

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

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

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

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

$$\begin{aligned} p_0(z) &= z^{20} + z^{18} + z^{16} + z^{13} + z^{12} + z^{11} + z^6 + z^2 + z + 1, \\ p_1(z) &= z^{23} + z^{21} + z^{19} + z^{17} + z^{14} + z^{13} + z^{12} + z^7 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{14} + z^2, \\ p_3(z) &= z^{23} + z^{21} + z^{19} + z^{17} + z^{14} + z^{13} + z^{12} + z^7 + z^2 + z, \\ p_4(z) &= z^{22} + z^{18} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^6 + z, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{16} + z^{13} + z^{12} + z^{11} + z^6 + z^4 + z^2 + z, \\ p_1(z) &= z^{23} + z^{21} + z^{19} + z^{17} + z^{14} + z^{13} + z^{12} + z^7 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{14} + z^2, \\ p_3(z) &= z^{23} + z^{21} + z^{19} + z^{17} + z^{14} + z^{13} + z^{12} + z^7 + z^2 + z, \\ p_4(z) &= z^{22} + z^{20} + z^{18} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^6 + z^4 + z + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

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

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

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

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

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

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

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

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

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

$$(2.8) \quad \begin{aligned} 0 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] \\ &+ T[[111w]_2], \end{aligned}$$

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

$$(2.10) \quad 0 = T[[1w]_2] + T[[100w]_2] + T[[1001w]_2],$$

$$(2.11) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[110w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2]$$

$$(2.14) \quad + T[[111w]_2],$$

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

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

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

$$(2.18) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8064 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

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

$$+ \tau(A(s, 110)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101))$$

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

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

$$(2.22) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

$$(2.23) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

$$(2.24) \quad + \tau(A(s, 1011)),$$

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

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100))$$

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

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101))$$

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

$$(2.27) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 1000)),$$

$$(2.28) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

$$(2.29) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

$$(2.30) \quad + \tau(A(s, 1011)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{38}), E_{38}) = (A(i, 0^{22}), E_{22})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 19$, which turns out to be true. $\square$

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

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

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

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

$$\begin{aligned}q_0(x) &= x^{24} + x^{23} + x^{22} + x^{18} + x^{13} + x^{12} + x^{11} + x^8 + x^6 + x^4, \\ q_1(x) &= x^{23} + x^{22} + x^{17} + x^{12} + x^{11} + x^{10} + x^7 + x^5 + x^3 + x, \\ q_2(x) &= x^{22} + x^{10} + x^2 + 1, \\ q_3(x) &= x^{23} + x^{22} + x^{17} + x^{12} + x^{11} + x^{10} + x^7 + x^5 + x^3 + x, \\ q_4(x) &= x^{23} + x^{18} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6 + x^2.\end{aligned}$$

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{128} + x^{116} + x^{114} + x^{112} + x^{104} + x^{92} + x^{90} + x^{86} + x^{80} \\
&\quad + x^{76} + x^{70} + x^{62} + x^{58} + x^{52} + x^{50} + x^{48} + x^{46} + x^{40} + x^{34} + x^{32} \\
&\quad + x^{30} + x^{24} + x^{20} + x^{12}, \\
p_3(x) &= x^{132} + x^{130} + x^{126} + x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{106} \\
&\quad + x^{102} + x^{98} + x^{96} + x^{88} + x^{84} + x^{82} + x^{74} + x^{70} + x^{64} + x^{62} + x^{60} \\
&\quad + x^{54} + x^{52} + x^{46} + x^{44} + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} \\
&\quad + x^{26} + x^{24} + x^{18} + x^{16} + x^{14} + x^8, \\
p_6(x) &= x^{134} + x^{132} + x^{126} + x^{124} + x^{122} + x^{116} + x^{114} + x^{108} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{100} + x^{96} + x^{92} + x^{90} + x^{86} + x^{84} + x^{76} + x^{74} + x^{66} + x^{60} \\
&\quad + x^{56} + x^{44} + x^{30} + x^{28} + x^{24} + x^{22} + x^{20} + x^{14} + x^4 + x^2 + 1, \\
p_9(x) &= x^{136} + x^{134} + x^{122} + x^{112} + x^{110} + x^{102} + x^{98} + x^{96} + x^{94} + x^{92} \\
&\quad + x^{90} + x^{88} + x^{86} + x^{74} + x^{64} + x^{62} + x^{56} + x^{50} + x^{44} + x^{34} + x^{32} \\
&\quad + x^{30} + x^{24} + x^{18} + x^{16} + x^{12} + x^8 + x^6 + x^4 + x^2, \\
p_{12}(x) &= x^{136} + x^{96} + x^{56} + x^{40} + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{121} + x^{118} + x^{115} + x^{110} + x^{109} + x^{107} + x^{103} \\
&\quad + x^{102} + x^{100} + x^{98} + x^{97} + x^{95} + x^{94} + x^{92} + x^{90} + x^{84} + x^{81} + x^{77} \\
&\quad + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{68} + x^{64} + x^{60} + x^{59} + x^{57} + x^{55} \\
&\quad + x^{52} + x^{50} + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{38} + x^{37} + x^{36} + x^{34} \\
&\quad + x^{33} + x^{32} + x^{29} + x^{28} + x^{27} + x^{24} + x^{23} + x^{22} + x^{20} + x^{18}, \\
p_3(x) &= x^{124} + x^{123} + x^{119} + x^{116} + x^{115} + x^{112} + x^{107} + x^{102} + x^{101} + x^{97} \\
&\quad + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{89} + x^{68} + x^{67} + x^{63} + x^{56} + x^{55} \\
&\quad + x^{51} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{35} + x^{32} \\
&\quad + x^{27} + x^{22} + x^{21} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} + x^9, \\
p_6(x) &= x^{123} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{107} \\
&\quad + x^{106} + x^{103} + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{93} + x^{90} + x^{88} + x^{83} \\
&\quad + x^{78} + x^{73} + x^{71} + x^{69} + x^{68} + x^{66} + x^{64} + x^{63} + x^{59} + x^{58} + x^{54} \\
&\quad + x^{53} + x^{51} + x^{48} + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} \\
&\quad + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{24} + x^{15} + x^{11} \\
&\quad + x^{10} + x^6, \\
p_9(x) &= x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{108} + x^{107} + x^{103} + x^{102} \\
&\quad + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{84} + x^{83} + x^{79} + x^{74} \\
&\quad + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{64} + x^{63} + x^{60} + x^{55} + x^{54} + x^{53}
\end{aligned}$$

$$\begin{aligned}
& + x^{52} + x^{51} + x^{50} + x^{48} + x^{45} + x^{44} + x^{42} + x^{41} + x^{40} + x^{37} + x^{36} \\
& + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{24} + x^{22} + x^{21} + x^{19} + x^{18} + x^{14} \\
& + x^{12} + x^{11} + x^{10} + x^8 + x^5 + x^3, \\
p_{12}(x) &= x^{121} + x^{116} + x^{101} + x^{96} + x^{41} + x^{36} + x^{25} + x^{21} + x^{20} + x^{16} + x^5 + 1
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{121} + x^{118} + x^{115} + x^{110} + x^{109} + x^{107} + x^{103} \\
& + x^{102} + x^{100} + x^{98} + x^{97} + x^{95} + x^{94} + x^{92} + x^{90} + x^{84} + x^{81} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{68} + x^{64} + x^{60} + x^{59} + x^{57} + x^{55} \\
& + x^{52} + x^{50} + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{38} + x^{37} + x^{36} + x^{34} \\
& + x^{33} + x^{32} + x^{29} + x^{28} + x^{27} + x^{24} + x^{23} + x^{22} + x^{20} + x^{18}, \\
p_3(x) &= x^{124} + x^{123} + x^{119} + x^{116} + x^{115} + x^{112} + x^{107} + x^{102} + x^{101} + x^{97} \\
& + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{89} + x^{68} + x^{67} + x^{63} + x^{56} + x^{55} \\
& + x^{51} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{35} + x^{32} \\
& + x^{27} + x^{22} + x^{21} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} + x^9, \\
p_6(x) &= x^{123} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{107} \\
& + x^{106} + x^{103} + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{93} + x^{90} + x^{88} + x^{83} \\
& + x^{78} + x^{73} + x^{71} + x^{69} + x^{68} + x^{66} + x^{64} + x^{63} + x^{59} + x^{58} + x^{54} \\
& + x^{53} + x^{51} + x^{48} + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} \\
& + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{24} + x^{15} + x^{11} \\
& + x^{10} + x^6, \\
p_9(x) &= x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{108} + x^{107} + x^{103} + x^{102} \\
& + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{84} + x^{83} + x^{79} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{64} + x^{63} + x^{60} + x^{55} + x^{54} + x^{53} \\
& + x^{52} + x^{51} + x^{50} + x^{48} + x^{45} + x^{44} + x^{42} + x^{41} + x^{40} + x^{37} + x^{36} \\
& + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{24} + x^{22} + x^{21} + x^{19} + x^{18} + x^{14} \\
& + x^{12} + x^{11} + x^{10} + x^8 + x^5 + x^3, \\
p_{12}(x) &= x^{121} + x^{116} + x^{101} + x^{96} + x^{41} + x^{36} + x^{25} + x^{21} + x^{20} + x^{16} + x^5 + 1
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{112} + x^{108} + x^{102} + x^{92} + x^{84} + x^{82} + x^{80} + x^{72} + x^{64} + x^{62} \\
& + x^{58} + x^{52} + x^{48} + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{28} + x^{24}, \\
p_3(x) &= x^{108} + x^{106} + x^{104} + x^{100} + x^{98} + x^{96} + x^{94} + x^{90} + x^{88} + x^{78} + x^{58} \\
& + x^{56} + x^{52} + x^{46} + x^{42} + x^{40} + x^{38} + x^{30} + x^{28} + x^{26} + x^{24} + x^{20}
\end{aligned}$$

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

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{92} \\
& + x^{90} + x^{88} + x^{84} + x^{80} + x^{74} + x^{72} + x^{70} + x^{56} + x^{52} + x^{44} + x^{36} \\
& + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{22} + x^{16} + x^{12}, \\
p_3(x) &= x^{108} + x^{106} + x^{102} + x^{96} + x^{88} + x^{80} + x^{70} + x^{60} + x^{54} + x^{32} + x^{30} \\
& + x^{28} + x^{26} + x^{20} + x^{16} + x^{14} + x^{10} + x^8, \\
p_6(x) &= x^{108} + x^{104} + x^{102} + x^{100} + x^{98} + x^{90} + x^{88} + x^{82} + x^{78} + x^{72} + x^{70} \\
& + x^{68} + x^{62} + x^{56} + x^{54} + x^{50} + x^{40} + x^{38} + x^{34} + x^{32} + x^{22} + x^{18} \\
& + x^{16} + x^{12} + x^8 + x^4 + x^2 + 1, \\
p_9(x) &= x^{106} + x^{104} + x^{96} + x^{94} + x^{92} + x^{80} + x^{70} + x^{68} + x^{60} + x^{56} + x^{50} \\
& + x^{48} + x^{46} + x^{44} + x^{40} + x^{32} + x^{30} + x^{28} + x^{26} + x^{24} + x^{22} + x^{14} \\
& + x^8 + x^6 + x^4 + x^2, \\
p_{12}(x) &= x^{106} + x^{96} + x^{26} + x^{16} + x^{10} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{122} + x^{121} + x^{116} + x^{114} + x^{111} + x^{110} + x^{108} \\
& + x^{106} + x^{104} + x^{101} + x^{100} + x^{97} + x^{96} + x^{93} + x^{91} + x^{89} + x^{85} \\
& + x^{84} + x^{83} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} \\
& + x^{70} + x^{66} + x^{65} + x^{61} + x^{60} + x^{59} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\
& + x^{51} + x^{50} + x^{49} + x^{47} + x^{45} + x^{40} + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} \\
& + x^{30} + x^{24}, \\
p_3(x) &= x^{124} + x^{123} + x^{119} + x^{116} + x^{115} + x^{112} + x^{107} + x^{102} + x^{101} + x^{97} \\
& + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{89} + x^{68} + x^{67} + x^{63} + x^{56} + x^{55} \\
& + x^{51} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{35} + x^{32} \\
& + x^{27} + x^{22} + x^{21} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} + x^9, \\
p_6(x) &= x^{123} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{107}
\end{aligned}$$

$$\begin{aligned}
& + x^{106} + x^{103} + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{93} + x^{90} + x^{88} + x^{83} \\
& + x^{78} + x^{73} + x^{71} + x^{69} + x^{68} + x^{66} + x^{64} + x^{63} + x^{59} + x^{58} + x^{54} \\
& + x^{53} + x^{51} + x^{48} + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} \\
& + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{24} + x^{15} + x^{11} \\
& + x^{10} + x^6, \\
p_9(x) &= x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{108} + x^{107} + x^{103} + x^{102} \\
& + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{84} + x^{83} + x^{79} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{64} + x^{63} + x^{60} + x^{55} + x^{54} + x^{53} \\
& + x^{52} + x^{51} + x^{50} + x^{48} + x^{45} + x^{44} + x^{42} + x^{41} + x^{40} + x^{37} + x^{36} \\
& + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{24} + x^{22} + x^{21} + x^{19} + x^{18} + x^{14} \\
& + x^{12} + x^{11} + x^{10} + x^8 + x^5 + x^3, \\
p_{12}(x) &= x^{121} + x^{116} + x^{101} + x^{96} + x^{41} + x^{36} + x^{25} + x^{21} + x^{20} + x^{16} + x^5 + 1
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{122} + x^{121} + x^{116} + x^{114} + x^{111} + x^{110} + x^{108} \\
& + x^{106} + x^{104} + x^{101} + x^{100} + x^{97} + x^{96} + x^{93} + x^{91} + x^{89} + x^{85} \\
& + x^{84} + x^{83} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} \\
& + x^{70} + x^{66} + x^{65} + x^{61} + x^{60} + x^{59} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\
& + x^{51} + x^{50} + x^{49} + x^{47} + x^{45} + x^{40} + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} \\
& + x^{30} + x^{24}, \\
p_3(x) &= x^{124} + x^{123} + x^{119} + x^{116} + x^{115} + x^{112} + x^{107} + x^{102} + x^{101} + x^{97} \\
& + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{89} + x^{68} + x^{67} + x^{63} + x^{56} + x^{55} \\
& + x^{51} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{35} + x^{32} \\
& + x^{27} + x^{22} + x^{21} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} + x^9, \\
p_6(x) &= x^{123} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{107} \\
& + x^{106} + x^{103} + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{93} + x^{90} + x^{88} + x^{83} \\
& + x^{78} + x^{73} + x^{71} + x^{69} + x^{68} + x^{66} + x^{64} + x^{63} + x^{59} + x^{58} + x^{54} \\
& + x^{53} + x^{51} + x^{48} + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} \\
& + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{24} + x^{15} + x^{11} \\
& + x^{10} + x^6, \\
p_9(x) &= x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{108} + x^{107} + x^{103} + x^{102} \\
& + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{84} + x^{83} + x^{79} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{64} + x^{63} + x^{60} + x^{55} + x^{54} + x^{53} \\
& + x^{52} + x^{51} + x^{50} + x^{48} + x^{45} + x^{44} + x^{42} + x^{41} + x^{40} + x^{37} + x^{36}
\end{aligned}$$

$$\begin{aligned}
& + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{24} + x^{22} + x^{21} + x^{19} + x^{18} + x^{14} \\
& + x^{12} + x^{11} + x^{10} + x^8 + x^5 + x^3, \\
p_{12}(x) & = x^{121} + x^{116} + x^{101} + x^{96} + x^{41} + x^{36} + x^{25} + x^{21} + x^{20} + x^{16} + x^5 + 1 \\
& ,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) & = x^{138} + x^{136} + x^{134} + x^{126} + x^{120} + x^{116} + x^{110} + x^{106} + x^{104} + x^{102} \\
& + x^{100} + x^{96} + x^{92} + x^{90} + x^{84} + x^{80} + x^{70} + x^{66} + x^{64} + x^{60} + x^{58} \\
& + x^{54} + x^{50} + x^{46} + x^{44} + x^{40} + x^{36}, \\
p_3(x) & = x^{134} + x^{128} + x^{126} + x^{116} + x^{108} + x^{106} + x^{98} + x^{96} + x^{94} + x^{88} \\
& + x^{86} + x^{80} + x^{60} + x^{54} + x^{50} + x^{48} + x^{46} + x^{36} + x^{30} + x^{28} + x^{26} \\
& + x^{18} + x^{16} + x^{14} + x^8 + x^6, \\
p_6(x) & = x^{132} + x^{130} + x^{126} + x^{124} + x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{106} \\
& + x^{104} + x^{100} + x^{96} + x^{94} + x^{90} + x^{84} + x^{82} + x^{76} + x^{70} + x^{66} + x^{64} \\
& + x^{62} + x^{56} + x^{50} + x^{38} + x^{34} + x^{32} + x^{30} + x^{22} + x^{14} + x^{12} + x^6 \\
& + x^2 + 1, \\
p_9(x) & = x^{136} + x^{134} + x^{122} + x^{112} + x^{110} + x^{102} + x^{98} + x^{96} + x^{94} + x^{92} \\
& + x^{90} + x^{88} + x^{86} + x^{74} + x^{64} + x^{62} + x^{56} + x^{50} + x^{44} + x^{34} + x^{32} \\
& + x^{30} + x^{24} + x^{18} + x^{16} + x^{12} + x^8 + x^6 + x^4 + x^2, \\
p_{12}(x) & = x^{136} + x^{96} + x^{56} + x^{40} + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) & = x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{117} + x^{116} + x^{115} + x^{113} + x^{112} \\
& + x^{108} + x^{106} + x^{105} + x^{99} + x^{97} + x^{95} + x^{94} + x^{92} + x^{91} + x^{87} + x^{82} \\
& + x^{81} + x^{80} + x^{79} + x^{69} + x^{67} + x^{65} + x^{63} + x^{61} + x^{60} + x^{57} + x^{56} \\
& + x^{55} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} \\
& + x^{38} + x^{37} + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{25} + x^{24} + x^{23} + x^{21} \\
& + x^{19} + x^{17} + x^{16} + x^{14} + x^{12}, \\
p_3(x) & = x^{125} + x^{124} + x^{123} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{114} + x^{113} \\
& + x^{111} + x^{109} + x^{108} + x^{106} + x^{104} + x^{102} + x^{101} + x^{97} + x^{94} + x^{93} \\
& + x^{92} + x^{88} + x^{85} + x^{80} + x^{75} + x^{71} + x^{70} + x^{69} + x^{68} + x^{66} + x^{64} \\
& + x^{61} + x^{57} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{39} \\
& + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{22} \\
& + x^{20} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{10} + x^8, \\
p_6(x) & = x^{125} + x^{124} + x^{123} + x^{121} + x^{118} + x^{117} + x^{116} + x^{111} + x^{109} + x^{108}
\end{aligned}$$

$$\begin{aligned}
& + x^{107} + x^{106} + x^{105} + x^{103} + x^{101} + x^{99} + x^{94} + x^{93} + x^{88} + x^{85} \\
& + x^{84} + x^{83} + x^{80} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{68} \\
& + x^{65} + x^{63} + x^{61} + x^{59} + x^{58} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{46} \\
& + x^{45} + x^{41} + x^{34} + x^{33} + x^{31} + x^{29} + x^{28} + x^{27} + x^{24} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{14} + x^{11} + x^9 + x^6 + x^5 + x^4 + 1, \\
p_9(x) &= x^{125} + x^{121} + x^{120} + x^{116} + x^{105} + x^{100} + x^{45} + x^{41} + x^{40} + x^{36} \\
& + x^{29} + x^{24} + x^9 + x^4, \\
p_{12}(x) &= x^{125} + x^{120} + x^{105} + x^{101} + x^{100} + x^{96} + x^{45} + x^{40} + x^{29} + x^{25} + x^{24} \\
& + x^{21} + x^{20} + x^{16} + x^9 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{120} + x^{119} + x^{115} + x^{114} + x^{111} + x^{110} + x^{109} + x^{108} \\
& + x^{106} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} + x^{89} + x^{87} \\
& + x^{85} + x^{84} + x^{83} + x^{81} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{71} \\
& + x^{70} + x^{69} + x^{68} + x^{66} + x^{63} + x^{62} + x^{57} + x^{53} + x^{49} + x^{45} + x^{43} \\
& + x^{42} + x^{40} + x^{38} + x^{34} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} \\
& + x^{18}, \\
p_3(x) &= x^{117} + x^{116} + x^{111} + x^{109} + x^{108} + x^{106} + x^{103} + x^{101} + x^{98} + x^{97} \\
& + x^{93} + x^{89} + x^{61} + x^{60} + x^{55} + x^{50} + x^{45} + x^{41} + x^{37} + x^{36} + x^{31} \\
& + x^{29} + x^{28} + x^{26} + x^{23} + x^{21} + x^{18} + x^{17} + x^{13} + x^9, \\
p_6(x) &= x^{118} + x^{116} + x^{114} + x^{112} + x^{106} + x^{102} + x^{98} + x^{94} + x^{90} + x^{88} \\
& + x^{78} + x^{68} + x^{66} + x^{64} + x^{58} + x^{54} + x^{48} + x^{46} + x^{42} + x^{40} + x^{36} \\
& + x^{34} + x^{32} + x^{30} + x^{28} + x^{24} + x^{10} + x^6, \\
p_9(x) &= x^{119} + x^{118} + x^{117} + x^{116} + x^{113} + x^{111} + x^{108} + x^{107} + x^{103} + x^{99} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{33} + x^{31} + x^{28} + x^{27} + x^{22} + x^{21} + x^{20} \\
& + x^{19} + x^{17} + x^{15} + x^{12} + x^{11} + x^7 + x^3, \\
p_{12}(x) &= x^{120} + x^{100} + x^{96} + x^{40} + x^{24} + x^{20} + x^{16} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{137} + x^{136} + x^{133} + x^{131} + x^{129} + x^{127} + x^{125} + x^{123} + x^{121} \\
& + x^{120} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} \\
& + x^{109} + x^{108} + x^{107} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{95} \\
& + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{83} + x^{80} + x^{79} + x^{77} + x^{74} + x^{73} \\
& + x^{72} + x^{71} + x^{70} + x^{67} + x^{66} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} \\
& + x^{49} + x^{47} + x^{45} + x^{44} + x^{43} + x^{39} + x^{35} + x^{33} + x^{31} + x^{29} + x^{26}
\end{aligned}$$

$$\begin{aligned}
& + x^{24}, \\
p_3(x) &= x^{137} + x^{136} + x^{131} + x^{129} + x^{128} + x^{126} + x^{123} + x^{121} + x^{118} + x^{116} \\
& + x^{113} + x^{111} + x^{108} + x^{106} + x^{103} + x^{101} + x^{98} + x^{97} + x^{93} + x^{89} \\
& + x^{81} + x^{80} + x^{75} + x^{70} + x^{65} + x^{60} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} \\
& + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{38} + x^{36} + x^{33} + x^{31} + x^{28} + x^{26} \\
& + x^{23} + x^{21} + x^{18} + x^{17} + x^{13} + x^9, \\
p_6(x) &= x^{138} + x^{136} + x^{134} + x^{132} + x^{126} + x^{122} + x^{116} + x^{112} + x^{110} + x^{108} \\
& + x^{106} + x^{102} + x^{94} + x^{90} + x^{86} + x^{84} + x^{74} + x^{64} + x^{62} + x^{60} + x^{58} \\
& + x^{56} + x^{52} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{28} \\
& + x^{26} + x^{24} + x^{10} + x^6, \\
p_9(x) &= x^{139} + x^{138} + x^{137} + x^{136} + x^{133} + x^{131} + x^{128} + x^{127} + x^{123} + x^{118} \\
& + x^{117} + x^{116} + x^{113} + x^{111} + x^{108} + x^{107} + x^{103} + x^{99} + x^{59} + x^{58} \\
& + x^{57} + x^{56} + x^{53} + x^{51} + x^{48} + x^{47} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} \\
& + x^{35} + x^{33} + x^{32} + x^{28} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{17} + x^{15} \\
& + x^{12} + x^{11} + x^7 + x^3, \\
p_{12}(x) &= x^{140} + x^{116} + x^{100} + x^{96} + x^{60} + x^{44} + x^{36} + x^{16} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{122} + x^{121} + x^{118} + x^{116} + x^{113} + x^{111} + x^{110} + x^{102} + x^{101} \\
& + x^{100} + x^{98} + x^{97} + x^{96} + x^{94} + x^{91} + x^{89} + x^{88} + x^{81} + x^{80} + x^{77} \\
& + x^{76} + x^{73} + x^{71} + x^{69} + x^{64} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} \\
& + x^{54} + x^{51} + x^{50} + x^{48} + x^{46} + x^{44} + x^{42} + x^{37} + x^{30}, \\
p_3(x) &= x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} + x^{110} \\
& + x^{109} + x^{108} + x^{104} + x^{102} + x^{97} + x^{96} + x^{95} + x^{94} + x^{92} + x^{90} \\
& + x^{85} + x^{80} + x^{75} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{62} \\
& + x^{61} + x^{57} + x^{55} + x^{52} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{42} + x^{41} \\
& + x^{39} + x^{34} + x^{33} + x^{32} + x^{31} + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} \\
& + x^{21} + x^{20} + x^{17} + x^{14} + x^{12}, \\
p_6(x) &= x^{125} + x^{124} + x^{121} + x^{119} + x^{117} + x^{116} + x^{114} + x^{109} + x^{108} + x^{105} \\
& + x^{102} + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} + x^{92} + x^{90} + x^{88} + x^{85} + x^{84} \\
& + x^{80} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{66} + x^{65} + x^{61} + x^{56} \\
& + x^{55} + x^{54} + x^{52} + x^{49} + x^{48} + x^{47} + x^{45} + x^{44} + x^{42} + x^{41} + x^{39} \\
& + x^{35} + x^{31} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24} + x^{21} + x^{20} + x^{18} + x^{14} \\
& + x^{13} + x^{12} + x^{10} + x^8 + x^5 + 1, \\
p_9(x) &= x^{125} + x^{121} + x^{120} + x^{116} + x^{105} + x^{100} + x^{45} + x^{41} + x^{40} + x^{36}
\end{aligned}$$

$$\begin{aligned}
& + x^{29} + x^{24} + x^9 + x^4, \\
p_{12}(x) = & x^{125} + x^{120} + x^{105} + x^{101} + x^{100} + x^{96} + x^{45} + x^{40} + x^{29} + x^{25} + x^{24} \\
& + x^{21} + x^{20} + x^{16} + x^9 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{117} + x^{116} + x^{115} + x^{113} + x^{112} \\
& + x^{108} + x^{106} + x^{105} + x^{99} + x^{97} + x^{95} + x^{94} + x^{92} + x^{91} + x^{87} + x^{82} \\
& + x^{81} + x^{80} + x^{79} + x^{69} + x^{67} + x^{65} + x^{63} + x^{61} + x^{60} + x^{57} + x^{56} \\
& + x^{55} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} \\
& + x^{38} + x^{37} + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{25} + x^{24} + x^{23} + x^{21} \\
& + x^{19} + x^{17} + x^{16} + x^{14} + x^{12}, \\
p_3(x) = & x^{125} + x^{124} + x^{123} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{114} + x^{113} \\
& + x^{111} + x^{109} + x^{108} + x^{106} + x^{104} + x^{102} + x^{101} + x^{97} + x^{94} + x^{93} \\
& + x^{92} + x^{88} + x^{85} + x^{80} + x^{75} + x^{71} + x^{70} + x^{69} + x^{68} + x^{66} + x^{64} \\
& + x^{61} + x^{57} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{39} \\
& + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{22} \\
& + x^{20} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{10} + x^8, \\
p_6(x) = & x^{125} + x^{124} + x^{123} + x^{121} + x^{118} + x^{117} + x^{116} + x^{111} + x^{109} + x^{108} \\
& + x^{107} + x^{106} + x^{105} + x^{103} + x^{101} + x^{99} + x^{94} + x^{93} + x^{88} + x^{85} \\
& + x^{84} + x^{83} + x^{80} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{68} \\
& + x^{65} + x^{63} + x^{61} + x^{59} + x^{58} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{46} \\
& + x^{45} + x^{41} + x^{34} + x^{33} + x^{31} + x^{29} + x^{28} + x^{27} + x^{24} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{14} + x^{11} + x^9 + x^6 + x^5 + x^4 + 1, \\
p_9(x) = & x^{125} + x^{121} + x^{120} + x^{116} + x^{105} + x^{100} + x^{45} + x^{41} + x^{40} + x^{36} \\
& + x^{29} + x^{24} + x^9 + x^4, \\
p_{12}(x) = & x^{125} + x^{120} + x^{105} + x^{101} + x^{100} + x^{96} + x^{45} + x^{40} + x^{29} + x^{25} + x^{24} \\
& + x^{21} + x^{20} + x^{16} + x^9 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{137} + x^{136} + x^{133} + x^{131} + x^{129} + x^{127} + x^{125} + x^{123} + x^{121} \\
& + x^{120} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} \\
& + x^{109} + x^{108} + x^{107} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{95} \\
& + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{83} + x^{80} + x^{79} + x^{77} + x^{74} + x^{73} \\
& + x^{72} + x^{71} + x^{70} + x^{67} + x^{66} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} \\
& + x^{49} + x^{47} + x^{45} + x^{44} + x^{43} + x^{39} + x^{35} + x^{33} + x^{31} + x^{29} + x^{26}
\end{aligned}$$

$$\begin{aligned}
& + x^{24}, \\
p_3(x) &= x^{137} + x^{136} + x^{131} + x^{129} + x^{128} + x^{126} + x^{123} + x^{121} + x^{118} + x^{116} \\
& + x^{113} + x^{111} + x^{108} + x^{106} + x^{103} + x^{101} + x^{98} + x^{97} + x^{93} + x^{89} \\
& + x^{81} + x^{80} + x^{75} + x^{70} + x^{65} + x^{60} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} \\
& + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{38} + x^{36} + x^{33} + x^{31} + x^{28} + x^{26} \\
& + x^{23} + x^{21} + x^{18} + x^{17} + x^{13} + x^9, \\
p_6(x) &= x^{138} + x^{136} + x^{134} + x^{132} + x^{126} + x^{122} + x^{116} + x^{112} + x^{110} + x^{108} \\
& + x^{106} + x^{102} + x^{94} + x^{90} + x^{86} + x^{84} + x^{74} + x^{64} + x^{62} + x^{60} + x^{58} \\
& + x^{56} + x^{52} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{28} \\
& + x^{26} + x^{24} + x^{10} + x^6, \\
p_9(x) &= x^{139} + x^{138} + x^{137} + x^{136} + x^{133} + x^{131} + x^{128} + x^{127} + x^{123} + x^{118} \\
& + x^{117} + x^{116} + x^{113} + x^{111} + x^{108} + x^{107} + x^{103} + x^{99} + x^{59} + x^{58} \\
& + x^{57} + x^{56} + x^{53} + x^{51} + x^{48} + x^{47} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} \\
& + x^{35} + x^{33} + x^{32} + x^{28} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{17} + x^{15} \\
& + x^{12} + x^{11} + x^7 + x^3, \\
p_{12}(x) &= x^{140} + x^{116} + x^{100} + x^{96} + x^{60} + x^{44} + x^{36} + x^{16} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{120} + x^{119} + x^{115} + x^{114} + x^{111} + x^{110} + x^{109} + x^{108} \\
& + x^{106} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} + x^{89} + x^{87} \\
& + x^{85} + x^{84} + x^{83} + x^{81} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{71} \\
& + x^{70} + x^{69} + x^{68} + x^{66} + x^{63} + x^{62} + x^{57} + x^{53} + x^{49} + x^{45} + x^{43} \\
& + x^{42} + x^{40} + x^{38} + x^{34} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} \\
& + x^{18}, \\
p_3(x) &= x^{117} + x^{116} + x^{111} + x^{109} + x^{108} + x^{106} + x^{103} + x^{101} + x^{98} + x^{97} \\
& + x^{93} + x^{89} + x^{61} + x^{60} + x^{55} + x^{50} + x^{45} + x^{41} + x^{37} + x^{36} + x^{31} \\
& + x^{29} + x^{28} + x^{26} + x^{23} + x^{21} + x^{18} + x^{17} + x^{13} + x^9, \\
p_6(x) &= x^{118} + x^{116} + x^{114} + x^{112} + x^{106} + x^{102} + x^{98} + x^{94} + x^{90} + x^{88} \\
& + x^{78} + x^{68} + x^{66} + x^{64} + x^{58} + x^{54} + x^{48} + x^{46} + x^{42} + x^{40} + x^{36} \\
& + x^{34} + x^{32} + x^{30} + x^{28} + x^{24} + x^{10} + x^6, \\
p_9(x) &= x^{119} + x^{118} + x^{117} + x^{116} + x^{113} + x^{111} + x^{108} + x^{107} + x^{103} + x^{99} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{33} + x^{31} + x^{28} + x^{27} + x^{22} + x^{21} + x^{20} \\
& + x^{19} + x^{17} + x^{15} + x^{12} + x^{11} + x^7 + x^3, \\
p_{12}(x) &= x^{120} + x^{100} + x^{96} + x^{40} + x^{24} + x^{20} + x^{16} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{122} + x^{121} + x^{118} + x^{116} + x^{113} + x^{111} + x^{110} + x^{102} + x^{101} \\
&\quad + x^{100} + x^{98} + x^{97} + x^{96} + x^{94} + x^{91} + x^{89} + x^{88} + x^{81} + x^{80} + x^{77} \\
&\quad + x^{76} + x^{73} + x^{71} + x^{69} + x^{64} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} \\
&\quad + x^{54} + x^{51} + x^{50} + x^{48} + x^{46} + x^{44} + x^{42} + x^{37} + x^{30}, \\
p_3(x) &= x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} + x^{110} \\
&\quad + x^{109} + x^{108} + x^{104} + x^{102} + x^{97} + x^{96} + x^{95} + x^{94} + x^{92} + x^{90} \\
&\quad + x^{85} + x^{80} + x^{75} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{62} \\
&\quad + x^{61} + x^{57} + x^{55} + x^{52} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{42} + x^{41} \\
&\quad + x^{39} + x^{34} + x^{33} + x^{32} + x^{31} + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} \\
&\quad + x^{21} + x^{20} + x^{17} + x^{14} + x^{12}, \\
p_6(x) &= x^{125} + x^{124} + x^{121} + x^{119} + x^{117} + x^{116} + x^{114} + x^{109} + x^{108} + x^{105} \\
&\quad + x^{102} + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} + x^{92} + x^{90} + x^{88} + x^{85} + x^{84} \\
&\quad + x^{80} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{66} + x^{65} + x^{61} + x^{56} \\
&\quad + x^{55} + x^{54} + x^{52} + x^{49} + x^{48} + x^{47} + x^{45} + x^{44} + x^{42} + x^{41} + x^{39} \\
&\quad + x^{35} + x^{31} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24} + x^{21} + x^{20} + x^{18} + x^{14} \\
&\quad + x^{13} + x^{12} + x^{10} + x^8 + x^5 + 1, \\
p_9(x) &= x^{125} + x^{121} + x^{120} + x^{116} + x^{105} + x^{100} + x^{45} + x^{41} + x^{40} + x^{36} \\
&\quad + x^{29} + x^{24} + x^9 + x^4, \\
p_{12}(x) &= x^{125} + x^{120} + x^{105} + x^{101} + x^{100} + x^{96} + x^{45} + x^{40} + x^{29} + x^{25} + x^{24} \\
&\quad + x^{21} + x^{20} + x^{16} + x^9 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2017	[3134, 2619]	4034	[3567, 5330]	6051	[4840, 6869]
1	[3, 4]	2018	[2747, 3135]	4035	[5331, 5219]	6052	[4177, 1891]
2	[5, 6]	2019	[3136, 2577]	4036	[5332, 393]	6053	[192, 2016]
3	[7, 8]	2020	[3074, 2527]	4037	[5333, 451]	6054	[4478, 4528]
4	[9, 10]	2021	[2873, 3137]	4038	[5334, 1317]	6055	[6947, 4689]
5	[11, 12]	2022	[2934, 3058]	4039	[5335, 5336]	6056	[635, 6915]
6	[13, 14]	2023	[1291, 78]	4040	[5337, 1034]	6057	[6948, 1996]
7	[15, 16]	2024	[3138, 290]	4041	[1015, 1163]	6058	[1632, 4577]
8	[17, 18]	2025	[3139, 1373]	4042	[5338, 2911]	6059	[4429, 6185]
9	[19, 20]	2026	[2952, 3140]	4043	[5339, 313]	6060	[6949, 6664]
10	[21, 22]	2027	[3141, 2919]	4044	[2780, 465]	6061	[3899, 2183]
11	[23, 24]	2028	[3142, 3143]	4045	[5340, 1425]	6062	[4821, 6477]

