	7472	[58, 8027]
1359	[1833, 2486]	3397	[5352, 45]	5435	[4767, 7154]	7473	[6770, 7971]
1360	[2487, 2488]	3398	[3050, 5353]	5436	[7155, 4220]	7474	[8028, 5352]
1361	[166, 2489]	3399	[5354, 5355]	5437	[3655, 7156]	7475	[2739, 574]
1362	[861, 2490]	3400	[5356, 5357]	5438	[988, 4839]	7476	[627, 5829]
1363	[2491, 2492]	3401	[5358, 5359]	5439	[4153, 7136]	7477	[6509, 2852]
1364	[2493, 2494]	3402	[5360, 5361]	5440	[7157, 4569]	7478	[7871, 8029]
1365	[2495, 2496]	3403	[5206, 3196]	5441	[4435, 4663]	7479	[7923, 5190]
1366	[2497, 2498]	3404	[599, 5362]	5442	[7158, 3800]	7480	[2368, 8030]
1367	[2499, 2500]	3405	[5363, 641]	5443	[1519, 1079]	7481	[7891, 8031]
1368	[2501, 2502]	3406	[5364, 5365]	5444	[406, 7067]	7482	[6711, 3167]
1369	[2503, 2504]	3407	[5366, 5367]	5445	[7159, 1051]	7483	[8032, 919]
1370	[2505, 2506]	3408	[5368, 5369]	5446	[6963, 7160]	7484	[6095, 6740]
1371	[809, 2507]	3409	[5370, 5371]	5447	[4555, 5048]	7485	[6077, 8033]
1372	[2508, 2509]	3410	[5372, 5373]	5448	[7161, 3413]	7486	[5176, 7980]
1373	[2026, 2510]	3411	[836, 2799]	5449	[3688, 3879]	7487	[2383, 2478]
1374	[2511, 2512]	3412	[5374, 5375]	5450	[6945, 7162]	7488	[5831, 3184]
1375	[2513, 2514]	3413	[5376, 5377]	5451	[7163, 7164]	7489	[6179, 823]
1376	[2515, 35]	3414	[5378, 5379]	5452	[7165, 3717]	7490	[6390, 5282]
1377	[2516, 2517]	3415	[5380, 5381]	5453	[7166, 3862]	7491	[6150, 3009]
1378	[2518, 2519]	3416	[5382, 2133]	5454	[7087, 3236]	7492	[5289, 5860]
1379	[2520, 2521]	3417	[5383, 5384]	5455	[363, 5015]	7493	[6670, 6668]
1380	[2522, 2523]	3418	[5385, 5386]	5456	[4146, 7167]	7494	[6659, 5614]
1381	[2524, 2525]	3419	[5387, 1881]	5457	[7168, 4471]	7495	[5924, 6629]
1382	[685, 851]	3420	[2969, 3210]	5458	[7169, 1384]	7496	[5747, 3089]
1383	[2260, 2526]	3421	[1908, 534]	5459	[7170, 5085]	7497	[6796, 2809]

1384	[2527, 2528]	3422	[5388, 5332]	5460	[7171, 7172]	7498	[2032, 8034]
1385	[2529, 2530]	3423	[5389, 5390]	5461	[7173, 3763]	7499	[5935, 6763]
1386	[2531, 2532]	3424	[5177, 1856]	5462	[7174, 7175]	7500	[6114, 6528]
1387	[2533, 2534]	3425	[3004, 5391]	5463	[7176, 4101]	7501	[7860, 530]
1388	[2535, 2536]	3426	[5392, 2968]	5464	[7177, 4378]	7502	[834, 2058]
1389	[2537, 2538]	3427	[5393, 2119]	5465	[4251, 111]	7503	[7839, 827]
1390	[2539, 909]	3428	[764, 5394]	5466	[4818, 7178]	7504	[6801, 2264]
1391	[2540, 2541]	3429	[5237, 5395]	5467	[7179, 7180]	7505	[591, 8035]
1392	[563, 895]	3430	[5396, 5397]	5468	[4749, 1514]	7506	[2274, 2520]
1393	[2542, 2543]	3431	[3014, 5398]	5469	[7181, 1516]	7507	[6016, 6667]
1394	[2544, 2545]	3432	[5399, 5400]	5470	[1189, 7027]	7508	[6336, 5863]
1395	[2546, 2547]	3433	[5401, 5402]	5471	[7182, 7183]	7509	[8036, 8037]
1396	[2245, 2548]	3434	[5247, 5403]	5472	[7184, 7185]	7510	[7838, 2687]
1397	[2549, 2460]	3435	[5404, 2700]	5473	[7048, 4728]	7511	[507, 6720]
1398	[2550, 2551]	3436	[2662, 5405]	5474	[7186, 7187]	7512	[5185, 2529]
1399	[2276, 2552]	3437	[5406, 2213]	5475	[7188, 440]	7513	[6070, 7976]
1400	[2553, 2554]	3438	[5407, 5408]	5476	[3930, 7189]	7514	[2834, 2056]
1401	[2555, 2556]	3439	[5409, 5410]	5477	[7190, 4169]	7515	[5195, 128]
1402	[2557, 2558]	3440	[5411, 5193]	5478	[4892, 3695]	7516	[2804, 5393]
1403	[2467, 2559]	3441	[5412, 5413]	5479	[3975, 85]	7517	[5391, 5558]
1404	[2560, 2561]	3442	[5414, 5415]	5480	[7191, 7192]	7518	[3046, 5161]
1405	[2562, 1860]	3443	[5416, 3199]	5481	[4283, 101]	7519	[7837, 7942]
1406	[2563, 2564]	3444	[5417, 205]	5482	[1545, 7193]	7520	[6690, 7954]
1407	[518, 2565]	3445	[5418, 663]	5483	[1547, 7194]	7521	[2643, 6689]
1408	[2566, 632]	3446	[537, 5419]	5484	[7195, 336]	7522	[8031, 665]
1409	[2567, 2568]	3447	[863, 5420]	5485	[7196, 3619]	7523	[2899, 5664]
1410	[848, 2569]	3448	[3161, 5421]	5486	[7197, 3835]	7524	[2068, 8007]
1411	[732, 2052]	3449	[5422, 5423]	5487	[1191, 1114]	7525	[6578, 6645]
1412	[2160, 2570]	3450	[5424, 1838]	5488	[3867, 4879]	7526	[6747, 7993]
1413	[2571, 2572]	3451	[5425, 5426]	5489	[3652, 4796]	7527	[2431, 6585]
1414	[2573, 2574]	3452	[5427, 5428]	5490	[7114, 1122]	7528	[5772, 5876]
1415	[2575, 2576]	3453	[5429, 5430]	5491	[3303, 4539]	7529	[501, 2198]
1416	[2577, 2578]	3454	[5431, 2112]	5492	[7198, 7199]	7530	[3122, 523]
1417	[2579, 768]	3455	[5432, 5433]	5493	[7200, 7201]	7531	[2776, 3153]
1418	[2580, 2581]	3456	[5434, 5435]	5494	[6926, 7202]	7532	[5189, 7925]
1419	[738, 2582]	3457	[2755, 5436]	5495	[4649, 6880]	7533	[8010, 5616]
1420	[2583, 2584]	3458	[2094, 5437]	5496	[7203, 4571]	7534	[894, 7949]
1421	[2585, 2252]	3459	[5438, 5439]	5497	[4391, 7204]	7535	[2920, 6363]
1422	[2586, 786]	3460	[5440, 3111]	5498	[7052, 7177]	7536	[6413, 5630]
1423	[1960, 2587]	3461	[2641, 5441]	5499	[4607, 7205]	7537	[5421, 771]
1424	[2588, 2167]	3462	[5442, 5443]	5500	[7206, 1344]	7538	[5271, 7985]
1425	[2589, 2590]	3463	[5444, 5445]	5501	[1399, 7207]	7539	[7986, 5893]
1426	[2591, 2592]	3464	[5446, 5447]	5502	[4575, 7208]	7540	[1925, 6112]
1427	[2452, 2593]	3465	[5127, 2805]	5503	[7209, 7210]	7541	[2730, 6310]

1428	[2594, 2595]	3466	[5448, 2246]	5504	[7211, 4262]	7542	[7865, 6121]
1429	[2596, 2597]	3467	[5449, 5450]	5505	[3221, 1037]	7543	[2939, 3165]
1430	[2598, 1848]	3468	[5451, 5452]	5506	[7212, 3670]	7544	[6852, 8038]
1431	[2599, 527]	3469	[5453, 2867]	5507	[4244, 7157]	7545	[7995, 5522]
1432	[2600, 548]	3470	[5454, 5455]	5508	[1357, 7109]	7546	[8039, 6633]
1433	[2601, 839]	3471	[5296, 5456]	5509	[7213, 996]	7547	[5230, 6522]
1434	[2602, 2603]	3472	[5457, 5458]	5510	[3632, 1014]	7548	[7975, 7991]
1435	[2604, 2605]	3473	[218, 5459]	5511	[3636, 4332]	7549	[2195, 8040]
1436	[2606, 2607]	3474	[2556, 5460]	5512	[3437, 7214]	7550	[2197, 7918]
1437	[2608, 2609]	3475	[5461, 5462]	5513	[7215, 3603]	7551	[6701, 5914]
1438	[2610, 2611]	3476	[1941, 5463]	5514	[7216, 4029]	7552	[1979, 207]
1439	[2612, 2613]	3477	[5464, 5465]	5515	[7217, 7218]	7553	[881, 6160]
1440	[2614, 2615]	3478	[5466, 5467]	5516	[3968, 1457]	7554	[2472, 652]
1441	[2616, 2617]	3479	[5468, 5469]	5517	[1383, 3635]	7555	[6710, 5809]
1442	[2618, 2619]	3480	[5470, 5471]	5518	[3459, 4840]	7556	[8041, 6773]
1443	[2301, 2620]	3481	[5472, 802]	5519	[3479, 7219]	7557	[1999, 5996]
1444	[2136, 2621]	3482	[5473, 5474]	5520	[1748, 5087]	7558	[5310, 5473]
1445	[2622, 2623]	3483	[5475, 5476]	5521	[7220, 3725]	7559	[7832, 6830]
1446	[2624, 2625]	3484	[5477, 5478]	5522	[7221, 6898]	7560	[8042, 5808]
1447	[2626, 2627]	3485	[2810, 5479]	5523	[7222, 4129]	7561	[5979, 2487]
1448	[2628, 584]	3486	[5338, 5215]	5524	[7223, 994]	7562	[5945, 7930]
1449	[196, 2629]	3487	[5340, 5117]	5525	[1274, 7224]	7563	[5950, 6760]
1450	[2336, 2630]	3488	[5480, 5481]	5526	[277, 1776]	7564	[6646, 2323]
1451	[2631, 2632]	3489	[5482, 5483]	5527	[7225, 4600]	7565	[5423, 6361]
1452	[2633, 2634]	3490	[5160, 5484]	5528	[7226, 7083]	7566	[6651, 6280]
1453	[2635, 2636]	3491	[5485, 3079]	5529	[3620, 4980]	7567	[6628, 8022]
1454	[785, 796]	3492	[5486, 5487]	5530	[7227, 7228]	7568	[6484, 7959]
1455	[2637, 847]	3493	[2211, 2515]	5531	[3251, 7229]	7569	[7913, 2029]
1456	[2638, 2639]	3494	[787, 3123]	5532	[7230, 3703]	7570	[6254, 693]
1457	[2640, 2641]	3495	[854, 5488]	5533	[3400, 7231]	7571	[2296, 2396]
1458	[2642, 2643]	3496	[5122, 5489]	5534	[4968, 1200]	7572	[740, 6574]
1459	[2644, 661]	3497	[5144, 2588]	5535	[1205, 3665]	7573	[5745, 6512]
1460	[2645, 2646]	3498	[5386, 5490]	5536	[7232, 7233]	7574	[585, 7999]
1461	[2647, 2016]	3499	[2309, 5491]	5537	[7234, 971]	7575	[5731, 8042]
1462	[2648, 2649]	3500	[3214, 2232]	5538	[3609, 7235]	7576	[8027, 5252]
1463	[2650, 2651]	3501	[5492, 5493]	5539	[7236, 7237]	7577	[2900, 5448]
1464	[2652, 2653]	3502	[5494, 5495]	5540	[7238, 4845]	7578	[8043, 6746]
1465	[2654, 2428]	3503	[5496, 5497]	5541	[92, 7239]	7579	[8044, 5344]
1466	[2655, 504]	3504	[5498, 5499]	5542	[7106, 4362]	7580	[5888, 923]
1467	[2656, 2657]	3505	[5500, 5501]	5543	[6, 5045]	7581	[8045, 911]
1468	[2658, 2659]	3506	[516, 1898]	5544	[4491, 4064]	7582	[2457, 8045]
1469	[2439, 2660]	3507	[1952, 5502]	5545	[7240, 7241]	7583	[623, 6672]
1470	[2661, 2662]	3508	[5503, 3198]	5546	[1407, 7036]	7584	[2768, 1826]
1471	[2663, 1828]	3509	[5188, 5504]	5547	[7242, 3567]	7585	[2569, 2684]