12	[25, 26]	2029	[3144, 1268]	4046	[5341, 3365]	6063	[6950, 3791]
13	[27, 28]	2030	[3145, 1568]	4047	[5342, 3479]	6064	[4779, 2193]
14	[29, 30]	2031	[917, 3146]	4048	[3706, 3441]	6065	[6881, 4477]
15	[31, 32]	2032	[3147, 3148]	4049	[5343, 3634]	6066	[4218, 4092]
16	[33, 34]	2033	[3149, 1123]	4050	[5344, 1271]	6067	[6951, 5010]
17	[35, 36]	2034	[1335, 3150]	4051	[2564, 5345]	6068	[6952, 2078]
18	[37, 38]	2035	[3151, 3072]	4052	[5346, 968]	6069	[6953, 4030]
19	[39, 40]	2036	[3152, 987]	4053	[1520, 898]	6070	[6954, 6201]
20	[41, 42]	2037	[3153, 3154]	4054	[5347, 1069]	6071	[6694, 4056]
21	[43, 44]	2038	[345, 3155]	4055	[5348, 5349]	6072	[6955, 2324]
22	[45, 46]	2039	[1000, 985]	4056	[5350, 5351]	6073	[6956, 4532]
23	[47, 48]	2040	[3156, 954]	4057	[5110, 5352]	6074	[6957, 4707]
24	[49, 50]	2041	[3157, 3158]	4058	[5353, 5354]	6075	[6958, 4983]
25	[51, 52]	2042	[3159, 3160]	4059	[3070, 3497]	6076	[6959, 3834]
26	[53, 54]	2043	[3161, 3162]	4060	[5355, 5072]	6077	[3990, 4414]
27	[55, 56]	2044	[3162, 1115]	4061	[5356, 3059]	6078	[6960, 238]
28	[57, 58]	2045	[3163, 3164]	4062	[5357, 5068]	6079	[6961, 4801]
29	[59, 60]	2046	[283, 2682]	4063	[5358, 3618]	6080	[2065, 3805]
30	[61, 62]	2047	[1185, 3165]	4064	[5359, 3131]	6081	[6962, 4873]
31	[63, 64]	2048	[3166, 1404]	4065	[5360, 5361]	6082	[6963, 213]
32	[65, 66]	2049	[3167, 3168]	4066	[5362, 5363]	6083	[4935, 6306]
33	[66, 67]	2050	[3169, 298]	4067	[5364, 2652]	6084	[4406, 4613]
34	[68, 69]	2051	[3170, 3171]	4068	[2817, 3046]	6085	[6964, 6511]
35	[70, 71]	2052	[3172, 3173]	4069	[5365, 3470]	6086	[6965, 1624]
36	[72, 73]	2053	[3174, 3175]	4070	[5188, 5144]	6087	[1721, 4446]
37	[74, 75]	2054	[1500, 3176]	4071	[2639, 5366]	6088	[6966, 4812]
38	[76, 77]	2055	[3177, 1318]	4072	[3468, 5367]	6089	[6470, 4753]
39	[78, 79]	2056	[1343, 3178]	4073	[1075, 5368]	6090	[6915, 6238]
40	[80, 81]	2057	[3179, 1290]	4074	[5369, 5370]	6091	[6869, 3867]
41	[82, 83]	2058	[3180, 3153]	4075	[5371, 1225]	6092	[6967, 786]
42	[84, 85]	2059	[3181, 3182]	4076	[5372, 5107]	6093	[6968, 4966]
43	[86, 87]	2060	[3183, 3184]	4077	[5373, 24]	6094	[6511, 1782]
44	[88, 89]	2061	[3185, 2988]	4078	[5374, 5375]	6095	[4402, 2346]
45	[90, 91]	2062	[3186, 3187]	4079	[3609, 2616]	6096	[6969, 516]
46	[92, 93]	2063	[3188, 3172]	4080	[2568, 2622]	6097	[4066, 6970]
47	[94, 95]	2064	[3189, 1447]	4081	[5376, 1120]	6098	[6971, 4265]
48	[96, 97]	2065	[3190, 3191]	4082	[5377, 1459]	6099	[6972, 6767]
49	[98, 99]	2066	[3192, 2944]	4083	[5378, 1342]	6100	[4514, 1774]
50	[100, 101]	2067	[3193, 2956]	4084	[5379, 3434]	6101	[6973, 4251]
51	[102, 103]	2068	[3194, 2963]	4085	[5380, 5381]	6102	[6974, 2161]
52	[104, 105]	2069	[2583, 1102]	4086	[5382, 3316]	6103	[564, 6826]
53	[106, 107]	2070	[3195, 1036]	4087	[3380, 108]	6104	[6975, 6844]
54	[108, 109]	2071	[3196, 3197]	4088	[5383, 3602]	6105	[6976, 6977]
55	[110, 111]	2072	[337, 434]	4089	[5384, 5307]	6106	[6827, 6407]

56	[112, 113]	2073	[3198, 327]	4090	[5385, 5176]	6107	[744, 2255]
57	[114, 115]	2074	[3199, 3200]	4091	[1017, 1352]	6108	[6978, 6630]
58	[116, 117]	2075	[3201, 3142]	4092	[5386, 100]	6109	[3890, 2186]
59	[118, 119]	2076	[2730, 364]	4093	[5387, 262]	6110	[746, 6979]
60	[120, 121]	2077	[3202, 3203]	4094	[5388, 3146]	6111	[6980, 6446]
61	[122, 123]	2078	[3204, 3205]	4095	[5389, 5390]	6112	[6981, 721]
62	[124, 125]	2079	[1241, 3206]	4096	[5391, 3013]	6113	[6982, 1993]
63	[126, 127]	2080	[3207, 3208]	4097	[5392, 1087]	6114	[6983, 4516]
64	[128, 129]	2081	[3209, 3210]	4098	[5393, 3458]	6115	[2487, 4009]
65	[130, 131]	2082	[3211, 1038]	4099	[5394, 3205]	6116	[6984, 4706]
66	[132, 133]	2083	[3212, 1507]	4100	[2585, 5395]	6117	[6808, 6803]
67	[131, 134]	2084	[3213, 3214]	4101	[5396, 5397]	6118	[6985, 2380]
68	[135, 136]	2085	[3215, 3216]	4102	[5398, 3482]	6119	[6925, 6363]
69	[137, 138]	2086	[3217, 3218]	4103	[5399, 5400]	6120	[6986, 4669]
70	[139, 140]	2087	[401, 1092]	4104	[3131, 2601]	6121	[6987, 4753]
71	[141, 142]	2088	[3219, 3220]	4105	[5401, 3475]	6122	[6988, 4528]
72	[143, 144]	2089	[3035, 2855]	4106	[5402, 904]	6123	[4022, 6736]
73	[145, 146]	2090	[459, 3221]	4107	[5403, 3326]	6124	[6989, 6990]
74	[147, 148]	2091	[1321, 2545]	4108	[5404, 5405]	6125	[6991, 603]
75	[149, 150]	2092	[3222, 1150]	4109	[1004, 5406]	6126	[2310, 2206]
76	[151, 152]	2093	[3223, 1321]	4110	[5407, 2883]	6127	[1731, 6227]
77	[153, 154]	2094	[2852, 2892]	4111	[293, 3482]	6128	[664, 3886]
78	[155, 156]	2095	[3224, 3225]	4112	[1569, 3414]	6129	[6992, 4367]
79	[157, 158]	2096	[3226, 3227]	4113	[5408, 5175]	6130	[6876, 2129]
80	[159, 160]	2097	[3228, 1386]	4114	[5409, 359]	6131	[3766, 4129]
81	[161, 162]	2098	[3229, 1094]	4115	[83, 5410]	6132	[2070, 2256]
82	[163, 164]	2099	[3230, 3231]	4116	[5411, 3705]	6133	[6993, 4543]
83	[165, 166]	2100	[3232, 3233]	4117	[5412, 325]	6134	[6994, 2115]
84	[167, 168]	2101	[3042, 1432]	4118	[909, 1365]	6135	[6995, 5016]
85	[169, 170]	2102	[3234, 15]	4119	[5413, 3565]	6136	[6996, 3899]
86	[171, 172]	2103	[3235, 3236]	4120	[5414, 2591]	6137	[6997, 6998]
87	[173, 174]	2104	[3237, 3238]	4121	[5415, 288]	6138	[6999, 4674]
88	[175, 176]	2105	[3239, 3240]	4122	[5416, 1392]	6139	[235, 2253]
89	[177, 178]	2106	[1419, 103]	4123	[3442, 5417]	6140	[7000, 6778]
90	[179, 180]	2107	[382, 387]	4124	[3014, 3236]	6141	[4504, 2315]
91	[38, 181]	2108	[3241, 2763]	4125	[2720, 5418]	6142	[7001, 2407]
92	[182, 183]	2109	[3242, 2930]	4126	[2731, 5419]	6143	[7002, 4437]
93	[184, 130]	2110	[3243, 3244]	4127	[3708, 1207]	6144	[6291, 6473]
94	[185, 186]	2111	[3245, 3246]	4128	[5420, 1374]	6145	[7003, 2391]
95	[187, 188]	2112	[1026, 3247]	4129	[5421, 5095]	6146	[4673, 4303]
96	[189, 190]	2113	[3248, 3091]	4130	[2688, 2946]	6147	[5016, 2250]
97	[191, 192]	2114	[3249, 1020]	4131	[2735, 3098]	6148	[4326, 1713]
98	[193, 194]	2115	[2837, 3250]	4132	[3432, 5142]	6149	[7004, 762]
99	[195, 196]	2116	[3251, 928]	4133	[420, 3632]	6150	[7005, 4768]

100	[197, 198]	2117	[3252, 2906]	4134	[5422, 3432]	6151	[7006, 4510]
101	[199, 200]	2118	[3253, 1116]	4135	[5423, 3518]	6152	[7007, 668]
102	[201, 202]	2119	[1337, 3254]	4136	[5424, 912]	6153	[626, 3972]
103	[203, 204]	2120	[3255, 3256]	4137	[26, 276]	6154	[6759, 6782]
104	[205, 206]	2121	[3257, 2599]	4138	[5425, 991]	6155	[7008, 2356]
105	[207, 208]	2122	[3258, 3259]	4139	[5426, 3350]	6156	[7009, 4745]
106	[209, 210]	2123	[3260, 3261]	4140	[5427, 3658]	6157	[3092, 6041]
107	[211, 212]	2124	[3262, 2610]	4141	[5345, 5428]	6158	[1219, 3562]
108	[213, 214]	2125	[3263, 3264]	4142	[1540, 27]	6159	[7010, 335]
109	[215, 216]	2126	[3265, 1346]	4143	[2530, 975]	6160	[7011, 1039]
110	[217, 218]	2127	[3158, 477]	4144	[5429, 3330]	6161	[5946, 294]
111	[219, 220]	2128	[3266, 3267]	4145	[5430, 5428]	6162	[7012, 1543]
112	[221, 62]	2129	[3268, 3269]	4146	[5431, 3219]	6163	[3291, 3551]
113	[222, 223]	2130	[2582, 3270]	4147	[1176, 5362]	6164	[6164, 6164]
114	[224, 225]	2131	[3271, 3272]	4148	[5432, 3495]	6165	[7013, 5576]
115	[226, 227]	2132	[3273, 2929]	4149	[5433, 2850]	6166	[7014, 1515]
116	[228, 229]	2133	[397, 2590]	4150	[2773, 5434]	6167	[7015, 1078]
117	[230, 231]	2134	[3274, 3275]	4151	[5435, 931]	6168	[7016, 5525]
118	[232, 233]	2135	[3187, 3276]	4152	[3359, 5436]	6169	[7017, 1439]
119	[234, 235]	2136	[3277, 3278]	4153	[5050, 5437]	6170	[7018, 5238]
120	[236, 237]	2137	[3279, 3280]	4154	[5438, 3149]	6171	[7019, 1255]
121	[238, 239]	2138	[3281, 3282]	4155	[2940, 5186]	6172	[7020, 2838]
122	[240, 241]	2139	[1064, 3283]	4156	[5439, 2868]	6173	[7021, 2584]
123	[242, 243]	2140	[1442, 1492]	4157	[5440, 2760]	6174	[7022, 67]
124	[244, 245]	2141	[3284, 1217]	4158	[5441, 5442]	6175	[7023, 3083]
125	[246, 247]	2142	[3285, 1563]	4159	[5443, 1549]	6176	[2771, 2813]
126	[248, 249]	2143	[1529, 3286]	4160	[5444, 5369]	6177	[7024, 7025]
127	[250, 251]	2144	[3287, 1201]	4161	[5445, 1158]	6178	[7026, 1279]
128	[252, 253]	2145	[3288, 1331]	4162	[5446, 5447]	6179	[5112, 5561]
129	[254, 255]	2146	[3289, 3270]	4163	[5297, 3331]	6180	[7027, 3410]
130	[256, 257]	2147	[3290, 3291]	4164	[5448, 1521]	6181	[7028, 3176]
131	[258, 259]	2148	[3292, 1044]	4165	[5449, 1177]	6182	[7029, 2912]
132	[260, 261]	2149	[255, 2961]	4166	[5450, 5451]	6183	[7030, 2790]
133	[262, 263]	2150	[3293, 3294]	4167	[91, 1152]	6184	[5224, 7031]
134	[257, 264]	2151	[1274, 3295]	4168	[1564, 3419]	6185	[7032, 391]
135	[265, 266]	2152	[3296, 1443]	4169	[2537, 5452]	6186	[7033, 974]
136	[71, 267]	2153	[3297, 1049]	4170	[5453, 982]	6187	[7034, 5609]
137	[268, 269]	2154	[3298, 1072]	4171	[5454, 1077]	6188	[2551, 3341]
138	[270, 271]	2155	[3299, 3300]	4172	[5455, 2998]	6189	[7035, 5821]
139	[272, 273]	2156	[3301, 3302]	4173	[5282, 2541]	6190	[7036, 1272]
140	[274, 275]	2157	[3303, 998]	4174	[5456, 5370]	6191	[7037, 5922]
141	[276, 277]	2158	[3304, 3305]	4175	[5457, 5415]	6192	[7038, 1397]
142	[278, 279]	2159	[3306, 3124]	4176	[1088, 5458]	6193	[7039, 3008]
143	[280, 281]	2160	[3307, 3308]	4177	[2821, 65]	6194	[3082, 5329]

144	[282, 283]	2161	[1224, 3309]	4178	[5459, 1029]	6195	[3474, 3471]
145	[284, 285]	2162	[3310, 3311]	4179	[2959, 5460]	6196	[5329, 5365]
146	[286, 287]	2163	[3312, 3313]	4180	[5461, 2631]	6197	[3494, 5713]
147	[288, 289]	2164	[3314, 3315]	4181	[5428, 5462]	6198	[5741, 3225]
148	[290, 291]	2165	[3316, 3317]	4182	[5463, 3661]	6199	[5405, 5128]
149	[292, 293]	2166	[3318, 1202]	4183	[5464, 3167]	6200	[1531, 1316]
150	[294, 295]	2167	[2690, 3319]	4184	[5073, 5465]	6201	[7040, 5633]
151	[296, 297]	2168	[3320, 2627]	4185	[1097, 323]	6202	[7041, 1172]
152	[298, 299]	2169	[3321, 1100]	4186	[992, 3700]	6203	[7042, 1487]
153	[300, 301]	2170	[3322, 1435]	4187	[5466, 95]	6204	[2810, 5202]
154	[302, 303]	2171	[3323, 3324]	4188	[965, 1381]	6205	[5058, 3078]
155	[304, 305]	2172	[3325, 3326]	4189	[2674, 3171]	6206	[7043, 434]
156	[306, 307]	2173	[3327, 3328]	4190	[5318, 5467]	6207	[2967, 2612]
157	[308, 309]	2174	[3326, 274]	4191	[5370, 5468]	6208	[275, 6113]
158	[310, 311]	2175	[2657, 3329]	4192	[405, 5369]	6209	[5271, 7044]
159	[312, 313]	2176	[1062, 3330]	4193	[1042, 5469]	6210	[7045, 2739]
160	[314, 315]	2177	[3331, 3332]	4194	[3674, 2531]	6211	[7046, 1006]
161	[316, 317]	2178	[3333, 3334]	4195	[5176, 5470]	6212	[7047, 5384]
162	[318, 319]	2179	[3335, 1288]	4196	[5471, 453]	6213	[1447, 5415]
163	[320, 321]	2180	[3336, 3337]	4197	[5472, 2800]	6214	[7048, 5993]
164	[322, 323]	2181	[3338, 3339]	4198	[5473, 5474]	6215	[7049, 1275]
165	[324, 325]	2182	[3340, 3341]	4199	[1034, 3434]	6216	[7050, 2589]
166	[326, 327]	2183	[3342, 2621]	4200	[3518, 3175]	6217	[460, 941]
167	[328, 329]	2184	[3343, 2951]	4201	[5475, 5417]	6218	[1110, 1125]
168	[330, 331]	2185	[3344, 1232]	4202	[5476, 3301]	6219	[7051, 5607]
169	[332, 333]	2186	[3345, 454]	4203	[1483, 3273]	6220	[7052, 5344]
170	[334, 335]	2187	[1545, 3346]	4204	[5477, 2989]	6221	[7053, 2537]
171	[336, 337]	2188	[3347, 1520]	4205	[5478, 3537]	6222	[7054, 5395]
172	[338, 339]	2189	[3348, 3349]	4206	[5479, 5480]	6223	[7055, 1145]
173	[340, 341]	2190	[3350, 3351]	4207	[5481, 5294]	6224	[3286, 5741]
174	[342, 343]	2191	[3352, 2930]	4208	[5482, 418]	6225	[7056, 3683]
175	[344, 345]	2192	[3353, 3354]	4209	[5483, 1393]	6226	[7057, 435]
176	[346, 347]	2193	[3355, 3347]	4210	[5484, 5145]	6227	[7058, 7059]
177	[348, 349]	2194	[3356, 3076]	4211	[5485, 5486]	6228	[7060, 1401]
178	[350, 351]	2195	[3357, 3314]	4212	[1409, 3593]	6229	[3601, 5596]
179	[352, 353]	2196	[3358, 3359]	4213	[1239, 414]	6230	[2555, 3420]
180	[354, 355]	2197	[3360, 1030]	4214	[2617, 2610]	6231	[3027, 5603]
181	[356, 357]	2198	[1468, 385]	4215	[1381, 5349]	6232	[7061, 1223]
182	[358, 359]	2199	[3361, 3362]	4216	[3218, 5487]	6233	[7062, 1224]
183	[360, 361]	2200	[3036, 3363]	4217	[5488, 2712]	6234	[7063, 3117]
184	[362, 258]	2201	[3364, 2664]	4218	[1069, 5489]	6235	[447, 2595]
185	[363, 364]	2202	[3365, 1242]	4219	[5490, 465]	6236	[2992, 2740]
186	[365, 366]	2203	[1364, 3366]	4220	[5491, 5492]	6237	[7064, 903]
187	[367, 368]	2204	[3367, 369]	4221	[5493, 1185]	6238	[7065, 3598]

188	[369, 370]	2205	[3096, 3368]	4222	[5494, 1199]	6239	[7066, 2903]
189	[371, 372]	2206	[3369, 3370]	4223	[5495, 1170]	6240	[7067, 461]
190	[373, 374]	2207	[3371, 315]	4224	[5096, 105]	6241	[453, 7068]
191	[375, 376]	2208	[3372, 2813]	4225	[5496, 1136]	6242	[7069, 7070]
192	[377, 378]	2209	[2890, 2536]	4226	[5497, 3241]	6243	[7071, 3213]
193	[379, 380]	2210	[3373, 3285]	4227	[5498, 933]	6244	[7072, 2659]
194	[381, 382]	2211	[1125, 3374]	4228	[5499, 934]	6245	[7073, 5674]
195	[383, 384]	2212	[3375, 2691]	4229	[361, 5131]	6246	[1287, 908]
196	[385, 386]	2213	[3376, 3377]	4230	[5129, 5084]	6247	[7074, 1179]
197	[387, 388]	2214	[3378, 3379]	4231	[5158, 332]	6248	[7075, 2591]
198	[389, 390]	2215	[2920, 3380]	4232	[5500, 1247]	6249	[7076, 430]
199	[391, 392]	2216	[3381, 3382]	4233	[5501, 5502]	6250	[3040, 5414]
200	[393, 394]	2217	[2902, 3383]	4234	[3354, 2823]	6251	[2929, 6010]
201	[395, 271]	2218	[3384, 3385]	4235	[5503, 1156]	6252	[7077, 2992]
202	[396, 397]	2219	[370, 3386]	4236	[5504, 2910]	6253	[7078, 2828]
203	[398, 399]	2220	[3387, 3302]	4237	[1252, 3546]	6254	[7079, 3413]
204	[400, 401]	2221	[3388, 3389]	4238	[374, 3530]	6255	[390, 7059]
205	[402, 403]	2222	[1164, 1241]	4239	[5244, 328]	6256	[1250, 3440]
206	[404, 405]	2223	[2855, 3215]	4240	[5505, 5410]	6257	[7080, 3230]
207	[406, 407]	2224	[3390, 1213]	4241	[3589, 3044]	6258	[1199, 3042]
208	[408, 304]	2225	[3391, 1498]	4242	[1497, 425]	6259	[467, 5912]
209	[409, 410]	2226	[3392, 3393]	4243	[5506, 2765]	6260	[7081, 1119]
210	[411, 412]	2227	[3394, 957]	4244	[5507, 2573]	6261	[1384, 5552]
211	[413, 414]	2228	[1315, 3395]	4245	[3694, 5508]	6262	[7082, 2881]
212	[415, 416]	2229	[3396, 2687]	4246	[5509, 924]	6263	[7083, 7084]
213	[417, 418]	2230	[3397, 3398]	4247	[5510, 1249]	6264	[7085, 3317]
214	[419, 420]	2231	[3399, 470]	4248	[5511, 977]	6265	[5697, 5059]
215	[421, 422]	2232	[1562, 2784]	4249	[5512, 5513]	6266	[7086, 3278]
216	[423, 424]	2233	[3400, 3401]	4250	[1415, 5514]	6267	[7087, 400]
217	[425, 314]	2234	[3402, 963]	4251	[5515, 5516]	6268	[3692, 5383]
218	[426, 427]	2235	[3403, 1548]	4252	[3393, 1552]	6269	[3313, 1016]
219	[428, 429]	2236	[3404, 3405]	4253	[5517, 3535]	6270	[1116, 6007]
220	[430, 431]	2237	[3406, 3406]	4254	[5518, 5049]	6271	[7088, 3409]
221	[432, 433]	2238	[3407, 3408]	4255	[5519, 275]	6272	[7089, 5640]
222	[434, 435]	2239	[3409, 3410]	4256	[5520, 3483]	6273	[7090, 5053]
223	[436, 437]	2240	[3411, 2933]	4257	[5521, 2648]	6274	[7091, 3399]
224	[438, 360]	2241	[3412, 1547]	4258	[2566, 252]	6275	[7025, 5319]
225	[439, 440]	2242	[2790, 3413]	4259	[5522, 1106]	6276	[7092, 1193]
226	[441, 442]	2243	[3414, 3415]	4260	[5523, 3426]	6277	[7093, 5534]
227	[85, 443]	2244	[2699, 2615]	4261	[5524, 5060]	6278	[5035, 1396]
228	[444, 445]	2245	[3416, 1515]	4262	[1502, 5525]	6279	[7094, 5061]
229	[446, 447]	2246	[3417, 3418]	4263	[5526, 2967]	6280	[7095, 5881]
230	[448, 449]	2247	[3419, 2647]	4264	[5527, 5528]	6281	[2808, 3490]
231	[450, 451]	2248	[3420, 2577]	4265	[5529, 5530]	6282	[7096, 3242]

232	[452, 453]	2249	[399, 1318]	4266	[5531, 5532]	6283	[3247, 1285]
233	[454, 455]	2250	[3421, 1320]	4267	[3164, 5533]	6284	[435, 916]
234	[456, 457]	2251	[3422, 1434]	4268	[5307, 5534]	6285	[5846, 5402]
235	[458, 459]	2252	[1508, 3423]	4269	[1212, 3669]	6286	[7097, 5432]
236	[267, 460]	2253	[3424, 3425]	4270	[5535, 278]	6287	[3054, 5432]
237	[461, 462]	2254	[3426, 2754]	4271	[5536, 3164]	6288	[7098, 3585]
238	[463, 464]	2255	[3427, 23]	4272	[5537, 2868]	6289	[3553, 5285]
239	[465, 298]	2256	[3428, 3429]	4273	[5538, 2611]	6290	[7099, 5623]
240	[466, 467]	2257	[3430, 3431]	4274	[5539, 5540]	6291	[7100, 5070]
241	[468, 469]	2258	[3029, 3101]	4275	[5541, 5542]	6292	[3370, 7101]
242	[470, 471]	2259	[3160, 3432]	4276	[1332, 5543]	6293	[7102, 7103]
243	[472, 473]	2260	[3433, 420]	4277	[5544, 973]	6294	[7104, 892]
244	[474, 475]	2261	[3434, 3192]	4278	[5545, 5366]	6295	[7105, 5276]
245	[476, 86]	2262	[366, 2606]	4279	[5546, 3519]	6296	[1043, 3219]
246	[477, 478]	2263	[295, 3435]	4280	[5547, 5548]	6297	[5193, 2560]
247	[479, 480]	2264	[3436, 2630]	4281	[5549, 1480]	6298	[7106, 3383]
248	[481, 482]	2265	[3437, 1001]	4282	[5550, 1369]	6299	[2835, 5877]
249	[483, 484]	2266	[3438, 2742]	4283	[3368, 3627]	6300	[5976, 1512]
250	[485, 486]	2267	[3439, 3440]	4284	[5551, 5552]	6301	[5368, 5192]
251	[487, 49]	2268	[3441, 3442]	4285	[5452, 5553]	6302	[5821, 5146]
252	[488, 489]	2269	[3443, 3284]	4286	[2714, 3211]	6303	[7107, 1400]
253	[490, 491]	2270	[1518, 3282]	4287	[5554, 94]	6304	[7108, 2945]
254	[492, 493]	2271	[3444, 3445]	4288	[5555, 479]	6305	[7109, 3019]
255	[494, 495]	2272	[3446, 993]	4289	[5556, 5196]	6306	[7110, 7111]
256	[239, 496]	2273	[3447, 3448]	4290	[3606, 3089]	6307	[2775, 5619]
257	[497, 498]	2274	[3309, 377]	4291	[2955, 3586]	6308	[3018, 7070]
258	[499, 500]	2275	[3449, 3450]	4292	[2540, 5557]	6309	[3050, 6102]
259	[501, 502]	2276	[392, 3451]	4293	[2903, 5331]	6310	[2652, 5287]
260	[10, 503]	2277	[2534, 1361]	4294	[5558, 3711]	6311	[7112, 1326]
261	[504, 505]	2278	[3452, 3453]	4295	[5559, 2581]	6312	[7113, 5222]
262	[506, 507]	2279	[3454, 3455]	4296	[5560, 5561]	6313	[7114, 351]
263	[508, 509]	2280	[3456, 1525]	4297	[5562, 1405]	6314	[3020, 997]
264	[496, 152]	2281	[3113, 2774]	4298	[5563, 5564]	6315	[7115, 252]
265	[510, 511]	2282	[1551, 3370]	4299	[5565, 5462]	6316	[431, 7116]
266	[512, 166]	2283	[3457, 3458]	4300	[5400, 5238]	6317	[7117, 917]
267	[140, 513]	2284	[3459, 3460]	4301	[5566, 3351]	6318	[7118, 285]
268	[514, 515]	2285	[3461, 3462]	4302	[5567, 2876]	6319	[7119, 1330]
269	[516, 517]	2286	[1437, 1249]	4303	[5568, 5569]	6320	[289, 2900]
270	[518, 519]	2287	[1476, 3010]	4304	[3458, 5384]	6321	[7120, 2805]
271	[520, 521]	2288	[3137, 3463]	4305	[5354, 1337]	6322	[1106, 7121]
272	[522, 523]	2289	[3464, 2778]	4306	[5570, 5571]	6323	[7122, 3386]
273	[524, 224]	2290	[1465, 2629]	4307	[5572, 2644]	6324	[7123, 337]
274	[525, 54]	2291	[1060, 452]	4308	[5508, 5573]	6325	[7124, 5794]
275	[526, 158]	2292	[2966, 2863]	4309	[5574, 3366]	6326	[5255, 1209]

276	[527, 528]	2293	[3465, 3466]	4310	[5575, 5576]	6327	[7125, 1009]
277	[54, 529]	2294	[1555, 2637]	4311	[5577, 5578]	6328	[7126, 92]
278	[530, 531]	2295	[3467, 3468]	4312	[5579, 5580]	6329	[5106, 933]
279	[532, 533]	2296	[3469, 2911]	4313	[5581, 269]	6330	[7127, 5862]
280	[534, 535]	2297	[3470, 3120]	4314	[5582, 5583]	6331	[7128, 7129]
281	[536, 537]	2298	[3471, 3472]	4315	[5584, 1470]	6332	[3623, 944]
282	[538, 539]	2299	[3473, 3474]	4316	[5585, 3682]	6333	[7130, 79]
283	[540, 541]	2300	[442, 1454]	4317	[5586, 5587]	6334	[7131, 1286]
284	[542, 543]	2301	[3475, 1450]	4318	[5588, 925]	6335	[1432, 1155]
285	[544, 545]	2302	[3004, 2828]	4319	[5589, 2553]	6336	[6102, 5400]
286	[546, 547]	2303	[3476, 3106]	4320	[1358, 5173]	6337	[7132, 2601]
287	[548, 549]	2304	[3073, 3477]	4321	[5590, 3511]	6338	[3541, 5341]
288	[550, 551]	2305	[3478, 3479]	4322	[5591, 264]	6339	[7133, 1357]
289	[552, 553]	2306	[3480, 3481]	4323	[5592, 1504]	6340	[957, 464]
290	[554, 555]	2307	[3482, 3483]	4324	[5593, 5455]	6341	[7134, 5198]
291	[556, 557]	2308	[2914, 3429]	4325	[5594, 1029]	6342	[5480, 6134]
292	[558, 559]	2309	[3315, 3484]	4326	[5595, 5596]	6343	[2708, 5063]
293	[152, 560]	2310	[3485, 3486]	4327	[5597, 1253]	6344	[7135, 1063]
294	[561, 562]	2311	[3487, 3488]	4328	[5598, 5599]	6345	[7136, 1174]
295	[563, 564]	2312	[1179, 3412]	4329	[2754, 5600]	6346	[7137, 1004]
296	[565, 129]	2313	[3489, 3323]	4330	[3486, 2956]	6347	[7138, 1305]
297	[566, 567]	2314	[3490, 3491]	4331	[5601, 1251]	6348	[7139, 3571]
298	[568, 569]	2315	[3492, 3325]	4332	[5602, 5603]	6349	[7140, 3459]
299	[570, 571]	2316	[3493, 3494]	4333	[5604, 3628]	6350	[7141, 7142]
300	[572, 573]	2317	[3495, 3496]	4334	[5605, 5606]	6351	[7143, 3283]
301	[574, 507]	2318	[3497, 1489]	4335	[3002, 5607]	6352	[7144, 5367]
302	[575, 576]	2319	[3498, 1444]	4336	[5608, 5434]	6353	[7145, 3165]
303	[577, 578]	2320	[3499, 2971]	4337	[5609, 3298]	6354	[351, 68]
304	[579, 580]	2321	[3500, 1455]	4338	[5610, 5611]	6355	[7146, 471]
305	[581, 553]	2322	[3501, 1419]	4339	[5612, 1534]	6356	[7147, 6005]
306	[582, 583]	2323	[3143, 3328]	4340	[5613, 5614]	6357	[5220, 6005]
307	[584, 585]	2324	[3502, 3503]	4341	[1271, 2690]	6358	[5099, 1538]
308	[586, 587]	2325	[1067, 3008]	4342	[1209, 5594]	6359	[7148, 2671]
309	[588, 589]	2326	[3504, 341]	4343	[5615, 1345]	6360	[105, 1109]
310	[590, 591]	2327	[3505, 3506]	4344	[5616, 2640]	6361	[7149, 5748]
311	[592, 593]	2328	[2596, 3507]	4345	[5367, 1075]	6362	[7150, 2661]
312	[594, 595]	2329	[3431, 3508]	4346	[5617, 5618]	6363	[7151, 5492]
313	[596, 597]	2330	[3509, 3134]	4347	[5619, 3336]	6364	[7152, 937]
314	[598, 599]	2331	[3510, 3511]	4348	[5620, 3231]	6365	[7044, 5314]
315	[600, 601]	2332	[2648, 1558]	4349	[2684, 1457]	6366	[7153, 290]
316	[602, 603]	2333	[3512, 2859]	4350	[5621, 5622]	6367	[1243, 3572]
317	[604, 605]	2334	[3513, 2665]	4351	[5623, 1035]	6368	[7154, 5087]
318	[606, 607]	2335	[3514, 3049]	4352	[5624, 2964]	6369	[5305, 3353]
319	[608, 14]	2336	[3515, 3516]	4353	[5625, 1254]	6370	[7155, 3423]

320	[609, 610]	2337	[3517, 3518]	4354	[5626, 5627]	6371	[1049, 29]
321	[611, 612]	2338	[3519, 3520]	4355	[3060, 5382]	6372	[7156, 2944]
322	[613, 614]	2339	[3521, 3522]	4356	[5628, 1402]	6373	[7157, 2609]
323	[615, 616]	2340	[3523, 3524]	4357	[5629, 1268]	6374	[7158, 7159]
324	[617, 618]	2341	[3525, 3526]	4358	[5630, 1184]	6375	[7160, 5309]
325	[619, 620]	2342	[3527, 924]	4359	[2615, 5159]	6376	[7161, 7068]
326	[621, 622]	2343	[2642, 3528]	4360	[5631, 904]	6377	[1541, 5393]
327	[623, 624]	2344	[3529, 3530]	4361	[1008, 3127]	6378	[7162, 1563]
328	[625, 626]	2345	[3531, 1342]	4362	[1230, 408]	6379	[2918, 5164]
329	[627, 628]	2346	[3532, 3034]	4363	[5315, 5632]	6380	[3032, 3591]
330	[629, 630]	2347	[3533, 3534]	4364	[1211, 5633]	6381	[7163, 2625]
331	[631, 632]	2348	[3535, 3536]	4365	[5634, 1489]	6382	[7164, 1187]
332	[633, 148]	2349	[3537, 3405]	4366	[5635, 3137]	6383	[7165, 2578]
333	[634, 635]	2350	[3538, 3539]	4367	[3481, 3654]	6384	[7166, 478]
334	[636, 637]	2351	[3540, 3541]	4368	[1108, 1409]	6385	[1559, 384]
335	[638, 132]	2352	[3542, 3543]	4369	[919, 5636]	6386	[7167, 981]
336	[639, 640]	2353	[3544, 1387]	4370	[5637, 3591]	6387	[7168, 1422]
337	[560, 641]	2354	[3545, 1080]	4371	[1492, 2894]	6388	[7169, 3016]
338	[642, 643]	2355	[3546, 3051]	4372	[5638, 1052]	6389	[7170, 5468]
339	[513, 644]	2356	[3547, 3053]	4373	[947, 987]	6390	[5351, 7171]
340	[645, 56]	2357	[3548, 1086]	4374	[3120, 1025]	6391	[5644, 5217]
341	[646, 647]	2358	[3549, 436]	4375	[5639, 5640]	6392	[5754, 3450]
342	[648, 649]	2359	[3550, 3551]	4376	[5641, 2987]	6393	[7172, 6073]
343	[650, 651]	2360	[3552, 3553]	4377	[5642, 1436]	6394	[7173, 99]
344	[652, 653]	2361	[3554, 1093]	4378	[5643, 5644]	6395	[7174, 3534]
345	[654, 491]	2362	[2923, 1288]	4379	[5645, 89]	6396	[3216, 2704]
346	[655, 656]	2363	[3555, 3556]	4380	[5646, 5406]	6397	[7175, 3374]
347	[657, 658]	2364	[3557, 459]	4381	[5647, 1458]	6398	[7176, 7177]
348	[659, 660]	2365	[3558, 3222]	4382	[5648, 3644]	6399	[5390, 2901]
349	[661, 662]	2366	[2961, 1076]	4383	[3076, 5183]	6400	[7178, 2870]
350	[663, 664]	2367	[2857, 3090]	4384	[5179, 5198]	6401	[5952, 1420]
351	[665, 137]	2368	[3559, 3560]	4385	[5649, 2688]	6402	[7179, 1072]
352	[666, 667]	2369	[3561, 3562]	4386	[5650, 331]	6403	[955, 5828]
353	[668, 669]	2370	[3563, 1250]	4387	[5651, 2835]	6404	[7180, 1344]
354	[670, 671]	2371	[3564, 288]	4388	[5652, 3197]	6405	[7181, 3182]
355	[672, 673]	2372	[3565, 3566]	4389	[5653, 3035]	6406	[7182, 474]
356	[674, 675]	2373	[1149, 3567]	4390	[3585, 3003]	6407	[7183, 407]
357	[676, 677]	2374	[2948, 3159]	4391	[5149, 1372]	6408	[7184, 3093]
358	[678, 679]	2375	[1127, 1471]	4392	[5540, 344]	6409	[7185, 5112]
359	[680, 223]	2376	[3568, 3566]	4393	[5654, 3126]	6410	[7186, 2681]
360	[681, 682]	2377	[3569, 3570]	4394	[5655, 1527]	6411	[1280, 5060]
361	[683, 532]	2378	[923, 3571]	4395	[5656, 5193]	6412	[7187, 1076]
362	[684, 501]	2379	[3572, 2641]	4396	[5657, 3011]	6413	[5040, 2803]
363	[685, 686]	2380	[3573, 1059]	4397	[5658, 80]	6414	[7188, 5533]

364	[687, 688]	2381	[3574, 3127]	4398	[3175, 3499]	6415	[7189, 5901]
365	[689, 690]	2382	[3575, 3576]	4399	[5418, 5659]	6416	[7190, 1056]
366	[691, 692]	2383	[2827, 3388]	4400	[5660, 441]	6417	[7191, 2692]
367	[693, 694]	2384	[3577, 1177]	4401	[5661, 1108]	6418	[7192, 3112]
368	[695, 594]	2385	[3578, 3186]	4402	[5662, 3533]	6419	[7193, 1137]
369	[696, 697]	2386	[3579, 1386]	4403	[5663, 249]	6420	[5084, 5161]
370	[698, 699]	2387	[1173, 3570]	4404	[5664, 3601]	6421	[3551, 5040]
371	[700, 701]	2388	[2579, 1007]	4405	[5262, 1556]	6422	[7194, 5331]
372	[702, 703]	2389	[3580, 1329]	4406	[1263, 5665]	6423	[7195, 5411]
373	[704, 705]	2390	[3581, 892]	4407	[1311, 3720]	6424	[3423, 5609]
374	[706, 707]	2391	[353, 3350]	4408	[5666, 5036]	6425	[103, 3349]
375	[708, 709]	2392	[3582, 387]	4409	[5667, 3275]	6426	[3709, 3134]
376	[710, 711]	2393	[1495, 2697]	4410	[5668, 5081]	6427	[7196, 3354]
377	[712, 713]	2394	[3583, 3584]	4411	[5199, 5528]	6428	[7197, 3679]
378	[714, 715]	2395	[1167, 3585]	4412	[5361, 5592]	6429	[7198, 1485]
379	[716, 717]	2396	[3586, 1389]	4413	[1131, 5375]	6430	[7199, 3705]
380	[718, 719]	2397	[3587, 3588]	4414	[5669, 332]	6431	[7200, 1269]
381	[156, 720]	2398	[3012, 3589]	4415	[5670, 438]	6432	[5569, 3239]
382	[721, 722]	2399	[2637, 3590]	4416	[2560, 3473]	6433	[7111, 3399]
383	[723, 724]	2400	[3591, 461]	4417	[5671, 1206]	6434	[7201, 3103]
384	[725, 726]	2401	[3592, 3593]	4418	[5291, 5672]	6435	[462, 1218]
385	[727, 728]	2402	[1095, 3129]	4419	[5673, 3636]	6436	[422, 5623]
386	[729, 730]	2403	[3594, 1379]	4420	[2578, 1001]	6437	[5235, 3456]
387	[731, 732]	2404	[95, 3548]	4421	[5142, 1255]	6438	[1272, 5111]
388	[733, 734]	2405	[1231, 3007]	4422	[341, 5674]	6439	[7202, 2977]
389	[735, 736]	2406	[3595, 910]	4423	[3330, 2634]	6440	[7203, 1552]
390	[737, 738]	2407	[3596, 2957]	4424	[5053, 2794]	6441	[3453, 3181]
391	[739, 740]	2408	[3597, 2719]	4425	[5557, 3260]	6442	[939, 2758]
392	[741, 742]	2409	[251, 23]	4426	[3267, 5675]	6443	[7204, 2806]
393	[743, 744]	2410	[3093, 3598]	4427	[5676, 2678]	6444	[5366, 3057]
394	[745, 746]	2411	[3599, 1539]	4428	[5677, 2647]	6445	[1383, 2909]
395	[747, 748]	2412	[3600, 3601]	4429	[2678, 1200]	6446	[7205, 1556]
396	[749, 750]	2413	[3602, 3285]	4430	[5678, 1264]	6447	[7206, 1026]
397	[751, 752]	2414	[3603, 3604]	4431	[5679, 3052]	6448	[5603, 1478]
398	[753, 754]	2415	[418, 3605]	4432	[5680, 3409]	6449	[3576, 5390]
399	[755, 756]	2416	[327, 3249]	4433	[5681, 112]	6450	[5968, 2730]
400	[757, 758]	2417	[3200, 3606]	4434	[5682, 2738]	6451	[7207, 107]
401	[759, 760]	2418	[3607, 3608]	4435	[5683, 1161]	6452	[7208, 443]
402	[761, 762]	2419	[357, 3609]	4436	[5684, 5380]	6453	[7209, 5131]
403	[763, 599]	2420	[2589, 438]	4437	[5685, 3416]	6454	[5451, 5968]
404	[764, 765]	2421	[3126, 439]	4438	[5686, 5687]	6455	[7210, 3286]
405	[766, 767]	2422	[3429, 891]	4439	[1087, 981]	6456	[7211, 5816]
406	[768, 769]	2423	[2532, 3194]	4440	[5688, 3702]	6457	[2758, 3059]
407	[770, 771]	2424	[3610, 1527]	4441	[3220, 5689]	6458	[7212, 2696]

408	[772, 773]	2425	[3611, 3612]	4442	[5690, 3617]	6459	[3479, 317]
409	[44, 774]	2426	[3613, 3614]	4443	[5691, 5647]	6460	[7213, 1526]
410	[775, 776]	2427	[3615, 2869]	4444	[5692, 401]	6461	[7214, 1027]
411	[777, 778]	2428	[3616, 2780]	4445	[5693, 2613]	6462	[7215, 385]
412	[779, 780]	2429	[3150, 3617]	4446	[5694, 423]	6463	[3664, 2711]
413	[781, 782]	2430	[2998, 3618]	4447	[5695, 1289]	6464	[7216, 2563]
414	[783, 606]	2431	[3619, 944]	4448	[3154, 1467]	6465	[7217, 961]
415	[784, 785]	2432	[3620, 426]	4449	[949, 5136]	6466	[1169, 5983]
416	[786, 787]	2433	[3621, 260]	4450	[5696, 355]	6467	[1370, 5908]
417	[788, 789]	2434	[3622, 3623]	4451	[2893, 5697]	6468	[7218, 3692]
418	[790, 791]	2435	[317, 3624]	4452	[5698, 1068]	6469	[7219, 3060]
419	[792, 793]	2436	[3625, 1219]	4453	[3135, 3533]	6470	[3233, 5949]
420	[794, 795]	2437	[3626, 3627]	4454	[5699, 5700]	6471	[7220, 3575]
421	[796, 797]	2438	[3395, 3628]	4455	[5701, 3090]	6472	[2764, 980]
422	[798, 799]	2439	[3629, 3630]	4456	[5702, 5703]	6473	[7221, 408]
423	[800, 801]	2440	[3631, 3632]	4457	[5704, 2980]	6474	[7222, 2532]
424	[802, 803]	2441	[2864, 3130]	4458	[5705, 2556]	6475	[7223, 1375]
425	[804, 600]	2442	[3633, 1303]	4459	[5706, 5108]	6476	[7224, 3168]
426	[805, 605]	2443	[3634, 3635]	4460	[5707, 366]	6477	[7225, 3473]
427	[806, 807]	2444	[3636, 3637]	4461	[3000, 2969]	6478	[3210, 1346]
428	[808, 809]	2445	[2769, 256]	4462	[3128, 2906]	6479	[7226, 118]
429	[810, 811]	2446	[1077, 3153]	4463	[3455, 2700]	6480	[3062, 2632]
430	[812, 813]	2447	[3638, 2840]	4464	[5708, 110]	6481	[7227, 2788]
431	[14, 631]	2448	[3171, 3639]	4465	[1512, 3469]	6482	[5406, 3445]
432	[814, 164]	2449	[3639, 1382]	4466	[5709, 5619]	6483	[7228, 5804]
433	[815, 816]	2450	[3640, 3641]	4467	[3534, 2613]	6484	[7229, 3414]
434	[640, 817]	2451	[3642, 2889]	4468	[5710, 2994]	6485	[893, 5957]
435	[818, 819]	2452	[3643, 3358]	4469	[5711, 2628]	6486	[7230, 1358]
436	[820, 821]	2453	[1038, 3644]	4470	[5712, 5713]	6487	[7231, 314]
437	[822, 823]	2454	[3645, 997]	4471	[5714, 2810]	6488	[1422, 2540]
438	[824, 683]	2455	[3275, 1415]	4472	[5715, 5575]	6489	[7232, 3605]
439	[573, 825]	2456	[1430, 3646]	4473	[3408, 1364]	6490	[121, 2769]
440	[826, 694]	2457	[3647, 3648]	4474	[3450, 3306]	6491	[7233, 1097]
441	[827, 828]	2458	[3649, 3096]	4475	[5205, 1555]	6492	[6007, 7137]
442	[829, 578]	2459	[73, 3650]	4476	[339, 2630]	6493	[7234, 996]
443	[830, 831]	2460	[3651, 3299]	4477	[5716, 3610]	6494	[7235, 2817]
444	[832, 833]	2461	[3108, 3652]	4478	[5717, 3460]	6495	[1553, 982]
445	[52, 834]	2462	[3653, 3654]	4479	[3337, 1187]	6496	[7236, 1207]
446	[569, 835]	2463	[3655, 3656]	4480	[5718, 3254]	6497	[5298, 2685]
447	[836, 837]	2464	[1092, 3657]	4481	[1446, 5222]	6498	[7237, 972]
448	[838, 839]	2465	[3658, 3659]	4482	[2788, 3072]	6499	[1323, 389]
449	[840, 745]	2466	[3660, 16]	4483	[5719, 995]	6500	[7238, 2623]
450	[841, 522]	2467	[3635, 3661]	4484	[3695, 5720]	6501	[1453, 3037]
451	[842, 843]	2468	[3662, 3663]	4485	[2603, 900]	6502	[1236, 2857]

452	[844, 845]	2469	[3463, 3664]	4486	[5721, 3455]	6503	[1013, 1548]
453	[846, 482]	2470	[3665, 2991]	4487	[5722, 5073]	6504	[2942, 5816]
454	[847, 534]	2471	[3666, 2734]	4488	[2633, 3510]	6505	[7239, 5050]
455	[848, 849]	2472	[3667, 3211]	4489	[412, 5354]	6506	[7240, 7101]
456	[850, 851]	2473	[1151, 2918]	4490	[5723, 5542]	6507	[7241, 1111]
457	[515, 852]	2474	[1522, 3622]	4491	[5724, 1130]	6508	[1278, 3642]
458	[853, 854]	2475	[3668, 3614]	4492	[2667, 1402]	6509	[7242, 1164]
459	[202, 855]	2476	[3669, 3670]	4493	[5725, 1214]	6510	[7243, 2592]
460	[856, 857]	2477	[3671, 3257]	4494	[5726, 2798]	6511	[7244, 68]
461	[517, 858]	2478	[3672, 967]	4495	[3068, 2566]	6512	[7245, 6135]
462	[859, 771]	2479	[3673, 3674]	4496	[5727, 5586]	6513	[7246, 2708]
463	[860, 861]	2480	[2970, 309]	4497	[5728, 5179]	6514	[5607, 2710]
464	[862, 137]	2481	[2938, 1158]	4498	[5729, 5138]	6515	[7247, 3122]
465	[863, 570]	2482	[3675, 112]	4499	[5730, 2803]	6516	[7248, 450]
466	[864, 865]	2483	[3676, 1473]	4500	[5731, 962]	6517	[315, 346]
467	[866, 867]	2484	[3677, 3678]	4501	[3079, 1140]	6518	[5894, 2815]
468	[868, 869]	2485	[3679, 1300]	4502	[5732, 3720]	6519	[5798, 3312]
469	[870, 644]	2486	[3680, 1528]	4503	[5733, 1389]	6520	[3140, 1085]
470	[707, 871]	2487	[3681, 433]	4504	[5330, 3323]	6521	[7249, 6145]
471	[872, 873]	2488	[1513, 3682]	4505	[5734, 326]	6522	[7250, 412]
472	[874, 875]	2489	[3683, 3277]	4506	[5735, 3156]	6523	[7251, 303]
473	[876, 877]	2490	[3684, 3459]	4507	[5736, 2936]	6524	[7252, 1383]
474	[878, 879]	2491	[1276, 3685]	4508	[5737, 5319]	6525	[7253, 3191]
475	[880, 881]	2492	[3686, 3687]	4509	[3526, 2879]	6526	[7254, 294]
476	[882, 173]	2493	[3244, 3013]	4510	[5738, 389]	6527	[3057, 5639]
477	[883, 884]	2494	[3688, 918]	4511	[3663, 3343]	6528	[2581, 5208]
478	[885, 886]	2495	[3689, 3690]	4512	[5739, 3497]	6529	[7255, 2879]
479	[887, 888]	2496	[3691, 3692]	4513	[5740, 5741]	6530	[5085, 7256]
480	[889, 43]	2497	[1186, 1229]	4514	[3617, 2809]	6531	[5289, 3280]
481	[890, 891]	2498	[3693, 3694]	4515	[5173, 3338]	6532	[3334, 3269]
482	[892, 893]	2499	[1159, 3695]	4516	[5742, 3188]	6533	[3630, 96]
483	[894, 895]	2500	[3696, 2575]	4517	[5743, 1181]	6534	[7257, 2641]
484	[896, 318]	2501	[3697, 1140]	4518	[5744, 3642]	6535	[7258, 3419]
485	[897, 898]	2502	[3698, 101]	4519	[2646, 5745]	6536	[5514, 3210]
486	[899, 900]	2503	[3699, 3700]	4520	[264, 3032]	6537	[7259, 1332]
487	[901, 100]	2504	[3701, 3047]	4521	[5746, 5747]	6538	[1390, 3494]
488	[902, 903]	2505	[3702, 1484]	4522	[5148, 5748]	6539	[7260, 460]
489	[904, 905]	2506	[3703, 3469]	4523	[2760, 3701]	6540	[7261, 3336]
490	[906, 907]	2507	[1114, 3704]	4524	[5749, 2720]	6541	[1293, 1118]
491	[908, 909]	2508	[3705, 3706]	4525	[5750, 368]	6542	[7262, 1486]
492	[910, 911]	2509	[3707, 3708]	4526	[5751, 5423]	6543	[7263, 5275]
493	[912, 913]	2510	[3477, 3709]	4527	[5752, 1276]	6544	[7264, 2728]
494	[914, 915]	2511	[3710, 2891]	4528	[5753, 5754]	6545	[963, 3524]
495	[916, 917]	2512	[3711, 3712]	4529	[3214, 5680]	6546	[7265, 1200]

496	[464, 918]	2513	[3713, 120]	4530	[5755, 3128]	6547	[943, 340]
497	[443, 919]	2514	[3466, 2838]	4531	[994, 5664]	6548	[7266, 3040]
498	[920, 921]	2515	[1356, 1544]	4532	[5756, 5532]	6549	[7267, 1517]
499	[922, 923]	2516	[3714, 3715]	4533	[5757, 3456]	6550	[7268, 394]
500	[924, 925]	2517	[2996, 3230]	4534	[5758, 5759]	6551	[325, 5336]
501	[926, 927]	2518	[3716, 261]	4535	[5760, 2786]	6552	[2635, 2869]
502	[928, 929]	2519	[3717, 2804]	4536	[2733, 5761]	6553	[7269, 5085]
503	[20, 930]	2520	[3718, 3719]	4537	[5762, 5277]	6554	[7270, 1046]
504	[16, 931]	2521	[3720, 3721]	4538	[1434, 5178]	6555	[7271, 5217]
505	[18, 932]	2522	[3722, 3723]	4539	[5763, 3187]	6556	[7272, 253]
506	[933, 474]	2523	[1010, 3724]	4540	[5764, 5160]	6557	[7273, 1529]
507	[934, 476]	2524	[3725, 284]	4541	[5765, 5766]	6558	[7274, 2948]
508	[935, 936]	2525	[1055, 1448]	4542	[5767, 3063]	6559	[7275, 3590]
509	[937, 116]	2526	[3659, 350]	4543	[5768, 3095]	6560	[7276, 1335]
510	[938, 939]	2527	[3726, 2445]	4544	[5769, 374]	6561	[1129, 5264]
511	[940, 941]	2528	[160, 1676]	4545	[5770, 2969]	6562	[7277, 5167]
512	[433, 942]	2529	[3727, 127]	4546	[5771, 3606]	6563	[7278, 1499]
513	[273, 943]	2530	[3728, 1692]	4547	[5772, 909]	6564	[5881, 3611]
514	[944, 945]	2531	[3729, 1687]	4548	[5773, 920]	6565	[7279, 7280]
515	[946, 947]	2532	[3730, 3731]	4549	[5774, 2778]	6566	[2644, 1442]
516	[948, 949]	2533	[3732, 3733]	4550	[5775, 5776]	6567	[7281, 116]
517	[950, 403]	2534	[3734, 2268]	4551	[5777, 5778]	6568	[7282, 81]
518	[951, 952]	2535	[3735, 3736]	4552	[1300, 5294]	6569	[7283, 5689]
519	[953, 98]	2536	[3737, 803]	4553	[5779, 3616]	6570	[2994, 5513]
520	[954, 955]	2537	[3738, 3739]	4554	[5780, 3004]	6571	[7284, 5964]
521	[956, 957]	2538	[3740, 1654]	4555	[5781, 5104]	6572	[7285, 5980]
522	[347, 958]	2539	[3741, 3742]	4556	[5782, 3508]	6573	[7286, 5419]
523	[959, 960]	2540	[3743, 2347]	4557	[5783, 2686]	6574	[7287, 2894]
524	[961, 962]	2541	[3744, 3745]	4558	[1269, 2792]	6575	[7288, 3363]
525	[113, 963]	2542	[3746, 653]	4559	[69, 3104]	6576	[7289, 5639]
526	[964, 965]	2543	[2237, 3747]	4560	[5784, 3232]	6577	[7290, 5494]
527	[966, 279]	2544	[3748, 1745]	4561	[5785, 71]	6578	[7291, 5992]
528	[967, 968]	2545	[2205, 188]	4562	[1514, 5035]	6579	[7292, 3227]
529	[107, 969]	2546	[671, 638]	4563	[5786, 3572]	6580	[7293, 5311]
530	[970, 971]	2547	[3749, 1823]	4564	[3618, 5541]	6581	[7294, 2701]
531	[279, 972]	2548	[2368, 1980]	4565	[5787, 5437]	6582	[7295, 5118]
532	[973, 974]	2549	[3750, 2048]	4566	[5788, 5789]	6583	[2859, 3416]
533	[975, 976]	2550	[3751, 3752]	4567	[1256, 1290]	6584	[7296, 3135]
534	[977, 978]	2551	[3753, 3754]	4568	[5790, 5482]	6585	[7297, 1348]
535	[979, 980]	2552	[3755, 3756]	4569	[2882, 296]	6586	[2876, 2547]
536	[981, 444]	2553	[3757, 3758]	4570	[5791, 1178]	6587	[5552, 5318]
537	[982, 983]	2554	[1680, 3759]	4571	[3624, 5792]	6588	[7298, 2677]
538	[984, 985]	2555	[3760, 3761]	4572	[5532, 2657]	6589	[7299, 255]
539	[986, 76]	2556	[3762, 2177]	4573	[5793, 2958]	6590	[1081, 376]

540	[987, 988]	2557	[3763, 3764]	4574	[5580, 5794]	6591	[7300, 1020]
541	[989, 990]	2558	[3765, 3766]	4575	[5795, 911]	6592	[3516, 7111]
542	[991, 992]	2559	[183, 2401]	4576	[5796, 1362]	6593	[7301, 953]
543	[993, 994]	2560	[3767, 3768]	4577	[5797, 5798]	6594	[983, 5289]
544	[995, 996]	2561	[3769, 640]	4578	[5799, 3000]	6595	[3721, 1228]
545	[997, 998]	2562	[3770, 3771]	4579	[5800, 1033]	6596	[5216, 1169]
546	[999, 1000]	2563	[3772, 3773]	4580	[5801, 3669]	6597	[7302, 473]
547	[1001, 1002]	2564	[3774, 3775]	4581	[5802, 5803]	6598	[7303, 3309]
548	[1003, 1004]	2565	[3776, 3777]	4582	[5804, 3024]	6599	[5311, 5614]
549	[1005, 1006]	2566	[3778, 2082]	4583	[3317, 2812]	6600	[7304, 5098]
550	[1007, 1008]	2567	[1576, 3779]	4584	[5805, 3411]	6601	[7305, 5292]
551	[1009, 1010]	2568	[3780, 3761]	4585	[5806, 5807]	6602	[7306, 989]
552	[1011, 346]	2569	[1573, 1818]	4586	[5808, 3159]	6603	[7307, 5759]
553	[1012, 1013]	2570	[3781, 1632]	4587	[5809, 3463]	6604	[7308, 3637]
554	[1014, 1015]	2571	[3782, 1809]	4588	[5810, 428]	6605	[7309, 3420]
555	[1016, 1017]	2572	[694, 3783]	4589	[5811, 5812]	6606	[7310, 1005]
556	[1018, 1019]	2573	[3784, 219]	4590	[5543, 353]	6607	[455, 5120]
557	[1020, 1021]	2574	[3785, 571]	4591	[5813, 3144]	6608	[7311, 1291]
558	[1022, 1023]	2575	[3786, 2514]	4592	[5814, 2552]	6609	[7312, 5557]
559	[1024, 1025]	2576	[3787, 1998]	4593	[5815, 5686]	6610	[7313, 2697]
560	[297, 1026]	2577	[3788, 520]	4594	[5816, 3085]	6611	[7314, 5368]
561	[1027, 1028]	2578	[3789, 1714]	4595	[5817, 3635]	6612	[5877, 5854]
562	[1029, 1030]	2579	[3790, 601]	4596	[5128, 3274]	6613	[3261, 7103]
563	[1031, 1032]	2580	[603, 3791]	4597	[5818, 2741]	6614	[7315, 1242]
564	[1033, 1034]	2581	[2397, 773]	4598	[3208, 266]	6615	[3682, 3579]
565	[1035, 1036]	2582	[148, 3792]	4599	[5675, 1301]	6616	[2661, 965]
566	[1037, 1038]	2583	[3793, 1883]	4600	[3704, 5252]	6617	[7316, 6129]
567	[1039, 1040]	2584	[3794, 2525]	4601	[5819, 1192]	6618	[7317, 3036]
568	[1041, 1042]	2585	[1611, 656]	4602	[5820, 5821]	6619	[7318, 990]
569	[451, 1043]	2586	[3795, 3796]	4603	[3520, 993]	6620	[5794, 5167]
570	[1044, 1045]	2587	[3797, 3798]	4604	[5822, 5659]	6621	[1090, 1385]
571	[1046, 1047]	2588	[3799, 1963]	4605	[5823, 5577]	6622	[5850, 5262]
572	[1048, 1049]	2589	[1574, 681]	4606	[5824, 5756]	6623	[7319, 2695]
573	[1050, 1051]	2590	[3800, 233]	4607	[5825, 3196]	6624	[7320, 5883]
574	[1052, 1053]	2591	[1972, 3801]	4608	[5826, 1082]	6625	[7321, 3377]
575	[1054, 1055]	2592	[3802, 42]	4609	[5827, 5828]	6626	[7322, 978]
576	[1056, 1057]	2593	[720, 830]	4610	[3225, 1356]	6627	[7323, 2851]
577	[907, 1058]	2594	[3803, 1620]	4611	[5829, 3339]	6628	[7324, 2871]
578	[1059, 1060]	2595	[3804, 219]	4612	[5830, 3576]	6629	[7325, 3178]
579	[1061, 1062]	2596	[837, 683]	4613	[5831, 5402]	6630	[7326, 3026]
580	[1063, 1064]	2597	[3805, 3806]	4614	[5832, 5833]	6631	[7327, 3226]
581	[1065, 361]	2598	[3807, 576]	4615	[5834, 1110]	6632	[7328, 5672]
582	[1066, 1067]	2599	[3808, 3809]	4616	[2745, 5302]	6633	[7329, 7138]
583	[1068, 1069]	2600	[3810, 3811]	4617	[3503, 1247]	6634	[7330, 2973]

584	[1070, 1071]	2601	[3812, 3813]	4618	[5835, 3066]	6635	[7331, 5341]
585	[1072, 310]	2602	[3814, 2505]	4619	[5836, 445]	6636	[2716, 7332]
586	[1073, 256]	2603	[127, 3815]	4620	[5837, 3612]	6637	[7333, 2976]
587	[1074, 1075]	2604	[3816, 513]	4621	[5838, 1294]	6638	[3654, 5754]
588	[1076, 1077]	2605	[3817, 3818]	4622	[5839, 5315]	6639	[7334, 1469]
589	[1078, 1079]	2606	[690, 3819]	4623	[5840, 2562]	6640	[7335, 3477]
590	[1080, 1081]	2607	[3820, 3821]	4624	[5841, 1544]	6641	[7336, 7256]
591	[1082, 1083]	2608	[3822, 3823]	4625	[3282, 5032]	6642	[7337, 5363]
592	[1084, 1085]	2609	[3824, 3825]	4626	[5842, 3709]	6643	[1407, 2808]
593	[1086, 1087]	2610	[3826, 1866]	4627	[5843, 2713]	6644	[1341, 3218]
594	[996, 1088]	2611	[785, 35]	4628	[5844, 3054]	6645	[2979, 1531]
595	[1089, 1090]	2612	[3827, 646]	4629	[5845, 3313]	6646	[7338, 2731]
596	[1091, 1092]	2613	[3828, 3829]	4630	[5618, 5846]	6647	[3324, 3314]
597	[1093, 64]	2614	[3830, 3831]	4631	[5260, 3466]	6648	[2717, 2990]
598	[1094, 1095]	2615	[3832, 3833]	4632	[3231, 5168]	6649	[7339, 299]
599	[1096, 1097]	2616	[3834, 3835]	4633	[1457, 1423]	6650	[7340, 5066]
600	[1098, 1099]	2617	[3836, 785]	4634	[5633, 3125]	6651	[7341, 3260]
601	[1100, 1101]	2618	[3837, 777]	4635	[5847, 328]	6652	[7342, 5189]
602	[1102, 1103]	2619	[1763, 779]	4636	[5848, 1365]	6653	[5489, 5056]
603	[1104, 1105]	2620	[3838, 1573]	4637	[5849, 3071]	6654	[7343, 1474]
604	[388, 1106]	2621	[3839, 817]	4638	[2797, 2556]	6655	[7344, 409]
605	[1107, 1108]	2622	[3840, 2242]	4639	[2609, 5850]	6656	[7345, 3220]
606	[1109, 1110]	2623	[3761, 734]	4640	[5851, 108]	6657	[7346, 5665]
607	[1111, 1112]	2624	[3841, 3784]	4641	[5852, 2746]	6658	[7347, 5509]
608	[1113, 1114]	2625	[3842, 3843]	4642	[5576, 1323]	6659	[7348, 5343]
609	[1115, 1116]	2626	[3844, 2371]	4643	[5419, 306]	6660	[7349, 2747]
610	[1117, 1118]	2627	[482, 1601]	4644	[5853, 5854]	6661	[2792, 5233]
611	[1032, 1119]	2628	[3845, 2010]	4645	[99, 5855]	6662	[927, 2913]
612	[1120, 1121]	2629	[3846, 2012]	4646	[5856, 1479]	6663	[7350, 1490]
613	[1122, 1123]	2630	[3847, 2404]	4647	[3685, 2984]	6664	[7351, 2759]
614	[1124, 1125]	2631	[3848, 168]	4648	[5857, 3611]	6665	[1193, 1126]
615	[1126, 1127]	2632	[3849, 822]	4649	[5858, 1150]	6666	[7352, 2847]
616	[1128, 1129]	2633	[3850, 778]	4650	[5859, 2970]	6667	[7353, 7116]
617	[1130, 1131]	2634	[3851, 496]	4651	[5860, 5861]	6668	[7354, 1101]
618	[1132, 1133]	2635	[3852, 1979]	4652	[5326, 5862]	6669	[7355, 1042]
619	[1134, 1135]	2636	[3853, 3854]	4653	[5160, 5815]	6670	[978, 5491]
620	[1136, 1137]	2637	[3855, 1628]	4654	[5363, 1425]	6671	[7356, 3406]
621	[1138, 1139]	2638	[220, 3856]	4655	[5863, 98]	6672	[7357, 3639]
622	[1140, 1141]	2639	[3857, 3858]	4656	[5864, 1204]	6673	[7358, 6063]
623	[1142, 1143]	2640	[3859, 1648]	4657	[5865, 5866]	6674	[7359, 2789]
624	[1144, 1145]	2641	[3860, 3861]	4658	[5578, 3204]	6675	[7360, 1163]
625	[1146, 1147]	2642	[3862, 3863]	4659	[469, 5439]	6676	[2608, 1315]
626	[1148, 1149]	2643	[3864, 3782]	4660	[5867, 1532]	6677	[7361, 3499]
627	[1150, 1151]	2644	[3865, 2174]	4661	[5868, 5869]	6678	[7362, 6093]