1472	[2664, 2665]	3510	[1950, 5138]	5548	[7243, 3979]	7586	[5904, 8046]
1473	[2666, 2667]	3511	[3067, 5505]	5549	[5097, 3731]	7587	[857, 5886]
1474	[2668, 2669]	3512	[5506, 5507]	5550	[7244, 7245]	7588	[5524, 7836]
1475	[2670, 2671]	3513	[5508, 5509]	5551	[3817, 7246]	7589	[6359, 6505]
1476	[2672, 2673]	3514	[5218, 2865]	5552	[7247, 5004]	7590	[6559, 5164]
1477	[2674, 2675]	3515	[2081, 5510]	5553	[3337, 7248]	7591	[2745, 7956]
1478	[2676, 2677]	3516	[2083, 5511]	5554	[3257, 7249]	7592	[6492, 5166]
1479	[2678, 2679]	3517	[5502, 5512]	5555	[4249, 4962]	7593	[8040, 7855]
1480	[2680, 2681]	3518	[2437, 5513]	5556	[7205, 378]	7594	[6491, 5901]
1481	[2682, 609]	3519	[5514, 5515]	5557	[4228, 7102]	7595	[5887, 6277]
1482	[32, 2275]	3520	[5516, 760]	5558	[6953, 7216]	7596	[1964, 1980]
1483	[34, 2683]	3521	[5517, 5518]	5559	[7250, 4805]	7597	[2862, 1943]
1484	[2684, 2685]	3522	[2714, 2464]	5560	[7251, 7020]	7598	[2092, 6705]
1485	[2686, 1977]	3523	[5519, 5520]	5561	[4260, 7252]	7599	[2617, 7893]
1486	[2687, 2688]	3524	[692, 2752]	5562	[7253, 7254]	7600	[7827, 8018]
1487	[2689, 2690]	3525	[3191, 5521]	5563	[3718, 4349]	7601	[8020, 8044]
1488	[2691, 2302]	3526	[5522, 5148]	5564	[7012, 7255]	7602	[619, 6204]
1489	[2692, 2693]	3527	[5523, 5524]	5565	[3472, 7256]	7603	[5880, 6584]
1490	[2429, 2694]	3528	[5525, 5526]	5566	[7257, 1469]	7604	[5800, 6742]
1491	[36, 2695]	3529	[5278, 5527]	5567	[70, 7003]	7605	[2013, 6076]
1492	[653, 165]	3530	[2216, 3215]	5568	[7040, 7139]	7606	[8037, 7984]
1493	[908, 171]	3531	[5471, 5330]	5569	[7258, 7259]	7607	[6436, 5531]
1494	[2696, 2697]	3532	[5528, 536]	5570	[3340, 342]	7608	[7821, 6187]
1495	[2698, 2699]	3533	[5529, 5530]	5571	[1533, 7234]	7609	[2982, 6060]
1496	[2700, 2701]	3534	[5531, 5532]	5572	[1534, 7260]	7610	[6694, 6099]
1497	[520, 2702]	3535	[5178, 5533]	5573	[3876, 3334]	7611	[6788, 3003]
1498	[2703, 2704]	3536	[5534, 147]	5574	[4776, 7168]	7612	[3008, 2567]
1499	[2705, 2706]	3537	[815, 5535]	5575	[7261, 103]	7613	[5213, 6186]
1500	[2707, 2422]	3538	[5536, 5537]	5576	[7262, 7121]	7614	[8006, 833]
1501	[2708, 2709]	3539	[5538, 5539]	5577	[1790, 1467]	7615	[535, 6199]
1502	[2710, 2711]	3540	[722, 5540]	5578	[4305, 3531]	7616	[5481, 831]
1503	[2712, 2713]	3541	[2454, 5541]	5579	[1193, 79]	7617	[6835, 6177]
1504	[2500, 2714]	3542	[5377, 5542]	5580	[7241, 7263]	7618	[5841, 6800]
1505	[2715, 2716]	3543	[5379, 5364]	5581	[7264, 6908]	7619	[5214, 5434]
1506	[2717, 2718]	3544	[5543, 5544]	5582	[7265, 7266]	7620	[7953, 1996]
1507	[2719, 2720]	3545	[5545, 5322]	5583	[7267, 7268]	7621	[5655, 6172]
1508	[587, 2692]	3546	[5546, 5295]	5584	[1289, 3697]	7622	[6058, 2423]
1509	[2721, 2722]	3547	[5547, 2036]	5585	[7269, 7270]	7623	[2841, 7826]
1510	[2723, 2724]	3548	[5548, 2877]	5586	[3720, 3353]	7624	[6311, 594]
1511	[2725, 2726]	3549	[5549, 2143]	5587	[260, 7113]	7625	[5815, 7905]
1512	[2727, 2728]	3550	[5550, 5551]	5588	[3278, 1749]	7626	[2385, 6499]
1513	[2729, 2730]	3551	[5552, 5553]	5589	[7256, 7271]	7627	[5395, 7997]
1514	[2731, 2732]	3552	[928, 2539]	5590	[7272, 7273]	7628	[6272, 159]
1515	[2733, 2734]	3553	[2471, 1923]	5591	[7274, 3965]	7629	[7973, 580]

1516	[2541, 2735]	3554	[751, 5401]	5592	[4739, 3398]	7630	[671, 5584]
1517	[2736, 2737]	3555	[2845, 5246]	5593	[4733, 3916]	7631	[5674, 6056]
1518	[2738, 2739]	3556	[2607, 717]	5594	[4402, 3985]	7632	[5786, 7966]
1519	[2740, 2741]	3557	[5554, 2535]	5595	[7275, 3687]	7633	[8005, 7851]
1520	[2742, 2743]	3558	[5555, 5556]	5596	[3741, 4160]	7634	[6616, 5323]
1521	[2744, 2745]	3559	[5557, 3141]	5597	[7129, 7276]	7635	[8013, 7931]
1522	[2746, 2747]	3560	[5558, 5559]	5598	[3799, 4272]	7636	[8047, 6214]
1523	[2748, 2749]	3561	[5560, 5561]	5599	[7277, 7278]	7637	[6685, 5363]
1524	[2750, 2751]	3562	[5562, 5563]	5600	[1553, 7279]	7638	[944, 7961]
1525	[2752, 2753]	3563	[5564, 5565]	5601	[7192, 1691]	7639	[3211, 7822]
1526	[2754, 2755]	3564	[2333, 5566]	5602	[1783, 7280]	7640	[2528, 2372]
1527	[2111, 2756]	3565	[5567, 1975]	5603	[4715, 4042]	7641	[2247, 7990]
1528	[2757, 2758]	3566	[2851, 5568]	5604	[4910, 7146]	7642	[6324, 6219]
1529	[2759, 2271]	3567	[5569, 5570]	5605	[1021, 7281]	7643	[6388, 209]
1530	[2760, 2761]	3568	[5571, 5572]	5606	[4662, 4707]	7644	[3080, 8048]
1531	[2762, 2763]	3569	[2240, 5573]	5607	[4117, 1024]	7645	[6579, 8043]
1532	[2764, 2765]	3570	[5574, 5575]	5608	[4126, 3887]	7646	[7904, 3005]
1533	[2548, 2766]	3571	[5576, 810]	5609	[4158, 7282]	7647	[7897, 5746]
1534	[2767, 1886]	3572	[5488, 2938]	5610	[7283, 5098]	7648	[6448, 7924]
1535	[702, 2319]	3573	[5573, 2288]	5611	[4878, 7284]	7649	[5840, 6727]
1536	[2718, 2768]	3574	[5577, 5578]	5612	[1159, 3502]	7650	[2506, 6223]
1537	[2769, 2770]	3575	[5397, 5579]	5613	[6897, 7285]	7651	[5435, 5739]
1538	[2771, 2772]	3576	[1962, 5580]	5614	[7183, 399]	7652	[2974, 6418]
1539	[2773, 2774]	3577	[5581, 5582]	5615	[4324, 4844]	7653	[2255, 8049]
1540	[2775, 2776]	3578	[2625, 5583]	5616	[74, 5099]	7654	[2525, 5954]
1541	[2144, 645]	3579	[5584, 5308]	5617	[7286, 7287]	7655	[2593, 2267]
1542	[2028, 2777]	3580	[5585, 915]	5618	[7288, 7289]	7656	[7868, 3145]
1543	[2532, 2778]	3581	[5586, 1907]	5619	[357, 3929]	7657	[2249, 8016]
1544	[2779, 2780]	3582	[5587, 5588]	5620	[4094, 4911]	7658	[6217, 5858]
1545	[2781, 2782]	3583	[5589, 5590]	5621	[4908, 4393]	7659	[2049, 945]
1546	[2783, 2784]	3584	[5591, 5592]	5622	[7290, 7291]	7660	[5287, 2844]
1547	[2785, 2786]	3585	[5593, 2265]	5623	[4898, 7292]	7661	[8026, 8028]
1548	[2787, 2788]	3586	[5594, 5595]	5624	[7293, 4174]	7662	[6623, 6606]
1549	[2789, 2790]	3587	[5596, 5597]	5625	[7214, 7294]	7663	[8050, 6027]
1550	[2203, 2402]	3588	[5598, 2518]	5626	[3335, 5095]	7664	[2353, 8036]
1551	[2791, 2792]	3589	[5599, 2480]	5627	[4413, 1061]	7665	[8019, 7815]
1552	[2793, 2794]	3590	[5600, 2666]	5628	[7295, 7296]	7666	[2461, 7849]
1553	[2795, 2796]	3591	[5601, 5602]	5629	[7297, 1172]	7667	[8051, 2190]
1554	[2797, 2798]	3592	[5603, 5604]	5630	[7298, 87]	7668	[6809, 2453]
1555	[2799, 2800]	3593	[5605, 5606]	5631	[4433, 7299]	7669	[8035, 2409]
1556	[2801, 2802]	3594	[5607, 2599]	5632	[3701, 4950]	7670	[6233, 5529]
1557	[2803, 2804]	3595	[5608, 5609]	5633	[7300, 4091]	7671	[2812, 5142]
1558	[2805, 2806]	3596	[2630, 5610]	5634	[4737, 4868]	7672	[2530, 6375]
1559	[2807, 2808]	3597	[5611, 5612]	5635	[4585, 7301]	7673	[2140, 7864]

1560	[2809, 1862]	3598	[243, 5613]	5636	[7302, 7293]	7674	[7835, 8052]
1561	[2475, 2499]	3599	[5614, 5615]	5637	[7273, 4011]	7675	[2632, 6259]
1562	[859, 2810]	3600	[5616, 5617]	5638	[472, 7303]	7676	[6803, 5908]
1563	[2811, 2812]	3601	[5618, 5619]	5639	[7304, 308]	7677	[6598, 2186]
1564	[2813, 2814]	3602	[5620, 5621]	5640	[5029, 7166]	7678	[8023, 668]
1565	[2815, 2816]	3603	[3156, 5622]	5641	[7305, 1450]	7679	[6613, 6474]
1566	[2615, 2817]	3604	[5623, 5624]	5642	[484, 7306]	7680	[5790, 3216]
1567	[2818, 2637]	3605	[5625, 5360]	5643	[7307, 7165]	7681	[222, 7845]
1568	[2819, 2820]	3606	[1892, 5626]	5644	[367, 1499]	7682	[8049, 5676]
1569	[1899, 2821]	3607	[5627, 1926]	5645	[7038, 4096]	7683	[6475, 8003]
1570	[2514, 2822]	3608	[5628, 5629]	5646	[7308, 7309]	7684	[6755, 1946]
1571	[2823, 2824]	3609	[5630, 5631]	5647	[3516, 7288]	7685	[1857, 8053]
1572	[2825, 2826]	3610	[5632, 2771]	5648	[4072, 7310]	7686	[6842, 5755]
1573	[2827, 2828]	3611	[5633, 2390]	5649	[7311, 7312]	7687	[6514, 5396]
1574	[2829, 167]	3612	[2193, 3109]	5650	[4154, 7313]	7688	[2621, 1957]
1575	[2410, 2830]	3613	[5634, 5635]	5651	[7314, 4644]	7689	[5197, 6366]
1576	[2831, 163]	3614	[5636, 5637]	5652	[1527, 1408]	7690	[8002, 2425]
1577	[577, 2832]	3615	[5638, 5639]	5653	[7315, 7316]	7691	[8030, 689]
1578	[2833, 2834]	3616	[3026, 2501]	5654	[6871, 7317]	7692	[8053, 8050]
1579	[2835, 2836]	3617	[40, 5640]	5655	[4972, 4077]	7693	[7955, 2434]
1580	[2837, 2838]	3618	[5641, 3038]	5656	[104, 1480]	7694	[7903, 6149]
1581	[2839, 2458]	3619	[5501, 5642]	5657	[7318, 4051]	7695	[8046, 6502]
1582	[2840, 2841]	3620	[3068, 5643]	5658	[1347, 4771]	7696	[7992, 5290]
1583	[2842, 2843]	3621	[5644, 5645]	5659	[3830, 7319]	7697	[6662, 7866]
1584	[2844, 2845]	3622	[5646, 5647]	5660	[3547, 3357]	7698	[6332, 540]
1585	[2846, 2847]	3623	[5116, 5648]	5661	[7320, 7081]	7699	[5180, 5634]
1586	[2848, 2849]	3624	[3092, 5649]	5662	[4065, 4682]	7700	[660, 5777]
1587	[2850, 2851]	3625	[5650, 5651]	5663	[4731, 1705]	7701	[6816, 7937]
1588	[2852, 2647]	3626	[5652, 939]	5664	[6881, 1194]	7702	[5938, 2179]
1589	[2558, 705]	3627	[5653, 5654]	5665	[3435, 1716]	7703	[8052, 6837]
1590	[2853, 227]	3628	[3090, 5655]	5666	[7321, 4439]	7704	[5706, 8054]
1591	[180, 2397]	3629	[5656, 5657]	5667	[5000, 4777]	7705	[6490, 6109]
1592	[2854, 2855]	3630	[5658, 5659]	5668	[7322, 7323]	7706	[5995, 2882]
1593	[879, 2856]	3631	[5660, 1904]	5669	[6931, 428]	7707	[7940, 5416]
1594	[2857, 2858]	3632	[5661, 5662]	5670	[3668, 4460]	7708	[6799, 2244]
1595	[2859, 2860]	3633	[2118, 5663]	5671	[7324, 3527]	7709	[8024, 6054]
1596	[2861, 2862]	3634	[5664, 2392]	5672	[4377, 7325]	7710	[6819, 5560]
1597	[2863, 2864]	3635	[5436, 5665]	5673	[1698, 7320]	7711	[6536, 5548]
1598	[2865, 2866]	3636	[2526, 2703]	5674	[6904, 7326]	7712	[2015, 5409]
1599	[2867, 2868]	3637	[1937, 5486]	5675	[415, 7327]	7713	[3006, 6518]
1600	[565, 2869]	3638	[2973, 3164]	5676	[7328, 4894]	7714	[6786, 6364]
1601	[2870, 781]	3639	[5666, 5667]	5677	[7329, 6948]	7715	[8055, 8056]
1602	[2871, 2872]	3640	[5668, 3202]	5678	[7330, 4022]	7716	[239, 6507]
1603	[2873, 2874]	3641	[5565, 5669]	5679	[7331, 6896]	7717	[6316, 6213]

1604	[2875, 2876]	3642	[2102, 5670]	5680	[7255, 7332]	7718	[5681, 5418]
1605	[2877, 2878]	3643	[867, 2243]	5681	[3982, 7333]	7719	[3000, 2717]
1606	[2879, 2880]	3644	[5671, 5672]	5682	[7312, 7334]	7720	[2869, 3178]
1607	[2881, 2658]	3645	[5673, 5674]	5683	[1599, 7335]	7721	[6133, 2269]
1608	[2882, 2883]	3646	[2420, 5675]	5684	[317, 7072]	7722	[7916, 6022]
1609	[1829, 2884]	3647	[2808, 5320]	5685	[5042, 7029]	7723	[6163, 800]
1610	[2885, 2886]	3648	[5676, 5677]	5686	[7336, 7337]	7724	[1822, 5299]
1611	[2887, 2888]	3649	[5678, 5601]	5687	[7338, 4914]	7725	[6729, 2960]
1612	[2889, 2890]	3650	[2282, 2061]	5688	[1810, 3464]	7726	[8048, 8014]
1613	[2891, 2892]	3651	[5679, 3065]	5689	[7339, 3845]	7727	[6691, 2994]
1614	[2893, 2894]	3652	[3124, 5440]	5690	[7340, 1414]	7728	[2451, 5480]
1615	[607, 2895]	3653	[5184, 5680]	5691	[3280, 7321]	7729	[8054, 937]
1616	[2896, 2897]	3654	[2311, 5681]	5692	[7341, 7342]	7730	[2496, 6424]
1617	[2898, 2899]	3655	[5682, 746]	5693	[7343, 7344]	7731	[7856, 8032]
1618	[666, 2900]	3656	[162, 5683]	5694	[4540, 3375]	7732	[6454, 5145]
1619	[2901, 2902]	3657	[5684, 5337]	5695	[66, 3992]	7733	[8015, 6702]
1620	[2903, 2904]	3658	[5685, 5686]	5696	[6959, 7345]	7734	[1995, 153]
1621	[2905, 2906]	3659	[2403, 5687]	5697	[4025, 1440]	7735	[2406, 5879]
1622	[2907, 2908]	3660	[5621, 5688]	5698	[3753, 3302]	7736	[6774, 2328]
1623	[2909, 2910]	3661	[10, 5689]	5699	[1614, 7346]	7737	[3056, 2818]
1624	[2911, 2912]	3662	[2100, 5690]	5700	[4810, 7347]	7738	[8057, 5656]
1625	[2913, 2914]	3663	[3217, 5691]	5701	[1294, 7348]	7739	[6155, 8047]
1626	[2915, 2916]	3664	[5692, 5693]	5702	[7349, 7350]	7740	[8034, 6661]
1627	[2917, 2918]	3665	[2572, 5286]	5703	[7351, 7352]	7741	[8029, 6007]
1628	[2919, 2920]	3666	[811, 2571]	5704	[4035, 7353]	7742	[228, 3016]
1629	[2921, 2922]	3667	[5694, 5695]	5705	[7354, 3870]	7743	[6188, 7912]
1630	[2923, 2924]	3668	[5696, 5277]	5706	[7355, 7356]	7744	[2855, 6427]
1631	[2925, 2926]	3669	[5697, 2432]	5707	[7074, 3397]	7745	[2694, 6735]
1632	[2927, 2928]	3670	[5507, 3100]	5708	[7357, 6882]	7746	[2941, 6373]
1633	[2929, 2930]	3671	[5698, 5699]	5709	[1074, 4080]	7747	[3197, 7972]
1634	[2931, 2932]	3672	[797, 5700]	5710	[7358, 7142]	7748	[8011, 6654]
1635	[2933, 2934]	3673	[5701, 3207]	5711	[7359, 7360]	7749	[6265, 7914]
1636	[2935, 2936]	3674	[2070, 5702]	5712	[3906, 1714]	7750	[5604, 8041]
1637	[2019, 2937]	3675	[5703, 5704]	5713	[7149, 4374]	7751	[612, 6042]
1638	[2938, 2939]	3676	[5705, 1883]	5714	[7361, 6885]	7752	[6772, 5431]
1639	[2940, 2941]	3677	[5683, 5706]	5715	[3823, 7362]	7753	[6074, 2354]
1640	[2942, 2312]	3678	[2494, 5707]	5716	[7348, 1290]	7754	[6684, 6097]
1641	[2373, 2943]	3679	[5708, 5709]	5717	[4453, 1293]	7755	[6752, 758]
1642	[2235, 2473]	3680	[5710, 5711]	5718	[3625, 7363]	7756	[2104, 6129]
1643	[2944, 2945]	3681	[2259, 5712]	5719	[3223, 7364]	7757	[6347, 8055]
1644	[2946, 862]	3682	[5713, 5714]	5720	[4848, 7226]	7758	[6607, 6432]
1645	[2947, 2948]	3683	[728, 5715]	5721	[978, 4380]	7759	[6360, 7951]
1646	[2743, 2949]	3684	[5716, 670]	5722	[7365, 7366]	7760	[6708, 7998]
1647	[2950, 2951]	3685	[5717, 672]	5723	[4513, 354]	7761	[5930, 5345]

1648	[2802, 2952]	3686	[2826, 5414]	5724	[7367, 1539]	7762	[6068, 2710]
1649	[2953, 2954]	3687	[5718, 5719]	5725	[6928, 7368]	7763	[7994, 2601]
1650	[2955, 2956]	3688	[5720, 5721]	5726	[3339, 6974]	7764	[7817, 7919]
1651	[2957, 2958]	3689	[5722, 5723]	5727	[3526, 7369]	7765	[6369, 7902]
1652	[2959, 763]	3690	[5691, 177]	5728	[7370, 7371]	7766	[5294, 7834]
1653	[2960, 2343]	3691	[840, 5682]	5729	[7372, 7373]	7767	[629, 6157]
1654	[2961, 37]	3692	[5724, 5309]	5730	[1405, 3493]	7768	[898, 5152]
1655	[2962, 2963]	3693	[5725, 5726]	5731	[1763, 4724]	7769	[6695, 6780]
1656	[2964, 2965]	3694	[5727, 5728]	5732	[7152, 7374]	7770	[6468, 2742]
1657	[2490, 2966]	3695	[2351, 59]	5733	[4923, 7088]	7771	[893, 5720]
1658	[2967, 2063]	3696	[5729, 5730]	5734	[6997, 1460]	7772	[1983, 5404]
1659	[2968, 2969]	3697	[936, 5731]	5735	[4430, 1320]	7773	[826, 6709]
1660	[2970, 2971]	3698	[5732, 1889]	5736	[7306, 7375]	7774	[6401, 6171]
1661	[2972, 2973]	3699	[5733, 5734]	5737	[411, 6893]	7775	[5882, 6008]
1662	[583, 2974]	3700	[5735, 5128]	5738	[7233, 3581]	7776	[7989, 7858]
1663	[2704, 2975]	3701	[5736, 5737]	5739	[7376, 7377]	7777	[2090, 7869]
1664	[2976, 242]	3702	[5537, 5738]	5740	[7154, 5036]	7778	[6382, 6065]
1665	[2977, 2978]	3703	[5739, 5740]	5741	[1721, 985]	7779	[7965, 6817]
1666	[2979, 2980]	3704	[5741, 5293]	5742	[1377, 3511]	7780	[6569, 8051]
1667	[2734, 2875]	3705	[5742, 5743]	5743	[4927, 7378]	7781	[5474, 2885]
1668	[2981, 2982]	3706	[5580, 5744]	5744	[4341, 7379]	7782	[5993, 7884]
1669	[2224, 2983]	3707	[5721, 5745]	5745	[4128, 7380]	7783	[6552, 6554]
1670	[2984, 2985]	3708	[5326, 2795]	5746	[4383, 4473]	7784	[5169, 5102]
1671	[2986, 2987]	3709	[5746, 5747]	5747	[7270, 4973]	7785	[2582, 2105]
1672	[767, 2988]	3710	[926, 5748]	5748	[7282, 7381]	7786	[6826, 6795]
1673	[2158, 2989]	3711	[5478, 709]	5749	[4490, 4233]	7787	[2884, 2086]
1674	[2990, 2991]	3712	[2685, 5749]	5750	[1712, 3672]	7788	[8056, 2881]
1675	[2992, 2823]	3713	[2778, 5750]	5751	[7382, 7269]	7789	[531, 5562]
1676	[2993, 11]	3714	[2053, 2879]	5752	[7383, 7384]	7790	[3093, 5770]
1677	[2994, 2995]	3715	[5751, 5752]	5753	[7162, 7385]	7791	[5483, 8039]
1678	[2996, 2997]	3716	[5753, 5754]	5754	[7386, 7387]	7792	[156, 684]
1679	[2998, 2999]	3717	[5755, 5756]	5755	[7204, 4742]	7793	[6228, 7813]
1680	[681, 3000]	3718	[5757, 2474]	5756	[1147, 6894]	7794	[5782, 707]
1681	[3001, 3002]	3719	[5758, 5759]	5757	[1068, 3520]	7795	[5359, 7898]
1682	[3003, 3004]	3720	[5760, 5761]	5758	[6933, 4933]	7796	[2142, 7867]
1683	[3005, 3006]	3721	[5762, 2060]	5759	[1661, 7388]	7797	[8038, 6681]
1684	[3007, 3008]	3722	[5737, 233]	5760	[4903, 4798]	7798	[7934, 3102]
1685	[3009, 3010]	3723	[5726, 5763]	5761	[7301, 366]	7799	[7963, 5620]
1686	[3011, 3012]	3724	[5728, 5764]	5762	[7229, 384]	7800	[8017, 7915]
1687	[3013, 3014]	3725	[5765, 5766]	5763	[7368, 7123]	7801	[5592, 8021]
1688	[2693, 3015]	3726	[5767, 5581]	5764	[7369, 3248]	7802	[8033, 5422]
1689	[3016, 3017]	3727	[5768, 2923]	5765	[6920, 7389]	7803	[7881, 2110]
1690	[3018, 3019]	3728	[5769, 2811]	5766	[3572, 3901]	7804	[2989, 529]
1691	[140, 3020]	3729	[2817, 2159]	5767	[1605, 350]	7805	[5877, 2783]

1692	[3021, 3022]	3730	[5402, 149]	5768	[1337, 4782]	7806	[7960, 6785]
1693	[2229, 2712]	3731	[5770, 5771]	5769	[7317, 7390]	7807	[7943, 5633]
1694	[3023, 3024]	3732	[2888, 5772]	5770	[7231, 7391]	7808	[8058, 1806]
1695	[3025, 3026]	3733	[5773, 5327]	5771	[7392, 4935]	7809	[1017, 4948]
1696	[3027, 3028]	3734	[5774, 2550]	5772	[3692, 7191]	7810	[1428, 7655]
1697	[3029, 3030]	3735	[3082, 5775]	5773	[4102, 1474]	7811	[4436, 8059]
1698	[3031, 2560]	3736	[2341, 5776]	5774	[7185, 7393]	7812	[7703, 494]
1699	[3032, 3033]	3737	[5777, 630]	5775	[3406, 7394]	7813	[4536, 4083]
1700	[3034, 3035]	3738	[5778, 596]	5776	[3815, 7395]	7814	[7000, 3579]
1701	[3036, 3037]	3739	[5779, 5780]	5777	[108, 1420]	7815	[7748, 5]
1702	[2290, 882]	3740	[2315, 5297]	5778	[7201, 1154]	7816	[8060, 7551]
1703	[3038, 2947]	3741	[5781, 5782]	5779	[7396, 6889]	7817	[1617, 4401]
1704	[571, 3039]	3742	[5783, 5784]	5780	[7397, 7398]	7818	[7605, 7367]
1705	[3040, 3041]	3743	[5785, 5786]	5781	[4041, 3504]	7819	[8061, 3469]
1706	[3042, 3043]	3744	[5639, 5787]	5782	[7399, 1362]	7820	[1365, 7349]
1707	[2185, 3044]	3745	[5788, 2762]	5783	[4801, 7400]	7821	[3424, 8062]
1708	[3045, 3046]	3746	[5789, 5790]	5784	[353, 5064]	7822	[976, 8061]
1709	[3047, 3048]	3747	[5791, 5792]	5785	[7401, 7402]	7823	[5093, 4819]
1710	[3049, 3050]	3748	[5793, 1902]	5786	[4559, 7403]	7824	[7120, 7535]
1711	[3051, 3052]	3749	[3150, 5368]	5787	[7303, 4147]	7825	[3957, 7462]
1712	[3053, 3054]	3750	[5143, 1846]	5788	[7404, 4937]	7826	[4672, 7567]
1713	[3055, 3056]	3751	[5794, 5118]	5789	[1574, 7405]	7827	[4938, 7150]
1714	[3057, 3058]	3752	[2954, 5795]	5790	[7406, 3686]	7828	[7509, 8063]
1715	[3059, 3060]	3753	[690, 5796]	5791	[3522, 4132]	7829	[7385, 1512]
1716	[3061, 3062]	3754	[5479, 5797]	5792	[3524, 4500]	7830	[3295, 4235]
1717	[3063, 3064]	3755	[5798, 2750]	5793	[6940, 3361]	7831	[1123, 8064]
1718	[3065, 2200]	3756	[5799, 5800]	5794	[1080, 7200]	7832	[7050, 7656]
1719	[3066, 3067]	3757	[5801, 5500]	5795	[7014, 7407]	7833	[5063, 7674]
1720	[1939, 3068]	3758	[2180, 2239]	5796	[6989, 7408]	7834	[7033, 1801]
1721	[3069, 2767]	3759	[5802, 5803]	5797	[4982, 370]	7835	[4906, 7783]
1722	[2688, 3070]	3760	[5361, 2067]	5798	[7271, 3881]	7836	[6994, 7534]
1723	[3071, 3072]	3761	[2697, 5804]	5799	[5034, 4736]	7837	[7612, 7305]
1724	[3073, 3074]	3762	[5805, 2640]	5800	[7360, 7409]	7838	[8065, 7778]
1725	[3075, 3076]	3763	[5806, 5807]	5801	[4537, 4342]	7839	[4802, 1573]
1726	[3077, 3078]	3764	[5808, 2177]	5802	[3980, 7184]	7840	[8066, 4902]
1727	[3079, 3080]	3765	[5809, 5810]	5803	[4617, 7410]	7841	[7597, 4909]
1728	[3081, 3082]	3766	[5811, 2227]	5804	[7411, 1429]	7842	[4499, 4387]
1729	[3083, 3084]	3767	[5812, 5813]	5805	[3678, 4338]	7843	[7364, 4388]
1730	[3085, 3086]	3768	[5814, 5815]	5806	[4201, 4382]	7844	[1171, 7182]
1731	[3087, 3088]	3769	[5816, 3051]	5807	[4934, 4554]	7845	[1385, 1803]
1732	[3089, 3090]	3770	[2416, 5817]	5808	[7412, 4576]	7846	[1281, 4017]
1733	[3091, 659]	3771	[5818, 570]	5809	[7413, 7343]	7847	[7579, 7653]
1734	[2695, 3092]	3772	[5819, 5820]	5810	[4333, 7414]	7848	[3247, 4289]
1735	[2822, 3093]	3773	[3041, 5285]	5811	[7415, 6951]	7849	[4148, 7096]