628	[1152, 1153]	2645	[3866, 3867]	4662	[5542, 1507]	6679	[3022, 6035]
629	[1154, 1155]	2646	[3868, 2362]	4663	[5870, 1518]	6680	[313, 1160]
630	[309, 1156]	2647	[2517, 3869]	4664	[1259, 5052]	6681	[7363, 1157]
631	[28, 1157]	2648	[3870, 3871]	4665	[5871, 2543]	6682	[7364, 347]
632	[1158, 1159]	2649	[3872, 3873]	4666	[5872, 2616]	6683	[7365, 7137]
633	[1160, 1161]	2650	[3874, 1944]	4667	[5123, 118]	6684	[7366, 1129]
634	[1162, 916]	2651	[3875, 3876]	4668	[5873, 3495]	6685	[3052, 2836]
635	[1163, 1164]	2652	[3877, 1957]	4669	[5874, 5099]	6686	[7367, 3415]
636	[1165, 1166]	2653	[817, 45]	4670	[5875, 1339]	6687	[7368, 69]
637	[261, 1167]	2654	[843, 3878]	4671	[5876, 5877]	6688	[7369, 5902]
638	[1168, 1169]	2655	[3879, 128]	4672	[5878, 1496]	6689	[7370, 7371]
639	[1170, 1171]	2656	[3880, 3881]	4673	[5879, 2848]	6690	[7372, 2569]
640	[1172, 1173]	2657	[3882, 871]	4674	[5880, 3274]	6691	[3377, 5107]
641	[1174, 1107]	2658	[3883, 1916]	4675	[3087, 2870]	6692	[7373, 1312]
642	[1175, 1176]	2659	[3884, 3885]	4676	[2602, 5881]	6693	[7374, 345]
643	[1177, 426]	2660	[58, 1898]	4677	[5882, 5058]	6694	[7375, 1454]
644	[1178, 1179]	2661	[3886, 2424]	4678	[2548, 5883]	6695	[7376, 111]
645	[1180, 1181]	2662	[3887, 3888]	4679	[5884, 5383]	6696	[7377, 77]
646	[958, 1023]	2663	[3889, 3890]	4680	[5885, 416]	6697	[7378, 3496]
647	[960, 1078]	2664	[541, 1805]	4681	[5886, 75]	6698	[7379, 1437]
648	[1135, 894]	2665	[3891, 38]	4682	[5887, 2574]	6699	[7380, 257]
649	[414, 896]	2666	[1636, 2406]	4683	[5888, 1261]	6700	[7381, 3526]
650	[1182, 1183]	2667	[3892, 1898]	4684	[5889, 2700]	6701	[7382, 5241]
651	[1184, 1185]	2668	[200, 3893]	4685	[5890, 3468]	6702	[1305, 1283]
652	[429, 1186]	2669	[3894, 3895]	4686	[5891, 3207]	6703	[7383, 1449]
653	[1187, 1188]	2670	[3896, 3897]	4687	[5855, 1264]	6704	[2957, 3408]
654	[1189, 27]	2671	[3898, 1611]	4688	[5892, 2841]	6705	[7384, 1562]
655	[1190, 1191]	2672	[2288, 3899]	4689	[5893, 5041]	6706	[7385, 5758]
656	[1192, 1193]	2673	[1690, 3900]	4690	[376, 5894]	6707	[3712, 3539]
657	[1194, 19]	2674	[3901, 3902]	4691	[5895, 3589]	6708	[7386, 1040]
658	[1195, 21]	2675	[3903, 3904]	4692	[5896, 5168]	6709	[7387, 1461]
659	[1196, 1197]	2676	[3905, 3906]	4693	[5897, 267]	6710	[7388, 3718]
660	[1198, 1199]	2677	[3907, 2021]	4694	[1298, 1377]	6711	[7389, 5697]
661	[1200, 1201]	2678	[3908, 1581]	4695	[5898, 1464]	6712	[7390, 1407]
662	[1202, 1203]	2679	[3909, 3910]	4696	[5899, 5096]	6713	[7391, 424]
663	[445, 1204]	2680	[2186, 232]	4697	[5900, 5090]	6714	[7392, 30]
664	[1205, 1206]	2681	[774, 859]	4698	[3206, 3702]	6715	[2871, 5703]
665	[1207, 270]	2682	[539, 3891]	4699	[5474, 5901]	6716	[7393, 78]
666	[1208, 1209]	2683	[3911, 3912]	4700	[1424, 5902]	6717	[7394, 5042]
667	[1210, 1211]	2684	[3913, 2348]	4701	[5903, 1545]	6718	[2650, 380]
668	[266, 1212]	2685	[3914, 1576]	4702	[5904, 3073]	6719	[5828, 3630]
669	[1213, 1214]	2686	[3915, 834]	4703	[5905, 5469]	6720	[905, 5618]
670	[416, 1215]	2687	[3916, 1821]	4704	[5906, 5487]	6721	[6073, 5644]
671	[1216, 260]	2688	[2421, 224]	4705	[5907, 5908]	6722	[7395, 3478]

672	[1217, 989]	2689	[3917, 2408]	4706	[5909, 2633]	6723	[3256, 3011]
673	[1218, 1219]	2690	[3918, 3919]	4707	[5910, 5433]	6724	[7396, 5146]
674	[1220, 340]	2691	[1605, 55]	4708	[5911, 5912]	6725	[2830, 1144]
675	[1221, 1222]	2692	[3920, 763]	4709	[2887, 3162]	6726	[7397, 3025]
676	[1223, 1224]	2693	[3921, 3888]	4710	[5913, 5451]	6727	[7398, 3160]
677	[1225, 1226]	2694	[3922, 2013]	4711	[5914, 3316]	6728	[7399, 894]
678	[1227, 1228]	2695	[3923, 3924]	4712	[5915, 3701]	6729	[1460, 7400]
679	[1229, 1230]	2696	[3925, 1976]	4713	[5916, 382]	6730	[301, 6063]
680	[1047, 1231]	2697	[748, 3926]	4714	[5917, 3472]	6731	[2976, 1132]
681	[343, 1232]	2698	[3927, 3928]	4715	[3117, 3651]	6732	[7401, 113]
682	[1233, 1234]	2699	[3929, 2198]	4716	[5918, 5541]	6733	[5513, 3565]
683	[1235, 1236]	2700	[3930, 3931]	4717	[1334, 5919]	6734	[2724, 5343]
684	[1237, 928]	2701	[3932, 1988]	4718	[5920, 5091]	6735	[7402, 2880]
685	[1238, 1239]	2702	[3933, 3934]	4719	[5921, 2651]	6736	[7403, 297]
686	[1240, 1241]	2703	[3935, 3936]	4720	[3440, 5922]	6737	[3039, 7177]
687	[1242, 1243]	2704	[3937, 2280]	4721	[5923, 1159]	6738	[7404, 3001]
688	[1141, 1244]	2705	[3938, 3939]	4722	[3366, 284]	6739	[3339, 2824]
689	[1245, 1246]	2706	[3940, 3941]	4723	[5924, 3023]	6740	[7405, 5508]
690	[1247, 1248]	2707	[3942, 2258]	4724	[2880, 5297]	6741	[7406, 3306]
691	[1249, 1250]	2708	[3943, 3944]	4725	[5175, 5925]	6742	[5672, 5351]
692	[1251, 1252]	2709	[3945, 3946]	4726	[5926, 3721]	6743	[5745, 5224]
693	[1253, 1254]	2710	[3947, 2269]	4727	[5927, 5928]	6744	[7407, 3577]
694	[1255, 1256]	2711	[3948, 3949]	4728	[5929, 84]	6745	[5883, 3581]
695	[1257, 1089]	2712	[3950, 3951]	4729	[3173, 5455]	6746	[7408, 6164]
696	[1258, 1259]	2713	[3952, 2288]	4730	[5930, 5587]	6747	[3203, 971]
697	[1260, 1261]	2714	[3953, 1792]	4731	[5397, 5205]	6748	[7409, 1472]
698	[1262, 1263]	2715	[3954, 3955]	4732	[5931, 2660]	6749	[7410, 3014]
699	[1264, 1265]	2716	[3956, 1842]	4733	[1567, 1435]	6750	[7411, 3353]
700	[1266, 1267]	2717	[3957, 1935]	4734	[5932, 5474]	6751	[7412, 1153]
701	[1268, 1269]	2718	[3958, 2053]	4735	[5933, 2682]	6752	[5395, 1395]
702	[1270, 1271]	2719	[3959, 1612]	4736	[5934, 5458]	6753	[7413, 399]
703	[307, 1272]	2720	[3960, 1879]	4737	[5935, 3338]	6754	[7414, 3474]
704	[1273, 1274]	2721	[3961, 3962]	4738	[3641, 1357]	6755	[7415, 3624]
705	[1275, 1276]	2722	[3963, 3964]	4739	[5936, 2612]	6756	[3346, 3448]
706	[1277, 1278]	2723	[3965, 589]	4740	[5937, 3663]	6757	[7416, 1013]
707	[1279, 1280]	2724	[3966, 740]	4741	[3046, 3301]	6758	[7417, 119]
708	[1281, 447]	2725	[3967, 2180]	4742	[5938, 2787]	6759	[7418, 3704]
709	[1282, 1283]	2726	[3968, 2240]	4743	[5939, 431]	6760	[7419, 1017]
710	[1284, 1285]	2727	[3969, 3910]	4744	[5687, 1329]	6761	[7420, 5152]
711	[1286, 1287]	2728	[3970, 3971]	4745	[5940, 1316]	6762	[2694, 3715]
712	[1288, 1289]	2729	[3972, 3973]	4746	[5941, 1128]	6763	[7421, 3525]
713	[1290, 1291]	2730	[3974, 3975]	4747	[3165, 2719]	6764	[3191, 3099]
714	[1292, 1293]	2731	[3976, 1695]	4748	[5942, 1460]	6765	[7422, 5949]
715	[1294, 1295]	2732	[3977, 3978]	4749	[5943, 5610]	6766	[7423, 1378]

716	[1296, 1191]	2733	[3979, 3980]	4750	[5944, 5514]	6767	[7424, 5452]
717	[1297, 1298]	2734	[3981, 3982]	4751	[5285, 324]	6768	[7425, 3051]
718	[1299, 1300]	2735	[3983, 2348]	4752	[5945, 5946]	6769	[5803, 7159]
719	[1301, 1302]	2736	[3801, 2317]	4753	[5947, 5948]	6770	[7371, 3481]
720	[305, 1303]	2737	[3984, 842]	4754	[5949, 5496]	6771	[5611, 73]
721	[1304, 1305]	2738	[3985, 609]	4755	[3259, 3522]	6772	[7426, 3486]
722	[941, 956]	2739	[3986, 2338]	4756	[5950, 908]	6773	[7427, 330]
723	[1306, 1307]	2740	[3987, 2192]	4757	[5902, 2843]	6774	[7428, 3312]
724	[1308, 1309]	2741	[3988, 3989]	4758	[3385, 251]	6775	[7429, 3691]
725	[1310, 1311]	2742	[816, 3990]	4759	[5951, 3194]	6776	[3311, 3588]
726	[1312, 1313]	2743	[3991, 3918]	4760	[5274, 5952]	6777	[3341, 2958]
727	[1314, 1315]	2744	[1938, 3992]	4761	[3670, 3356]	6778	[7430, 3315]
728	[1316, 1317]	2745	[3993, 2177]	4762	[5953, 2725]	6779	[6135, 1221]
729	[1318, 1319]	2746	[3994, 3995]	4763	[5502, 3398]	6780	[3300, 2551]
730	[1320, 1321]	2747	[1738, 3996]	4764	[5954, 5774]	6781	[7431, 2865]
731	[1322, 1323]	2748	[1889, 3997]	4765	[2741, 1421]	6782	[7432, 5102]
732	[1324, 1279]	2749	[3998, 2376]	4766	[5583, 1143]	6783	[1411, 5274]
733	[1325, 1326]	2750	[3999, 4000]	4767	[5955, 1102]	6784	[3637, 5447]
734	[1327, 1328]	2751	[1661, 4001]	4768	[5956, 5957]	6785	[2991, 5502]
735	[1329, 1330]	2752	[4002, 4003]	4769	[5958, 5140]	6786	[7433, 2773]
736	[1331, 1332]	2753	[3754, 698]	4770	[5959, 1136]	6787	[5264, 1139]
737	[1333, 1334]	2754	[4004, 2515]	4771	[5960, 1149]	6788	[7434, 1481]
738	[386, 1335]	2755	[2476, 4005]	4772	[5961, 3485]	6789	[7435, 3276]
739	[1336, 1337]	2756	[4006, 4007]	4773	[5962, 1043]	6790	[3063, 5486]
740	[1338, 1339]	2757	[4008, 4009]	4774	[5963, 2920]	6791	[2987, 2552]
741	[1340, 1341]	2758	[662, 761]	4775	[1183, 2587]	6792	[7436, 3150]
742	[1342, 1343]	2759	[4010, 4011]	4776	[3178, 5964]	6793	[3278, 2897]
743	[1344, 1345]	2760	[4012, 4013]	4777	[5965, 5846]	6794	[929, 2650]
744	[1346, 1223]	2761	[4014, 4015]	4778	[5966, 1127]	6795	[7437, 7438]
745	[968, 1347]	2762	[4016, 4017]	4779	[5967, 5968]	6796	[5632, 5235]
746	[1348, 1349]	2763	[4018, 4019]	4780	[5969, 1103]	6797	[7439, 3204]
747	[1350, 339]	2764	[2471, 2345]	4781	[5970, 5971]	6798	[5120, 3244]
748	[1351, 1352]	2765	[4020, 247]	4782	[2752, 3226]	6799	[3302, 936]
749	[1353, 1173]	2766	[3962, 1799]	4783	[5972, 3681]	6800	[5170, 1320]
750	[1354, 1008]	2767	[1827, 1666]	4784	[5973, 5361]	6801	[7440, 6134]
751	[1355, 1356]	2768	[4021, 4022]	4785	[5778, 5974]	6802	[7441, 392]
752	[1357, 1358]	2769	[4023, 497]	4786	[5975, 1148]	6803	[7442, 5991]
753	[1359, 1360]	2770	[4024, 796]	4787	[1045, 2575]	6804	[3084, 423]
754	[1361, 1362]	2771	[4025, 2393]	4788	[5640, 2804]	6805	[7443, 22]
755	[1363, 1364]	2772	[4026, 228]	4789	[2805, 405]	6806	[7444, 3102]
756	[1365, 1366]	2773	[4027, 3891]	4790	[2912, 3082]	6807	[7445, 2643]
757	[1367, 1368]	2774	[4028, 4029]	4791	[3506, 5189]	6808	[7446, 7031]
758	[1369, 1370]	2775	[4030, 2121]	4792	[2910, 5976]	6809	[6010, 2533]
759	[1371, 1372]	2776	[4031, 4032]	4793	[5072, 5977]	6810	[7447, 3140]

760	[1373, 1374]	2777	[4033, 560]	4794	[5467, 3467]	6811	[7448, 2736]
761	[1201, 1375]	2778	[4034, 4035]	4795	[5792, 3577]	6812	[7449, 1115]
762	[1376, 1012]	2779	[2142, 4036]	4796	[5627, 5586]	6813	[7450, 5352]
763	[1377, 946]	2780	[4037, 568]	4797	[5700, 5978]	6814	[1155, 5494]
764	[1378, 1379]	2781	[4038, 4039]	4798	[5979, 93]	6815	[1360, 1260]
765	[1380, 1381]	2782	[4040, 4041]	4799	[5980, 5564]	6816	[7451, 439]
766	[1382, 1383]	2783	[4042, 4043]	4800	[5981, 5932]	6817	[2981, 2734]
767	[1025, 1384]	2784	[502, 4044]	4801	[5982, 5089]	6818	[5971, 83]
768	[1385, 6]	2785	[4045, 4046]	4802	[123, 321]	6819	[1397, 5480]
769	[1386, 428]	2786	[4047, 4048]	4803	[457, 5258]	6820	[3155, 6044]
770	[918, 1325]	2787	[4049, 4050]	4804	[5983, 3656]	6821	[7452, 2676]
771	[1387, 4]	2788	[3873, 4051]	4805	[5984, 3085]	6822	[3627, 2862]
772	[1388, 470]	2789	[4052, 4053]	4806	[5985, 2771]	6823	[7453, 5594]
773	[1389, 262]	2790	[4054, 3941]	4807	[5986, 5913]	6824	[7454, 2533]
774	[87, 1390]	2791	[4055, 4056]	4808	[5987, 3154]	6825	[5138, 5833]
775	[1391, 1190]	2792	[4057, 2259]	4809	[5988, 5496]	6826	[7455, 3239]
776	[1392, 1393]	2793	[711, 4058]	4810	[5989, 2946]	6827	[7456, 1053]
777	[1394, 1395]	2794	[4059, 2317]	4811	[5990, 5600]	6828	[1516, 349]
778	[1396, 1397]	2795	[4060, 716]	4812	[24, 3553]	6829	[5114, 1000]
779	[1398, 1399]	2796	[4061, 3877]	4813	[5991, 3023]	6830	[7457, 3536]
780	[1400, 1401]	2797	[4062, 3763]	4814	[5992, 952]	6831	[3221, 7129]
781	[1402, 1113]	2798	[4063, 2167]	4815	[5993, 3196]	6832	[6041, 5548]
782	[1403, 29]	2799	[4064, 3982]	4816	[5994, 114]	6833	[7458, 1433]
783	[1404, 1111]	2800	[4065, 4066]	4817	[5995, 2963]	6834	[7459, 1252]
784	[930, 1405]	2801	[4067, 2479]	4818	[2915, 5509]	6835	[3415, 1521]
785	[1406, 1407]	2802	[4068, 2035]	4819	[5996, 943]	6836	[7460, 5188]
786	[1408, 1409]	2803	[4069, 4070]	4820	[5997, 1558]	6837	[7461, 3337]
787	[1410, 1411]	2804	[4071, 4072]	4821	[5998, 1109]	6838	[5320, 6068]
788	[1412, 1413]	2805	[4073, 4074]	4822	[5977, 2670]	6839	[7462, 5330]
789	[1414, 1415]	2806	[1788, 2456]	4823	[2628, 3658]	6840	[1285, 915]
790	[1416, 1417]	2807	[4075, 4076]	4824	[5999, 2981]	6841	[7463, 276]
791	[1418, 1419]	2808	[4077, 2123]	4825	[6000, 20]	6842	[5789, 3186]
792	[1420, 1148]	2809	[4078, 726]	4826	[5599, 5861]	6843	[2815, 3718]
793	[1339, 995]	2810	[849, 4079]	4827	[6001, 5491]	6844	[7464, 1028]
794	[1421, 1422]	2811	[4080, 4081]	4828	[5748, 5571]	6845	[3524, 19]
795	[1423, 1424]	2812	[4082, 815]	4829	[6002, 2740]	6846	[7465, 2971]
796	[1425, 1426]	2813	[4083, 877]	4830	[1307, 6003]	6847	[5314, 1183]
797	[1427, 1260]	2814	[1907, 3903]	4831	[6004, 3002]	6848	[3349, 3083]
798	[1428, 97]	2815	[4084, 4085]	4832	[5417, 5041]	6849	[1317, 3668]
799	[1429, 1430]	2816	[4086, 543]	4833	[6005, 5271]	6850	[2897, 1120]
800	[1431, 1432]	2817	[760, 4087]	4834	[6006, 6007]	6851	[7466, 1151]
801	[1433, 1434]	2818	[4088, 2477]	4835	[6008, 5031]	6852	[5061, 1324]
802	[1435, 1418]	2819	[4089, 4090]	4836	[2812, 3681]	6853	[2947, 2621]
803	[1436, 1437]	2820	[4091, 4092]	4837	[6009, 6010]	6854	[7467, 3172]

804	[1438, 1100]	2821	[4093, 132]	4838	[6011, 1567]	6855	[3435, 7280]
805	[1439, 1440]	2822	[4094, 4095]	4839	[6012, 5365]	6856	[5309, 3305]
806	[1441, 1442]	2823	[2512, 793]	4840	[6013, 1166]	6857	[7468, 1497]
807	[1443, 1444]	2824	[4096, 1925]	4841	[1496, 5380]	6858	[7469, 5978]
808	[1445, 1446]	2825	[4097, 2217]	4842	[6014, 5162]	6859	[7470, 2724]
809	[969, 1447]	2826	[4098, 4058]	4843	[6015, 3125]	6860	[7471, 1088]
810	[1448, 1449]	2827	[4099, 1707]	4844	[6016, 90]	6861	[7472, 5761]
811	[1450, 1451]	2828	[4100, 483]	4845	[6017, 6018]	6862	[7473, 5194]
812	[1452, 1453]	2829	[4101, 1619]	4846	[6019, 3108]	6863	[3690, 3610]
813	[1454, 1455]	2830	[2356, 1951]	4847	[6020, 2635]	6864	[5866, 1012]
814	[1456, 1457]	2831	[4102, 4022]	4848	[6021, 3412]	6865	[7474, 1112]
815	[1458, 1197]	2832	[1659, 4103]	4849	[6022, 3548]	6866	[2706, 901]
816	[1459, 1460]	2833	[3982, 4104]	4850	[6023, 3190]	6867	[1261, 3648]
817	[1171, 1461]	2834	[4105, 2316]	4851	[6024, 2680]	6868	[7475, 263]
818	[1462, 1463]	2835	[3949, 4106]	4852	[6025, 1542]	6869	[7476, 3099]
819	[1464, 1465]	2836	[4107, 2312]	4853	[6026, 6027]	6870	[7477, 475]
820	[1466, 1467]	2837	[4108, 4109]	4854	[3556, 2751]	6871	[1475, 441]
821	[1021, 1273]	2838	[4110, 626]	4855	[1244, 2658]	6872	[437, 1263]
822	[1352, 1468]	2839	[1829, 1744]	4856	[2726, 1341]	6873	[7478, 5436]
823	[1469, 1470]	2840	[4111, 1812]	4857	[6028, 2698]	6874	[1071, 3708]
824	[1471, 973]	2841	[4112, 46]	4858	[6029, 5123]	6875	[7479, 969]
825	[1472, 1473]	2842	[4113, 4114]	4859	[6030, 3116]	6876	[7480, 3652]
826	[1474, 1475]	2843	[4115, 4116]	4860	[2712, 3148]	6877	[7481, 1423]
827	[319, 1378]	2844	[4117, 3912]	4861	[5689, 18]	6878	[7482, 2567]
828	[263, 1476]	2845	[2453, 4118]	4862	[6031, 2693]	6879	[7483, 5071]
829	[952, 912]	2846	[2404, 1982]	4863	[6032, 287]	6880	[5152, 3411]
830	[1477, 1478]	2847	[4119, 4120]	4864	[6033, 1195]	6881	[7484, 5291]
831	[1479, 1480]	2848	[4121, 1893]	4865	[299, 3616]	6882	[7485, 259]
832	[1099, 1481]	2849	[1998, 3842]	4866	[5468, 5070]	6883	[3401, 5575]
833	[1482, 1483]	2850	[227, 2031]	4867	[5194, 5820]	6884	[2986, 449]
834	[1484, 1485]	2851	[4122, 4123]	4868	[5759, 3149]	6885	[3363, 977]
835	[1486, 1487]	2852	[4124, 1923]	4869	[6034, 6035]	6886	[1265, 5577]
836	[1488, 1235]	2853	[237, 4125]	4870	[6036, 1132]	6887	[7486, 6068]
837	[1489, 1490]	2854	[4126, 610]	4871	[6037, 3471]	6888	[7487, 1141]
838	[1491, 1492]	2855	[4127, 3798]	4872	[6038, 5136]	6889	[7488, 3129]
839	[1493, 1494]	2856	[4128, 4129]	4873	[6039, 248]	6890	[7489, 2717]
840	[1478, 1348]	2857	[4130, 1693]	4874	[6040, 6041]	6891	[7490, 356]
841	[1053, 1495]	2858	[4131, 2090]	4875	[2739, 5148]	6892	[473, 7491]
842	[1123, 1496]	2859	[4132, 4133]	4876	[6042, 2890]	6893	[7492, 2568]
843	[1234, 1497]	2860	[4134, 4135]	4877	[6043, 6044]	6894	[7493, 425]
844	[1455, 1498]	2861	[4136, 3736]	4878	[6045, 1171]	6895	[5812, 3222]
845	[1499, 1500]	2862	[4137, 1817]	4879	[1393, 5433]	6896	[7494, 2617]
846	[1501, 1502]	2863	[4138, 3815]	4880	[1362, 1533]	6897	[7495, 5382]
847	[1503, 1504]	2864	[1984, 167]	4881	[3089, 3636]	6898	[7496, 1390]

848	[1505, 1506]	2865	[34, 3771]	4882	[5862, 1237]	6899	[5761, 1406]
849	[1507, 1508]	2866	[4139, 4140]	4883	[6046, 3273]	6900	[7497, 1557]
850	[1509, 1510]	2867	[4141, 4118]	4884	[3386, 5627]	6901	[7498, 3675]
851	[1511, 1512]	2868	[644, 4142]	4885	[6047, 3192]	6902	[1345, 5980]
852	[945, 1513]	2869	[4143, 532]	4886	[5747, 5079]	6903	[5553, 3711]
853	[1203, 1514]	2870	[3971, 2368]	4887	[5486, 3475]	6904	[3382, 3488]
854	[1515, 1516]	2871	[4144, 1746]	4888	[6048, 5298]	6905	[5169, 2646]
855	[1517, 1518]	2872	[4145, 4146]	4889	[6049, 2914]	6906	[3182, 5423]
856	[1519, 1520]	2873	[4147, 618]	4890	[5534, 6050]	6907	[3608, 415]
857	[1521, 961]	2874	[4148, 3801]	4891	[6051, 5093]	6908	[3719, 2891]
858	[925, 1452]	2875	[2049, 783]	4892	[2945, 3256]	6909	[7499, 3528]
859	[89, 1522]	2876	[4125, 4149]	4893	[6052, 1107]	6910	[6027, 3462]
860	[903, 354]	2877	[4150, 678]	4894	[6053, 3650]	6911	[3460, 2759]
861	[1523, 1524]	2878	[4151, 2007]	4895	[1526, 1033]	6912	[5978, 1360]
862	[1525, 1526]	2879	[4152, 4153]	4896	[6054, 455]	6913	[5919, 7025]
863	[1527, 1046]	2880	[4154, 1928]	4897	[6055, 386]	6914	[5052, 1459]
864	[1528, 1529]	2881	[614, 842]	4898	[6056, 932]	6915	[7500, 3037]
865	[1530, 1531]	2882	[616, 2375]	4899	[6057, 1205]	6916	[7501, 1384]
866	[1085, 1532]	2883	[4155, 34]	4900	[6058, 5632]	6917	[7502, 5983]
867	[1533, 1534]	2884	[4156, 1815]	4901	[6059, 1349]	6918	[5098, 5269]
868	[1535, 1536]	2885	[1582, 2407]	4902	[6060, 5362]	6919	[5901, 3034]
869	[1537, 1538]	2886	[4157, 4158]	4903	[6061, 5792]	6920	[5162, 365]
870	[1539, 1540]	2887	[4159, 1900]	4904	[2571, 5932]	6921	[7503, 1060]
871	[1222, 1541]	2888	[4160, 4161]	4905	[6062, 65]	6922	[7504, 2852]
872	[1542, 1543]	2889	[4162, 4163]	4906	[6063, 1211]	6923	[7505, 5925]
873	[1544, 1545]	2890	[4164, 2105]	4907	[1023, 1387]	6924	[7506, 258]
874	[1546, 1547]	2891	[4165, 4048]	4908	[3329, 5803]	6925	[7507, 2527]
875	[1548, 1549]	2892	[4166, 4167]	4909	[2653, 2561]	6926	[7508, 2580]
876	[1550, 1551]	2893	[1699, 4168]	4910	[6064, 3024]	6927	[7509, 2839]
877	[1552, 1553]	2894	[4169, 746]	4911	[6065, 3181]	6928	[2916, 1019]
878	[1554, 1555]	2895	[4170, 536]	4912	[3246, 2887]	6929	[7510, 3173]
879	[1556, 1557]	2896	[4171, 686]	4913	[6066, 927]	6930	[7511, 3299]
880	[1558, 1559]	2897	[4172, 4173]	4914	[6067, 6003]	6931	[7512, 87]
881	[1560, 1472]	2898	[1765, 1660]	4915	[6068, 2770]	6932	[3584, 5812]
882	[1561, 342]	2899	[4174, 4175]	4916	[6069, 2774]	6933	[3614, 3684]
883	[1494, 1562]	2900	[4176, 4177]	4917	[6070, 358]	6934	[7177, 3019]
884	[1563, 1564]	2901	[4178, 4179]	4918	[6071, 3490]	6935	[3146, 268]
885	[1565, 950]	2902	[4180, 2343]	4919	[6072, 1406]	6936	[1349, 2798]
886	[1566, 1567]	2903	[4118, 4181]	4920	[3168, 2848]	6937	[7513, 2536]
887	[1568, 1569]	2904	[4182, 4183]	4921	[5528, 6073]	6938	[5964, 5249]
888	[303, 1570]	2905	[4184, 884]	4922	[6074, 1301]	6939	[7514, 480]
889	[1571, 88]	2906	[4185, 1801]	4923	[6075, 2564]	6940	[2743, 3308]
890	[1572, 1573]	2907	[4186, 4187]	4924	[355, 1044]	6941	[7515, 5489]
891	[174, 1574]	2908	[4188, 858]	4925	[6076, 3609]	6942	[3319, 2713]

892	[1575, 1576]	2909	[2296, 4072]	4926	[5465, 3203]	6943	[7516, 956]
893	[1577, 1578]	2910	[4189, 4190]	4927	[1326, 1443]	6944	[7517, 1265]
894	[1579, 1578]	2911	[2449, 2449]	4928	[6077, 21]	6945	[7518, 1236]
895	[833, 126]	2912	[4191, 4192]	4929	[6078, 1126]	6946	[7519, 3216]
896	[782, 608]	2913	[4193, 570]	4930	[6079, 5220]	6947	[7520, 1233]
897	[555, 1580]	2914	[4194, 174]	4931	[6080, 5467]	6948	[3066, 2827]
898	[1581, 1582]	2915	[1601, 845]	4932	[6081, 1569]	6949	[5164, 3156]
899	[1583, 1584]	2916	[1916, 4195]	4933	[2662, 5758]	6950	[7521, 5345]
900	[1585, 138]	2917	[4196, 3973]	4934	[6082, 3380]	6951	[7522, 5976]
901	[1586, 199]	2918	[4197, 1902]	4935	[6083, 3359]	6952	[7523, 2572]
902	[605, 1587]	2919	[4198, 3944]	4936	[3379, 953]	6953	[3250, 3257]
903	[1588, 672]	2920	[4041, 4199]	4937	[6050, 2716]	6954	[1289, 5580]
904	[1589, 1590]	2921	[4200, 3774]	4938	[6084, 1295]	6955	[7438, 1067]
905	[1591, 1592]	2922	[4201, 542]	4939	[6085, 5720]	6956	[1133, 7438]
906	[1593, 1594]	2923	[4202, 2155]	4940	[3488, 26]	6957	[7524, 1450]
907	[1595, 632]	2924	[4203, 2131]	4941	[3009, 3431]	6958	[7525, 411]
908	[1596, 1597]	2925	[2274, 191]	4942	[942, 2742]	6959	[1295, 1267]
909	[1598, 1599]	2926	[528, 4204]	4943	[6086, 1237]	6960	[5713, 1094]
910	[1600, 1601]	2927	[2281, 4205]	4944	[5145, 2639]	6961	[7526, 1370]
911	[1602, 1603]	2928	[3939, 4206]	4945	[6087, 6088]	6962	[5974, 3541]
912	[1604, 1605]	2929	[2415, 3995]	4946	[6089, 295]	6963	[5948, 419]
913	[533, 1606]	2930	[4207, 2390]	4947	[6090, 2809]	6964	[7527, 5144]
914	[1607, 808]	2931	[4208, 2414]	4948	[5573, 2746]	6965	[7528, 2599]
915	[1608, 501]	2932	[4209, 4210]	4949	[3484, 1015]	6966	[7103, 3133]
916	[1609, 1610]	2933	[3906, 204]	4950	[6091, 3240]	6967	[7529, 1410]
917	[819, 1611]	2934	[4211, 4085]	4951	[6092, 415]	6968	[7530, 1553]
918	[861, 180]	2935	[4212, 184]	4952	[6093, 2905]	6969	[2692, 950]
919	[170, 1612]	2936	[589, 4213]	4953	[6094, 3284]	6970	[7531, 3107]
920	[1613, 1614]	2937	[1942, 1985]	4954	[998, 5583]	6971	[5042, 3065]
921	[599, 515]	2938	[4214, 229]	4955	[6095, 1421]	6972	[7532, 1167]
922	[1615, 1616]	2939	[4215, 812]	4956	[3723, 3121]	6973	[7533, 3560]
923	[1617, 704]	2940	[162, 2421]	4957	[3491, 3691]	6974	[7534, 3356]
924	[845, 1618]	2941	[4216, 4217]	4958	[5869, 5992]	6975	[7121, 2555]
925	[1619, 1620]	2942	[3941, 4218]	4959	[5665, 3107]	6976	[5470, 949]
926	[1621, 130]	2943	[1769, 2411]	4960	[921, 3690]	6977	[7535, 3092]
927	[1622, 1623]	2944	[4219, 2099]	4961	[6096, 268]	6978	[7536, 3261]
928	[1624, 1625]	2945	[4220, 823]	4962	[6097, 2531]	6979	[7537, 2658]
929	[1626, 602]	2946	[4221, 3843]	4963	[3536, 5482]	6980	[5766, 3641]
930	[40, 1627]	2947	[4222, 1606]	4964	[6098, 2990]	6981	[7538, 919]
931	[32, 1628]	2948	[4223, 1625]	4965	[6099, 1016]	6982	[3632, 2782]
932	[36, 136]	2949	[4205, 1871]	4966	[2704, 1369]	6983	[5606, 3454]
933	[1629, 880]	2950	[4224, 523]	4967	[6100, 2860]	6984	[2576, 342]
934	[1630, 171]	2951	[4183, 1889]	4968	[6101, 6102]	6985	[5525, 907]
935	[1631, 1632]	2952	[1909, 4156]	4969	[6103, 333]	6986	[7539, 3079]

936	[1633, 1634]	2953	[4225, 4226]	4970	[6104, 436]	6987	[3560, 3272]
937	[1635, 1636]	2954	[4227, 4228]	4971	[6105, 2947]	6988	[7540, 3214]
938	[1637, 1638]	2955	[4229, 1897]	4972	[6106, 5611]	6989	[5462, 3207]
939	[1639, 545]	2956	[4230, 2263]	4973	[6107, 476]	6990	[7541, 2770]
940	[1640, 1641]	2957	[4231, 2092]	4974	[6108, 3346]	6991	[5087, 5090]
941	[1642, 1643]	2958	[4232, 3811]	4975	[6109, 329]	6992	[7542, 311]
942	[1644, 612]	2959	[4233, 4234]	4976	[6110, 1465]	6993	[7543, 5820]
943	[523, 646]	2960	[4235, 4236]	4977	[2908, 3190]	6994	[7544, 5675]
944	[1645, 1646]	2961	[493, 1850]	4978	[1481, 6018]	6995	[7545, 3579]
945	[1647, 857]	2962	[4237, 4238]	4979	[6111, 5636]	6996	[3184, 2762]
946	[776, 1648]	2963	[3731, 1646]	4980	[6112, 6113]	6997	[7546, 5439]
947	[852, 1649]	2964	[2306, 643]	4981	[6114, 3215]	6998	[7547, 7121]
948	[1650, 499]	2965	[3779, 230]	4982	[6115, 2993]	6999	[2728, 3087]
949	[1651, 810]	2966	[4239, 1984]	4983	[6116, 2629]	7000	[7548, 913]
950	[1652, 225]	2967	[769, 3784]	4984	[6117, 5578]	7001	[3328, 5599]
951	[1653, 1654]	2968	[4240, 667]	4985	[6118, 1448]	7002	[7549, 5686]
952	[1655, 533]	2969	[4241, 4242]	4986	[6119, 2902]	7003	[7550, 286]
953	[1656, 1657]	2970	[4243, 1967]	4987	[6120, 1516]	7004	[3657, 1331]
954	[1658, 1659]	2971	[4244, 2430]	4988	[6121, 5360]	7005	[7551, 3659]
955	[1660, 1661]	2972	[4245, 4246]	4989	[6122, 2752]	7006	[3016, 1032]
956	[1641, 1662]	2973	[225, 183]	4990	[6123, 1229]	7007	[7552, 3009]
957	[1643, 1663]	2974	[4247, 2068]	4991	[6124, 305]	7008	[5460, 3111]
958	[656, 1664]	2975	[60, 1883]	4992	[5202, 5700]	7009	[5063, 7138]
959	[1665, 1666]	2976	[4046, 796]	4993	[6125, 2846]	7010	[2018, 6585]
960	[1667, 1668]	2977	[4248, 2194]	4994	[6126, 5381]	7011	[2519, 1937]
961	[1669, 1668]	2978	[4249, 4250]	4995	[5436, 1259]	7012	[7553, 3887]
962	[1670, 1671]	2979	[4251, 4252]	4996	[6127, 3441]	7013	[4204, 6998]
963	[1672, 594]	2980	[2379, 4017]	4997	[6128, 5252]	7014	[4079, 2454]
964	[1673, 1674]	2981	[4253, 3983]	4998	[3700, 6129]	7015	[519, 6722]
965	[1675, 1676]	2982	[2389, 4254]	4999	[6130, 5919]	7016	[2134, 4800]
966	[1677, 1678]	2983	[4255, 4256]	5000	[6131, 2975]	7017	[7554, 2369]
967	[1679, 1680]	2984	[4257, 4258]	5001	[5928, 923]	7018	[6750, 2191]
968	[1681, 1682]	2985	[4259, 3936]	5002	[2600, 5569]	7019	[2393, 6833]
969	[210, 1683]	2986	[4260, 2141]	5003	[6132, 3208]	7020	[1719, 6763]
970	[1684, 1685]	2987	[4261, 3757]	5004	[6133, 5414]	7021	[2010, 6460]
971	[1686, 595]	2988	[4262, 167]	5005	[6134, 6135]	7022	[7555, 4557]
972	[531, 1687]	2989	[4263, 140]	5006	[6136, 5258]	7023	[2170, 4377]
973	[1688, 236]	2990	[4264, 1637]	5007	[962, 367]	7024	[703, 6305]
974	[1689, 1690]	2991	[4265, 3828]	5008	[6137, 1144]	7025	[7556, 622]
975	[1691, 231]	2992	[4266, 4267]	5009	[6138, 3670]	7026	[4036, 839]
976	[1692, 1693]	2993	[4268, 4269]	5010	[6139, 2863]	7027	[4974, 6183]
977	[1694, 1695]	2994	[4009, 512]	5011	[6140, 377]	7028	[7557, 2285]
978	[1696, 1697]	2995	[4270, 4271]	5012	[6141, 1398]	7029	[7558, 5006]
979	[1698, 1699]	2996	[4272, 2355]	5013	[6142, 121]	7030	[4557, 6766]