1736	[2400, 2748]	3774	[2576, 5821]	5812	[3645, 7416]	7850	[122, 7669]
1737	[3094, 3095]	3775	[5822, 5823]	5813	[1263, 7417]	7851	[3884, 4896]
1738	[3096, 3097]	3776	[5484, 762]	5814	[7124, 7418]	7852	[7807, 1770]
1739	[3098, 3099]	3777	[5398, 1830]	5815	[305, 6860]	7853	[8067, 4550]
1740	[3100, 3101]	3778	[5824, 5825]	5816	[4565, 3250]	7854	[7218, 1508]
1741	[3102, 3103]	3779	[5334, 5826]	5817	[1250, 3653]	7855	[1304, 8068]
1742	[3104, 3105]	3780	[5827, 5828]	5818	[4658, 4467]	7856	[3298, 3667]
1743	[3106, 775]	3781	[5829, 5830]	5819	[4951, 7419]	7857	[5088, 1598]
1744	[3107, 2542]	3782	[5669, 5831]	5820	[3360, 4395]	7858	[7327, 7242]
1745	[2120, 3108]	3783	[5832, 2600]	5821	[1681, 7420]	7859	[7467, 7675]
1746	[3109, 3110]	3784	[5221, 5833]	5822	[7421, 7422]	7860	[7715, 8065]
1747	[3111, 3112]	3785	[5834, 5264]	5823	[4343, 7423]	7861	[4032, 8069]
1748	[3113, 3114]	3786	[5835, 5836]	5824	[1005, 7222]	7862	[3362, 3382]
1749	[3115, 3116]	3787	[2902, 5468]	5825	[3237, 7424]	7863	[7685, 7500]
1750	[3117, 2648]	3788	[2435, 5671]	5826	[7425, 4541]	7864	[3722, 1104]
1751	[3118, 3119]	3789	[5837, 5838]	5827	[7426, 7220]	7865	[7736, 1000]
1752	[875, 3120]	3790	[5839, 5840]	5828	[4318, 7427]	7866	[8070, 7733]
1753	[3121, 678]	3791	[817, 5600]	5829	[4756, 386]	7867	[3726, 4370]
1754	[567, 3122]	3792	[5443, 5841]	5830	[3438, 7026]	7868	[4589, 3949]
1755	[3123, 3124]	3793	[5842, 5843]	5831	[4028, 7428]	7869	[8071, 975]
1756	[3125, 3104]	3794	[5447, 3160]	5832	[3639, 4635]	7870	[1064, 4773]
1757	[3126, 3106]	3795	[5844, 3162]	5833	[7429, 4695]	7871	[7625, 8072]
1758	[3127, 691]	3796	[5845, 5846]	5834	[6887, 7007]	7872	[3704, 1273]
1759	[2597, 3128]	3797	[5847, 175]	5835	[7430, 7431]	7873	[4246, 4931]
1760	[3129, 3130]	3798	[2872, 5848]	5836	[3820, 7117]	7874	[4461, 1695]
1761	[2477, 3131]	3799	[5849, 2493]	5837	[1559, 7432]	7875	[3415, 3585]
1762	[3128, 3132]	3800	[918, 5850]	5838	[7433, 7434]	7876	[8073, 1268]
1763	[3133, 3134]	3801	[5851, 5852]	5839	[6935, 7435]	7877	[3404, 7640]
1764	[3135, 187]	3802	[5544, 5853]	5840	[3577, 1530]	7878	[6865, 8067]
1765	[3136, 3137]	3803	[5854, 5855]	5841	[3961, 1018]	7879	[7342, 7232]
1766	[2427, 2165]	3804	[5856, 2054]	5842	[3623, 7436]	7880	[8074, 7646]
1767	[3138, 899]	3805	[2534, 5857]	5843	[3364, 7437]	7881	[4161, 7773]
1768	[3139, 903]	3806	[5858, 5859]	5844	[7438, 5052]	7882	[4954, 3606]
1769	[589, 3140]	3807	[2280, 5705]	5845	[7439, 7440]	7883	[7749, 117]
1770	[3141, 2042]	3808	[5860, 5336]	5846	[7441, 1301]	7884	[7508, 4392]
1771	[3142, 3143]	3809	[5861, 5862]	5847	[3908, 7265]	7885	[4895, 7125]
1772	[1878, 3144]	3810	[5863, 5432]	5848	[6901, 4691]	7886	[7549, 4714]
1773	[3145, 3146]	3811	[5864, 5865]	5849	[7325, 4237]	7887	[7547, 3559]
1774	[3120, 3147]	3812	[774, 5866]	5850	[1054, 3937]	7888	[7787, 7771]
1775	[2570, 3148]	3813	[2011, 5727]	5851	[7363, 1734]	7889	[7055, 7238]
1776	[3149, 3150]	3814	[5867, 5868]	5852	[7442, 7315]	7890	[7101, 4326]
1777	[3151, 3152]	3815	[2945, 5442]	5853	[7065, 3529]	7891	[7744, 7170]
1778	[3153, 3154]	3816	[5869, 624]	5854	[7443, 5073]	7892	[7794, 8075]
1779	[3155, 3156]	3817	[5870, 5543]	5855	[7444, 5075]	7893	[4398, 4684]

1780	[3157, 2591]	3818	[5871, 5262]	5856	[7445, 4229]	7894	[4400, 6939]
1781	[3158, 3159]	3819	[5872, 5545]	5857	[4290, 7446]	7895	[8062, 3638]
1782	[3160, 3161]	3820	[865, 5873]	5858	[3991, 7447]	7896	[7465, 4033]
1783	[3162, 3163]	3821	[5874, 5875]	5859	[7448, 7449]	7897	[7732, 1728]
1784	[3164, 2905]	3822	[5876, 5877]	5860	[4361, 7450]	7898	[7093, 7401]
1785	[3165, 3166]	3823	[3203, 5878]	5861	[458, 4330]	7899	[8076, 1556]
1786	[3167, 3168]	3824	[5879, 5880]	5862	[7344, 1253]	7900	[1792, 7677]
1787	[3169, 3170]	3825	[2512, 219]	5863	[7451, 479]	7901	[7417, 7448]
1788	[3171, 3172]	3826	[5312, 143]	5864	[4887, 7452]	7902	[126, 4638]
1789	[1874, 3173]	3827	[5881, 5882]	5865	[4504, 7453]	7903	[3993, 7429]
1790	[3174, 2363]	3828	[5883, 5884]	5866	[1479, 7454]	7904	[4634, 7689]
1791	[679, 3175]	3829	[5885, 5492]	5867	[7454, 4368]	7905	[7418, 1466]
1792	[3176, 3177]	3830	[5886, 5887]	5868	[3962, 4803]	7906	[4926, 3866]
1793	[2201, 2117]	3831	[2176, 5888]	5869	[4870, 4014]	7907	[1636, 4764]
1794	[3178, 3179]	3832	[5889, 5678]	5870	[7455, 4231]	7908	[3801, 5007]
1795	[3180, 3181]	3833	[3185, 5890]	5871	[3843, 3286]	7909	[106, 1174]
1796	[3182, 3183]	3834	[5891, 884]	5872	[4615, 7456]	7910	[7543, 1784]
1797	[3184, 3185]	3835	[5291, 499]	5873	[1638, 7457]	7911	[8077, 7340]
1798	[3186, 3187]	3836	[5892, 688]	5874	[7458, 7188]	7912	[7614, 7710]
1799	[3188, 3189]	3837	[5893, 5894]	5875	[7395, 3705]	7913	[3347, 3556]
1800	[3190, 3191]	3838	[5895, 2827]	5876	[1302, 7459]	7914	[7798, 3935]
1801	[3192, 3193]	3839	[1972, 5896]	5877	[3379, 7460]	7915	[986, 7629]
1802	[3194, 3195]	3840	[1920, 5897]	5878	[7137, 7461]	7916	[1032, 6996]
1803	[3196, 3197]	3841	[5455, 5898]	5879	[7462, 3782]	7917	[4165, 412]
1804	[3198, 2940]	3842	[5899, 5202]	5880	[7463, 5055]	7918	[1078, 7712]
1805	[3199, 2018]	3843	[503, 3063]	5881	[7464, 1507]	7919	[7793, 3651]
1806	[3200, 3201]	3844	[5900, 5187]	5882	[7457, 4584]	7920	[7299, 7215]
1807	[3202, 3203]	3845	[2958, 2719]	5883	[7082, 7465]	7921	[7683, 7529]
1808	[3204, 3205]	3846	[5901, 5902]	5884	[7466, 7467]	7922	[3675, 3281]
1809	[838, 3206]	3847	[5903, 2205]	5885	[6981, 6872]	7923	[7622, 4969]
1810	[3207, 1869]	3848	[5527, 5904]	5886	[7468, 7295]	7924	[6916, 7372]
1811	[642, 3208]	3849	[2489, 5905]	5887	[7390, 7469]	7925	[7641, 7355]
1812	[2860, 3209]	3850	[2965, 2352]	5888	[3607, 1744]	7926	[7661, 4141]
1813	[3210, 3211]	3851	[5730, 5906]	5889	[7470, 1578]	7927	[6864, 4979]
1814	[3130, 3212]	3852	[5907, 5347]	5890	[1452, 4592]	7928	[7776, 4543]
1815	[3213, 3214]	3853	[5908, 5909]	5891	[4703, 1675]	7929	[7483, 473]
1816	[3215, 841]	3854	[2649, 2505]	5892	[1700, 7471]	7930	[7630, 7786]
1817	[3216, 2114]	3855	[5910, 2298]	5893	[7472, 7473]	7931	[4489, 7644]
1818	[2079, 3217]	3856	[5911, 5912]	5894	[3410, 7474]	7932	[4149, 3491]
1819	[3218, 3219]	3857	[5913, 1961]	5895	[7475, 7476]	7933	[7804, 4987]
1820	[3220, 3221]	3858	[5914, 5915]	5896	[1175, 4852]	7934	[3490, 7791]
1821	[3222, 3223]	3859	[5626, 3213]	5897	[3861, 1464]	7935	[8064, 3458]
1822	[1590, 3224]	3860	[5916, 5917]	5898	[4465, 7267]	7936	[8075, 364]
1823	[3225, 3226]	3861	[2772, 5611]	5899	[7384, 4639]	7937	[4078, 69]

1824	[449, 3227]	3862	[5918, 5919]	5900	[7016, 6937]	7938	[1325, 7370]
1825	[3228, 3229]	3863	[5920, 5921]	5901	[7352, 6929]	7939	[1708, 7430]
1826	[3230, 3231]	3864	[2251, 5922]	5902	[7276, 7477]	7940	[7558, 8074]
1827	[3232, 3233]	3865	[5923, 5924]	5903	[7388, 67]	7941	[4920, 4498]
1828	[3234, 3235]	3866	[5239, 5925]	5904	[7022, 7478]	7942	[8072, 6950]
1829	[3236, 3237]	3867	[2561, 1959]	5905	[3446, 6906]	7943	[1808, 7700]
1830	[3238, 1108]	3868	[579, 5339]	5906	[7474, 7479]	7944	[993, 6884]
1831	[3239, 3240]	3869	[5375, 5926]	5907	[7480, 1270]	7945	[8078, 4625]
1832	[3241, 3242]	3870	[5927, 3061]	5908	[7481, 1371]	7946	[7672, 4462]
1833	[3243, 3219]	3871	[5928, 199]	5909	[1563, 1356]	7947	[4443, 6993]
1834	[3244, 3245]	3872	[5929, 5930]	5910	[7436, 3963]	7948	[7377, 3842]
1835	[3246, 3247]	3873	[5931, 5932]	5911	[4741, 7482]	7949	[8059, 7609]
1836	[3248, 3249]	3874	[5933, 5934]	5912	[4932, 4399]	7950	[1101, 3714]
1837	[3250, 3251]	3875	[3195, 5935]	5913	[4946, 7483]	7951	[4989, 7676]
1838	[3252, 3253]	3876	[505, 5266]	5914	[7353, 7484]	7952	[7090, 7111]
1839	[3254, 1164]	3877	[5836, 5936]	5915	[7485, 7486]	7953	[4922, 1360]
1840	[3255, 1676]	3878	[5505, 5819]	5916	[7337, 1198]	7954	[7002, 3860]
1841	[3256, 3257]	3879	[1968, 5781]	5917	[7291, 7487]	7955	[4194, 4156]
1842	[3258, 3259]	3880	[5937, 5938]	5918	[4985, 7488]	7956	[4563, 7421]
1843	[3260, 3261]	3881	[5939, 5940]	5919	[7489, 7490]	7957	[3396, 6955]
1844	[3262, 3263]	3882	[2039, 5179]	5920	[3387, 4013]	7958	[1209, 8066]
1845	[3264, 3265]	3883	[5941, 5725]	5921	[7491, 1684]	7959	[7740, 3507]
1846	[3266, 991]	3884	[5942, 5240]	5922	[7492, 1766]	7960	[7138, 7805]
1847	[3267, 1571]	3885	[5943, 886]	5923	[4817, 7493]	7961	[1773, 4674]
1848	[3268, 1083]	3886	[2424, 5944]	5924	[3773, 6971]	7962	[7346, 1589]
1849	[3269, 3270]	3887	[2317, 5945]	5925	[4198, 300]	7963	[4093, 7739]
1850	[3271, 3272]	3888	[5946, 5947]	5926	[7104, 7392]	7964	[4143, 4994]
1851	[3273, 3274]	3889	[5948, 2889]	5927	[3444, 3232]	7965	[1034, 1262]
1852	[1187, 1693]	3890	[5949, 2250]	5928	[7494, 7495]	7966	[7705, 3893]
1853	[1023, 105]	3891	[1887, 5950]	5929	[7496, 7080]	7967	[4943, 6915]
1854	[3275, 3276]	3892	[5951, 5517]	5930	[7497, 4680]	7968	[4772, 3544]
1855	[3277, 3278]	3893	[635, 5952]	5931	[7498, 1768]	7969	[7694, 7569]
1856	[3279, 3280]	3894	[2218, 5953]	5932	[7499, 4516]	7970	[3806, 7806]
1857	[3281, 1667]	3895	[5954, 5955]	5933	[1731, 421]	7971	[1692, 477]
1858	[3282, 3283]	3896	[2683, 5956]	5934	[7500, 7361]	7972	[7391, 8079]
1859	[3284, 3285]	3897	[553, 5708]	5935	[1323, 7501]	7973	[7779, 7624]
1860	[3286, 3287]	3898	[5957, 5710]	5936	[7431, 4856]	7974	[7373, 1436]
1861	[303, 3288]	3899	[5958, 5959]	5937	[3865, 4725]	7975	[7424, 7415]
1862	[3289, 3290]	3900	[5960, 5961]	5938	[1619, 3786]	7976	[7698, 7458]
1863	[3291, 3292]	3901	[5962, 5963]	5939	[7037, 6936]	7977	[3999, 1510]
1864	[3293, 3294]	3902	[5964, 5965]	5940	[7167, 4709]	7978	[8069, 483]
1865	[1013, 3295]	3903	[5966, 5967]	5941	[7249, 7258]	7979	[1310, 3268]
1866	[1319, 3296]	3904	[5926, 921]	5942	[7316, 3573]	7980	[6924, 8073]
1867	[3297, 3298]	3905	[5343, 3057]	5943	[7394, 6886]	7981	[7045, 77]

1868	[3299, 3300]	3906	[5968, 3069]	5944	[7428, 4774]	7982	[8080, 8071]
1869	[1689, 3301]	3907	[5619, 5969]	5945	[7347, 7502]	7983	[3613, 8076]
1870	[3302, 3303]	3908	[5970, 5971]	5946	[6987, 4524]	7984	[343, 4180]
1871	[3304, 3305]	3909	[5972, 513]	5947	[1418, 7328]	7985	[7642, 4508]
1872	[3306, 1550]	3910	[3147, 5171]	5948	[4609, 7503]	7986	[3890, 7197]
1873	[1470, 3307]	3911	[5973, 2365]	5949	[7504, 7505]	7987	[7199, 7618]
1874	[3308, 3309]	3912	[2001, 5974]	5950	[4449, 446]	7988	[3219, 7086]
1875	[3310, 3311]	3913	[5975, 3001]	5951	[4601, 7506]	7989	[7575, 7601]
1876	[1717, 3312]	3914	[248, 5976]	5952	[4271, 3495]	7990	[7645, 7577]
1877	[3313, 3314]	3915	[2488, 5977]	5953	[7356, 3471]	7991	[7538, 7425]
1878	[3315, 3316]	3916	[669, 5861]	5954	[4991, 7507]	7992	[315, 7765]
1879	[3317, 3318]	3917	[5978, 5241]	5955	[4281, 7508]	7993	[7758, 1133]
1880	[3319, 3320]	3918	[3163, 5979]	5956	[1787, 7509]	7994	[3997, 7413]
1881	[3321, 3322]	3919	[5980, 5114]	5957	[4419, 7359]	7995	[7708, 5009]
1882	[1195, 3323]	3920	[5981, 5982]	5958	[3294, 6973]	7996	[4786, 7091]
1883	[3324, 1374]	3921	[5983, 5984]	5959	[4717, 7510]	7997	[7208, 3306]
1884	[3325, 1376]	3922	[5985, 5986]	5960	[443, 4631]	7998	[329, 4364]
1885	[1529, 3326]	3923	[5258, 5987]	5961	[1288, 1142]	7999	[7785, 7723]
1886	[3327, 1135]	3924	[5988, 5989]	5962	[4622, 6879]	8000	[1092, 448]
1887	[3328, 1462]	3925	[5990, 5536]	5963	[4797, 4328]	8001	[8063, 1146]
1888	[1143, 3329]	3926	[5991, 5992]	5964	[4557, 1548]	8002	[7525, 5050]
1889	[3330, 3331]	3927	[237, 3021]	5965	[4005, 1608]	8003	[7727, 3489]
1890	[3332, 3333]	3928	[3076, 2006]	5966	[7511, 7512]	8004	[7030, 3660]
1891	[3334, 3335]	3929	[5201, 5993]	5967	[3673, 4036]	8005	[7268, 5084]
1892	[3336, 3337]	3930	[696, 5768]	5968	[491, 4298]	8006	[7660, 1583]
1893	[3338, 3339]	3931	[757, 5994]	5969	[7513, 7514]	8007	[3612, 1745]
1894	[285, 3340]	3932	[128, 5995]	5970	[7515, 7516]	8008	[4836, 7382]
1895	[1125, 3341]	3933	[5996, 2004]	5971	[7517, 3933]	8009	[4656, 4976]
1896	[3342, 1243]	3934	[5997, 5198]	5972	[1284, 998]	8010	[3944, 7286]
1897	[3343, 3344]	3935	[2362, 5856]	5973	[6873, 7277]	8011	[1812, 8070]
1898	[3345, 3346]	3936	[938, 600]	5974	[3510, 4085]	8012	[4253, 7774]
1899	[1003, 3347]	3937	[5998, 5496]	5975	[7224, 4871]	8013	[6891, 7764]
1900	[3348, 3349]	3938	[5426, 5999]	5976	[488, 4603]	8014	[7803, 7722]
1901	[3350, 25]	3939	[6000, 3136]	5977	[7518, 4882]	8015	[4456, 3582]
1902	[3351, 3352]	3940	[6001, 2511]	5978	[7292, 7519]	8016	[4941, 8077]
1903	[3353, 3354]	3941	[795, 6002]	5979	[7520, 4755]	8017	[7747, 7028]
1904	[3355, 3356]	3942	[5714, 5135]	5980	[7521, 7076]	8018	[4547, 4891]
1905	[3357, 1089]	3943	[6003, 5916]	5981	[5065, 4284]	8019	[4799, 8060]
1906	[3358, 3359]	3944	[6004, 6005]	5982	[4243, 4605]	8020	[4949, 7788]
1907	[1679, 3360]	3945	[6006, 5697]	5983	[4899, 7522]	8021	[7533, 3599]
1908	[3361, 3362]	3946	[5539, 5466]	5984	[5051, 7523]	8022	[1109, 7524]
1909	[3363, 3364]	3947	[6007, 5268]	5985	[7524, 7341]	8023	[4007, 1128]
1910	[3365, 3366]	3948	[6008, 943]	5986	[5003, 7525]	8024	[3541, 7339]
1911	[3367, 3368]	3949	[6009, 6010]	5987	[4076, 4930]	8025	[120, 7716]

1912	[3369, 3370]	3950	[6011, 554]	5988	[6883, 1602]	8026	[7537, 95]
1913	[3371, 3372]	3951	[5896, 2984]	5989	[4643, 1176]	8027	[3272, 4001]
1914	[3373, 3374]	3952	[5795, 6012]	5990	[7526, 7527]	8028	[4696, 4152]
1915	[3375, 3369]	3953	[6013, 1986]	5991	[6909, 4204]	8029	[7599, 7009]
1916	[974, 3284]	3954	[6014, 2861]	5992	[7528, 3405]	8030	[4055, 4787]
1917	[3376, 3377]	3955	[6015, 6016]	5993	[7334, 4716]	8031	[7460, 6862]
1918	[3378, 3379]	3956	[6017, 6018]	5994	[7529, 992]	8032	[8068, 1736]
1919	[3380, 3381]	3957	[6019, 3138]	5995	[254, 4917]	8033	[7461, 7756]
1920	[3382, 3383]	3958	[2568, 1969]	5996	[4761, 3518]	8034	[8079, 7195]
1921	[3384, 3385]	3959	[5274, 6020]	5997	[4956, 7300]	8035	[4376, 3254]
1922	[3386, 3387]	3960	[6021, 2668]	5998	[1755, 7530]	8036	[4037, 8080]
1923	[3388, 3389]	3961	[6022, 5257]	5999	[7434, 4040]	8037	[124, 7598]
1924	[3390, 3391]	3962	[6023, 6024]	6000	[7379, 380]	8038	[4675, 7790]
1925	[3392, 3393]	3963	[5648, 6025]	6001	[7531, 4261]	8039	[7193, 8078]
1926	[3394, 1063]	3964	[6026, 5618]	6002	[4754, 1417]	8040	[3809, 7704]
1927	[1242, 334]	3965	[6027, 6028]	6003	[4670, 6990]	8041	[1379, 4888]
1928	[3395, 3396]	3966	[3010, 6029]	6004	[1072, 6977]	8042	[379, 7763]
1929	[3397, 21]	3967	[6030, 6031]	6005	[7532, 7533]	8043	[78, 7792]
1930	[3398, 1564]	3968	[2483, 2642]	6006	[4023, 91]	8044	[4583, 414]
1931	[3399, 3400]	3969	[6032, 5552]	6007	[7534, 3650]	8045	[1565, 5001]
1932	[3401, 3402]	3970	[3170, 5209]	6008	[7490, 7203]	8046	[7058, 3822]
1933	[3403, 3404]	3971	[6033, 6034]	6009	[7389, 3922]	8047	[4234, 4814]
1934	[3405, 3406]	3972	[6035, 3204]	6010	[4825, 4038]	8048	[3597, 64]
1935	[3407, 3408]	3973	[6036, 2689]	6011	[1461, 1077]	8049	[7796, 7329]
1936	[3409, 3410]	3974	[2305, 6037]	6012	[7235, 4053]	8050	[3611, 7542]
1937	[3411, 3412]	3975	[5132, 5154]	6013	[7535, 7536]	8051	[7333, 7521]
1938	[3413, 3414]	3976	[6038, 2721]	6014	[1448, 4811]	8052	[3463, 7365]
1939	[1746, 3415]	3977	[6039, 6040]	6015	[7023, 4919]	8053	[3630, 7681]
1940	[3416, 3417]	3978	[6041, 754]	6016	[4965, 3348]	8054	[7335, 4582]
1941	[1557, 3418]	3979	[6042, 6043]	6017	[4353, 7537]	8055	[7799, 7412]
1942	[3419, 3420]	3980	[3017, 6044]	6018	[323, 7538]	8056	[3499, 4455]
1943	[3421, 3422]	3981	[6045, 6046]	6019	[476, 4596]	8057	[4940, 7318]
1944	[3423, 3424]	3982	[6047, 6048]	6020	[3917, 1002]	8058	[8081, 2739]
1945	[3425, 3426]	3983	[2322, 5966]	6021	[7539, 4971]	8059	[5300, 2289]
1946	[3427, 3428]	3984	[3105, 6049]	6022	[1677, 4862]	8060	[7816, 6652]
1947	[3429, 3430]	3985	[6050, 5453]	6023	[7540, 3279]	8061	[182, 5454]
1948	[3431, 3432]	3986	[6051, 5970]	6024	[7409, 4088]	8062	[5390, 2813]
1949	[3354, 1678]	3987	[1912, 6052]	6025	[6870, 7541]	8063	[885, 2192]
1950	[441, 3433]	3988	[2786, 6053]	6026	[7309, 4099]	8064	[5192, 2676]
1951	[3434, 3435]	3989	[6054, 6055]	6027	[1113, 444]	8065	[6638, 2840]
1952	[3436, 3437]	3990	[6056, 5220]	6028	[7542, 1299]	8066	[2564, 5288]
1953	[100, 1182]	3991	[6057, 6058]	6029	[1048, 4477]	8067	[7978, 6851]
1954	[1586, 3438]	3992	[2375, 6059]	6030	[4314, 7543]	8068	[7927, 3094]
1955	[3439, 3440]	3993	[6060, 2023]	6031	[1806, 7475]	8069	[6091, 6833]

1956	[3441, 3442]	3994	[2132, 6061]	6032	[7350, 5094]	8070	[6718, 7929]
1957	[3443, 1332]	3995	[3172, 598]	6033	[1119, 7544]	8071	[6845, 8057]
1958	[997, 3444]	3996	[1991, 929]	6034	[5060, 7545]	8072	[7936, 2935]
1959	[3445, 3446]	3997	[6062, 2907]	6035	[7219, 5089]	8073	[7846, 2338]
1960	[3447, 3448]	3998	[5826, 2723]	6036	[7546, 5071]	8074	[5932, 733]
1961	[3449, 3450]	3999	[533, 2725]	6037	[7279, 3587]	8075	[2294, 7825]
1962	[3451, 3452]	4000	[6063, 6064]	6038	[4616, 7547]	8076	[5369, 2803]
1963	[3453, 3454]	4001	[891, 2310]	6039	[7548, 1303]	8077	[5610, 6824]
1964	[3455, 3456]	4002	[6065, 650]	6040	[1702, 6957]	8078	[2782, 2913]
1965	[3457, 438]	4003	[6066, 2555]	6041	[4535, 1447]	8079	[6813, 2602]
1966	[3458, 3459]	4004	[6067, 6068]	6042	[1183, 7549]	8080	[6096, 1929]
1967	[1494, 3460]	4005	[5734, 2225]	6043	[1185, 7550]	8081	[8082, 1110]
1968	[1458, 3461]	4006	[1880, 2103]	6044	[369, 4698]	8082	[8083, 2071]
1969	[3462, 3463]	4007	[6069, 6070]	6045	[7551, 7552]	8083	[8084, 3619]
1970	[3464, 1102]	4008	[2928, 2367]	6046	[3671, 4184]	8084	[8085, 3068]
1971	[3440, 481]	4009	[6071, 6072]	6047	[7553, 7554]	8085	[8086, 7307]
1972	[3465, 3466]	4010	[2357, 6073]	6048	[7555, 7556]	8086	[8087, 6321]
1973	[297, 983]	4011	[5999, 6074]	6049	[4279, 3738]	8087	[8088, 1068]
1974	[3467, 3468]	4012	[2620, 6075]	6050	[1622, 4978]	8088	[8089, 5516]
1975	[3469, 3470]	4013	[6076, 6077]	6051	[7557, 7517]	8089	[8090, 1455]
1976	[3471, 3472]	4014	[6078, 6079]	6052	[3368, 7558]	8090	[8091, 2638]
1977	[3473, 3474]	4015	[2388, 6080]	6053	[7374, 1112]	8091	[8092, 4168]
1978	[1245, 3475]	4016	[6081, 5931]	6054	[7092, 4996]	8092	[8093, 5458]
1979	[3476, 3477]	4017	[5351, 6082]	6055	[20, 7559]	8093	[8094, 4613]
1980	[3478, 3479]	4018	[5588, 5385]	6056	[4929, 7560]	8094	[8095, 5772]
1981	[3480, 3416]	4019	[5590, 5798]	6057	[6991, 4137]	8095	[8096, 1302]
1982	[3481, 3482]	4020	[1966, 6083]	6058	[3528, 7298]	8096	[8097, 5324]
1983	[3483, 3484]	4021	[62, 5425]	6059	[7561, 7115]	8097	[8098, 65]
1984	[3485, 3244]	4022	[5761, 183]	6060	[1685, 3674]	8098	[8099, 133]
1985	[3486, 3487]	4023	[6084, 6085]	6061	[7469, 3853]	8099	[8100, 267]
1986	[1593, 3488]	4024	[5820, 2614]	6062	[7562, 7211]	8100	[8101, 527]
1987	[3489, 3490]	4025	[6086, 6087]	6063	[3233, 1455]	8101	[8102, 1026]
1988	[3491, 3492]	4026	[5875, 829]	6064	[1058, 7563]	8102	[8103, 791]
1989	[1081, 1382]	4027	[6088, 6089]	6065	[7564, 1257]	8103	[8104, 3392]
1990	[3493, 409]	4028	[186, 1936]	6066	[7565, 4319]	8104	[8105, 3101]
1991	[3494, 1754]	4029	[2510, 2122]	6067	[7566, 3351]	8105	[8106, 3255]
1992	[3495, 3496]	4030	[6090, 792]	6068	[7567, 3297]	8106	[8107, 2993]
1993	[3497, 3498]	4031	[3205, 6091]	6069	[3643, 5010]	8107	[8108, 23]
1994	[3274, 3499]	4032	[956, 6092]	6070	[7568, 1618]	8108	[8109, 49]
1995	[3500, 3501]	4033	[6093, 240]	6071	[5032, 4834]	8109	[8110, 101]
1996	[3502, 3503]	4034	[5125, 6094]	6072	[7569, 4159]	8110	[8111, 205]
1997	[3504, 3505]	4035	[2820, 6095]	6073	[3921, 7570]	8111	[8112, 409]
1998	[3506, 1010]	4036	[5707, 6096]	6074	[7187, 7571]	8112	[8113, 47]
1999	[3507, 3508]	4037	[6097, 6098]	6075	[7501, 7572]	8113	[8114, 97]