980	[1700, 1701]	2997	[4273, 4274]	5014	[6143, 2825]	7031	[7559, 3825]
981	[1702, 1703]	2998	[4275, 4276]	5015	[6144, 5470]	7032	[2345, 741]
982	[1704, 1705]	2999	[4277, 4278]	5016	[2676, 5275]	7033	[831, 4706]
983	[1706, 1707]	3000	[3821, 684]	5017	[6145, 5647]	7034	[2354, 4608]
984	[1708, 674]	3001	[4279, 2493]	5018	[6146, 419]	7035	[7560, 3900]
985	[1709, 676]	3002	[4280, 3976]	5019	[6147, 983]	7036	[7561, 7562]
986	[1710, 153]	3003	[4281, 173]	5020	[281, 5292]	7037	[7563, 6582]
987	[1711, 237]	3004	[4282, 809]	5021	[6148, 2632]	7038	[701, 4609]
988	[1712, 819]	3005	[4283, 1820]	5022	[5469, 479]	7039	[6922, 4287]
989	[1713, 1714]	3006	[1846, 4284]	5023	[6149, 115]	7040	[4426, 51]
990	[1715, 1684]	3007	[888, 1610]	5024	[6150, 5573]	7041	[7564, 1985]
991	[1716, 704]	3008	[4285, 4286]	5025	[6151, 6152]	7042	[136, 6333]
992	[1717, 48]	3009	[4287, 2094]	5026	[6153, 343]	7043	[7565, 818]
993	[1718, 1719]	3010	[4288, 246]	5027	[6154, 5149]	7044	[6370, 2089]
994	[1720, 1721]	3011	[4289, 4290]	5028	[6155, 3163]	7045	[6483, 4541]
995	[1722, 1723]	3012	[4291, 2100]	5029	[6156, 1131]	7046	[7566, 4984]
996	[1724, 1725]	3013	[4292, 4293]	5030	[4246, 499]	7047	[4298, 193]
997	[1726, 1727]	3014	[4294, 609]	5031	[6157, 142]	7048	[4195, 2385]
998	[1728, 1729]	3015	[4295, 717]	5032	[2441, 3922]	7049	[3733, 4968]
999	[1730, 1731]	3016	[4296, 2046]	5033	[6158, 3842]	7050	[7567, 1594]
1000	[1732, 732]	3017	[4297, 4298]	5034	[6159, 2103]	7051	[7568, 1946]
1001	[1733, 602]	3018	[4299, 4300]	5035	[6160, 791]	7052	[3980, 2126]
1002	[1734, 1709]	3019	[4301, 3957]	5036	[6161, 4079]	7053	[4013, 5008]
1003	[1735, 1736]	3020	[585, 1758]	5037	[1957, 4592]	7054	[7569, 4419]
1004	[1737, 1738]	3021	[4302, 4303]	5038	[4725, 6162]	7055	[6407, 4508]
1005	[1739, 1740]	3022	[4304, 4305]	5039	[2395, 2]	7056	[1756, 4585]
1006	[557, 1741]	3023	[4306, 866]	5040	[6163, 6164]	7057	[7570, 2333]
1007	[1742, 171]	3024	[4307, 4308]	5041	[6165, 1721]	7058	[7571, 727]
1008	[1743, 1744]	3025	[4309, 4310]	5042	[6166, 853]	7059	[7572, 2171]
1009	[1745, 1746]	3026	[4311, 1843]	5043	[6167, 6168]	7060	[7573, 4524]
1010	[233, 1747]	3027	[4312, 1716]	5044	[2223, 6169]	7061	[2362, 2057]
1011	[1748, 657]	3028	[4313, 4314]	5045	[6170, 3943]	7062	[7574, 4621]
1012	[1749, 1750]	3029	[4315, 3924]	5046	[6171, 4703]	7063	[6263, 4274]
1013	[1751, 1752]	3030	[3885, 4316]	5047	[6172, 6173]	7064	[7575, 6471]
1014	[1753, 1754]	3031	[4317, 4240]	5048	[6174, 6175]	7065	[7576, 4964]
1015	[1755, 1756]	3032	[4318, 517]	5049	[6176, 3853]	7066	[7577, 6423]
1016	[1757, 1758]	3033	[2125, 3946]	5050	[6177, 2391]	7067	[4942, 7578]
1017	[1759, 1705]	3034	[4319, 4127]	5051	[4874, 3738]	7068	[7579, 1636]
1018	[1760, 1761]	3035	[4320, 243]	5052	[2451, 4153]	7069	[4256, 2170]
1019	[1762, 1763]	3036	[4321, 2268]	5053	[6178, 831]	7070	[7580, 4001]
1020	[1764, 1765]	3037	[4322, 665]	5054	[6179, 4539]	7071	[709, 1905]
1021	[1766, 1767]	3038	[4323, 3942]	5055	[6180, 4982]	7072	[3739, 6821]
1022	[1768, 1769]	3039	[4324, 214]	5056	[6181, 729]	7073	[7581, 4635]
1023	[658, 9]	3040	[4129, 1972]	5057	[6182, 4607]	7074	[4140, 4730]

1024	[1606, 1770]	3041	[4325, 4326]	5058	[4408, 4598]	7075	[6283, 1894]
1025	[1771, 1772]	3042	[4327, 684]	5059	[6183, 1907]	7076	[509, 4622]
1026	[129, 1773]	3043	[2458, 4328]	5060	[6184, 4908]	7077	[4651, 4723]
1027	[1774, 1775]	3044	[4329, 780]	5061	[6185, 2140]	7078	[7578, 4101]
1028	[1776, 1777]	3045	[4330, 4331]	5062	[6186, 6187]	7079	[2255, 4388]
1029	[1778, 1779]	3046	[543, 2165]	5063	[6188, 4652]	7080	[6706, 4533]
1030	[1780, 866]	3047	[4332, 2473]	5064	[5005, 848]	7081	[6458, 885]
1031	[1781, 1782]	3048	[732, 706]	5065	[6189, 4575]	7082	[1837, 6295]
1032	[1783, 1784]	3049	[4333, 4310]	5066	[6190, 4347]	7083	[1807, 6824]
1033	[1785, 521]	3050	[4334, 4335]	5067	[6191, 4760]	7084	[7582, 4156]
1034	[1786, 1787]	3051	[4336, 4323]	5068	[6192, 2140]	7085	[4381, 4082]
1035	[799, 1788]	3052	[4337, 4338]	5069	[6193, 4370]	7086	[7583, 4456]
1036	[1789, 1752]	3053	[4339, 1575]	5070	[6194, 6195]	7087	[3995, 759]
1037	[1790, 1791]	3054	[4340, 4341]	5071	[4602, 3902]	7088	[7584, 4727]
1038	[1792, 1793]	3055	[4342, 4343]	5072	[6196, 2298]	7089	[7585, 6412]
1039	[1794, 1795]	3056	[2012, 4344]	5073	[6197, 244]	7090	[2430, 2500]
1040	[1662, 209]	3057	[4345, 4192]	5074	[6198, 4609]	7091	[6333, 4847]
1041	[1796, 681]	3058	[4346, 4347]	5075	[6199, 4752]	7092	[567, 4702]
1042	[630, 218]	3059	[4348, 4349]	5076	[6200, 1837]	7093	[4984, 4202]
1043	[1797, 1603]	3060	[4350, 4351]	5077	[821, 6201]	7094	[6230, 6633]
1044	[1798, 1799]	3061	[4352, 4353]	5078	[620, 1615]	7095	[7586, 7587]
1045	[673, 541]	3062	[4354, 4355]	5079	[6202, 639]	7096	[7588, 4170]
1046	[1800, 1801]	3063	[4328, 2205]	5080	[6203, 4935]	7097	[7589, 1914]
1047	[1802, 888]	3064	[4356, 4357]	5081	[1897, 2480]	7098	[7590, 530]
1048	[1803, 246]	3065	[4358, 2341]	5082	[1842, 2216]	7099	[4161, 788]
1049	[1804, 1805]	3066	[4359, 736]	5083	[6204, 1638]	7100	[7591, 1653]
1050	[1806, 1807]	3067	[1976, 731]	5084	[6205, 4087]	7101	[7592, 2491]
1051	[1808, 1809]	3068	[4360, 488]	5085	[4625, 873]	7102	[7593, 2162]
1052	[1810, 1715]	3069	[4361, 1891]	5086	[168, 882]	7103	[7594, 4250]
1053	[1811, 519]	3070	[4362, 1867]	5087	[6206, 2358]	7104	[6937, 1577]
1054	[1744, 1812]	3071	[4363, 4142]	5088	[765, 206]	7105	[7595, 4533]
1055	[1813, 1814]	3072	[4364, 779]	5089	[6207, 1635]	7106	[7596, 1958]
1056	[1815, 1816]	3073	[4365, 821]	5090	[6208, 1663]	7107	[1697, 6393]
1057	[1817, 141]	3074	[218, 160]	5091	[3975, 6209]	7108	[1885, 4560]
1058	[1818, 58]	3075	[4366, 1616]	5092	[6210, 4333]	7109	[6744, 7562]
1059	[1819, 579]	3076	[4367, 2379]	5093	[6211, 3928]	7110	[793, 1780]
1060	[1820, 1821]	3077	[4368, 638]	5094	[6212, 1751]	7111	[7597, 707]
1061	[1822, 1823]	3078	[4369, 1788]	5095	[6213, 4215]	7112	[3996, 4182]
1062	[1824, 639]	3079	[4370, 1922]	5096	[6214, 2445]	7113	[214, 6293]
1063	[1825, 1826]	3080	[4371, 4372]	5097	[6215, 241]	7114	[2434, 2067]
1064	[734, 1827]	3081	[4373, 1593]	5098	[6216, 1826]	7115	[4756, 490]
1065	[1828, 1829]	3082	[4374, 4375]	5099	[6217, 498]	7116	[7598, 495]
1066	[1830, 1831]	3083	[4376, 2247]	5100	[2190, 4105]	7117	[4269, 4187]
1067	[1832, 1833]	3084	[4377, 802]	5101	[6218, 4102]	7118	[7599, 6711]

1068	[1834, 1835]	3085	[4378, 1924]	5102	[6219, 3904]	7119	[6683, 6741]
1069	[1836, 1837]	3086	[4379, 2225]	5103	[6220, 3863]	7120	[1614, 3963]
1070	[1838, 1839]	3087	[4380, 4381]	5104	[6221, 2279]	7121	[7600, 1980]
1071	[1840, 722]	3088	[4382, 4146]	5105	[4932, 6222]	7122	[7601, 6876]
1072	[1841, 1842]	3089	[4383, 4384]	5106	[6223, 4722]	7123	[7602, 6600]
1073	[1843, 1844]	3090	[4385, 3731]	5107	[6224, 2013]	7124	[6325, 6807]
1074	[1845, 1846]	3091	[1693, 1874]	5108	[6225, 2112]	7125	[622, 7603]
1075	[1847, 1848]	3092	[4386, 675]	5109	[6226, 6227]	7126	[7604, 6244]
1076	[1849, 1822]	3093	[2479, 528]	5110	[6228, 4504]	7127	[6673, 2225]
1077	[1850, 1851]	3094	[4387, 4388]	5111	[6229, 6230]	7128	[7605, 1841]
1078	[1666, 597]	3095	[4389, 651]	5112	[1948, 4426]	7129	[7606, 2416]
1079	[1668, 1852]	3096	[4390, 811]	5113	[6231, 2081]	7130	[1682, 7607]
1080	[1853, 1854]	3097	[4391, 2389]	5114	[6232, 1709]	7131	[7608, 2152]
1081	[1855, 1856]	3098	[4392, 2332]	5115	[6233, 2160]	7132	[4698, 3814]
1082	[1857, 1716]	3099	[4393, 162]	5116	[6234, 2381]	7133	[6841, 6173]
1083	[1858, 1717]	3100	[4394, 4395]	5117	[6235, 1622]	7134	[7609, 6306]
1084	[1859, 1860]	3101	[3863, 4050]	5118	[6236, 6209]	7135	[7610, 6565]
1085	[1861, 1862]	3102	[4396, 4135]	5119	[6237, 6238]	7136	[7611, 4702]
1086	[188, 1863]	3103	[2083, 3795]	5120	[6239, 4292]	7137	[7612, 216]
1087	[1864, 832]	3104	[4397, 1999]	5121	[6240, 3806]	7138	[7613, 3871]
1088	[1865, 1866]	3105	[2323, 3818]	5122	[6241, 1815]	7139	[1729, 7614]
1089	[1648, 1867]	3106	[4398, 2034]	5123	[6242, 186]	7140	[6227, 2160]
1090	[1868, 1869]	3107	[4399, 627]	5124	[6243, 4705]	7141	[7615, 4988]
1091	[1870, 1871]	3108	[4400, 1991]	5125	[6244, 3939]	7142	[7616, 4342]
1092	[758, 1872]	3109	[3783, 1824]	5126	[4862, 6245]	7143	[7617, 2086]
1093	[1873, 1874]	3110	[4401, 4402]	5127	[4847, 4000]	7144	[7618, 4889]
1094	[1875, 172]	3111	[4403, 4404]	5128	[6246, 2172]	7145	[7619, 4297]
1095	[1876, 569]	3112	[4405, 4406]	5129	[2167, 662]	7146	[7620, 6319]
1096	[1877, 673]	3113	[726, 4407]	5130	[6247, 2311]	7147	[7621, 4478]
1097	[1878, 1879]	3114	[2080, 4408]	5131	[6248, 658]	7148	[7622, 7578]
1098	[1685, 1671]	3115	[4409, 2474]	5132	[6249, 4716]	7149	[6173, 2208]
1099	[595, 1880]	3116	[4410, 4411]	5133	[6250, 4119]	7150	[7623, 6355]
1100	[632, 1881]	3117	[4412, 2310]	5134	[6251, 6252]	7151	[4217, 4621]
1101	[647, 588]	3118	[4413, 4414]	5135	[4711, 6253]	7152	[1954, 6917]
1102	[1882, 672]	3119	[134, 4415]	5136	[6254, 2386]	7153	[2114, 556]
1103	[1883, 664]	3120	[4416, 2298]	5137	[1964, 657]	7154	[1911, 6526]
1104	[1884, 1885]	3121	[2112, 2489]	5138	[6255, 677]	7155	[7624, 2484]
1105	[1886, 1887]	3122	[4417, 4418]	5139	[4601, 4499]	7156	[7625, 7626]
1106	[1888, 1889]	3123	[4419, 1885]	5140	[692, 6256]	7157	[7627, 6803]
1107	[1890, 863]	3124	[1779, 2373]	5141	[6257, 2098]	7158	[7628, 2271]
1108	[1891, 32]	3125	[4420, 2318]	5142	[6258, 2100]	7159	[7629, 3773]
1109	[1892, 9]	3126	[4421, 826]	5143	[6259, 6260]	7160	[7630, 4436]
1110	[208, 1893]	3127	[4422, 503]	5144	[4793, 3897]	7161	[7631, 6673]
1111	[1894, 1895]	3128	[4423, 133]	5145	[6261, 6196]	7162	[7632, 2516]

1112	[1896, 1897]	3129	[4424, 1649]	5146	[4070, 3768]	7163	[4133, 4145]
1113	[1898, 1899]	3130	[1584, 169]	5147	[6262, 6263]	7164	[7633, 2004]
1114	[1869, 1605]	3131	[4425, 4426]	5148	[6264, 6265]	7165	[4085, 7634]
1115	[1900, 1901]	3132	[789, 4249]	5149	[4664, 2270]	7166	[7635, 7636]
1116	[1902, 1903]	3133	[4427, 4335]	5150	[1741, 4506]	7167	[7637, 6578]
1117	[1904, 1905]	3134	[4428, 4429]	5151	[6266, 3861]	7168	[3752, 1699]
1118	[1906, 1907]	3135	[4430, 2215]	5152	[6267, 3906]	7169	[7638, 3744]
1119	[1908, 1909]	3136	[4431, 777]	5153	[6268, 3860]	7170	[7639, 4344]
1120	[1910, 1911]	3137	[4258, 2332]	5154	[6269, 554]	7171	[7640, 2155]
1121	[1912, 1637]	3138	[4432, 1697]	5155	[6270, 3844]	7172	[7641, 621]
1122	[1913, 1914]	3139	[4433, 2102]	5156	[6271, 2238]	7173	[7642, 6807]
1123	[1915, 1916]	3140	[4434, 2474]	5157	[6272, 6273]	7174	[4991, 6549]
1124	[1917, 1824]	3141	[4435, 4436]	5158	[5018, 4381]	7175	[3823, 6356]
1125	[1918, 1574]	3142	[4437, 4438]	5159	[3831, 2219]	7176	[4910, 4261]
1126	[1919, 835]	3143	[2217, 4439]	5160	[6274, 4267]	7177	[7643, 585]
1127	[1920, 763]	3144	[4440, 192]	5161	[6275, 6256]	7178	[7644, 634]
1128	[1921, 1922]	3145	[4441, 1685]	5162	[4331, 691]	7179	[7645, 3992]
1129	[1750, 1923]	3146	[1610, 2388]	5163	[6276, 6277]	7180	[4607, 4810]
1130	[1924, 49]	3147	[4442, 4443]	5164	[6278, 1952]	7181	[1599, 6929]
1131	[1925, 1926]	3148	[4444, 2163]	5165	[2154, 584]	7182	[2094, 7646]
1132	[1927, 1928]	3149	[4445, 4341]	5166	[4278, 4043]	7183	[2068, 4668]
1133	[1929, 1930]	3150	[4446, 864]	5167	[6279, 3808]	7184	[7647, 7607]
1134	[1931, 1932]	3151	[4447, 518]	5168	[6280, 6281]	7185	[4884, 1589]
1135	[1933, 833]	3152	[4448, 836]	5169	[6282, 4237]	7186	[7648, 6291]
1136	[1934, 1935]	3153	[4449, 606]	5170	[2489, 6283]	7187	[7649, 6979]
1137	[1936, 534]	3154	[4450, 1967]	5171	[6284, 494]	7188	[7650, 4736]
1138	[1937, 1938]	3155	[653, 2497]	5172	[6285, 4910]	7189	[7651, 4260]
1139	[1939, 1940]	3156	[4451, 715]	5173	[2261, 4133]	7190	[150, 4873]
1140	[1941, 1942]	3157	[2148, 4353]	5174	[6286, 3730]	7191	[7652, 4205]
1141	[1943, 1944]	3158	[4452, 1784]	5175	[6287, 1582]	7192	[6328, 6710]
1142	[1945, 1946]	3159	[4453, 1684]	5176	[6288, 506]	7193	[2443, 4265]
1143	[1947, 1948]	3160	[4454, 147]	5177	[3856, 2519]	7194	[7653, 4837]
1144	[1949, 1950]	3161	[4455, 4456]	5178	[1856, 6289]	7195	[7654, 5008]
1145	[1951, 1952]	3162	[4457, 1902]	5179	[6290, 4678]	7196	[7655, 724]
1146	[1953, 1954]	3163	[4458, 1590]	5180	[2101, 3845]	7197	[7656, 4900]
1147	[1955, 1813]	3164	[4459, 2005]	5181	[4464, 6291]	7198	[7657, 3903]
1148	[1956, 1957]	3165	[4460, 4120]	5182	[6292, 6293]	7199	[4095, 6374]
1149	[1958, 1959]	3166	[4461, 1894]	5183	[4675, 2134]	7200	[7658, 6706]
1150	[1960, 1961]	3167	[4462, 1689]	5184	[6294, 846]	7201	[7659, 3942]
1151	[1962, 687]	3168	[3843, 1822]	5185	[6295, 4695]	7202	[7660, 4808]
1152	[1963, 1669]	3169	[4463, 2019]	5186	[6296, 220]	7203	[6658, 7587]
1153	[181, 1964]	3170	[571, 4464]	5187	[4833, 4951]	7204	[4903, 2498]
1154	[1965, 508]	3171	[4465, 2295]	5188	[6297, 4074]	7205	[6640, 2509]
1155	[1966, 826]	3172	[4466, 4467]	5189	[6195, 6196]	7206	[3854, 4553]

1156	[1967, 1742]	3173	[4468, 802]	5190	[6298, 674]	7207	[7661, 7644]
1157	[56, 1968]	3174	[4469, 4470]	5191	[6299, 1844]	7208	[7662, 6786]
1158	[1969, 679]	3175	[4471, 3745]	5192	[1848, 4792]	7209	[7663, 2303]
1159	[229, 1635]	3176	[4007, 2088]	5193	[6300, 6301]	7210	[7664, 584]
1160	[1970, 1587]	3177	[1860, 4472]	5194	[6302, 4867]	7211	[7665, 4378]
1161	[1971, 1972]	3178	[2239, 4473]	5195	[6303, 6304]	7212	[7666, 4396]
1162	[1973, 1974]	3179	[4474, 2158]	5196	[2005, 3756]	7213	[7667, 4556]
1163	[1975, 1976]	3180	[4475, 8]	5197	[3756, 4350]	7214	[4056, 1855]
1164	[1977, 875]	3181	[4476, 3922]	5198	[6305, 4630]	7215	[7668, 6922]
1165	[553, 176]	3182	[4477, 4418]	5199	[6306, 853]	7216	[1901, 3774]
1166	[1978, 1816]	3183	[697, 4478]	5200	[6307, 4346]	7217	[521, 177]
1167	[503, 1979]	3184	[4351, 4479]	5201	[6308, 2083]	7218	[7669, 6456]
1168	[1980, 806]	3185	[4480, 4397]	5202	[6309, 4594]	7219	[6515, 4673]
1169	[1981, 1982]	3186	[4481, 3919]	5203	[6310, 6311]	7220	[6304, 4891]
1170	[637, 828]	3187	[4482, 4218]	5204	[612, 6312]	7221	[7670, 4767]
1171	[1623, 769]	3188	[4483, 593]	5205	[6313, 504]	7222	[7671, 4326]
1172	[1983, 1984]	3189	[4484, 41]	5206	[6314, 3796]	7223	[4290, 3772]
1173	[1985, 567]	3190	[4485, 2395]	5207	[6315, 3879]	7224	[2135, 6286]
1174	[1986, 1690]	3191	[858, 4215]	5208	[6316, 3878]	7225	[641, 4601]
1175	[1987, 1807]	3192	[1787, 2383]	5209	[6317, 3964]	7226	[7672, 4864]
1176	[1988, 1634]	3193	[4486, 4487]	5210	[6318, 4140]	7227	[7673, 1731]
1177	[1880, 1989]	3194	[4488, 2480]	5211	[2180, 6319]	7228	[7674, 6274]
1178	[1990, 1991]	3195	[4489, 4490]	5212	[6320, 1878]	7229	[6979, 4929]
1179	[1992, 1993]	3196	[4491, 500]	5213	[3900, 1974]	7230	[6348, 2463]
1180	[1994, 1802]	3197	[4492, 1627]	5214	[4614, 4041]	7231	[7675, 4911]
1181	[1995, 134]	3198	[4493, 4494]	5215	[6321, 4844]	7232	[4900, 2311]
1182	[1996, 511]	3199	[4495, 4496]	5216	[6322, 1989]	7233	[4123, 4604]
1183	[1997, 816]	3200	[4497, 4383]	5217	[6323, 196]	7234	[7676, 1865]
1184	[138, 1998]	3201	[2253, 4498]	5218	[6324, 6325]	7235	[2056, 6711]
1185	[1999, 40]	3202	[4499, 4500]	5219	[4837, 4956]	7236	[6593, 518]
1186	[2000, 2001]	3203	[4501, 4044]	5220	[6326, 4116]	7237	[7677, 6493]
1187	[2002, 2003]	3204	[4502, 2520]	5221	[6327, 6328]	7238	[6529, 1825]
1188	[2004, 2005]	3205	[4503, 4504]	5222	[6329, 2281]	7239	[4199, 6506]
1189	[2006, 2007]	3206	[2074, 2416]	5223	[4308, 2131]	7240	[754, 6887]
1190	[2008, 843]	3207	[4505, 512]	5224	[6330, 4534]	7241	[879, 6744]
1191	[2009, 2010]	3208	[4506, 2039]	5225	[4271, 6274]	7242	[7678, 4853]
1192	[2011, 1890]	3209	[4507, 4508]	5226	[2286, 4331]	7243	[7679, 2264]
1193	[1664, 2012]	3210	[4509, 1901]	5227	[875, 6331]	7244	[7680, 4991]
1194	[2013, 41]	3211	[4510, 4511]	5228	[6332, 6333]	7245	[4808, 6683]
1195	[2014, 45]	3212	[4512, 4513]	5229	[624, 4028]	7246	[7681, 4526]
1196	[2015, 2016]	3213	[4443, 4514]	5230	[1928, 6334]	7247	[7682, 6334]
1197	[2017, 2018]	3214	[1905, 3989]	5231	[6335, 4681]	7248	[6524, 6273]
1198	[2019, 1588]	3215	[243, 4515]	5232	[2132, 2492]	7249	[7683, 3940]
1199	[2020, 1852]	3216	[4516, 2279]	5233	[6336, 4473]	7250	[7684, 4827]

1200	[2021, 2022]	3217	[4517, 4518]	5234	[4238, 1722]	7251	[7685, 4105]
1201	[2023, 2024]	3218	[4519, 3869]	5235	[6337, 2465]	7252	[7686, 6487]
1202	[2025, 2026]	3219	[4520, 210]	5236	[2231, 4967]	7253	[1618, 1622]
1203	[2027, 2028]	3220	[4521, 2001]	5237	[6338, 4515]	7254	[4579, 563]
1204	[2029, 35]	3221	[2137, 4522]	5238	[6339, 6268]	7255	[7687, 4154]
1205	[2030, 43]	3222	[4523, 1903]	5239	[6340, 2124]	7256	[1872, 4734]
1206	[2031, 497]	3223	[4524, 3954]	5240	[6341, 6267]	7257	[6659, 6588]
1207	[722, 520]	3224	[4525, 4526]	5241	[6342, 4286]	7258	[7688, 2501]
1208	[738, 2032]	3225	[4527, 2490]	5242	[6343, 1658]	7259	[3829, 6582]
1209	[2033, 2034]	3226	[4528, 4529]	5243	[1950, 190]	7260	[7689, 3997]
1210	[2035, 2036]	3227	[4003, 2468]	5244	[4167, 627]	7261	[4850, 6635]
1211	[2037, 2038]	3228	[529, 808]	5245	[6344, 6345]	7262	[705, 7690]
1212	[2039, 2040]	3229	[4530, 4395]	5246	[6346, 4108]	7263	[6168, 6774]
1213	[2041, 2042]	3230	[4531, 4532]	5247	[6347, 6348]	7264	[7691, 4408]
1214	[2043, 2044]	3231	[4533, 4534]	5248	[6349, 6350]	7265	[7692, 2458]
1215	[2045, 126]	3232	[4535, 4536]	5249	[6351, 4304]	7266	[7693, 6881]
1216	[8, 504]	3233	[4537, 4538]	5250	[6352, 6353]	7267	[7694, 2457]
1217	[2046, 1715]	3234	[3798, 4539]	5251	[4146, 4007]	7268	[4355, 3953]
1218	[2047, 2031]	3235	[4540, 4541]	5252	[6354, 33]	7269	[2314, 6252]
1219	[2048, 2049]	3236	[4542, 2325]	5253	[6355, 3881]	7270	[7695, 6728]
1220	[2050, 2051]	3237	[4210, 4543]	5254	[6356, 3890]	7271	[6778, 4606]
1221	[2052, 1838]	3238	[1587, 4177]	5255	[6357, 4384]	7272	[7696, 6717]
1222	[2053, 2054]	3239	[4544, 4237]	5256	[6256, 4227]	7273	[877, 554]
1223	[2055, 2056]	3240	[4545, 711]	5257	[6358, 6359]	7274	[7697, 7646]
1224	[2057, 712]	3241	[4546, 4252]	5258	[6360, 783]	7275	[679, 4259]
1225	[2058, 2059]	3242	[4547, 2453]	5259	[4543, 4512]	7276	[7698, 4446]
1226	[1612, 7]	3243	[4548, 4095]	5260	[6361, 3835]	7277	[6844, 3923]
1227	[2060, 2061]	3244	[4549, 4305]	5261	[6362, 6363]	7278	[7699, 7700]
1228	[2062, 2063]	3245	[2341, 4550]	5262	[6364, 4638]	7279	[7701, 2077]
1229	[811, 1710]	3246	[4551, 4552]	5263	[6365, 2486]	7280	[7702, 3877]
1230	[2001, 579]	3247	[4553, 4421]	5264	[6366, 147]	7281	[7703, 230]
1231	[2064, 2049]	3248	[3806, 4554]	5265	[6367, 6368]	7282	[4957, 3781]
1232	[649, 483]	3249	[4494, 1766]	5266	[2105, 4877]	7283	[7704, 6736]
1233	[1899, 2065]	3250	[4555, 3808]	5267	[4812, 1913]	7284	[7705, 2315]
1234	[1687, 804]	3251	[855, 4556]	5268	[486, 4591]	7285	[1959, 7706]
1235	[2066, 222]	3252	[62, 4557]	5269	[6369, 1747]	7286	[7707, 582]
1236	[2067, 2068]	3253	[4558, 2055]	5270	[1940, 6370]	7287	[7708, 3772]
1237	[2069, 1626]	3254	[4559, 1992]	5271	[4116, 4342]	7288	[6201, 6304]
1238	[773, 2070]	3255	[1767, 2110]	5272	[6371, 6372]	7289	[2072, 1593]
1239	[2071, 2072]	3256	[4560, 4291]	5273	[6373, 6374]	7290	[778, 7658]
1240	[2073, 2074]	3257	[4561, 4562]	5274	[6375, 1775]	7291	[867, 1987]
1241	[2075, 2076]	3258	[1932, 4563]	5275	[6376, 2355]	7292	[7709, 6808]
1242	[2077, 2078]	3259	[4564, 4181]	5276	[6377, 2203]	7293	[6686, 4076]
1243	[2079, 2080]	3260	[4565, 4013]	5277	[6378, 883]	7294	[4439, 4170]

1244	[2081, 2082]	3261	[4566, 703]	5278	[6379, 191]	7295	[2485, 4551]
1245	[2076, 2083]	3262	[4567, 4568]	5279	[6380, 2431]	7296	[7710, 4877]
1246	[2084, 2085]	3263	[4569, 4570]	5280	[6381, 4779]	7297	[583, 6651]
1247	[2086, 2087]	3264	[4571, 1881]	5281	[591, 3744]	7298	[4173, 3908]
1248	[2088, 880]	3265	[742, 2055]	5282	[6382, 3746]	7299	[2092, 4711]
1249	[2089, 2090]	3266	[4572, 4573]	5283	[6383, 2117]	7300	[7711, 6750]
1250	[2091, 2092]	3267	[4574, 11]	5284	[6384, 4623]	7301	[7712, 193]
1251	[2093, 2094]	3268	[4575, 1830]	5285	[4869, 2033]	7302	[2257, 2074]
1252	[2095, 2096]	3269	[4576, 1723]	5286	[6385, 4883]	7303	[7713, 4298]
1253	[133, 637]	3270	[4577, 488]	5287	[6386, 1682]	7304	[4534, 7714]
1254	[2097, 1623]	3271	[4578, 4579]	5288	[6387, 4708]	7305	[7715, 4605]
1255	[2098, 2099]	3272	[4580, 2504]	5289	[6388, 4538]	7306	[7716, 7717]
1256	[2100, 2101]	3273	[4581, 1836]	5290	[6389, 1730]	7307	[3809, 1761]
1257	[1989, 1868]	3274	[4582, 4583]	5291	[6390, 4836]	7308	[1862, 6423]
1258	[2102, 2103]	3275	[4584, 2323]	5292	[6391, 200]	7309	[6917, 4739]
1259	[2104, 2105]	3276	[3919, 3931]	5293	[6392, 6393]	7310	[7718, 2265]
1260	[2106, 2107]	3277	[4585, 1900]	5294	[4300, 1911]	7311	[4872, 6397]
1261	[2108, 1727]	3278	[4039, 3975]	5295	[643, 4681]	7312	[1754, 3742]
1262	[2109, 2110]	3279	[4316, 4586]	5296	[6394, 4644]	7313	[4035, 3927]
1263	[2111, 2112]	3280	[4587, 1740]	5297	[6395, 4854]	7314	[601, 2447]
1264	[2113, 2114]	3281	[4588, 4512]	5298	[1839, 719]	7315	[7719, 4989]
1265	[2115, 1657]	3282	[4589, 4590]	5299	[6396, 4965]	7316	[2107, 4081]
1266	[2116, 2117]	3283	[4591, 2287]	5300	[6397, 6398]	7317	[7720, 4684]
1267	[2118, 2119]	3284	[4592, 4355]	5301	[4980, 3966]	7318	[7721, 1734]
1268	[2120, 2121]	3285	[4593, 4594]	5302	[6399, 4761]	7319	[4470, 4974]
1269	[2122, 2123]	3286	[4595, 1961]	5303	[6400, 4101]	7320	[7722, 3759]
1270	[2124, 2125]	3287	[4596, 4597]	5304	[6401, 1660]	7321	[7723, 7724]
1271	[2126, 2127]	3288	[4598, 2224]	5305	[6402, 3813]	7322	[4234, 582]
1272	[2128, 1948]	3289	[4599, 1839]	5306	[6403, 2273]	7323	[7725, 7726]
1273	[2129, 2130]	3290	[4600, 4601]	5307	[6404, 547]	7324	[7727, 6331]
1274	[2131, 2132]	3291	[3858, 4602]	5308	[6405, 4548]	7325	[7728, 6887]
1275	[2133, 2134]	3292	[4603, 4604]	5309	[4158, 2490]	7326	[7729, 4312]
1276	[2063, 2135]	3293	[1952, 4496]	5310	[6406, 6407]	7327	[4090, 4579]
1277	[2136, 2137]	3294	[4605, 4349]	5311	[4541, 4653]	7328	[2200, 1720]
1278	[2138, 2139]	3295	[4606, 4531]	5312	[4252, 876]	7329	[3904, 2002]
1279	[2140, 199]	3296	[3964, 4607]	5313	[6408, 685]	7330	[4120, 6846]
1280	[2141, 2142]	3297	[1654, 4161]	5314	[6409, 2039]	7331	[686, 4686]
1281	[2143, 2144]	3298	[4608, 590]	5315	[6410, 635]	7332	[7730, 2521]
1282	[1638, 2145]	3299	[4609, 4610]	5316	[6411, 3854]	7333	[7731, 2330]
1283	[2146, 1661]	3300	[4611, 2520]	5317	[1801, 6412]	7334	[2245, 6593]
1284	[2147, 2148]	3301	[4612, 2175]	5318	[6413, 4793]	7335	[1791, 5012]
1285	[1773, 2149]	3302	[4613, 3949]	5319	[6414, 549]	7336	[7732, 6177]
1286	[2150, 2151]	3303	[3876, 4614]	5320	[6415, 4337]	7337	[186, 2351]
1287	[2152, 2114]	3304	[4615, 2257]	5321	[6416, 4739]	7338	[4971, 6325]

1288	[2153, 2154]	3305	[4616, 4617]	5322	[2318, 836]	7339	[7733, 6383]
1289	[2155, 2156]	3306	[4618, 536]	5323	[1683, 494]	7340	[3978, 6191]
1290	[2157, 1915]	3307	[4619, 2125]	5324	[6417, 4811]	7341	[7734, 4566]
1291	[2158, 2159]	3308	[4620, 1717]	5325	[2417, 6418]	7342	[1814, 4136]
1292	[2160, 2161]	3309	[4621, 714]	5326	[6419, 3971]	7343	[7735, 2406]
1293	[2162, 2163]	3310	[4622, 4623]	5327	[6420, 6162]	7344	[7736, 775]
1294	[2164, 2165]	3311	[4624, 4625]	5328	[4213, 4889]	7345	[1727, 7644]
1295	[2166, 2167]	3312	[4626, 1592]	5329	[6421, 6302]	7346	[4554, 4778]
1296	[2099, 1945]	3313	[4627, 1759]	5330	[6422, 4639]	7347	[7737, 6529]
1297	[537, 163]	3314	[4628, 1599]	5331	[6423, 6326]	7348	[7738, 4772]
1298	[2168, 776]	3315	[4629, 4630]	5332	[2003, 4217]	7349	[1854, 4430]
1299	[2169, 2170]	3316	[4631, 4106]	5333	[1863, 1797]	7350	[7739, 6716]
1300	[2171, 2172]	3317	[4632, 4633]	5334	[3955, 3831]	7351	[2103, 4012]
1301	[2173, 2174]	3318	[4019, 2027]	5335	[1723, 2350]	7352	[491, 2264]
1302	[2175, 1887]	3319	[2127, 744]	5336	[6424, 3990]	7353	[7740, 4902]
1303	[580, 2176]	3320	[4634, 3845]	5337	[2203, 2439]	7354	[7741, 4243]
1304	[2177, 2178]	3321	[1799, 4635]	5338	[1881, 1653]	7355	[50, 6677]
1305	[2179, 2180]	3322	[4636, 2339]	5339	[6425, 4204]	7356	[7742, 4723]
1306	[2181, 2182]	3323	[4637, 4638]	5340	[6426, 2352]	7357	[1649, 4277]
1307	[2183, 2184]	3324	[4639, 4035]	5341	[6427, 4754]	7358	[4418, 6451]
1308	[2185, 2186]	3325	[4640, 525]	5342	[3736, 4433]	7359	[1758, 2352]
1309	[2187, 529]	3326	[4641, 1932]	5343	[6428, 4109]	7360	[2235, 1977]
1310	[2188, 2189]	3327	[4642, 1960]	5344	[6429, 3918]	7361	[6701, 4122]
1311	[146, 2190]	3328	[4438, 2245]	5345	[3773, 2460]	7362	[6510, 6925]
1312	[2191, 2192]	3329	[2119, 4643]	5346	[4168, 2246]	7363	[500, 6977]
1313	[2193, 2136]	3330	[1823, 1800]	5347	[6281, 4764]	7364	[4643, 4419]
1314	[2194, 2195]	3331	[4644, 4645]	5348	[3791, 6372]	7365	[2426, 2128]
1315	[2196, 761]	3332	[4646, 2443]	5349	[1676, 1614]	7366	[3881, 1943]
1316	[2197, 2198]	3333	[4647, 4648]	5350	[6430, 4062]	7367	[3871, 4786]
1317	[2199, 2200]	3334	[4649, 4167]	5351	[6431, 2096]	7368	[6970, 4397]
1318	[2201, 2202]	3335	[4650, 4651]	5352	[6432, 591]	7369	[7743, 2353]
1319	[756, 2203]	3336	[2121, 4652]	5353	[6433, 2230]	7370	[4691, 4983]
1320	[2204, 2205]	3337	[4653, 4654]	5354	[6434, 4559]	7371	[7744, 4956]
1321	[2206, 752]	3338	[2263, 3853]	5355	[6435, 4464]	7372	[7745, 6356]
1322	[2207, 2208]	3339	[4655, 1924]	5356	[6436, 4350]	7373	[7746, 2193]
1323	[2209, 688]	3340	[4656, 4657]	5357	[6437, 4704]	7374	[740, 7726]
1324	[2210, 2141]	3341	[4658, 3764]	5358	[4250, 2043]	7375	[807, 6558]
1325	[2211, 1773]	3342	[1805, 3920]	5359	[6438, 3812]	7376	[42, 6841]
1326	[2212, 2213]	3343	[4659, 1909]	5360	[6439, 2054]	7377	[4104, 4240]
1327	[2214, 2215]	3344	[4660, 4661]	5361	[6440, 754]	7378	[6484, 4166]
1328	[2216, 2217]	3345	[4662, 848]	5362	[6441, 4957]	7379	[4635, 685]
1329	[2218, 2219]	3346	[4663, 4664]	5363	[1634, 6442]	7380	[7747, 6628]
1330	[2220, 2221]	3347	[4665, 1581]	5364	[6443, 563]	7381	[3910, 6468]
1331	[2222, 2223]	3348	[1701, 4346]	5365	[4375, 767]	7382	[7748, 3810]

1332	[2224, 668]	3349	[4666, 2419]	5366	[6444, 6445]	7383	[7749, 6312]
1333	[2225, 2226]	3350	[4667, 3823]	5367	[2299, 1772]	7384	[4594, 7750]
1334	[2227, 1765]	3351	[669, 4269]	5368	[1772, 6195]	7385	[7751, 6738]
1335	[728, 2228]	3352	[4668, 4669]	5369	[4074, 6301]	7386	[677, 1878]
1336	[2229, 1753]	3353	[4670, 2512]	5370	[767, 6445]	7387	[7752, 4668]
1337	[2230, 2231]	3354	[4671, 4292]	5371	[3747, 6446]	7388	[2208, 5025]
1338	[884, 2232]	3355	[4672, 4673]	5372	[6447, 6225]	7389	[7753, 6183]
1339	[2233, 799]	3356	[4674, 4675]	5373	[1784, 4870]	7390	[6293, 2336]
1340	[2234, 2235]	3357	[4676, 548]	5374	[6448, 706]	7391	[3973, 4154]
1341	[2236, 2237]	3358	[4677, 4678]	5375	[6449, 6442]	7392	[158, 6368]
1342	[2238, 2239]	3359	[4679, 2274]	5376	[4467, 1912]	7393	[7754, 1577]
1343	[2240, 2241]	3360	[4680, 3977]	5377	[6450, 2394]	7394	[6873, 4914]
1344	[1761, 2242]	3361	[4681, 4682]	5378	[6451, 2235]	7395	[715, 2478]
1345	[2243, 676]	3362	[4683, 4667]	5379	[6452, 6453]	7396	[7755, 4530]
1346	[2244, 2245]	3363	[4684, 1696]	5380	[6454, 6283]	7397	[6858, 6689]
1347	[2246, 2247]	3364	[4685, 3776]	5381	[6455, 4559]	7398	[6289, 4648]
1348	[2248, 2142]	3365	[4686, 2079]	5382	[4349, 4632]	7399	[2130, 6795]
1349	[1793, 11]	3366	[2271, 4625]	5383	[6456, 4593]	7400	[7756, 590]
1350	[1844, 539]	3367	[4687, 698]	5384	[4645, 1597]	7401	[6493, 1672]
1351	[2249, 2250]	3368	[4661, 212]	5385	[6457, 6458]	7402	[4310, 2394]
1352	[2251, 738]	3369	[4688, 4689]	5386	[2413, 6271]	7403	[3888, 4090]
1353	[2252, 2253]	3370	[4690, 2241]	5387	[1747, 508]	7404	[2078, 4280]
1354	[2254, 2255]	3371	[857, 4691]	5388	[6459, 6460]	7405	[6664, 6601]
1355	[2256, 2257]	3372	[4692, 4061]	5389	[6461, 4611]	7406	[6728, 3977]
1356	[2258, 2259]	3373	[4610, 2283]	5390	[6462, 4234]	7407	[190, 3837]
1357	[2260, 2261]	3374	[4693, 2400]	5391	[2044, 4294]	7408	[7757, 6542]
1358	[2262, 2263]	3375	[4694, 3920]	5392	[6463, 1702]	7409	[2506, 5010]
1359	[2264, 2265]	3376	[2499, 4245]	5393	[6464, 4645]	7410	[7758, 3734]
1360	[2266, 2108]	3377	[4695, 3885]	5394	[4353, 3752]	7411	[1580, 4671]
1361	[2267, 1759]	3378	[4696, 4513]	5395	[6465, 531]	7412	[7759, 6510]
1362	[2268, 2269]	3379	[4697, 4698]	5396	[1663, 4243]	7413	[7760, 2437]
1363	[2270, 2271]	3380	[3944, 4699]	5397	[6466, 575]	7414	[1851, 2006]
1364	[2272, 542]	3381	[4700, 3927]	5398	[6467, 6169]	7415	[1578, 7650]
1365	[2273, 2274]	3382	[4701, 2499]	5399	[6468, 6339]	7416	[2026, 6873]
1366	[2275, 2276]	3383	[4179, 562]	5400	[6469, 6470]	7417	[7761, 7603]
1367	[2277, 753]	3384	[4702, 4703]	5401	[6471, 2381]	7418	[7762, 6572]
1368	[2278, 2139]	3385	[4704, 2280]	5402	[6472, 4325]	7419	[3825, 1728]
1369	[2279, 2063]	3386	[4705, 2084]	5403	[6473, 4470]	7420	[4568, 4845]
1370	[2280, 2281]	3387	[4706, 4707]	5404	[6474, 4498]	7421	[6833, 4843]
1371	[2282, 2283]	3388	[4058, 4304]	5405	[6475, 4359]	7422	[7763, 4586]
1372	[2284, 2085]	3389	[4708, 794]	5406	[216, 1835]	7423	[7764, 4622]
1373	[2285, 2286]	3390	[4709, 2043]	5407	[6476, 6477]	7424	[7765, 6588]
1374	[2287, 1750]	3391	[4710, 4711]	5408	[6478, 535]	7425	[7766, 4442]
1375	[2022, 2288]	3392	[4712, 2503]	5409	[6479, 4997]	7426	[6977, 4850]

1376	[2289, 1751]	3393	[4713, 2505]	5410	[6480, 2018]	7427	[48, 4902]
1377	[2290, 852]	3394	[4714, 1937]	5411	[6481, 2331]	7428	[3818, 4627]
1378	[2291, 682]	3395	[2195, 4383]	5412	[6482, 6483]	7429	[7767, 3986]
1379	[2292, 1955]	3396	[4715, 4435]	5413	[2333, 6484]	7430	[6555, 2275]
1380	[2165, 2293]	3397	[4669, 4716]	5414	[6485, 2176]	7431	[7768, 4259]
1381	[2294, 1742]	3398	[4717, 730]	5415	[6486, 1895]	7432	[3946, 6220]
1382	[2295, 2296]	3399	[4718, 1639]	5416	[6487, 4236]	7433	[7769, 7750]
1383	[2297, 2296]	3400	[4562, 2004]	5417	[4657, 2026]	7434	[7770, 3837]
1384	[2298, 2299]	3401	[4719, 4029]	5418	[247, 1643]	7435	[4051, 4378]
1385	[2300, 812]	3402	[4720, 4005]	5419	[6488, 2469]	7436	[7771, 2216]
1386	[2301, 810]	3403	[4721, 2498]	5420	[6489, 4477]	7437	[7772, 2340]
1387	[2302, 1851]	3404	[4722, 3932]	5421	[6490, 6214]	7438	[7773, 4285]
1388	[2303, 660]	3405	[2373, 4068]	5422	[6491, 1938]	7439	[6839, 4503]
1389	[2304, 1572]	3406	[4723, 2221]	5423	[6492, 4246]	7440	[6821, 6995]
1390	[172, 2072]	3407	[3745, 2272]	5424	[4734, 6493]	7441	[4784, 4772]
1391	[2305, 2306]	3408	[4724, 4725]	5425	[6494, 2377]	7442	[7774, 2454]
1392	[2307, 600]	3409	[4726, 4168]	5426	[6495, 4712]	7443	[7775, 6563]
1393	[495, 227]	3410	[4727, 3833]	5427	[6496, 4961]	7444	[7776, 4466]
1394	[1770, 1678]	3411	[4728, 4729]	5428	[6497, 537]	7445	[2172, 3865]
1395	[2308, 607]	3412	[4730, 2465]	5429	[6498, 4032]	7446	[4508, 6282]
1396	[2309, 2310]	3413	[4053, 745]	5430	[6499, 1580]	7447	[7777, 6418]
1397	[2311, 2312]	3414	[4731, 2357]	5431	[6500, 4521]	7448	[7778, 2058]
1398	[2313, 2314]	3415	[4732, 1669]	5432	[6501, 489]	7449	[6889, 6277]
1399	[2315, 2171]	3416	[4733, 4734]	5433	[6502, 4213]	7450	[1736, 2522]
1400	[2316, 2301]	3417	[4735, 4736]	5434	[6503, 245]	7451	[7779, 7658]
1401	[2317, 2318]	3418	[4737, 4593]	5435	[6504, 4943]	7452	[7780, 6376]
1402	[2319, 1869]	3419	[3934, 3870]	5436	[6505, 2451]	7453	[7781, 1778]
1403	[1923, 61]	3420	[3759, 4429]	5437	[6506, 2261]	7454	[4048, 3734]
1404	[2320, 1896]	3421	[4738, 2206]	5438	[6507, 6397]	7455	[6334, 4545]
1405	[2321, 1983]	3422	[4739, 709]	5439	[869, 1983]	7456	[3811, 7717]
1406	[2322, 2323]	3423	[4740, 564]	5440	[3992, 4727]	7457	[4716, 2339]
1407	[2324, 2325]	3424	[4741, 4742]	5441	[1703, 3991]	7458	[7782, 2361]
1408	[2326, 2327]	3425	[4743, 128]	5442	[6508, 2349]	7459	[6187, 4749]
1409	[2328, 131]	3426	[4744, 3747]	5443	[4761, 4248]	7460	[7783, 3805]
1410	[2329, 2080]	3427	[1590, 4745]	5444	[682, 4102]	7461	[7784, 2002]
1411	[2330, 2331]	3428	[597, 4746]	5445	[834, 6311]	7462	[7785, 4637]
1412	[2332, 2333]	3429	[4747, 4149]	5446	[2241, 4674]	7463	[2312, 6562]
1413	[2334, 239]	3430	[4748, 4749]	5447	[6509, 815]	7464	[7786, 4835]
1414	[2335, 2336]	3431	[4750, 2044]	5448	[206, 6510]	7465	[194, 7724]
1415	[2337, 2338]	3432	[4648, 4751]	5449	[2327, 6511]	7466	[7787, 4197]
1416	[1974, 716]	3433	[4522, 4752]	5450	[1833, 215]	7467	[4689, 6267]
1417	[551, 671]	3434	[2439, 4722]	5451	[6512, 3795]	7468	[7788, 4800]
1418	[2339, 756]	3435	[4753, 4754]	5452	[6513, 4467]	7469	[4829, 4705]
1419	[2340, 2341]	3436	[4755, 4756]	5453	[6514, 1706]	7470	[7789, 4233]

1420	[2342, 2343]	3437	[2408, 1734]	5454	[1879, 6515]	7471	[2523, 7700]
1421	[2344, 2345]	3438	[4757, 3991]	5455	[6516, 4411]	7472	[2096, 1936]
1422	[2346, 2347]	3439	[4758, 2272]	5456	[6517, 2401]	7473	[2525, 4962]
1423	[2348, 2349]	3440	[2090, 2223]	5457	[6518, 3972]	7474	[7790, 552]
1424	[2350, 2021]	3441	[4759, 3754]	5458	[6519, 3779]	7475	[7791, 6451]
1425	[2351, 2262]	3442	[4760, 4761]	5459	[6520, 1780]	7476	[7792, 6318]
1426	[2352, 2017]	3443	[4762, 2046]	5460	[6521, 4046]	7477	[7793, 1786]
1427	[2353, 2354]	3444	[4763, 4764]	5461	[1594, 3969]	7478	[4556, 4697]
1428	[2355, 2356]	3445	[4765, 795]	5462	[2460, 1843]	7479	[559, 4932]
1429	[1982, 2357]	3446	[4766, 1720]	5463	[6522, 4211]	7480	[7794, 4730]
1430	[2036, 2358]	3447	[4767, 4768]	5464	[6523, 6524]	7481	[7795, 2350]
1431	[2359, 2229]	3448	[4769, 3757]	5465	[6525, 1999]	7482	[164, 3780]
1432	[1852, 1572]	3449	[4001, 4770]	5466	[6526, 4864]	7483	[7796, 3856]
1433	[2360, 1856]	3450	[4771, 1779]	5467	[6527, 4190]	7484	[4586, 6678]
1434	[2361, 2362]	3451	[4772, 4412]	5468	[6301, 4191]	7485	[7797, 2403]
1435	[2363, 1930]	3452	[4773, 1753]	5469	[6528, 2422]	7486	[750, 4442]
1436	[2364, 2089]	3453	[4774, 2286]	5470	[3878, 4242]	7487	[4286, 2081]
1437	[2365, 2091]	3454	[4775, 2022]	5471	[2491, 6529]	7488	[231, 6383]
1438	[2366, 647]	3455	[3775, 4776]	5472	[2159, 4516]	7489	[1775, 2477]
1439	[2367, 2368]	3456	[4777, 4751]	5473	[752, 4015]	7490	[7798, 7706]
1440	[2369, 235]	3457	[4778, 4779]	5474	[1809, 6530]	7491	[7799, 2079]
1441	[2370, 2371]	3458	[4780, 4698]	5475	[6531, 2095]	7492	[7800, 4340]
1442	[2372, 2373]	3459	[4781, 4782]	5476	[6532, 4613]	7493	[7801, 6836]
1443	[2374, 2375]	3460	[4783, 4019]	5477	[2228, 1708]	7494	[7802, 4110]
1444	[2213, 1692]	3461	[4623, 4784]	5478	[6533, 2426]	7495	[7803, 4114]
1445	[2376, 2377]	3462	[4785, 3829]	5479	[6534, 4555]	7496	[7804, 4746]
1446	[2378, 2379]	3463	[618, 4066]	5480	[6535, 742]	7497	[2221, 3824]
1447	[212, 649]	3464	[2265, 546]	5481	[6536, 4584]	7498	[2456, 861]
1448	[1812, 575]	3465	[4786, 4110]	5482	[6537, 4163]	7499	[717, 4314]
1449	[2380, 577]	3466	[4787, 1992]	5483	[4181, 4911]	7500	[7805, 6967]
1450	[2381, 2382]	3467	[4788, 2299]	5484	[6538, 4962]	7501	[1893, 1846]
1451	[2383, 2384]	3468	[4190, 4375]	5485	[6539, 3954]	7502	[1746, 7655]
1452	[2385, 2386]	3469	[4789, 4191]	5486	[6540, 2087]	7503	[1991, 4767]
1453	[1620, 551]	3470	[4790, 4791]	5487	[6541, 4654]	7504	[7806, 4166]
1454	[2387, 2388]	3471	[4792, 2295]	5488	[6398, 4334]	7505	[2087, 4573]
1455	[578, 493]	3472	[4791, 4793]	5489	[4764, 2314]	7506	[7807, 2500]
1456	[2215, 2389]	3473	[4794, 4792]	5490	[6542, 2359]	7507	[7808, 3781]
1457	[2390, 620]	3474	[3768, 4791]	5491	[6543, 2056]	7508	[7809, 7655]
1458	[2391, 146]	3475	[4795, 2383]	5492	[6544, 2517]	7509	[2040, 6348]
1459	[2392, 2393]	3476	[4796, 4103]	5493	[6545, 650]	7510	[7810, 6516]
1460	[2394, 2076]	3477	[4797, 2101]	5494	[6546, 807]	7511	[6710, 4611]
1461	[828, 2395]	3478	[4798, 169]	5495	[3895, 4210]	7512	[7811, 2035]
1462	[2396, 2397]	3479	[4799, 781]	5496	[4538, 3980]	7513	[7812, 3738]
1463	[2398, 209]	3480	[4800, 4801]	5497	[5014, 4018]	7514	[2034, 2376]

1464	[2399, 1850]	3481	[4802, 4632]	5498	[6446, 878]	7515	[7813, 4537]
1465	[2400, 236]	3482	[4803, 44]	5499	[6547, 882]	7516	[736, 2289]
1466	[2401, 587]	3483	[4804, 1814]	5500	[4844, 750]	7517	[6998, 1598]
1467	[2402, 1664]	3484	[4805, 1975]	5501	[6548, 6549]	7518	[1714, 6686]
1468	[2250, 729]	3485	[4806, 4320]	5502	[6550, 2239]	7519	[7814, 4807]
1469	[2403, 2404]	3486	[4807, 690]	5503	[6551, 4951]	7520	[1816, 4570]
1470	[1627, 781]	3487	[4175, 4808]	5504	[6552, 3963]	7521	[7815, 6253]
1471	[835, 1689]	3488	[4809, 1703]	5505	[4552, 4226]	7522	[813, 6359]
1472	[223, 2405]	3489	[4810, 4811]	5506	[823, 3962]	7523	[6477, 4840]
1473	[2184, 60]	3490	[2325, 4617]	5507	[4344, 2051]	7524	[547, 7626]
1474	[1628, 33]	3491	[2123, 4812]	5508	[4550, 4664]	7525	[7816, 6839]
1475	[2406, 568]	3492	[4813, 4641]	5509	[1, 1619]	7526	[7817, 4968]
1476	[507, 244]	3493	[4814, 782]	5510	[6553, 6484]	7527	[2388, 765]
1477	[2407, 2408]	3494	[4815, 10]	5511	[6554, 6555]	7528	[4076, 3810]
1478	[2409, 1793]	3495	[4816, 4123]	5512	[6556, 2256]	7529	[7562, 2330]
1479	[2410, 1964]	3496	[489, 1942]	5513	[6557, 2091]	7530	[7818, 3978]
1480	[2059, 1896]	3497	[4817, 2424]	5514	[2336, 1950]	7531	[7819, 4400]
1481	[2411, 228]	3498	[2497, 678]	5515	[6558, 6559]	7532	[7820, 6758]
1482	[2412, 2413]	3499	[4818, 4245]	5516	[6560, 2033]	7533	[3796, 4078]
1483	[2414, 2415]	3500	[4242, 516]	5517	[3989, 4853]	7534	[7821, 6759]
1484	[2416, 2417]	3501	[4819, 4472]	5518	[4590, 6177]	7535	[4892, 7636]
1485	[2418, 2419]	3502	[204, 2086]	5519	[6561, 6562]	7536	[1831, 4332]
1486	[2420, 2421]	3503	[4820, 2088]	5520	[1821, 6563]	7537	[7822, 490]
1487	[607, 2422]	3504	[2349, 3766]	5521	[6564, 2511]	7538	[7823, 2316]
1488	[2423, 2067]	3505	[771, 4821]	5522	[4135, 6565]	7539	[2139, 4490]
1489	[1867, 208]	3506	[4822, 4602]	5523	[4109, 213]	7540	[7824, 4922]
1490	[2424, 1890]	3507	[4823, 813]	5524	[6566, 6185]	7541	[7587, 4025]
1491	[2425, 2426]	3508	[4824, 1766]	5525	[6567, 1818]	7542	[7825, 1774]
1492	[2174, 2024]	3509	[4825, 4810]	5526	[2149, 2048]	7543	[7826, 2]
1493	[2293, 2427]	3510	[4826, 2384]	5527	[6568, 4357]	7544	[713, 4064]
1494	[2428, 502]	3511	[4827, 883]	5528	[6569, 2202]	7545	[6836, 4524]
1495	[2429, 881]	3512	[4828, 4829]	5529	[6570, 4589]	7546	[4473, 4756]
1496	[1914, 2430]	3513	[4830, 61]	5530	[6571, 1787]	7547	[1616, 4434]
1497	[2431, 2400]	3514	[4831, 4334]	5531	[6572, 4517]	7548	[3815, 6572]
1498	[2432, 630]	3515	[719, 2189]	5532	[6573, 2119]	7549	[7827, 6689]
1499	[2433, 787]	3516	[4832, 4833]	5533	[6574, 1836]	7550	[3833, 548]
1500	[1725, 2434]	3517	[3764, 4452]	5534	[6575, 624]	7551	[6209, 6990]
1501	[1874, 775]	3518	[4834, 525]	5535	[4106, 2303]	7552	[7828, 2027]
1502	[2435, 804]	3519	[4835, 4404]	5536	[535, 6574]	7553	[7829, 1319]
1503	[2436, 1831]	3520	[1777, 4836]	5537	[6576, 6577]	7554	[7830, 458]
1504	[2437, 1756]	3521	[1835, 4837]	5538	[3912, 3970]	7555	[3646, 1096]
1505	[2438, 2439]	3522	[4838, 617]	5539	[4043, 6578]	7556	[7831, 5158]
1506	[2440, 2441]	3523	[4839, 4840]	5540	[6579, 2194]	7557	[5447, 3362]
1507	[2442, 2443]	3524	[4841, 1683]	5541	[6580, 2028]	7558	[2841, 1502]

1508	[2276, 1838]	3525	[4842, 4412]	5542	[6581, 2276]	7559	[7832, 3389]
1509	[2444, 2293]	3526	[4843, 801]	5543	[6582, 4667]	7560	[2936, 2624]
1510	[2445, 184]	3527	[4032, 4844]	5544	[6583, 6286]	7561	[7833, 2829]
1511	[2446, 2447]	3528	[4845, 4562]	5545	[1968, 4530]	7562	[7834, 3510]
1512	[2448, 2449]	3529	[4846, 4847]	5546	[4899, 5014]	7563	[3176, 397]
1513	[1646, 616]	3530	[4770, 2390]	5547	[562, 1702]	7564	[5636, 1039]
1514	[2450, 2451]	3531	[4848, 2240]	5548	[6584, 4659]	7565	[3374, 1464]
1515	[2452, 2453]	3532	[4849, 4850]	5549	[628, 4119]	7566	[7835, 947]
1516	[2454, 1639]	3533	[4851, 3828]	5550	[6585, 486]	7567	[7836, 1114]
1517	[2455, 2456]	3534	[4254, 2237]	5551	[6586, 4031]	7568	[7837, 3586]
1518	[2457, 2441]	3535	[4852, 2523]	5552	[6587, 6527]	7569	[1372, 3039]
1519	[2144, 2458]	3536	[4853, 4854]	5553	[6588, 2151]	7570	[378, 5305]
1520	[2459, 2460]	3537	[4855, 4776]	5554	[6353, 6453]	7571	[7838, 2893]
1521	[2461, 7]	3538	[4856, 2246]	5555	[245, 889]	7572	[7839, 3724]
1522	[176, 2038]	3539	[4857, 1959]	5556	[3936, 6175]	7573	[7840, 5977]
1523	[2462, 2463]	3540	[4335, 753]	5557	[3742, 1701]	7574	[7841, 1292]
1524	[2464, 692]	3541	[4858, 855]	5558	[6589, 6398]	7575	[3405, 6145]
1525	[2465, 1626]	3542	[3861, 4859]	5559	[1625, 4435]	7576	[7842, 930]
1526	[2466, 879]	3543	[4860, 2228]	5560	[6590, 3814]	7577	[5516, 5255]
1527	[154, 1802]	3544	[4861, 4862]	5561	[6591, 1659]	7578	[7843, 2590]
1528	[2467, 2468]	3545	[4863, 1855]	5562	[6592, 6593]	7579	[119, 7084]
1529	[1740, 2469]	3546	[4749, 4337]	5563	[2377, 2233]	7580	[3332, 967]
1530	[2470, 2471]	3547	[4050, 4340]	5564	[6594, 3792]	7581	[1401, 301]
1531	[2472, 2473]	3548	[4864, 150]	5565	[4751, 4605]	7582	[5561, 3531]
1532	[2474, 1725]	3549	[3926, 822]	5566	[6595, 2195]	7583	[7844, 2655]
1533	[2475, 2476]	3550	[4865, 4136]	5567	[6596, 2070]	7584	[7845, 291]
1534	[2477, 2413]	3551	[4866, 4867]	5568	[6597, 6521]	7585	[5674, 5747]
1535	[2478, 2479]	3552	[4868, 4869]	5569	[6598, 4610]	7586	[7846, 3695]
1536	[1944, 156]	3553	[4870, 617]	5570	[6599, 1912]	7587	[7847, 1495]
1537	[2480, 629]	3554	[4871, 4872]	5571	[6265, 4583]	7588	[3724, 1134]
1538	[2481, 631]	3555	[4873, 4874]	5572	[6600, 6328]	7589	[7848, 3520]
1539	[2482, 55]	3556	[2145, 4359]	5573	[6601, 1738]	7590	[81, 3674]
1540	[2483, 837]	3557	[4875, 2137]	5574	[6602, 6559]	7591	[974, 3070]
1541	[2484, 2485]	3558	[4854, 1960]	5575	[6603, 1951]	7592	[3025, 3241]
1542	[2486, 2487]	3559	[4876, 864]	5576	[6604, 6265]	7593	[7849, 2534]
1543	[2488, 2489]	3560	[4877, 4003]	5577	[6605, 2510]	7594	[7850, 5543]
1544	[2490, 2491]	3561	[4878, 4284]	5578	[6606, 6281]	7595	[7851, 1256]
1545	[2492, 2493]	3562	[4879, 4125]	5579	[6607, 3824]	7596	[7852, 5170]
1546	[2494, 2495]	3563	[4880, 4829]	5580	[6608, 194]	7597	[7853, 1222]
1547	[797, 1940]	3564	[762, 552]	5581	[2024, 4894]	7598	[7854, 85]
1548	[2496, 2497]	3565	[4881, 669]	5582	[6609, 6601]	7599	[2823, 5076]
1549	[2498, 2499]	3566	[4882, 3819]	5583	[6610, 3976]	7600	[5587, 3393]
1550	[2500, 2501]	3567	[4883, 4884]	5584	[6611, 3969]	7601	[7855, 3010]
1551	[2502, 728]	3568	[1961, 4712]	5585	[6612, 6295]	7602	[1303, 1404]

1552	[2503, 2504]	3569	[4885, 4553]	5586	[6613, 3758]	7603	[7856, 7400]
1553	[2505, 2107]	3570	[4886, 181]	5587	[6614, 2425]	7604	[6003, 2765]
1554	[2447, 2506]	3571	[4887, 1926]	5588	[6615, 2385]	7605	[7857, 5952]
1555	[2507, 1813]	3572	[4888, 3739]	5589	[4347, 3967]	7606	[7858, 3685]
1556	[2508, 2156]	3573	[2232, 1820]	5590	[2156, 4641]	7607	[7859, 3634]
1557	[2509, 2510]	3574	[4889, 1954]	5591	[6616, 629]	7608	[7860, 3249]
1558	[2511, 2425]	3575	[4890, 4338]	5592	[6617, 4285]	7609	[7861, 1203]
1559	[2178, 2512]	3576	[4891, 4892]	5593	[3777, 6618]	7610	[1215, 5282]
1560	[2513, 2184]	3577	[4893, 805]	5594	[4384, 4833]	7611	[5434, 1059]
1561	[1993, 650]	3578	[4894, 1791]	5595	[6619, 4287]	7612	[7862, 2892]
1562	[2427, 2514]	3579	[4895, 2149]	5596	[6620, 3809]	7613	[3410, 5804]
1563	[2283, 2515]	3580	[4896, 2191]	5597	[6621, 161]	7614	[7863, 3684]
1564	[2516, 2517]	3581	[4897, 2159]	5598	[6622, 2057]	7615	[3308, 1446]
1565	[2518, 2519]	3582	[4898, 4899]	5599	[6623, 555]	7616	[3539, 5066]
1566	[2520, 2521]	3583	[3997, 4900]	5600	[6624, 712]	7617	[3522, 3311]
1567	[2522, 2523]	3584	[4901, 714]	5601	[4782, 2095]	7618	[3483, 5869]
1568	[2514, 1817]	3585	[505, 1955]	5602	[6625, 6245]	7619	[3661, 1278]
1569	[2524, 178]	3586	[4228, 506]	5603	[6626, 2127]	7620	[5196, 5622]
1570	[576, 2525]	3587	[4902, 4903]	5604	[6627, 4688]	7621	[7070, 5118]
1571	[2526, 177]	3588	[4904, 1872]	5605	[6628, 6345]	7622	[5183, 7142]
1572	[2527, 2528]	3589	[4905, 2382]	5606	[6629, 3775]	7623	[5243, 3163]
1573	[2529, 2530]	3590	[4906, 641]	5607	[6630, 3957]	7624	[1328, 5405]
1574	[2531, 1233]	3591	[4907, 859]	5608	[2007, 3776]	7625	[5564, 1071]
1575	[1079, 2532]	3592	[4908, 4372]	5609	[6631, 4522]	7626	[7864, 3706]
1576	[2533, 2534]	3593	[4909, 505]	5610	[6632, 691]	7627	[7865, 2959]
1577	[2535, 1385]	3594	[1795, 1829]	5611	[6633, 4127]	7628	[5381, 3453]
1578	[2536, 2537]	3595	[3792, 856]	5612	[2343, 2324]	7629	[7866, 2600]
1579	[2538, 318]	3596	[4029, 4910]	5613	[6634, 6635]	7630	[7867, 289]
1580	[2539, 2540]	3597	[4911, 2058]	5614	[6636, 4199]	7631	[7868, 1382]
1581	[2541, 2542]	3598	[4912, 628]	5615	[6637, 1825]	7632	[3295, 2996]
1582	[2543, 369]	3599	[2375, 818]	5616	[6638, 4343]	7633	[3451, 3116]
1583	[2544, 2545]	3600	[4913, 1754]	5617	[6639, 6640]	7634	[7869, 7171]
1584	[2546, 334]	3601	[4914, 1833]	5618	[6641, 1696]	7635	[7084, 5326]
1585	[2547, 1298]	3602	[4915, 2270]	5619	[6642, 4653]	7636	[7870, 2785]
1586	[449, 393]	3603	[803, 2285]	5620	[6643, 6280]	7637	[7871, 427]
1587	[1440, 2548]	3604	[4916, 2287]	5621	[6644, 3967]	7638	[5922, 5928]
1588	[2549, 1218]	3605	[4163, 4276]	5622	[6645, 4407]	7639	[3590, 1539]
1589	[2550, 2551]	3606	[4496, 4258]	5623	[6646, 2487]	7640	[7872, 3664]
1590	[2552, 2553]	3607	[4917, 2102]	5624	[6647, 4316]	7641	[7873, 929]
1591	[2554, 2555]	3608	[4918, 2231]	5625	[6648, 6585]	7642	[7874, 2837]
1592	[2556, 2557]	3609	[4919, 3836]	5626	[6649, 6650]	7643	[7875, 1002]
1593	[2558, 28]	3610	[4920, 1800]	5627	[699, 4406]	7644	[7876, 7332]
1594	[2559, 2560]	3611	[4921, 1741]	5628	[4479, 6355]	7645	[7877, 410]
1595	[2561, 2562]	3612	[4529, 4325]	5629	[6651, 2122]	7646	[7878, 6050]