2000	[3509, 3510]	4038	[6099, 3129]	6076	[3530, 3848]	8114	[8115, 197]
2001	[3511, 3512]	4039	[6100, 6101]	6077	[7519, 4211]	8115	[8116, 393]
2002	[3513, 3514]	4040	[6102, 5207]	6078	[7021, 3228]	8116	[8117, 765]
2003	[3515, 3516]	4041	[6103, 6104]	6079	[7493, 1445]	8117	[8118, 1466]
2004	[3508, 3517]	4042	[6105, 5341]	6080	[3878, 4668]	8118	[8119, 534]
2005	[3518, 3519]	4043	[1839, 2857]	6081	[7573, 7499]	8119	[8120, 1039]
2006	[3520, 390]	4044	[5764, 6106]	6082	[7502, 4884]	8120	[8121, 1946]
2007	[3521, 3522]	4045	[5894, 6107]	6083	[3844, 7574]	8121	[8122, 3429]
2008	[3523, 3524]	4046	[2074, 6108]	6084	[7482, 7575]	8122	[8123, 5396]
2009	[391, 3525]	4047	[6109, 6110]	6085	[7486, 1724]	8123	[8124, 7121]
2010	[1280, 3526]	4048	[6111, 5589]	6086	[116, 3816]	8124	[8125, 7949]
2011	[3527, 3528]	4049	[6112, 2210]	6087	[3788, 4857]	8125	[8126, 7348]
2012	[3529, 3530]	4050	[6113, 6114]	6088	[7576, 7198]	8126	[8127, 2374]
2013	[3531, 3532]	4051	[6115, 6116]	6089	[7577, 7578]	8127	[8128, 4068]
2014	[3533, 3534]	4052	[6117, 6118]	6090	[1361, 4809]	8128	[8129, 5982]
2015	[3535, 3536]	4053	[6119, 2986]	6091	[3871, 4216]	8129	[8130, 3904]
2016	[3537, 1088]	4054	[799, 6120]	6092	[1646, 7579]	8130	[8131, 5309]
2017	[3538, 3539]	4055	[801, 5260]	6093	[7580, 475]	8131	[8132, 7049]
2018	[3442, 1476]	4056	[6121, 6122]	6094	[7514, 7494]	8132	[8133, 5127]
2019	[3540, 3541]	4057	[6123, 6124]	6095	[4645, 320]	8133	[8134, 4631]
2020	[3542, 3543]	4058	[2536, 5191]	6096	[7175, 4816]	8134	[8135, 924]
2021	[3544, 3545]	4059	[2087, 853]	6097	[30, 7470]	8135	[8136, 3634]
2022	[1312, 1575]	4060	[2934, 2346]	6098	[3849, 6984]	8136	[8137, 3000]
2023	[3546, 3547]	4061	[2395, 2793]	6099	[4175, 3596]	8137	[8138, 995]
2024	[3548, 3549]	4062	[6125, 6126]	6100	[4506, 7354]	8138	[8139, 6528]
2025	[3550, 3551]	4063	[2751, 701]	6101	[7581, 7496]	8139	[8140, 4418]
2026	[3552, 1639]	4064	[6127, 6128]	6102	[1816, 3500]	8140	[8141, 2874]
2027	[3553, 1697]	4065	[6129, 6130]	6103	[7427, 3343]	8141	[8142, 4952]
2028	[387, 3554]	4066	[6131, 5713]	6104	[7582, 4876]	8142	[8143, 6116]
2029	[3555, 3317]	4067	[6132, 6133]	6105	[3331, 416]	8143	[8144, 4933]
2030	[3556, 368]	4068	[5113, 6134]	6106	[7371, 4928]	8144	[8145, 6044]
2031	[3557, 3558]	4069	[5982, 6135]	6107	[7473, 7576]	8145	[8146, 3762]
2032	[3559, 469]	4070	[6136, 2204]	6108	[3389, 4111]	8146	[8147, 5419]
2033	[3560, 3561]	4071	[6137, 6138]	6109	[3261, 4073]	8147	[8148, 4537]
2034	[1224, 3562]	4072	[5276, 6139]	6110	[1403, 7583]	8148	[1, 6386]
2035	[3563, 3564]	4073	[5167, 2901]	6111	[7584, 4270]		
2036	[3565, 3566]	4074	[6140, 5661]	6112	[6868, 7585]		
2037	[3567, 3568]	4075	[2756, 5605]	6113	[968, 7253]		

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

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1359	1	2718	0	4077	0	5436	0
1	0	1360	1	2719	1	4078	0	5437	0
2	1	1361	0	2720	1	4079	1	5438	1

3	0	1362	0	2721	0	4080	0	5439	1	6798	0
4	1	1363	0	2722	1	4081	0	5440	0	6799	1
5	1	1364	0	2723	1	4082	0	5441	1	6800	0
6	0	1365	1	2724	1	4083	0	5442	0	6801	0
7	0	1366	1	2725	0	4084	1	5443	1	6802	0
8	0	1367	1	2726	0	4085	0	5444	1	6803	1
9	1	1368	1	2727	1	4086	1	5445	1	6804	1
10	1	1369	0	2728	0	4087	1	5446	1	6805	1
11	1	1370	0	2729	0	4088	1	5447	0	6806	0
12	1	1371	0	2730	1	4089	1	5448	1	6807	1
13	0	1372	1	2731	1	4090	1	5449	1	6808	0
14	0	1373	1	2732	0	4091	1	5450	1	6809	0
15	0	1374	1	2733	1	4092	0	5451	0	6810	1
16	0	1375	0	2734	0	4093	0	5452	0	6811	0
17	0	1376	0	2735	1	4094	1	5453	0	6812	1
18	1	1377	1	2736	1	4095	1	5454	1	6813	1
19	1	1378	1	2737	0	4096	0	5455	1	6814	0
20	0	1379	0	2738	1	4097	1	5456	0	6815	1
21	1	1380	0	2739	0	4098	1	5457	1	6816	1
22	1	1381	1	2740	1	4099	1	5458	0	6817	1
23	1	1382	1	2741	1	4100	1	5459	0	6818	0
24	0	1383	0	2742	0	4101	1	5460	0	6819	1
25	1	1384	1	2743	1	4102	0	5461	1	6820	1
26	1	1385	1	2744	0	4103	0	5462	1	6821	0
27	0	1386	1	2745	1	4104	0	5463	1	6822	1
28	1	1387	0	2746	0	4105	0	5464	1	6823	1
29	0	1388	0	2747	1	4106	1	5465	1	6824	0
30	1	1389	1	2748	0	4107	1	5466	0	6825	0
31	0	1390	1	2749	1	4108	1	5467	0	6826	1
32	1	1391	1	2750	1	4109	0	5468	0	6827	0
33	0	1392	1	2751	0	4110	1	5469	0	6828	1
34	0	1393	1	2752	0	4111	1	5470	0	6829	0
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37	1	1396	1	2755	1	4114	1	5473	0	6832	0
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43	1	1402	0	2761	1	4120	0	5479	1	6838	0
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303	1	1662	0	3021	1	4380	1	5739	0	7098	0
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305	0	1664	1	3023	1	4382	0	5741	1	7100	1
306	0	1665	0	3024	1	4383	0	5742	1	7101	1
307	0	1666	0	3025	0	4384	1	5743	0	7102	0
308	0	1667	0	3026	1	4385	0	5744	1	7103	1
309	0	1668	1	3027	1	4386	0	5745	0	7104	0
310	1	1669	1	3028	1	4387	1	5746	0	7105	0

311	0	1670	1	3029	0	4388	1	5747	0	7106	1
312	0	1671	0	3030	0	4389	0	5748	0	7107	0
313	0	1672	1	3031	1	4390	0	5749	0	7108	1
314	1	1673	0	3032	0	4391	0	5750	1	7109	1
315	0	1674	1	3033	1	4392	1	5751	1	7110	1
316	1	1675	1	3034	1	4393	1	5752	1	7111	1
317	0	1676	1	3035	1	4394	0	5753	0	7112	1
318	1	1677	0	3036	0	4395	1	5754	1	7113	0
319	1	1678	0	3037	1	4396	0	5755	1	7114	1
320	1	1679	0	3038	1	4397	0	5756	0	7115	0
321	1	1680	1	3039	0	4398	0	5757	1	7116	0
322	1	1681	1	3040	1	4399	0	5758	1	7117	0
323	0	1682	0	3041	0	4400	1	5759	1	7118	0
324	1	1683	1	3042	1	4401	0	5760	1	7119	1
325	1	1684	1	3043	1	4402	1	5761	0	7120	1
326	1	1685	0	3044	0	4403	0	5762	0	7121	0
327	1	1686	0	3045	1	4404	1	5763	1	7122	0
328	1	1687	1	3046	1	4405	1	5764	0	7123	0
329	1	1688	1	3047	0	4406	0	5765	0	7124	0
330	0	1689	1	3048	1	4407	1	5766	0	7125	1
331	1	1690	0	3049	0	4408	1	5767	1	7126	1
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333	1	1692	1	3051	1	4410	0	5769	1	7128	1
334	0	1693	0	3052	1	4411	0	5770	0	7129	0
335	1	1694	1	3053	1	4412	1	5771	1	7130	1
336	1	1695	0	3054	0	4413	0	5772	1	7131	1
337	1	1696	1	3055	0	4414	1	5773	0	7132	1
338	1	1697	0	3056	1	4415	0	5774	0	7133	1
339	0	1698	1	3057	0	4416	0	5775	0	7134	0
340	0	1699	0	3058	0	4417	0	5776	1	7135	1
341	0	1700	1	3059	0	4418	1	5777	0	7136	0
342	1	1701	0	3060	0	4419	0	5778	0	7137	1
343	1	1702	1	3061	0	4420	0	5779	1	7138	1
344	0	1703	1	3062	0	4421	1	5780	1	7139	1
345	1	1704	0	3063	1	4422	1	5781	1	7140	0
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347	1	1706	1	3065	0	4424	0	5783	0	7142	1
348	1	1707	0	3066	1	4425	1	5784	0	7143	1
349	0	1708	1	3067	0	4426	0	5785	0	7144	0
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352	1	1711	1	3070	1	4429	1	5788	0	7147	1
353	0	1712	1	3071	0	4430	1	5789	1	7148	1
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357	0	1716	0	3075	1	4434	0	5793	1	7152	1
358	1	1717	1	3076	0	4435	1	5794	0	7153	1
359	0	1718	0	3077	0	4436	1	5795	1	7154	0
360	1	1719	1	3078	0	4437	1	5796	1	7155	0
361	0	1720	1	3079	1	4438	1	5797	0	7156	0
362	0	1721	1	3080	1	4439	0	5798	1	7157	0
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365	0	1724	0	3083	0	4442	1	5801	1	7160	0
366	1	1725	1	3084	1	4443	0	5802	1	7161	1
367	0	1726	0	3085	0	4444	0	5803	1	7162	0
368	1	1727	1	3086	0	4445	1	5804	0	7163	0
369	1	1728	0	3087	1	4446	1	5805	1	7164	0
370	1	1729	0	3088	1	4447	0	5806	1	7165	0
371	1	1730	0	3089	0	4448	0	5807	1	7166	0
372	1	1731	1	3090	0	4449	1	5808	1	7167	0
373	1	1732	0	3091	0	4450	1	5809	0	7168	1
374	1	1733	0	3092	1	4451	1	5810	1	7169	0
375	1	1734	0	3093	0	4452	1	5811	0	7170	0
376	1	1735	1	3094	0	4453	0	5812	1	7171	0
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379	0	1738	0	3097	1	4456	1	5815	0	7174	1
380	1	1739	1	3098	1	4457	0	5816	0	7175	0
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382	0	1741	1	3100	1	4459	0	5818	1	7177	1
383	0	1742	1	3101	0	4460	1	5819	1	7178	0
384	1	1743	1	3102	1	4461	0	5820	0	7179	0
385	0	1744	0	3103	0	4462	0	5821	1	7180	1
386	0	1745	1	3104	1	4463	1	5822	0	7181	0
387	0	1746	1	3105	0	4464	1	5823	1	7182	1
388	1	1747	0	3106	1	4465	1	5824	1	7183	0
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390	1	1749	1	3108	0	4467	1	5826	0	7185	0
391	0	1750	0	3109	1	4468	1	5827	0	7186	1
392	0	1751	1	3110	1	4469	0	5828	1	7187	1
393	1	1752	0	3111	0	4470	1	5829	0	7188	0
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395	0	1754	0	3113	0	4472	1	5831	1	7190	0
396	0	1755	0	3114	1	4473	0	5832	1	7191	1
397	0	1756	0	3115	1	4474	1	5833	0	7192	1
398	0	1757	0	3116	0	4475	1	5834	0	7193	0