1596	[1347, 1286]	3613	[4513, 4922]	5630	[6652, 4500]	7647	[2806, 5530]
1597	[2563, 2564]	3614	[4923, 2136]	5631	[4638, 1591]	7648	[7879, 2940]
1598	[2565, 2566]	3615	[142, 530]	5632	[6653, 2232]	7649	[3566, 1294]
1599	[2567, 2568]	3616	[4924, 863]	5633	[6654, 4421]	7650	[7880, 1048]
1600	[1532, 1499]	3617	[4925, 849]	5634	[2, 1674]	7651	[5548, 5093]
1601	[891, 2569]	3618	[4274, 1719]	5635	[2515, 6483]	7652	[3612, 3144]
1602	[2570, 2571]	3619	[4926, 1797]	5636	[6655, 1662]	7653	[5108, 3723]
1603	[2572, 312]	3620	[4927, 806]	5637	[5023, 851]	7654	[2782, 2919]
1604	[2573, 110]	3621	[4928, 2506]	5638	[6393, 820]	7655	[7881, 1186]
1605	[1444, 358]	3622	[4929, 2213]	5639	[6445, 6527]	7656	[7882, 3622]
1606	[2574, 1089]	3623	[2038, 522]	5640	[4192, 4073]	7657	[1188, 3418]
1607	[2575, 2576]	3624	[4930, 825]	5641	[6656, 1736]	7658	[7883, 5465]
1608	[2577, 2578]	3625	[4776, 1996]	5642	[730, 2365]	7659	[5103, 3029]
1609	[1156, 2579]	3626	[4931, 4932]	5643	[4011, 6280]	7660	[7884, 1452]
1610	[2580, 1429]	3627	[4933, 3783]	5644	[6657, 2130]	7661	[3351, 1082]
1611	[1463, 2581]	3628	[4934, 760]	5645	[1752, 6658]	7662	[2696, 3535]
1612	[333, 2582]	3629	[2117, 4935]	5646	[6245, 6659]	7663	[5622, 5798]
1613	[117, 2583]	3630	[4936, 713]	5647	[6660, 2017]	7664	[5067, 5110]
1614	[2584, 2585]	3631	[4937, 4280]	5648	[6661, 6651]	7665	[2895, 1105]
1615	[2586, 2587]	3632	[4752, 4828]	5649	[6662, 889]	7666	[7885, 1451]
1616	[2588, 1325]	3633	[851, 4175]	5650	[6663, 4278]	7667	[3598, 5776]
1617	[1228, 1275]	3634	[4938, 4531]	5651	[3813, 6664]	7668	[7886, 1152]
1618	[2569, 2589]	3635	[4939, 4729]	5652	[4187, 2403]	7669	[7887, 5815]
1619	[2590, 1009]	3636	[4940, 4104]	5653	[4092, 144]	7670	[424, 5411]
1620	[4, 1216]	3637	[4941, 4942]	5654	[881, 573]	7671	[7256, 5991]
1621	[2591, 2592]	3638	[4515, 4943]	5655	[4633, 6260]	7672	[7888, 1508]
1622	[2593, 2594]	3639	[4944, 4073]	5656	[6665, 2006]	7673	[7889, 2766]
1623	[2595, 2596]	3640	[2259, 4945]	5657	[6666, 6667]	7674	[7890, 1483]
1624	[2597, 2598]	3641	[4946, 2262]	5658	[484, 161]	7675	[285, 2993]
1625	[2599, 2600]	3642	[4947, 2485]	5659	[6668, 2059]	7676	[7891, 2933]
1626	[2601, 2602]	3643	[2473, 623]	5660	[6669, 2359]	7677	[3098, 5237]
1627	[79, 381]	3644	[4511, 198]	5661	[6670, 4036]	7678	[5600, 3018]
1628	[64, 2603]	3645	[4948, 1728]	5662	[6671, 4254]	7679	[5276, 3358]
1629	[359, 1560]	3646	[2357, 1795]	5663	[6672, 6673]	7680	[3605, 1213]
1630	[2604, 338]	3647	[4949, 4614]	5664	[6674, 1975]	7681	[7892, 3368]
1631	[2605, 2606]	3648	[4950, 4552]	5665	[2110, 1862]	7682	[2972, 5277]
1632	[2607, 2583]	3649	[4951, 4661]	5666	[6345, 6650]	7683	[3511, 3062]
1633	[1524, 2608]	3650	[4952, 2040]	5667	[4729, 2414]	7684	[7893, 1045]
1634	[1557, 2609]	3651	[4953, 4892]	5668	[4284, 4872]	7685	[3644, 3026]
1635	[2610, 2611]	3652	[4954, 720]	5669	[6675, 634]	7686	[3507, 76]
1636	[2612, 2573]	3653	[1707, 4955]	5670	[6676, 6677]	7687	[7894, 895]
1637	[2613, 2543]	3654	[4956, 4957]	5671	[5006, 6672]	7688	[7895, 3104]
1638	[2614, 2615]	3655	[4343, 4288]	5672	[6678, 2042]	7689	[3383, 5360]
1639	[2616, 2617]	3656	[4958, 141]	5673	[6679, 2032]	7690	[7896, 1135]

1640	[2618, 2619]	3657	[4959, 4643]	5674	[6680, 2065]	7691	[6152, 5971]
1641	[2620, 2547]	3658	[4960, 580]	5675	[4573, 2175]	7692	[7897, 3319]
1642	[2621, 1413]	3659	[4961, 665]	5676	[6563, 2353]	7693	[1375, 6152]
1643	[478, 1338]	3660	[4962, 2327]	5677	[6681, 4784]	7694	[7898, 2864]
1644	[2622, 2623]	3661	[4963, 854]	5678	[6682, 6683]	7695	[1153, 2874]
1645	[1374, 1128]	3662	[4964, 4659]	5679	[6684, 6678]	7696	[271, 1506]
1646	[2624, 2625]	3663	[4965, 4966]	5680	[4922, 4011]	7697	[6113, 422]
1647	[2626, 1302]	3664	[4967, 3782]	5681	[6685, 6686]	7698	[3280, 1528]
1648	[2627, 2628]	3665	[4968, 4437]	5682	[3924, 3986]	7699	[1451, 3325]
1649	[2629, 120]	3666	[4969, 4517]	5683	[4654, 6471]	7700	[7899, 5393]
1650	[2630, 2631]	3667	[4970, 4971]	5684	[6687, 6455]	7701	[7900, 5067]
1651	[2632, 2633]	3668	[4972, 4514]	5685	[2082, 2452]	7702	[7901, 1424]
1652	[2634, 2635]	3669	[166, 4942]	5686	[6688, 3951]	7703	[2737, 450]
1653	[2636, 2637]	3670	[4563, 4367]	5687	[6689, 6470]	7704	[7902, 2909]
1654	[2638, 2639]	3671	[4973, 4974]	5688	[6690, 2226]	7705	[7280, 5774]
1655	[2640, 2574]	3672	[4975, 1681]	5689	[6691, 2405]	7706	[7903, 2901]
1656	[2641, 2642]	3673	[4976, 4499]	5690	[6692, 4078]	7707	[5533, 1068]
1657	[2643, 2644]	3674	[4977, 1899]	5691	[6693, 6694]	7708	[2799, 2867]
1658	[2645, 2646]	3675	[2358, 222]	5692	[4570, 4256]	7709	[7904, 462]
1659	[2647, 2648]	3676	[4978, 36]	5693	[6695, 4518]	7710	[3508, 5778]
1660	[2649, 2650]	3677	[4979, 4980]	5694	[6696, 6618]	7711	[7905, 896]
1661	[2651, 2652]	3678	[4981, 2084]	5695	[6697, 546]	7712	[7906, 381]
1662	[2619, 411]	3679	[4982, 4300]	5696	[780, 2397]	7713	[7907, 70]
1663	[1413, 2653]	3680	[4983, 4984]	5697	[6698, 2200]	7714	[7908, 7491]
1664	[1191, 2654]	3681	[4081, 1644]	5698	[6699, 4206]	7715	[3530, 2684]
1665	[2655, 1093]	3682	[4985, 2301]	5699	[4411, 2516]	7716	[1204, 3115]
1666	[2656, 2657]	3683	[4986, 4828]	5700	[6700, 697]	7717	[7909, 5320]
1667	[2658, 2659]	3684	[4987, 701]	5701	[4293, 6701]	7718	[7910, 3130]
1668	[2660, 2661]	3685	[4988, 758]	5702	[4114, 5028]	7719	[7911, 1062]
1669	[1543, 2662]	3686	[2495, 4989]	5703	[6702, 1827]	7720	[7912, 1313]
1670	[2663, 324]	3687	[4990, 4323]	5704	[2242, 4253]	7721	[7913, 5418]
1671	[2664, 2665]	3688	[1922, 4991]	5705	[6703, 3955]	7722	[5854, 5606]
1672	[2666, 2667]	3689	[4992, 4894]	5706	[4338, 5018]	7723	[3496, 5114]
1673	[2668, 2596]	3690	[4993, 154]	5707	[4539, 4487]	7724	[7914, 2642]
1674	[2669, 2670]	3691	[4859, 3733]	5708	[6704, 3893]	7725	[990, 3334]
1675	[2671, 2584]	3692	[4994, 2415]	5709	[6705, 6706]	7726	[7915, 3484]
1676	[427, 902]	3693	[4995, 4550]	5710	[3869, 1858]	7727	[1309, 5807]
1677	[2672, 946]	3694	[4996, 1729]	5711	[6707, 4455]	7728	[3272, 2733]
1678	[2673, 2674]	3695	[4997, 805]	5712	[198, 6215]	7729	[1030, 1051]
1679	[2675, 2676]	3696	[4998, 4999]	5713	[6708, 577]	7730	[7031, 2785]
1680	[2677, 2678]	3697	[5000, 1943]	5714	[6709, 6710]	7731	[7916, 2972]
1681	[2679, 1134]	3698	[3928, 4312]	5715	[6711, 6604]	7732	[5437, 1524]
1682	[329, 2680]	3699	[5001, 4870]	5716	[6412, 559]	7733	[5031, 910]
1683	[410, 2681]	3700	[5002, 4633]	5717	[6712, 700]	7734	[7917, 307]

1684	[2682, 2664]	3701	[5003, 4782]	5718	[6713, 786]	7735	[1498, 1041]
1685	[2683, 2684]	3702	[5004, 5005]	5719	[6714, 788]	7736	[7116, 1392]
1686	[2685, 2686]	3703	[2422, 5006]	5720	[6715, 1618]	7737	[101, 3200]
1687	[971, 1098]	3704	[5007, 1968]	5721	[4536, 4597]	7738	[7918, 1133]
1688	[2598, 406]	3705	[5008, 1854]	5722	[6716, 139]	7739	[5410, 3516]
1689	[2687, 106]	3706	[5009, 4760]	5723	[6717, 6160]	7740	[5487, 3401]
1690	[1487, 2688]	3707	[5010, 4899]	5724	[6312, 2061]	7741	[5079, 2777]
1691	[2689, 2690]	3708	[5011, 4051]	5725	[6650, 4062]	7742	[7919, 3388]
1692	[2691, 2692]	3709	[5012, 1763]	5726	[6718, 4064]	7743	[7920, 893]
1693	[2693, 2694]	3710	[5013, 5014]	5727	[6719, 4028]	7744	[7921, 3491]
1694	[2695, 2696]	3711	[5015, 5016]	5728	[6720, 6305]	7745	[7101, 3683]
1695	[2697, 2698]	3712	[2151, 1680]	5729	[4801, 1864]	7746	[7922, 3277]
1696	[1313, 2699]	3713	[4044, 238]	5730	[3771, 6542]	7747	[3238, 960]
1697	[2700, 2701]	3714	[5017, 5018]	5731	[6721, 6722]	7748	[7923, 437]
1698	[2702, 1564]	3715	[5019, 4291]	5732	[6723, 4945]	7749	[3543, 1327]
1699	[2703, 2704]	3716	[5020, 5021]	5733	[6724, 6473]	7750	[7924, 5745]
1700	[2705, 2706]	3717	[5022, 5023]	5734	[6725, 623]	7751	[7925, 976]
1701	[2707, 2708]	3718	[5024, 4884]	5735	[2247, 1658]	7752	[6018, 2604]
1702	[2709, 2710]	3719	[5025, 1777]	5736	[180, 6244]	7753	[7926, 109]
1703	[2711, 2571]	3720	[2189, 4053]	5737	[6277, 4494]	7754	[7927, 1243]
1704	[1118, 2712]	3721	[4945, 1925]	5738	[196, 737]	7755	[2973, 5095]
1705	[2713, 2714]	3722	[5026, 4778]	5739	[4087, 3844]	7756	[7928, 2743]
1706	[2715, 2716]	3723	[5027, 4598]	5740	[6726, 4197]	7757	[1461, 926]
1707	[2710, 2717]	3724	[5028, 3746]	5741	[6727, 2258]	7758	[7400, 2745]
1708	[2718, 1221]	3725	[5029, 4903]	5742	[2347, 4466]	7759	[7929, 5192]
1709	[2719, 1225]	3726	[5030, 362]	5743	[651, 6728]	7760	[7930, 3719]
1710	[1449, 302]	3727	[1405, 5031]	5744	[4000, 4162]	7761	[3652, 3068]
1711	[125, 2720]	3728	[5032, 2693]	5745	[6729, 1767]	7762	[5081, 1190]
1712	[2721, 1230]	3729	[331, 1438]	5746	[2405, 2431]	7763	[7931, 3247]
1713	[2722, 2723]	3730	[5033, 2624]	5747	[6730, 774]	7764	[3091, 2530]
1714	[2557, 2724]	3731	[2542, 2851]	5748	[2338, 4173]	7765	[7932, 1274]
1715	[2725, 2726]	3732	[5034, 5035]	5749	[6731, 4979]	7766	[7933, 1216]
1716	[1051, 467]	3733	[5036, 1246]	5750	[4407, 2182]	7767	[7491, 3687]
1717	[1139, 74]	3734	[5037, 3443]	5751	[6732, 4834]	7768	[1417, 1463]
1718	[2727, 2541]	3735	[5038, 1058]	5752	[4966, 4988]	7769	[5375, 2789]
1719	[2611, 2728]	3736	[5039, 5040]	5753	[6733, 2351]	7770	[3276, 3242]
1720	[2729, 2730]	3737	[5041, 5042]	5754	[6734, 705]	7771	[7171, 5946]
1721	[1143, 2731]	3738	[5043, 3581]	5755	[6442, 5021]	7772	[7934, 3084]
1722	[2732, 2733]	3739	[277, 3662]	5756	[6735, 3983]	7773	[7935, 2714]
1723	[2734, 2735]	3740	[5044, 336]	5757	[6736, 2495]	7774	[3283, 3608]
1724	[2736, 2737]	3741	[5045, 2707]	5758	[6737, 4195]	7775	[1226, 88]
1725	[2738, 2739]	3742	[5046, 1324]	5759	[6738, 1915]	7776	[5056, 6027]
1726	[2740, 2741]	3743	[5047, 1426]	5760	[1782, 4402]	7777	[2922, 5516]
1727	[2742, 2743]	3744	[5048, 3602]	5761	[2504, 2476]	7778	[7936, 3121]

1728	[2744, 2745]	3745	[1083, 991]	5762	[6739, 4452]	7779	[5596, 391]
1729	[2746, 2747]	3746	[440, 1307]	5763	[2493, 6726]	7780	[7937, 3546]
1730	[2748, 338]	3747	[5049, 5050]	5764	[6740, 6741]	7781	[3628, 2816]
1731	[2749, 1231]	3748	[5051, 5052]	5765	[3835, 1778]	7782	[7938, 2923]
1732	[2750, 2751]	3749	[915, 5053]	5766	[6742, 2190]	7783	[1181, 80]
1733	[1137, 2752]	3750	[2625, 3167]	5767	[4532, 2230]	7784	[384, 3112]
1734	[2753, 2754]	3751	[5054, 1475]	5768	[6743, 6744]	7785	[7939, 2797]
1735	[2755, 1560]	3752	[5055, 5056]	5769	[6745, 4770]	7786	[7940, 5664]
1736	[2756, 1215]	3753	[5057, 3623]	5770	[6746, 2229]	7787	[7941, 2978]
1737	[2757, 2758]	3754	[1366, 3379]	5771	[4746, 4688]	7788	[6088, 2738]
1738	[2759, 2760]	3755	[3111, 3575]	5772	[2161, 2273]	7789	[5861, 5948]
1739	[2761, 2762]	3756	[3115, 5058]	5773	[6747, 4691]	7790	[7942, 1035]
1740	[2763, 2764]	3757	[5059, 3049]	5774	[6748, 2154]	7791	[5302, 1251]
1741	[1019, 1344]	3758	[5060, 5061]	5775	[4153, 6242]	7792	[5091, 3694]
1742	[2765, 2766]	3759	[5062, 5063]	5776	[6749, 3836]	7793	[7943, 2915]
1743	[2767, 1165]	3760	[5064, 1121]	5777	[6222, 6750]	7794	[7944, 1453]
1744	[1147, 1054]	3761	[323, 2881]	5778	[6751, 5005]	7795	[2984, 2873]
1745	[2768, 2769]	3762	[5065, 354]	5779	[6752, 1868]	7796	[5349, 254]
1746	[2770, 2771]	3763	[5066, 5067]	5780	[787, 1735]	7797	[7945, 74]
1747	[2772, 937]	3764	[5068, 3385]	5781	[2269, 4260]	7798	[5703, 3503]
1748	[480, 1195]	3765	[471, 5049]	5782	[4490, 3762]	7799	[7946, 7044]
1749	[259, 2773]	3766	[5069, 3078]	5783	[593, 6753]	7800	[6129, 5789]
1750	[2774, 2775]	3767	[5070, 3506]	5784	[801, 4537]	7801	[7947, 319]
1751	[2776, 2777]	3768	[5071, 5072]	5785	[6754, 6755]	7802	[7948, 3712]
1752	[2778, 286]	3769	[3007, 2908]	5786	[6756, 3860]	7803	[7949, 1280]
1753	[2779, 2780]	3770	[1166, 5073]	5787	[6757, 6694]	7804	[7068, 2966]
1754	[2781, 2782]	3771	[67, 1253]	5788	[6758, 6759]	7805	[5925, 5610]
1755	[2783, 2784]	3772	[5074, 3651]	5789	[6760, 4511]	7806	[7950, 91]
1756	[2785, 2786]	3773	[2867, 2833]	5790	[6761, 4646]	7807	[5241, 1202]
1757	[1504, 2787]	3774	[5075, 5076]	5791	[6762, 6763]	7808	[5571, 1482]
1758	[1002, 2788]	3775	[2977, 3376]	5792	[6764, 1880]	7809	[7332, 472]
1759	[372, 1292]	3776	[5077, 975]	5793	[2192, 4233]	7810	[7951, 5199]
1760	[2789, 2790]	3777	[5078, 5079]	5794	[6765, 2132]	7811	[898, 3267]
1761	[2791, 2792]	3778	[5080, 3143]	5795	[1866, 4455]	7812	[7952, 277]
1762	[2793, 390]	3779	[3425, 5081]	5796	[6766, 6767]	7813	[7129, 1334]
1763	[2794, 1400]	3780	[5082, 1327]	5797	[4404, 4030]	7814	[5833, 5106]
1764	[2795, 350]	3781	[5083, 5084]	5798	[6768, 2003]	7815	[7953, 992]
1765	[2796, 2651]	3782	[3588, 5085]	5799	[6769, 6701]	7816	[5269, 3443]
1766	[1214, 2797]	3783	[1254, 1170]	5800	[6253, 1786]	7817	[3462, 5913]
1767	[2798, 2799]	3784	[6, 430]	5801	[6770, 4563]	7818	[7954, 1570]
1768	[2587, 2800]	3785	[2592, 1494]	5802	[6771, 2224]	7819	[7955, 3101]
1769	[2801, 2685]	3786	[5086, 2585]	5803	[871, 4725]	7820	[1103, 1235]
1770	[2802, 1095]	3787	[253, 1517]	5804	[6772, 6268]	7821	[7956, 2951]
1771	[2803, 2674]	3788	[3570, 5087]	5805	[6773, 6774]	7822	[7957, 3324]

1772	[2804, 2805]	3789	[5088, 2528]	5806	[2521, 4965]	7823	[7958, 3012]
1773	[1036, 2806]	3790	[30, 5089]	5807	[6775, 832]	7824	[7959, 5214]
1774	[2807, 2808]	3791	[5090, 3675]	5808	[2371, 4454]	7825	[5249, 3678]
1775	[2809, 2810]	3792	[1161, 3238]	5809	[6776, 4967]	7826	[1570, 934]
1776	[2811, 2812]	3793	[2850, 1205]	5810	[6777, 4525]	7827	[7960, 3233]
1777	[2813, 2796]	3794	[932, 2988]	5811	[6559, 6778]	7828	[7059, 3584]
1778	[2814, 2815]	3795	[364, 5091]	5812	[6779, 4439]	7829	[2501, 621]
1779	[2816, 2817]	3796	[5092, 3668]	5813	[6780, 1591]	7830	[6549, 202]
1780	[2818, 1533]	3797	[5093, 1052]	5814	[6781, 6782]	7831	[6273, 6667]
1781	[2819, 2603]	3798	[2553, 2725]	5815	[6741, 4308]	7832	[7961, 4980]
1782	[2820, 2821]	3799	[5094, 5032]	5816	[6783, 4068]	7833	[1903, 6937]
1783	[2822, 2823]	3800	[5089, 2772]	5817	[6578, 4271]	7834	[839, 4827]
1784	[2824, 1130]	3801	[5095, 5096]	5818	[6363, 3929]	7835	[7962, 6827]
1785	[1121, 2825]	3802	[5097, 1458]	5819	[3931, 1769]	7836	[7963, 6970]
1786	[2826, 2827]	3803	[1119, 5098]	5820	[3897, 4070]	7837	[2469, 4742]
1787	[2828, 2829]	3804	[3593, 5099]	5821	[4867, 3858]	7838	[4314, 4566]
1788	[97, 2830]	3805	[5100, 406]	5822	[6784, 2289]	7839	[7964, 4592]
1789	[2831, 2653]	3806	[5101, 3470]	5823	[6785, 195]	7840	[7965, 1770]
1790	[2832, 2833]	3807	[972, 3264]	5824	[4305, 6573]	7841	[6774, 2162]
1791	[2834, 2794]	3808	[5102, 5103]	5825	[1826, 6786]	7842	[7966, 2427]
1792	[936, 2835]	3809	[5104, 2986]	5826	[6787, 1858]	7843	[6990, 1745]
1793	[2836, 2837]	3810	[5105, 5106]	5827	[6788, 4874]	7844	[795, 6458]
1794	[2838, 1309]	3811	[5107, 5108]	5828	[6789, 4438]	7845	[7967, 1739]
1795	[2839, 1147]	3812	[5109, 5110]	5829	[6790, 6506]	7846	[7968, 1913]
1796	[2840, 2841]	3813	[5111, 5112]	5830	[4267, 4108]	7847	[4388, 748]
1797	[2842, 2843]	3814	[5113, 5114]	5831	[6791, 1589]	7848	[7969, 4891]
1798	[2844, 2845]	3815	[249, 2627]	5832	[854, 3834]	7849	[610, 6456]
1799	[1470, 2846]	3816	[3254, 1178]	5833	[6792, 232]	7850	[7970, 6889]
1800	[2847, 2736]	3817	[3227, 3138]	5834	[178, 4862]	7851	[7971, 4560]
1801	[2848, 1061]	3818	[5115, 372]	5835	[6793, 4551]	7852	[1871, 4834]
1802	[2846, 2580]	3819	[1246, 3103]	5836	[6794, 6795]	7853	[3951, 2484]
1803	[2849, 2850]	3820	[5116, 1248]	5837	[549, 3812]	7854	[7972, 830]
1804	[2851, 2852]	3821	[5117, 926]	5838	[4341, 2166]	7855	[7973, 7974]
1805	[988, 2853]	3822	[1547, 1439]	5839	[6796, 6797]	7856	[7975, 5004]
1806	[2854, 2855]	3823	[5118, 3246]	5840	[809, 6600]	7857	[6795, 4835]
1807	[2856, 2857]	3824	[5119, 5120]	5841	[6798, 2492]	7858	[7976, 3908]
1808	[2858, 2859]	3825	[3389, 3022]	5842	[1657, 2158]	7859	[6929, 4939]
1809	[2860, 1027]	3826	[5121, 86]	5843	[6799, 3953]	7860	[7977, 1764]
1810	[900, 1048]	3827	[5122, 312]	5844	[6577, 6168]	7861	[4518, 2450]
1811	[2861, 1113]	3828	[3065, 458]	5845	[6722, 6640]	7862	[4836, 2486]
1812	[2862, 1056]	3829	[2680, 5123]	5846	[1592, 6230]	7863	[4989, 4781]
1813	[2863, 2864]	3830	[5124, 370]	5847	[6800, 6801]	7864	[7978, 4759]
1814	[2865, 1474]	3831	[5125, 2824]	5848	[6802, 2275]	7865	[6635, 6521]
1815	[2866, 2867]	3832	[5126, 1083]	5849	[1678, 6755]	7866	[7979, 741]

1816	[2868, 1172]	3833	[291, 1005]	5850	[6803, 4179]	7867	[4699, 6967]
1817	[2869, 278]	3834	[5127, 5128]	5851	[6804, 215]	7868	[4149, 5023]
1818	[2528, 1510]	3835	[1267, 5129]	5852	[6805, 6659]	7869	[7726, 4336]
1819	[2870, 2871]	3836	[1057, 70]	5853	[688, 4869]	7870	[7626, 4047]
1820	[2872, 2873]	3837	[5130, 1396]	5854	[6806, 6326]	7871	[7980, 7650]
1821	[2784, 1568]	3838	[5131, 2723]	5855	[6807, 2115]	7872	[7981, 6573]
1822	[2874, 2847]	3839	[2665, 90]	5856	[4236, 6353]	7873	[7982, 4454]
1823	[2875, 2876]	3840	[5132, 1343]	5857	[4707, 6808]	7874	[6782, 4555]
1824	[2877, 296]	3841	[1480, 3095]	5858	[2202, 1962]	7875	[1597, 3873]
1825	[2878, 2595]	3842	[5133, 2874]	5859	[6809, 1987]	7876	[724, 592]
1826	[2879, 2880]	3843	[3562, 2875]	5860	[4597, 1739]	7877	[7983, 1615]
1827	[2881, 2882]	3844	[5134, 3657]	5861	[6810, 699]	7878	[7634, 1764]
1828	[335, 2883]	3845	[5135, 3454]	5862	[6418, 4290]	7879	[7984, 12]
1829	[2884, 2862]	3846	[5136, 2955]	5863	[2198, 195]	7880	[1935, 7985]
1830	[2885, 988]	3847	[5137, 1007]	5864	[6811, 3780]	7881	[7986, 6813]
1831	[2886, 2887]	3848	[75, 5138]	5865	[4500, 4356]	7882	[7987, 51]
1832	[2888, 124]	3849	[3656, 3478]	5866	[6812, 4590]	7883	[3758, 7974]
1833	[2889, 2890]	3850	[5139, 2939]	5867	[6813, 4400]	7884	[7988, 1735]
1834	[2891, 1410]	3851	[2853, 2640]	5868	[4142, 2380]	7885	[7989, 4328]
1835	[2892, 1542]	3852	[2766, 469]	5869	[6814, 588]	7886	[7990, 6526]
1836	[980, 2893]	3853	[2606, 5140]	5870	[4276, 4589]	7887	[7991, 6688]
1837	[2894, 2563]	3854	[5141, 5142]	5871	[6815, 696]	7888	[4498, 1681]
1838	[2701, 2895]	3855	[1206, 1180]	5872	[6816, 4356]	7889	[886, 4979]
1839	[2896, 2897]	3856	[5143, 2634]	5873	[2419, 6717]	7890	[865, 4684]
1840	[2898, 954]	3857	[5144, 5145]	5874	[825, 6758]	7891	[4436, 4211]
1841	[2899, 2900]	3858	[5146, 3291]	5875	[6817, 1722]	7892	[2085, 6813]
1842	[2901, 2902]	3859	[2723, 2935]	5876	[6818, 4082]	7893	[12, 869]
1843	[2833, 2903]	3860	[5147, 5148]	5877	[6819, 50]	7894	[144, 4296]
1844	[2904, 2905]	3861	[3448, 5149]	5878	[6820, 6821]	7895	[7992, 7985]
1845	[2906, 273]	3862	[5150, 3027]	5879	[6822, 6515]	7896	[4742, 526]
1846	[2907, 2908]	3863	[5151, 5152]	5880	[2028, 4584]	7897	[7993, 6726]
1847	[2909, 2910]	3864	[5153, 1411]	5881	[6823, 4529]	7898	[4414, 1584]
1848	[2911, 2912]	3865	[5154, 3138]	5882	[6755, 1860]	7899	[7994, 4164]
1849	[2913, 2914]	3866	[5155, 1090]	5883	[6824, 1575]	7900	[6565, 2361]
1850	[911, 2915]	3867	[5156, 3531]	5884	[6368, 4656]	7901	[7995, 759]
1851	[913, 2691]	3868	[5157, 2882]	5885	[4678, 4568]	7902	[498, 6487]
1852	[2659, 2916]	3869	[3715, 5158]	5886	[6825, 6826]	7903	[7724, 4180]
1853	[2917, 2918]	3870	[5159, 5160]	5887	[2386, 6827]	7904	[7996, 6693]
1854	[2919, 2920]	3871	[5161, 5162]	5888	[4754, 1706]	7905	[7997, 4117]
1855	[2921, 2922]	3872	[3294, 3347]	5889	[6828, 3932]	7906	[511, 721]
1856	[287, 2923]	3873	[5163, 5164]	5890	[1979, 4031]	7907	[7998, 2478]
1857	[2924, 1273]	3874	[5165, 306]	5891	[6829, 4506]	7908	[7999, 3875]
1858	[2925, 96]	3875	[5166, 2576]	5892	[1671, 2124]	7909	[7646, 2153]
1859	[2926, 1098]	3876	[5167, 2695]	5893	[6830, 2450]	7910	[8000, 1708]

1860	[2927, 1540]	3877	[5168, 5169]	5894	[6831, 2417]	7911	[8001, 163]
1861	[2928, 2929]	3878	[3122, 5170]	5895	[6832, 6833]	7912	[8002, 3929]
1862	[2930, 2845]	3879	[5171, 254]	5896	[6834, 6282]	7913	[6677, 614]
1863	[368, 2572]	3880	[5172, 5173]	5897	[6835, 856]	7914	[8003, 4845]
1864	[2931, 1482]	3881	[5174, 1160]	5898	[4415, 6836]	7915	[7717, 6569]
1865	[2932, 2913]	3882	[1302, 5175]	5899	[873, 6318]	7916	[4487, 6455]
1866	[2933, 2934]	3883	[2654, 5176]	5900	[587, 1730]	7917	[8004, 2128]
1867	[2935, 2936]	3884	[5177, 1471]	5901	[4015, 4320]	7918	[4206, 4644]
1868	[2937, 2938]	3885	[5178, 5179]	5902	[6837, 4351]	7919	[4955, 4708]
1869	[2939, 2940]	3886	[5180, 2604]	5903	[6838, 4585]	7920	[8005, 6753]
1870	[2941, 2942]	3887	[5181, 1377]	5904	[2331, 6839]	7921	[8006, 4859]
1871	[2943, 367]	3888	[1319, 326]	5905	[6840, 6841]	7922	[2032, 4039]
1872	[1368, 398]	3889	[5182, 5183]	5906	[4630, 2511]	7923	[8007, 5012]
1873	[2944, 2945]	3890	[5184, 452]	5907	[6842, 4253]	7924	[4736, 6290]
1874	[2946, 114]	3891	[985, 356]	5908	[6843, 6530]	7925	[4943, 3821]
1875	[1058, 2947]	3892	[1473, 2974]	5909	[2510, 6844]	7926	[8008, 4261]
1876	[1395, 1486]	3893	[5185, 344]	5910	[6845, 6846]	7927	[8009, 4025]
1877	[1248, 2948]	3894	[5186, 334]	5911	[6847, 6370]	7928	[8010, 2365]
1878	[2949, 2816]	3895	[5187, 2935]	5912	[6848, 2135]	7929	[8011, 4821]
1879	[2900, 1165]	3896	[3472, 5188]	5913	[6849, 4699]	7930	[7603, 4637]
1880	[2686, 2567]	3897	[5189, 5071]	5914	[6850, 4955]	7931	[8012, 4182]
1881	[1157, 2660]	3898	[1467, 1192]	5915	[6851, 4332]	7932	[8013, 4606]
1882	[2950, 1047]	3899	[5190, 388]	5916	[6852, 731]	7933	[8014, 6215]
1883	[2951, 2952]	3900	[5191, 1180]	5917	[6853, 4277]	7934	[6331, 2152]
1884	[2953, 1212]	3901	[5192, 5193]	5918	[6854, 6674]	7935	[2468, 4510]
1885	[2954, 2955]	3902	[2670, 5194]	5919	[6855, 6289]	7936	[4005, 4370]
1886	[2956, 2957]	3903	[5195, 1361]	5920	[6856, 737]	7937	[8015, 4336]
1887	[2958, 2959]	3904	[3418, 5196]	5921	[6857, 6858]	7938	[8016, 2153]
1888	[2960, 2961]	3905	[5197, 3395]	5922	[6859, 1792]	7939	[8017, 3762]
1889	[2962, 1368]	3906	[5198, 5199]	5923	[6169, 4997]	7940	[8018, 4914]
1890	[2963, 2964]	3907	[5200, 2934]	5924	[6846, 4548]	7941	[2226, 4251]
1891	[2965, 2966]	3908	[5201, 5202]	5925	[1887, 4908]	7942	[4999, 3887]
1892	[2883, 2840]	3909	[5203, 117]	5926	[6860, 6766]	7943	[6260, 4521]
1893	[407, 2967]	3910	[5204, 5205]	5927	[6372, 4971]	7944	[8019, 4228]
1894	[2968, 2858]	3911	[5206, 942]	5928	[6861, 4675]	7945	[7985, 2369]
1895	[2969, 362]	3912	[5207, 5208]	5929	[6862, 4433]	7946	[8020, 2126]
1896	[1101, 2970]	3913	[3124, 3537]	5930	[791, 3968]	7947	[8021, 7690]
1897	[2971, 2972]	3914	[1112, 3425]	5931	[6863, 3886]	7948	[4456, 2053]
1898	[115, 2973]	3915	[5209, 958]	5932	[6864, 4479]	7949	[8022, 6271]
1899	[2974, 2975]	3916	[5210, 2735]	5933	[1705, 4999]	7950	[6162, 1963]
1900	[2786, 2976]	3917	[5211, 3329]	5934	[6865, 3970]	7951	[8023, 6569]
1901	[1549, 2977]	3918	[2843, 3184]	5935	[6866, 2452]	7952	[241, 4964]
1902	[2978, 2979]	3919	[1485, 2675]	5936	[6867, 4145]	7953	[8024, 7614]
1903	[2980, 2981]	3920	[5212, 1096]	5937	[6868, 6869]	7954	[8025, 6558]