399	0	1758	0	3117	0	4476	1	5835	0	7194	1
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402	1	1761	1	3120	0	4479	1	5838	1	7197	1
403	0	1762	0	3121	1	4480	1	5839	0	7198	0
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405	1	1764	0	3123	0	4482	0	5841	0	7200	1
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407	0	1766	0	3125	0	4484	1	5843	0	7202	1
408	1	1767	0	3126	0	4485	1	5844	0	7203	1
409	1	1768	0	3127	0	4486	0	5845	0	7204	1
410	1	1769	0	3128	0	4487	0	5846	1	7205	0
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412	0	1771	1	3130	0	4489	1	5848	1	7207	1
413	0	1772	0	3131	0	4490	0	5849	0	7208	0
414	1	1773	0	3132	1	4491	1	5850	1	7209	0
415	0	1774	0	3133	0	4492	1	5851	0	7210	0
416	1	1775	0	3134	1	4493	1	5852	0	7211	0
417	0	1776	0	3135	0	4494	0	5853	0	7212	1
418	0	1777	1	3136	0	4495	1	5854	0	7213	1
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420	1	1779	1	3138	0	4497	1	5856	0	7215	1
421	0	1780	0	3139	0	4498	0	5857	0	7216	0
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423	0	1782	1	3141	1	4500	0	5859	0	7218	1
424	1	1783	1	3142	1	4501	1	5860	1	7219	0
425	1	1784	1	3143	0	4502	0	5861	1	7220	0
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428	0	1787	1	3146	0	4505	1	5864	1	7223	1
429	0	1788	1	3147	1	4506	1	5865	1	7224	0
430	1	1789	0	3148	1	4507	1	5866	0	7225	1
431	0	1790	1	3149	0	4508	0	5867	1	7226	1
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433	1	1792	0	3151	1	4510	0	5869	0	7228	0
434	1	1793	0	3152	1	4511	1	5870	1	7229	0
435	1	1794	1	3153	0	4512	1	5871	0	7230	0
436	1	1795	1	3154	0	4513	1	5872	1	7231	0
437	0	1796	0	3155	1	4514	0	5873	1	7232	0
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441	1	1800	0	3159	1	4518	1	5877	0	7236	1
442	1	1801	0	3160	1	4519	0	5878	1	7237	1

443	1	1802	0	3161	0	4520	1	5879	0	7238	1
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445	0	1804	0	3163	0	4522	1	5881	0	7240	1
446	0	1805	1	3164	1	4523	0	5882	1	7241	0
447	1	1806	0	3165	1	4524	0	5883	0	7242	0
448	1	1807	0	3166	0	4525	1	5884	0	7243	1
449	0	1808	1	3167	0	4526	0	5885	0	7244	0
450	0	1809	1	3168	1	4527	0	5886	0	7245	0
451	1	1810	0	3169	1	4528	0	5887	0	7246	1
452	1	1811	0	3170	0	4529	0	5888	0	7247	0
453	0	1812	1	3171	1	4530	0	5889	1	7248	0
454	0	1813	0	3172	1	4531	1	5890	1	7249	1
455	1	1814	0	3173	1	4532	0	5891	0	7250	0
456	0	1815	0	3174	1	4533	1	5892	1	7251	1
457	1	1816	1	3175	1	4534	0	5893	0	7252	1
458	1	1817	0	3176	0	4535	0	5894	1	7253	1
459	0	1818	1	3177	1	4536	0	5895	0	7254	1
460	1	1819	0	3178	1	4537	1	5896	0	7255	0
461	1	1820	1	3179	1	4538	1	5897	0	7256	0
462	1	1821	1	3180	1	4539	0	5898	1	7257	0
463	0	1822	0	3181	0	4540	0	5899	0	7258	0
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465	0	1824	0	3183	1	4542	1	5901	0	7260	1
466	1	1825	0	3184	1	4543	0	5902	1	7261	1
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471	1	1830	0	3189	1	4548	0	5907	1	7266	0
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473	0	1832	1	3191	1	4550	1	5909	0	7268	1
474	0	1833	1	3192	0	4551	0	5910	0	7269	0
475	0	1834	0	3193	1	4552	1	5911	1	7270	0
476	1	1835	0	3194	0	4553	0	5912	0	7271	1
477	1	1836	1	3195	0	4554	1	5913	1	7272	0
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479	0	1838	0	3197	1	4556	1	5915	0	7274	1
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484	0	1843	0	3202	0	4561	1	5920	0	7279	1
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488	0	1847	0	3206	0	4565	0	5924	0	7283	1
489	1	1848	0	3207	0	4566	0	5925	0	7284	0
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521	1	1880	0	3239	1	4598	0	5957	0	7316	0
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523	0	1882	1	3241	1	4600	0	5959	0	7318	0
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525	1	1884	0	3243	1	4602	1	5961	0	7320	0
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528	0	1887	1	3246	0	4605	0	5964	1	7323	1
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540	1	1899	0	3258	0	4617	1	5976	0	7335	0
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544	0	1903	0	3262	0	4621	0	5980	1	7339	1
545	1	1904	1	3263	0	4622	0	5981	1	7340	1
546	1	1905	0	3264	0	4623	0	5982	1	7341	1
547	1	1906	0	3265	0	4624	1	5983	0	7342	0
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550	1	1909	1	3268	0	4627	1	5986	0	7345	1
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562	1	1921	1	3280	1	4639	0	5998	0	7357	0
563	1	1922	1	3281	0	4640	0	5999	0	7358	1
564	0	1923	0	3282	1	4641	1	6000	0	7359	1
565	1	1924	0	3283	1	4642	0	6001	0	7360	1
566	1	1925	0	3284	1	4643	1	6002	0	7361	0
567	0	1926	0	3285	0	4644	0	6003	1	7362	1
568	0	1927	1	3286	0	4645	1	6004	0	7363	0
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571	0	1930	1	3289	0	4648	0	6007	1	7366	0
572	1	1931	0	3290	1	4649	1	6008	1	7367	1
573	0	1932	0	3291	1	4650	0	6009	0	7368	1
574	1	1933	1	3292	1	4651	1	6010	0	7369	0

575	0	1934	0	3293	0	4652	1	6011	0	7370	0
576	1	1935	0	3294	1	4653	1	6012	0	7371	0
577	0	1936	0	3295	0	4654	1	6013	1	7372	1
578	1	1937	0	3296	0	4655	0	6014	1	7373	0
579	1	1938	0	3297	1	4656	1	6015	1	7374	0
580	0	1939	1	3298	0	4657	1	6016	0	7375	0
581	0	1940	0	3299	0	4658	1	6017	0	7376	0
582	1	1941	1	3300	1	4659	1	6018	0	7377	1
583	0	1942	0	3301	1	4660	1	6019	1	7378	1
584	1	1943	1	3302	1	4661	1	6020	1	7379	0
585	1	1944	0	3303	1	4662	0	6021	0	7380	0
586	1	1945	1	3304	1	4663	0	6022	0	7381	1
587	1	1946	0	3305	0	4664	1	6023	0	7382	1
588	1	1947	0	3306	1	4665	1	6024	0	7383	1
589	0	1948	1	3307	0	4666	1	6025	1	7384	0
590	1	1949	1	3308	0	4667	0	6026	1	7385	0
591	0	1950	1	3309	0	4668	1	6027	1	7386	1
592	1	1951	1	3310	0	4669	0	6028	1	7387	1
593	1	1952	0	3311	1	4670	1	6029	1	7388	1
594	1	1953	0	3312	0	4671	0	6030	0	7389	0
595	0	1954	1	3313	1	4672	0	6031	0	7390	0
596	1	1955	1	3314	1	4673	0	6032	0	7391	0
597	0	1956	1	3315	0	4674	0	6033	1	7392	1
598	0	1957	1	3316	0	4675	0	6034	1	7393	0
599	0	1958	0	3317	0	4676	1	6035	0	7394	1
600	0	1959	0	3318	1	4677	0	6036	0	7395	1
601	1	1960	0	3319	0	4678	0	6037	1	7396	1
602	0	1961	1	3320	0	4679	1	6038	1	7397	1
603	0	1962	1	3321	1	4680	0	6039	1	7398	1
604	0	1963	1	3322	0	4681	0	6040	1	7399	0
605	1	1964	1	3323	1	4682	1	6041	0	7400	1
606	0	1965	1	3324	0	4683	0	6042	0	7401	0
607	0	1966	1	3325	0	4684	1	6043	1	7402	0
608	0	1967	1	3326	0	4685	1	6044	1	7403	1
609	0	1968	1	3327	0	4686	0	6045	0	7404	0
610	0	1969	0	3328	1	4687	0	6046	0	7405	1
611	0	1970	1	3329	1	4688	0	6047	0	7406	0
612	0	1971	0	3330	0	4689	1	6048	1	7407	0
613	0	1972	0	3331	1	4690	1	6049	0	7408	0
614	1	1973	1	3332	1	4691	0	6050	0	7409	0
615	0	1974	1	3333	0	4692	1	6051	0	7410	1
616	0	1975	0	3334	0	4693	1	6052	0	7411	0
617	0	1976	0	3335	0	4694	0	6053	0	7412	1
618	1	1977	1	3336	0	4695	0	6054	1	7413	0

619	0	1978	0	3337	0	4696	1	6055	0	7414	1
620	0	1979	1	3338	1	4697	1	6056	1	7415	0
621	1	1980	0	3339	1	4698	1	6057	0	7416	1
622	1	1981	0	3340	0	4699	1	6058	1	7417	1
623	0	1982	1	3341	1	4700	0	6059	1	7418	1
624	1	1983	0	3342	0	4701	0	6060	0	7419	0
625	0	1984	1	3343	0	4702	1	6061	1	7420	0
626	1	1985	1	3344	1	4703	0	6062	1	7421	0
627	1	1986	1	3345	0	4704	1	6063	1	7422	1
628	1	1987	0	3346	1	4705	0	6064	0	7423	0
629	1	1988	1	3347	0	4706	1	6065	0	7424	1
630	1	1989	0	3348	1	4707	1	6066	0	7425	0
631	0	1990	1	3349	0	4708	1	6067	1	7426	0
632	0	1991	0	3350	1	4709	0	6068	1	7427	1
633	0	1992	0	3351	0	4710	1	6069	1	7428	1
634	1	1993	0	3352	0	4711	0	6070	1	7429	0
635	0	1994	1	3353	0	4712	0	6071	1	7430	0
636	1	1995	0	3354	1	4713	0	6072	0	7431	0
637	0	1996	0	3355	1	4714	1	6073	0	7432	1
638	1	1997	0	3356	0	4715	1	6074	1	7433	1
639	1	1998	0	3357	0	4716	1	6075	0	7434	0
640	0	1999	0	3358	0	4717	0	6076	1	7435	1
641	1	2000	0	3359	0	4718	1	6077	0	7436	0
642	0	2001	0	3360	0	4719	0	6078	0	7437	1
643	1	2002	1	3361	1	4720	1	6079	0	7438	0
644	1	2003	1	3362	1	4721	1	6080	0	7439	0
645	0	2004	0	3363	1	4722	1	6081	0	7440	1
646	1	2005	1	3364	0	4723	1	6082	0	7441	1
647	1	2006	0	3365	0	4724	1	6083	0	7442	0
648	0	2007	0	3366	1	4725	0	6084	1	7443	0
649	0	2008	0	3367	0	4726	1	6085	0	7444	0
650	1	2009	0	3368	0	4727	0	6086	0	7445	0
651	1	2010	0	3369	1	4728	0	6087	0	7446	0
652	0	2011	1	3370	0	4729	1	6088	1	7447	1
653	0	2012	0	3371	1	4730	0	6089	0	7448	0
654	1	2013	1	3372	0	4731	0	6090	0	7449	0
655	0	2014	0	3373	1	4732	1	6091	0	7450	1
656	1	2015	0	3374	1	4733	0	6092	1	7451	1
657	1	2016	0	3375	1	4734	1	6093	0	7452	1
658	0	2017	0	3376	1	4735	1	6094	1	7453	0
659	1	2018	1	3377	0	4736	0	6095	1	7454	1
660	0	2019	0	3378	1	4737	0	6096	0	7455	1
661	0	2020	0	3379	0	4738	1	6097	1	7456	0
662	0	2021	0	3380	0	4739	1	6098	0	7457	1

663	0	2022	0	3381	0	4740	1	6099	1	7458	0
664	1	2023	0	3382	0	4741	1	6100	1	7459	1
665	0	2024	1	3383	1	4742	0	6101	0	7460	1
666	0	2025	0	3384	1	4743	0	6102	1	7461	0
667	0	2026	1	3385	0	4744	1	6103	1	7462	0
668	1	2027	1	3386	1	4745	1	6104	1	7463	1
669	1	2028	0	3387	0	4746	1	6105	1	7464	0
670	0	2029	0	3388	0	4747	1	6106	0	7465	0
671	1	2030	0	3389	1	4748	0	6107	1	7466	0
672	1	2031	0	3390	0	4749	0	6108	1	7467	0
673	0	2032	1	3391	1	4750	0	6109	0	7468	0
674	0	2033	0	3392	0	4751	1	6110	0	7469	1
675	1	2034	0	3393	0	4752	0	6111	1	7470	1
676	1	2035	1	3394	0	4753	1	6112	1	7471	1
677	1	2036	1	3395	0	4754	0	6113	1	7472	0
678	1	2037	0	3396	1	4755	1	6114	1	7473	1
679	1	2038	0	3397	0	4756	0	6115	1	7474	1
680	0	2039	1	3398	1	4757	1	6116	1	7475	0
681	1	2040	1	3399	0	4758	0	6117	0	7476	1
682	0	2041	0	3400	1	4759	0	6118	1	7477	1
683	0	2042	1	3401	0	4760	1	6119	0	7478	0
684	0	2043	1	3402	1	4761	0	6120	0	7479	1
685	1	2044	1	3403	1	4762	0	6121	1	7480	1
686	1	2045	1	3404	0	4763	1	6122	0	7481	0
687	0	2046	0	3405	0	4764	0	6123	1	7482	1
688	0	2047	0	3406	0	4765	0	6124	1	7483	0
689	0	2048	0	3407	0	4766	1	6125	0	7484	1
690	0	2049	1	3408	0	4767	0	6126	0	7485	0
691	0	2050	0	3409	0	4768	1	6127	1	7486	0
692	1	2051	1	3410	1	4769	0	6128	0	7487	0
693	1	2052	0	3411	0	4770	1	6129	0	7488	1
694	0	2053	1	3412	0	4771	0	6130	0	7489	0
695	0	2054	0	3413	0	4772	0	6131	1	7490	1
696	1	2055	1	3414	0	4773	1	6132	0	7491	0
697	1	2056	1	3415	1	4774	1	6133	0	7492	0
698	1	2057	0	3416	0	4775	1	6134	0	7493	0
699	0	2058	1	3417	1	4776	0	6135	0	7494	0
700	0	2059	1	3418	0	4777	0	6136	0	7495	0
701	1	2060	0	3419	0	4778	0	6137	0	7496	0
702	1	2061	1	3420	1	4779	0	6138	0	7497	0
703	0	2062	0	3421	1	4780	1	6139	1	7498	1
704	1	2063	1	3422	1	4781	0	6140	1	7499	0
705	0	2064	0	3423	0	4782	1	6141	0	7500	1
706	0	2065	0	3424	0	4783	0	6142	0	7501	0

707	1	2066	0	3425	1	4784	1	6143	1	7502	0
708	0	2067	0	3426	1	4785	0	6144	0	7503	0
709	0	2068	0	3427	0	4786	1	6145	0	7504	0
710	1	2069	1	3428	1	4787	0	6146	1	7505	0
711	1	2070	1	3429	0	4788	1	6147	1	7506	0
712	0	2071	1	3430	0	4789	0	6148	0	7507	0
713	0	2072	0	3431	1	4790	0	6149	1	7508	0
714	1	2073	0	3432	1	4791	0	6150	0	7509	1
715	1	2074	0	3433	0	4792	1	6151	1	7510	1
716	0	2075	1	3434	1	4793	0	6152	1	7511	1
717	1	2076	1	3435	1	4794	1	6153	1	7512	1
718	0	2077	1	3436	0	4795	0	6154	1	7513	1
719	1	2078	0	3437	1	4796	0	6155	1	7514	1
720	1	2079	1	3438	1	4797	1	6156	0	7515	1
721	1	2080	0	3439	1	4798	0	6157	1	7516	1
722	0	2081	1	3440	0	4799	0	6158	0	7517	1
723	1	2082	0	3441	1	4800	1	6159	1	7518	1
724	1	2083	0	3442	1	4801	0	6160	0	7519	0
725	1	2084	1	3443	1	4802	0	6161	1	7520	1
726	1	2085	1	3444	1	4803	0	6162	1	7521	1
727	1	2086	1	3445	0	4804	0	6163	0	7522	1
728	1	2087	1	3446	1	4805	0	6164	1	7523	1
729	1	2088	1	3447	0	4806	1	6165	0	7524	0
730	0	2089	1	3448	0	4807	1	6166	1	7525	1
731	1	2090	1	3449	1	4808	0	6167	0	7526	1
732	1	2091	0	3450	1	4809	1	6168	1	7527	1
733	1	2092	1	3451	1	4810	0	6169	0	7528	1
734	0	2093	0	3452	0	4811	0	6170	1	7529	0
735	0	2094	1	3453	1	4812	1	6171	0	7530	0
736	1	2095	0	3454	1	4813	1	6172	0	7531	0
737	0	2096	1	3455	1	4814	1	6173	0	7532	1
738	1	2097	1	3456	1	4815	0	6174	1	7533	0
739	1	2098	0	3457	1	4816	1	6175	0	7534	1
740	0	2099	1	3458	1	4817	0	6176	0	7535	1
741	1	2100	1	3459	1	4818	0	6177	1	7536	1
742	0	2101	0	3460	0	4819	1	6178	1	7537	1
743	1	2102	1	3461	1	4820	1	6179	0	7538	1
744	0	2103	0	3462	0	4821	0	6180	1	7539	0
745	1	2104	0	3463	1	4822	1	6181	1	7540	0
746	1	2105	0	3464	1	4823	0	6182	1	7541	1
747	1	2106	1	3465	0	4824	0	6183	0	7542	1
748	0	2107	1	3466	1	4825	0	6184	1	7543	0
749	1	2108	1	3467	1	4826	1	6185	1	7544	0
750	0	2109	0	3468	0	4827	0	6186	1	7545	1

751	1	2110	1	3469	0	4828	1	6187	0	7546	0
752	0	2111	1	3470	1	4829	1	6188	0	7547	0
753	0	2112	1	3471	0	4830	1	6189	1	7548	1
754	1	2113	0	3472	1	4831	1	6190	0	7549	1
755	0	2114	0	3473	1	4832	1	6191	1	7550	0
756	1	2115	0	3474	0	4833	0	6192	1	7551	0
757	0	2116	1	3475	1	4834	1	6193	1	7552	1
758	1	2117	1	3476	1	4835	0	6194	1	7553	0
759	0	2118	1	3477	1	4836	1	6195	1	7554	1
760	0	2119	0	3478	0	4837	1	6196	0	7555	1
761	0	2120	1	3479	0	4838	0	6197	1	7556	0
762	0	2121	0	3480	0	4839	1	6198	0	7557	0
763	1	2122	1	3481	1	4840	1	6199	1	7558	1
764	1	2123	1	3482	0	4841	1	6200	1	7559	0
765	1	2124	1	3483	0	4842	1	6201	0	7560	0
766	0	2125	0	3484	0	4843	1	6202	0	7561	1
767	1	2126	0	3485	1	4844	1	6203	1	7562	1
768	0	2127	1	3486	1	4845	0	6204	0	7563	1
769	1	2128	0	3487	1	4846	1	6205	0	7564	0
770	0	2129	0	3488	1	4847	1	6206	1	7565	0
771	0	2130	1	3489	0	4848	1	6207	0	7566	1
772	0	2131	0	3490	1	4849	0	6208	0	7567	1
773	0	2132	0	3491	1	4850	0	6209	1	7568	1
774	1	2133	1	3492	1	4851	0	6210	0	7569	0
775	1	2134	1	3493	1	4852	0	6211	0	7570	0
776	0	2135	0	3494	0	4853	1	6212	0	7571	0
777	0	2136	0	3495	0	4854	1	6213	0	7572	0
778	1	2137	1	3496	1	4855	0	6214	1	7573	0
779	1	2138	1	3497	0	4856	0	6215	0	7574	1
780	1	2139	0	3498	0	4857	1	6216	1	7575	0
781	0	2140	1	3499	0	4858	1	6217	1	7576	1
782	0	2141	0	3500	0	4859	0	6218	0	7577	0
783	0	2142	0	3501	0	4860	1	6219	0	7578	0
784	1	2143	1	3502	0	4861	1	6220	1	7579	1
785	1	2144	0	3503	1	4862	0	6221	1	7580	0
786	1	2145	1	3504	0	4863	1	6222	1	7581	0
787	0	2146	0	3505	0	4864	1	6223	1	7582	1
788	0	2147	0	3506	0	4865	0	6224	0	7583	0
789	1	2148	0	3507	0	4866	0	6225	1	7584	1
790	1	2149	0	3508	0	4867	0	6226	1	7585	0
791	1	2150	1	3509	0	4868	1	6227	0	7586	0
792	1	2151	0	3510	1	4869	1	6228	1	7587	1
793	1	2152	0	3511	0	4870	0	6229	1	7588	1
794	1	2153	0	3512	1	4871	0	6230	1	7589	1

795	1	2154	1	3513	1	4872	1	6231	0	7590	0
796	1	2155	1	3514	1	4873	1	6232	0	7591	1
797	0	2156	0	3515	1	4874	1	6233	0	7592	1
798	0	2157	0	3516	0	4875	1	6234	1	7593	1
799	0	2158	0	3517	0	4876	0	6235	0	7594	0
800	0	2159	1	3518	1	4877	1	6236	1	7595	0
801	0	2160	0	3519	0	4878	1	6237	1	7596	1
802	1	2161	0	3520	0	4879	0	6238	1	7597	1
803	1	2162	1	3521	0	4880	0	6239	0	7598	1
804	0	2163	1	3522	1	4881	0	6240	1	7599	0
805	0	2164	1	3523	0	4882	1	6241	1	7600	1
806	1	2165	1	3524	1	4883	0	6242	0	7601	1
807	1	2166	0	3525	1	4884	1	6243	1	7602	0
808	0	2167	0	3526	0	4885	1	6244	0	7603	1
809	0	2168	1	3527	1	4886	1	6245	0	7604	1
810	0	2169	1	3528	1	4887	1	6246	0	7605	1
811	1	2170	0	3529	0	4888	1	6247	1	7606	0
812	0	2171	0	3530	1	4889	0	6248	0	7607	0
813	0	2172	0	3531	1	4890	0	6249	0	7608	0
814	1	2173	1	3532	1	4891	0	6250	1	7609	0
815	0	2174	0	3533	0	4892	0	6251	1	7610	1
816	0	2175	1	3534	1	4893	0	6252	1	7611	1
817	0	2176	0	3535	0	4894	0	6253	1	7612	0
818	0	2177	1	3536	1	4895	1	6254	0	7613	1
819	0	2178	0	3537	0	4896	1	6255	1	7614	0
820	0	2179	0	3538	0	4897	0	6256	1	7615	0
821	1	2180	0	3539	0	4898	1	6257	1	7616	1
822	1	2181	0	3540	0	4899	0	6258	0	7617	1
823	1	2182	0	3541	1	4900	1	6259	1	7618	0
824	1	2183	0	3542	0	4901	0	6260	0	7619	1
825	1	2184	1	3543	1	4902	0	6261	1	7620	1
826	0	2185	0	3544	0	4903	1	6262	0	7621	0
827	0	2186	0	3545	1	4904	1	6263	1	7622	1
828	0	2187	1	3546	0	4905	1	6264	1	7623	0
829	0	2188	0	3547	0	4906	1	6265	1	7624	0
830	0	2189	1	3548	1	4907	0	6266	1	7625	0
831	0	2190	0	3549	0	4908	1	6267	1	7626	0
832	1	2191	1	3550	0	4909	1	6268	0	7627	1
833	1	2192	1	3551	0	4910	0	6269	1	7628	1
834	0	2193	0	3552	1	4911	1	6270	1	7629	0
835	0	2194	0	3553	1	4912	1	6271	0	7630	1
836	0	2195	1	3554	1	4913	1	6272	1	7631	1
837	0	2196	1	3555	0	4914	1	6273	0	7632	0
838	1	2197	0	3556	0	4915	0	6274	1	7633	1

839	1	2198	1	3557	0	4916	0	6275	0	7634	0
840	1	2199	1	3558	1	4917	1	6276	0	7635	1
841	1	2200	0	3559	1	4918	1	6277	0	7636	1
842	1	2201	0	3560	0	4919	0	6278	0	7637	0
843	1	2202	1	3561	1	4920	0	6279	0	7638	0
844	1	2203	0	3562	1	4921	0	6280	1	7639	0
845	1	2204	1	3563	1	4922	1	6281	0	7640	1
846	1	2205	0	3564	0	4923	0	6282	1	7641	1
847	0	2206	1	3565	1	4924	0	6283	0	7642	0
848	0	2207	0	3566	0	4925	1	6284	1	7643	1
849	1	2208	0	3567	0	4926	0	6285	1	7644	1
850	0	2209	0	3568	1	4927	0	6286	0	7645	0
851	1	2210	0	3569	0	4928	1	6287	1	7646	1
852	0	2211	1	3570	0	4929	1	6288	1	7647	0
853	0	2212	0	3571	1	4930	1	6289	1	7648	1
854	0	2213	0	3572	0	4931	0	6290	1	7649	1
855	1	2214	1	3573	0	4932	0	6291	1	7650	1
856	0	2215	1	3574	1	4933	0	6292	1	7651	0
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858	1	2217	1	3576	1	4935	1	6294	0	7653	1
859	1	2218	0	3577	1	4936	1	6295	0	7654	0
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861	0	2220	0	3579	0	4938	1	6297	1	7656	0
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863	0	2222	0	3581	1	4940	0	6299	1	7658	1
864	0	2223	1	3582	0	4941	0	6300	0	7659	1
865	0	2224	1	3583	0	4942	0	6301	0	7660	0
866	1	2225	1	3584	1	4943	1	6302	1	7661	1
867	1	2226	0	3585	0	4944	1	6303	1	7662	0
868	1	2227	0	3586	1	4945	0	6304	1	7663	0
869	1	2228	1	3587	1	4946	1	6305	1	7664	1
870	0	2229	0	3588	0	4947	0	6306	0	7665	0
871	1	2230	0	3589	0	4948	1	6307	1	7666	0
872	0	2231	0	3590	0	4949	1	6308	0	7667	0
873	0	2232	0	3591	1	4950	0	6309	1	7668	0
874	1	2233	0	3592	1	4951	1	6310	0	7669	1
875	0	2234	1	3593	0	4952	1	6311	0	7670	0
876	1	2235	0	3594	0	4953	1	6312	0	7671	1
877	0	2236	1	3595	1	4954	1	6313	1	7672	1
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879	1	2238	1	3597	1	4956	1	6315	0	7674	1
880	0	2239	0	3598	0	4957	0	6316	1	7675	0
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886	1	2245	1	3604	1	4963	1	6322	1	7681	1
887	0	2246	1	3605	1	4964	0	6323	1	7682	0
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889	0	2248	0	3607	0	4966	1	6325	1	7684	1
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892	1	2251	0	3610	0	4969	1	6328	0	7687	1
893	0	2252	1	3611	0	4970	1	6329	0	7688	1
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896	1	2255	1	3614	1	4973	0	6332	1	7691	0
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898	0	2257	1	3616	1	4975	0	6334	0	7693	0
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901	0	2260	0	3619	0	4978	0	6337	1	7696	0
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925	1	2284	1	3643	1	5002	1	6361	0	7720	0
926	0	2285	1	3644	1	5003	0	6362	1	7721	0

927	1	2286	0	3645	1	5004	1	6363	0	7722	0
928	1	2287	1	3646	1	5005	0	6364	0	7723	0
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936	0	2295	0	3654	1	5013	1	6372	1	7731	0
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943	0	2302	0	3661	1	5020	1	6379	0	7738	0
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945	0	2304	0	3663	0	5022	1	6381	0	7740	1
946	0	2305	1	3664	1	5023	1	6382	0	7741	0
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968	1	2327	0	3686	0	5045	0	6404	1	7763	1
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973	0	2332	1	3691	1	5050	1	6409	1	7768	0
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976	1	2335	1	3694	0	5053	1	6412	1	7771	0
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