1904	[2982, 1328]	3921	[5213, 2853]	5938	[6870, 1977]	7955	[4526, 4396]
1905	[2983, 2984]	3922	[3648, 5214]	5939	[6871, 153]	7956	[8026, 7714]
1906	[2985, 2986]	3923	[5215, 5216]	5940	[6618, 2199]	7957	[8027, 2509]
1907	[109, 2987]	3924	[1028, 3519]	5941	[6872, 6873]	7958	[2182, 1624]
1908	[2988, 2989]	3925	[5217, 3525]	5942	[4303, 4061]	7959	[7614, 4158]
1909	[2990, 2991]	3926	[3197, 1469]	5943	[6874, 6633]	7960	[4226, 6350]
1910	[1330, 2992]	3927	[5218, 5111]	5944	[6311, 6263]	7961	[8028, 1430]
1911	[2993, 2994]	3928	[5219, 5220]	5945	[6453, 4651]	7962	[2631, 2594]
1912	[2995, 2996]	3929	[5221, 2711]	5946	[6875, 3876]	7963	[3106, 5766]
1913	[2997, 2998]	3930	[311, 5151]	5947	[6786, 6876]	7964	[7159, 7371]
1914	[2999, 1041]	3931	[5222, 2980]	5948	[6877, 794]	7965	[2562, 2667]
1915	[976, 3000]	3932	[5223, 5224]	5949	[6350, 2108]	7966	[8029, 5244]
1916	[3001, 3002]	3933	[5225, 5159]	5950	[6878, 1598]	7967	[8030, 2763]
1917	[3003, 2598]	3934	[5226, 5161]	5951	[6879, 4554]	7968	[394, 2922]
1918	[2594, 3004]	3935	[5227, 1440]	5952	[6374, 4639]	7969	[8031, 2694]
1919	[1040, 2687]	3936	[5228, 5186]	5953	[6880, 3968]	7970	[8032, 270]
1920	[3005, 125]	3937	[5229, 3113]	5954	[6667, 6858]	7971	[8033, 2654]
1921	[3006, 3007]	3938	[5230, 2662]	5955	[4583, 6881]	7972	[5659, 1479]
1922	[3008, 3009]	3939	[5231, 3507]	5956	[6882, 4296]	7973	[5908, 5104]
1923	[3010, 124]	3940	[5232, 5233]	5957	[6883, 2434]	7974	[8034, 5894]
1924	[1105, 281]	3941	[2698, 3549]	5958	[6884, 2166]	7975	[8035, 5553]
1925	[3011, 3012]	3942	[5234, 5235]	5959	[6885, 1936]	7976	[5807, 5540]
1926	[3013, 3014]	3943	[5236, 5237]	5960	[2219, 4883]	7977	[8036, 2796]
1927	[3015, 1244]	3944	[5238, 1312]	5961	[4617, 4807]	7978	[8037, 1366]
1928	[895, 3016]	3945	[5239, 1055]	5962	[6886, 1945]	7979	[5492, 1551]
1929	[3017, 3018]	3946	[5240, 5151]	5963	[4682, 6187]	7980	[2787, 3188]
1930	[3019, 3020]	3947	[3528, 5241]	5964	[6887, 4536]	7981	[1506, 5260]
1931	[3021, 3022]	3948	[5242, 5243]	5965	[4703, 6555]	7982	[8038, 304]
1932	[3023, 1176]	3949	[3269, 5244]	5966	[3819, 2144]	7983	[6035, 3559]
1933	[1232, 248]	3950	[5245, 5219]	5967	[6252, 3943]	7984	[3650, 3259]
1934	[3024, 3025]	3951	[1399, 3679]	5968	[6888, 687]	7985	[8039, 5974]
1935	[3026, 3027]	3952	[3102, 1080]	5969	[4395, 4575]	7986	[5140, 5068]
1936	[3028, 3029]	3953	[5246, 2836]	5970	[6460, 6889]	7987	[2762, 2643]
1937	[3030, 945]	3954	[5247, 3003]	5971	[6890, 1644]	7988	[5352, 2860]
1938	[3031, 3032]	3955	[5248, 5249]	5972	[6891, 4682]	7989	[8040, 106]
1939	[3033, 3020]	3956	[5250, 1226]	5973	[6767, 6617]	7990	[5336, 1436]
1940	[3034, 3035]	3957	[3133, 2978]	5974	[6892, 4238]	7991	[8041, 1399]
1941	[1534, 3036]	3958	[5251, 1500]	5975	[1946, 1958]	7992	[7142, 5344]
1942	[3037, 1417]	3959	[5252, 15]	5976	[4072, 1848]	7993	[3398, 6088]
1943	[3038, 3039]	3960	[5253, 5129]	5977	[3902, 6302]	7994	[8042, 1081]
1944	[2975, 3040]	3961	[2829, 5216]	5978	[6893, 557]	7995	[5776, 5866]
1945	[3041, 3042]	3962	[5254, 5255]	5979	[2176, 6214]	7996	[5720, 5993]
1946	[3043, 3044]	3963	[5256, 442]	5980	[6894, 886]	7997	[3445, 3001]
1947	[3045, 3046]	3964	[5257, 3467]	5981	[6895, 865]	7998	[2800, 5756]

1948	[3047, 371]	3965	[5258, 1239]	5982	[6896, 1672]	7999	[8043, 5103]
1949	[3048, 373]	3966	[5259, 5260]	5983	[6897, 509]	8000	[5442, 400]
1950	[3049, 3050]	3967	[5261, 5262]	5984	[1695, 3940]	8001	[5076, 3232]
1951	[3051, 3052]	3968	[5263, 5264]	5985	[2163, 1929]	8002	[8044, 1468]
1952	[3053, 3054]	3969	[5265, 2974]	5986	[1930, 696]	8003	[8045, 1514]
1953	[3055, 2875]	3970	[5266, 3559]	5987	[545, 4117]	8004	[8046, 3047]
1954	[3056, 3057]	3971	[5208, 2655]	5988	[6898, 2354]	8005	[475, 3382]
1955	[931, 2865]	3972	[5267, 2772]	5989	[6899, 4113]	8006	[3678, 5036]
1956	[3058, 1433]	3973	[5268, 5269]	5990	[6319, 3934]	8007	[8047, 1513]
1957	[3059, 3060]	3974	[5270, 5271]	5991	[6900, 1988]	8008	[8048, 5059]
1958	[3061, 3062]	3975	[3148, 3213]	5992	[6901, 608]	8009	[8049, 3155]
1959	[3044, 3063]	3976	[3205, 1566]	5993	[6902, 170]	8010	[5530, 94]
1960	[3064, 3065]	3977	[5272, 2579]	5994	[6359, 6524]	8011	[3264, 5397]
1961	[2751, 3066]	3978	[5273, 5274]	5995	[2384, 2306]	8012	[5912, 2677]
1962	[3067, 3068]	3979	[5275, 5276]	5996	[1926, 4113]	8013	[8050, 994]
1963	[3069, 3070]	3980	[5277, 3158]	5997	[6903, 2178]	8014	[5233, 1398]
1964	[77, 293]	3981	[5278, 378]	5998	[4017, 6716]	8015	[8051, 5592]
1965	[2989, 3071]	3982	[380, 1536]	5999	[6904, 3865]	8016	[8052, 3298]
1966	[3072, 3073]	3983	[3413, 2942]	6000	[675, 4297]	8017	[8053, 3331]
1967	[2777, 336]	3984	[5279, 1234]	6001	[6905, 556]	8018	[8054, 2889]
1968	[111, 3074]	3985	[5280, 3332]	6002	[4811, 6688]	8019	[8055, 1525]
1969	[3075, 3076]	3986	[5281, 5282]	6003	[6906, 1710]	8020	[6044, 6093]
1970	[93, 2821]	3987	[5283, 2799]	6004	[2016, 6630]	8021	[321, 5442]
1971	[3077, 3074]	3988	[5284, 5285]	6005	[6907, 867]	8022	[5614, 3426]
1972	[3078, 3079]	3989	[1283, 3556]	6006	[6908, 1962]	8023	[8056, 3365]
1973	[3080, 66]	3990	[1197, 1311]	6007	[6909, 583]	8024	[3305, 3543]
1974	[3081, 3082]	3991	[5286, 5287]	6008	[2051, 6577]	8025	[3071, 2938]
1975	[3083, 3084]	3992	[5288, 5289]	6009	[6910, 4430]	8026	[5458, 3053]
1976	[3085, 2706]	3993	[5290, 3646]	6010	[6911, 4293]	8027	[8057, 2916]
1977	[3086, 3087]	3994	[3687, 5291]	6011	[6912, 876]	8028	[8058, 4786]
1978	[3088, 3089]	3995	[3604, 1373]	6012	[46, 3895]	8029	[7974, 1865]
1979	[22, 409]	3996	[5292, 3294]	6013	[6913, 6658]	8030	[3867, 2471]
1980	[3090, 3091]	3997	[5293, 2737]	6014	[4652, 4704]	8031	[660, 6738]
1981	[2905, 3092]	3998	[5294, 454]	6015	[1674, 2148]	8032	[8059, 7634]
1982	[1379, 2839]	3999	[5295, 360]	6016	[6914, 6915]	8033	[4372, 4961]
1983	[1536, 3093]	4000	[5296, 5297]	6017	[6916, 6917]	8034	[4768, 2278]
1984	[1538, 330]	4001	[3270, 5298]	6018	[6918, 484]	8035	[6753, 6516]
1985	[3094, 901]	4002	[5299, 3662]	6019	[2054, 6801]	8036	[6562, 3875]
1986	[3095, 3096]	4003	[3240, 2962]	6020	[1603, 6628]	8037	[8060, 4697]
1987	[3097, 3098]	4004	[5300, 1287]	6021	[6919, 797]	8038	[3893, 3879]
1988	[349, 939]	4005	[5301, 5302]	6022	[2042, 6797]	8039	[6238, 2418]
1989	[3099, 2939]	4006	[5303, 429]	6023	[1895, 6693]	8040	[7690, 846]
1990	[3100, 302]	4007	[5304, 5305]	6024	[6920, 6242]	8041	[4103, 4982]
1991	[3101, 3102]	4008	[1426, 123]	6025	[6921, 1830]	8042	[7700, 4759]

1992	[3103, 2707]	4009	[5306, 5307]	6026	[4604, 6922]	8043	[7714, 6376]
1993	[3104, 1184]	4010	[5308, 2895]	6027	[6923, 3870]	8044	[4745, 727]
1994	[2681, 2671]	4011	[5214, 5309]	6028	[6924, 6925]	8045	[8061, 6160]
1995	[2964, 283]	4012	[5310, 365]	6029	[6926, 6222]	8046	[4357, 700]
1996	[3105, 2608]	4013	[3236, 5311]	6030	[6927, 6468]	8047	[5021, 1641]
1997	[2845, 3106]	4014	[3362, 2858]	6031	[6928, 6929]	8048	[4472, 4333]
1998	[269, 457]	4015	[5312, 472]	6032	[6930, 4202]	8049	[2463, 2457]
1999	[3107, 3108]	4016	[5287, 5102]	6033	[6931, 6672]	8050	[6175, 6674]
2000	[3109, 1061]	4017	[3571, 373]	6034	[6932, 4294]	8051	[7636, 2437]
2001	[2623, 1063]	4018	[5313, 5314]	6035	[6933, 3996]	8052	[7706, 1841]
2002	[3110, 3111]	4019	[2825, 3142]	6036	[6934, 1929]	8053	[7607, 4646]
2003	[3112, 3113]	4020	[2545, 5315]	6037	[6935, 4415]	8054	[6826, 4164]
2004	[3114, 3115]	4021	[5316, 1054]	6038	[2382, 4525]	8055	[7750, 2098]
2005	[3116, 3117]	4022	[5317, 5318]	6039	[6936, 6937]	8056	[6797, 2077]
2006	[3118, 2561]	4023	[403, 920]	6040	[2061, 4919]	8057	[667, 6225]
2007	[3119, 3120]	4024	[5319, 5320]	6041	[6938, 1863]	8058	[5237, 3485]
2008	[3121, 3122]	4025	[5321, 2622]	6042	[6939, 789]	8059	[5957, 3604]
2009	[3123, 3124]	4026	[5322, 446]	6043	[6940, 4248]	8060	[8062, 3206]
2010	[3125, 3126]	4027	[5323, 921]	6044	[6941, 3926]	8061	[8063, 1418]
2011	[3127, 3128]	4028	[5324, 1420]	6045	[6942, 4227]	8062	[6801, 5004]
2012	[3129, 446]	4029	[1145, 5243]	6046	[6943, 4656]	8063	[6763, 2340]
2013	[3130, 84]	4030	[5325, 5326]	6047	[6944, 878]		
2014	[1510, 92]	4031	[5327, 1438]	6048	[6945, 3777]		
2015	[1006, 3131]	4032	[5328, 5329]	6049	[6530, 2019]		
2016	[3132, 3133]	4033	[1490, 1174]	6050	[6946, 3763]		

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

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1345	1	2690	1	4035	0	5380	1	6725	0
1	0	1346	0	2691	1	4036	0	5381	1	6726	1
2	0	1347	0	2692	0	4037	0	5382	0	6727	0
3	0	1348	1	2693	1	4038	1	5383	0	6728	0
4	0	1349	0	2694	0	4039	1	5384	1	6729	1
5	0	1350	1	2695	1	4040	0	5385	0	6730	1
6	0	1351	0	2696	0	4041	0	5386	0	6731	0
7	0	1352	0	2697	0	4042	0	5387	0	6732	0
8	0	1353	1	2698	0	4043	1	5388	1	6733	1
9	0	1354	1	2699	0	4044	0	5389	1	6734	1
10	0	1355	0	2700	0	4045	0	5390	0	6735	1
11	0	1356	0	2701	1	4046	0	5391	0	6736	0
12	1	1357	0	2702	0	4047	1	5392	0	6737	1
13	0	1358	0	2703	0	4048	0	5393	0	6738	0
14	1	1359	1	2704	0	4049	0	5394	0	6739	0
15	0	1360	0	2705	1	4050	0	5395	1	6740	0

16	0	1361	1	2706	1	4051	1	5396	1	6741	0
17	0	1362	0	2707	1	4052	0	5397	1	6742	1
18	1	1363	0	2708	1	4053	1	5398	1	6743	1
19	0	1364	0	2709	0	4054	0	5399	0	6744	0
20	1	1365	0	2710	1	4055	1	5400	0	6745	0
21	0	1366	1	2711	1	4056	1	5401	0	6746	0
22	0	1367	0	2712	0	4057	1	5402	0	6747	0
23	0	1368	1	2713	0	4058	0	5403	0	6748	0
24	0	1369	1	2714	0	4059	0	5404	1	6749	1
25	1	1370	1	2715	1	4060	0	5405	1	6750	0
26	0	1371	1	2716	1	4061	0	5406	1	6751	1
27	0	1372	1	2717	0	4062	0	5407	1	6752	1
28	0	1373	1	2718	0	4063	1	5408	0	6753	1
29	1	1374	0	2719	0	4064	0	5409	1	6754	0
30	1	1375	1	2720	1	4065	0	5410	1	6755	1
31	0	1376	0	2721	1	4066	0	5411	1	6756	0
32	0	1377	0	2722	1	4067	1	5412	1	6757	1
33	0	1378	0	2723	0	4068	1	5413	1	6758	1
34	0	1379	0	2724	1	4069	1	5414	1	6759	1
35	0	1380	0	2725	1	4070	1	5415	0	6760	1
36	1	1381	1	2726	1	4071	1	5416	0	6761	1
37	1	1382	0	2727	0	4072	1	5417	1	6762	0
38	0	1383	1	2728	0	4073	0	5418	1	6763	0
39	0	1384	1	2729	0	4074	0	5419	0	6764	0
40	1	1385	0	2730	0	4075	0	5420	1	6765	0
41	1	1386	0	2731	0	4076	0	5421	0	6766	1
42	0	1387	0	2732	0	4077	0	5422	1	6767	0
43	0	1388	1	2733	1	4078	1	5423	1	6768	0
44	0	1389	0	2734	1	4079	0	5424	0	6769	1
45	0	1390	1	2735	1	4080	0	5425	0	6770	0
46	1	1391	1	2736	1	4081	0	5426	0	6771	1
47	0	1392	1	2737	0	4082	0	5427	0	6772	1
48	0	1393	0	2738	1	4083	0	5428	1	6773	0
49	0	1394	1	2739	0	4084	0	5429	1	6774	0
50	1	1395	0	2740	1	4085	1	5430	0	6775	1
51	1	1396	1	2741	0	4086	0	5431	0	6776	0
52	1	1397	1	2742	1	4087	0	5432	0	6777	0
53	0	1398	0	2743	1	4088	0	5433	1	6778	1
54	0	1399	0	2744	1	4089	1	5434	0	6779	0
55	0	1400	1	2745	1	4090	0	5435	0	6780	1
56	0	1401	1	2746	0	4091	0	5436	0	6781	0
57	0	1402	0	2747	1	4092	0	5437	1	6782	0
58	1	1403	0	2748	0	4093	0	5438	0	6783	0
59	1	1404	0	2749	0	4094	1	5439	0	6784	1

60	1	1405	1	2750	0	4095	1	5440	1	6785	1
61	1	1406	1	2751	1	4096	0	5441	1	6786	1
62	1	1407	0	2752	0	4097	0	5442	0	6787	0
63	0	1408	1	2753	1	4098	0	5443	0	6788	1
64	1	1409	1	2754	1	4099	0	5444	0	6789	1
65	0	1410	1	2755	0	4100	1	5445	0	6790	1
66	0	1411	0	2756	1	4101	1	5446	1	6791	0
67	1	1412	0	2757	1	4102	1	5447	1	6792	1
68	0	1413	1	2758	0	4103	0	5448	0	6793	1
69	0	1414	0	2759	1	4104	0	5449	0	6794	1
70	0	1415	1	2760	0	4105	0	5450	1	6795	1
71	0	1416	1	2761	1	4106	0	5451	1	6796	1
72	1	1417	0	2762	0	4107	0	5452	1	6797	0
73	1	1418	1	2763	1	4108	1	5453	0	6798	0
74	1	1419	1	2764	0	4109	1	5454	1	6799	0
75	1	1420	0	2765	1	4110	1	5455	0	6800	0
76	0	1421	1	2766	0	4111	1	5456	0	6801	0
77	1	1422	0	2767	1	4112	1	5457	1	6802	0
78	0	1423	1	2768	0	4113	0	5458	0	6803	1
79	0	1424	1	2769	0	4114	1	5459	0	6804	0
80	1	1425	1	2770	1	4115	1	5460	1	6805	0
81	1	1426	1	2771	0	4116	1	5461	1	6806	1
82	1	1427	0	2772	0	4117	1	5462	0	6807	0
83	1	1428	0	2773	1	4118	0	5463	1	6808	1
84	0	1429	0	2774	1	4119	1	5464	0	6809	0
85	0	1430	1	2775	0	4120	1	5465	1	6810	1
86	0	1431	1	2776	0	4121	0	5466	0	6811	1
87	1	1432	1	2777	0	4122	0	5467	0	6812	0
88	0	1433	0	2778	0	4123	1	5468	1	6813	1
89	0	1434	0	2779	0	4124	0	5469	0	6814	1
90	0	1435	0	2780	0	4125	1	5470	1	6815	0
91	0	1436	0	2781	1	4126	0	5471	1	6816	0
92	1	1437	0	2782	0	4127	0	5472	1	6817	0
93	0	1438	0	2783	0	4128	1	5473	0	6818	1
94	0	1439	0	2784	1	4129	0	5474	1	6819	1
95	0	1440	0	2785	0	4130	0	5475	1	6820	1
96	0	1441	0	2786	1	4131	1	5476	0	6821	0
97	1	1442	1	2787	0	4132	0	5477	1	6822	0
98	0	1443	0	2788	1	4133	1	5478	0	6823	0
99	1	1444	1	2789	0	4134	1	5479	1	6824	0
100	1	1445	1	2790	0	4135	1	5480	0	6825	1
101	0	1446	0	2791	1	4136	0	5481	1	6826	0
102	1	1447	1	2792	1	4137	0	5482	0	6827	1
103	1	1448	0	2793	1	4138	0	5483	1	6828	0

104	1	1449	0	2794	0	4139	0	5484	1	6829	0
105	0	1450	1	2795	0	4140	0	5485	1	6830	1
106	0	1451	0	2796	0	4141	0	5486	0	6831	1
107	0	1452	1	2797	0	4142	1	5487	1	6832	1
108	0	1453	0	2798	1	4143	0	5488	1	6833	0
109	1	1454	1	2799	0	4144	1	5489	1	6834	0
110	0	1455	1	2800	0	4145	0	5490	0	6835	0
111	1	1456	0	2801	1	4146	0	5491	1	6836	0
112	0	1457	0	2802	1	4147	0	5492	1	6837	0
113	1	1458	0	2803	1	4148	0	5493	1	6838	1
114	0	1459	1	2804	1	4149	1	5494	1	6839	0
115	1	1460	1	2805	0	4150	1	5495	0	6840	1
116	1	1461	0	2806	1	4151	0	5496	0	6841	0
117	1	1462	0	2807	0	4152	1	5497	0	6842	1
118	1	1463	1	2808	0	4153	1	5498	0	6843	0
119	1	1464	1	2809	1	4154	0	5499	0	6844	0
120	1	1465	0	2810	1	4155	1	5500	0	6845	0
121	0	1466	1	2811	0	4156	0	5501	1	6846	0
122	1	1467	0	2812	0	4157	1	5502	1	6847	1
123	1	1468	0	2813	0	4158	1	5503	1	6848	0
124	1	1469	0	2814	1	4159	0	5504	0	6849	1
125	0	1470	0	2815	0	4160	0	5505	1	6850	0
126	0	1471	0	2816	0	4161	0	5506	0	6851	0
127	1	1472	1	2817	1	4162	1	5507	1	6852	0
128	1	1473	0	2818	0	4163	0	5508	1	6853	1
129	0	1474	1	2819	1	4164	0	5509	0	6854	1
130	0	1475	1	2820	0	4165	0	5510	0	6855	1
131	1	1476	0	2821	0	4166	1	5511	0	6856	1
132	0	1477	1	2822	1	4167	0	5512	1	6857	0
133	0	1478	0	2823	1	4168	0	5513	1	6858	1
134	1	1479	1	2824	0	4169	0	5514	1	6859	1
135	0	1480	1	2825	0	4170	0	5515	1	6860	1
136	0	1481	1	2826	0	4171	1	5516	0	6861	1
137	0	1482	1	2827	0	4172	0	5517	0	6862	0
138	1	1483	0	2828	1	4173	0	5518	0	6863	0
139	0	1484	0	2829	1	4174	0	5519	1	6864	0
140	1	1485	1	2830	0	4175	1	5520	1	6865	1
141	0	1486	0	2831	1	4176	1	5521	0	6866	1
142	0	1487	1	2832	0	4177	0	5522	1	6867	0
143	1	1488	0	2833	0	4178	0	5523	1	6868	0
144	0	1489	1	2834	0	4179	1	5524	0	6869	0
145	1	1490	0	2835	1	4180	1	5525	0	6870	1
146	0	1491	1	2836	0	4181	1	5526	1	6871	1
147	1	1492	0	2837	1	4182	1	5527	1	6872	0

148	0	1493	0	2838	1	4183	0	5528	1	6873	1
149	1	1494	0	2839	0	4184	1	5529	1	6874	0
150	0	1495	0	2840	1	4185	0	5530	1	6875	0
151	0	1496	0	2841	1	4186	1	5531	1	6876	1
152	1	1497	1	2842	0	4187	0	5532	0	6877	0
153	1	1498	0	2843	1	4188	0	5533	0	6878	0
154	0	1499	0	2844	1	4189	1	5534	1	6879	0
155	0	1500	1	2845	1	4190	1	5535	0	6880	0
156	0	1501	1	2846	0	4191	1	5536	0	6881	0
157	0	1502	1	2847	1	4192	0	5537	0	6882	1
158	1	1503	1	2848	0	4193	1	5538	0	6883	0
159	1	1504	1	2849	1	4194	0	5539	1	6884	1
160	1	1505	1	2850	0	4195	1	5540	1	6885	0
161	1	1506	1	2851	0	4196	1	5541	1	6886	1
162	1	1507	1	2852	0	4197	1	5542	0	6887	1
163	1	1508	1	2853	1	4198	0	5543	0	6888	0
164	0	1509	1	2854	0	4199	0	5544	0	6889	0
165	1	1510	0	2855	0	4200	1	5545	1	6890	1
166	0	1511	1	2856	1	4201	1	5546	0	6891	0
167	0	1512	0	2857	0	4202	0	5547	1	6892	1
168	1	1513	1	2858	1	4203	0	5548	1	6893	1
169	0	1514	1	2859	0	4204	1	5549	1	6894	1
170	1	1515	1	2860	1	4205	0	5550	0	6895	0
171	0	1516	0	2861	0	4206	1	5551	1	6896	1
172	1	1517	0	2862	0	4207	1	5552	0	6897	1
173	1	1518	0	2863	0	4208	0	5553	0	6898	1
174	0	1519	0	2864	0	4209	1	5554	1	6899	0
175	0	1520	1	2865	0	4210	1	5555	0	6900	0
176	0	1521	1	2866	0	4211	1	5556	1	6901	1
177	0	1522	0	2867	0	4212	1	5557	0	6902	1
178	1	1523	1	2868	0	4213	0	5558	0	6903	0
179	0	1524	1	2869	0	4214	0	5559	1	6904	1
180	1	1525	1	2870	1	4215	1	5560	1	6905	1
181	0	1526	0	2871	1	4216	1	5561	0	6906	0
182	1	1527	0	2872	0	4217	1	5562	1	6907	0
183	1	1528	1	2873	0	4218	1	5563	1	6908	1
184	0	1529	1	2874	0	4219	0	5564	1	6909	1
185	0	1530	1	2875	1	4220	1	5565	1	6910	1
186	0	1531	0	2876	1	4221	1	5566	1	6911	0
187	0	1532	0	2877	1	4222	1	5567	1	6912	1
188	0	1533	1	2878	0	4223	0	5568	1	6913	1
189	0	1534	0	2879	1	4224	1	5569	0	6914	0
190	0	1535	0	2880	0	4225	0	5570	1	6915	0
191	1	1536	1	2881	1	4226	0	5571	0	6916	1

192	1	1537	0	2882	1	4227	0	5572	1	6917	1
193	0	1538	0	2883	1	4228	0	5573	0	6918	1
194	0	1539	0	2884	0	4229	1	5574	0	6919	0
195	1	1540	1	2885	0	4230	1	5575	1	6920	0
196	0	1541	1	2886	1	4231	0	5576	1	6921	1
197	1	1542	0	2887	0	4232	0	5577	1	6922	0
198	1	1543	1	2888	0	4233	1	5578	0	6923	1
199	0	1544	1	2889	1	4234	1	5579	1	6924	0
200	1	1545	1	2890	0	4235	1	5580	1	6925	0
201	1	1546	1	2891	0	4236	0	5581	0	6926	0
202	1	1547	0	2892	1	4237	0	5582	1	6927	0
203	1	1548	0	2893	0	4238	1	5583	0	6928	0
204	0	1549	0	2894	0	4239	0	5584	0	6929	0
205	1	1550	1	2895	0	4240	1	5585	1	6930	0
206	0	1551	1	2896	1	4241	0	5586	1	6931	0
207	0	1552	1	2897	0	4242	1	5587	0	6932	1
208	1	1553	0	2898	0	4243	0	5588	0	6933	0
209	0	1554	1	2899	0	4244	1	5589	0	6934	0
210	1	1555	1	2900	1	4245	0	5590	1	6935	0
211	0	1556	0	2901	0	4246	0	5591	1	6936	0
212	1	1557	0	2902	1	4247	0	5592	1	6937	0
213	0	1558	1	2903	0	4248	0	5593	1	6938	1
214	0	1559	1	2904	1	4249	1	5594	0	6939	1
215	1	1560	0	2905	1	4250	1	5595	1	6940	1
216	1	1561	0	2906	0	4251	1	5596	0	6941	1
217	0	1562	0	2907	1	4252	0	5597	1	6942	0
218	0	1563	0	2908	0	4253	0	5598	1	6943	0
219	1	1564	0	2909	0	4254	0	5599	1	6944	1
220	1	1565	0	2910	1	4255	1	5600	1	6945	1
221	0	1566	1	2911	1	4256	1	5601	0	6946	1
222	1	1567	0	2912	1	4257	0	5602	1	6947	0
223	1	1568	1	2913	1	4258	0	5603	1	6948	0
224	0	1569	1	2914	0	4259	1	5604	1	6949	0
225	0	1570	0	2915	0	4260	1	5605	1	6950	1
226	1	1571	0	2916	0	4261	0	5606	0	6951	1
227	0	1572	0	2917	1	4262	1	5607	0	6952	0
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229	1	1574	0	2919	0	4264	1	5609	0	6954	1
230	1	1575	1	2920	0	4265	1	5610	1	6955	0
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232	1	1577	1	2922	1	4267	1	5612	1	6957	0
233	1	1578	1	2923	0	4268	1	5613	1	6958	0
234	1	1579	0	2924	0	4269	0	5614	1	6959	0
235	0	1580	0	2925	0	4270	0	5615	1	6960	1

236	1	1581	0	2926	0	4271	0	5616	1	6961	1
237	1	1582	0	2927	0	4272	0	5617	0	6962	1
238	0	1583	1	2928	1	4273	0	5618	1	6963	0
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240	1	1585	1	2930	1	4275	1	5620	0	6965	0
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245	0	1590	0	2935	1	4280	1	5625	0	6970	0
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249	0	1594	1	2939	1	4284	1	5629	0	6974	0
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251	0	1596	0	2941	1	4286	0	5631	0	6976	1
252	1	1597	0	2942	0	4287	1	5632	1	6977	1
253	0	1598	0	2943	1	4288	0	5633	0	6978	1
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256	0	1601	0	2946	1	4291	1	5636	0	6981	1
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258	1	1603	1	2948	0	4293	0	5638	1	6983	0
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261	0	1606	0	2951	0	4296	1	5641	1	6986	1
262	0	1607	1	2952	1	4297	1	5642	0	6987	1
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265	0	1610	0	2955	1	4300	0	5645	0	6990	0
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267	1	1612	0	2957	0	4302	1	5647	0	6992	1
268	0	1613	1	2958	0	4303	1	5648	1	6993	0
269	1	1614	1	2959	1	4304	1	5649	1	6994	1
270	1	1615	1	2960	1	4305	0	5650	1	6995	0
271	1	1616	1	2961	0	4306	1	5651	1	6996	1
272	0	1617	0	2962	0	4307	1	5652	0	6997	0
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274	1	1619	0	2964	0	4309	0	5654	0	6999	0
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276	0	1621	1	2966	0	4311	1	5656	1	7001	1
277	0	1622	1	2967	0	4312	1	5657	0	7002	0
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281	0	1626	1	2971	1	4316	1	5661	1	7006	1
282	0	1627	0	2972	0	4317	1	5662	0	7007	1
283	0	1628	1	2973	0	4318	0	5663	0	7008	1
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285	0	1630	0	2975	1	4320	0	5665	0	7010	1
286	0	1631	0	2976	0	4321	1	5666	0	7011	0
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292	1	1637	0	2982	1	4327	1	5672	1	7017	0
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295	1	1640	0	2985	1	4330	1	5675	0	7020	1
296	0	1641	1	2986	1	4331	0	5676	0	7021	0
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303	1	1648	1	2993	1	4338	1	5683	0	7028	1
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309	1	1654	1	2999	0	4344	1	5689	0	7034	0
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312	1	1657	1	3002	1	4347	0	5692	0	7037	1
313	1	1658	1	3003	1	4348	0	5693	0	7038	1
314	1	1659	0	3004	0	4349	0	5694	0	7039	0
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316	1	1661	1	3006	1	4351	1	5696	1	7041	0
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323	0	1668	1	3013	1	4358	0	5703	0	7048	1

324	1	1669	1	3014	0	4359	0	5704	0	7049	0
325	1	1670	1	3015	1	4360	0	5705	0	7050	1
326	0	1671	1	3016	1	4361	1	5706	1	7051	1
327	0	1672	1	3017	1	4362	0	5707	0	7052	0
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329	0	1674	0	3019	1	4364	1	5709	0	7054	1
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335	1	1680	0	3025	0	4370	0	5715	0	7060	1
336	0	1681	1	3026	1	4371	0	5716	0	7061	0
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339	1	1684	0	3029	0	4374	0	5719	1	7064	1
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371	0	1716	1	3061	1	4406	1	5751	0	7096	1
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489	1	1834	0	3179	0	4524	0	5869	1	7214	1
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491	0	1836	1	3181	1	4526	0	5871	0	7216	0
492	0	1837	0	3182	0	4527	0	5872	0	7217	1
493	0	1838	1	3183	1	4528	1	5873	0	7218	0
494	1	1839	1	3184	1	4529	1	5874	1	7219	0
495	0	1840	0	3185	1	4530	1	5875	0	7220	0
496	1	1841	0	3186	0	4531	0	5876	1	7221	0
497	1	1842	0	3187	1	4532	1	5877	1	7222	1
498	1	1843	0	3188	1	4533	0	5878	1	7223	1
499	1	1844	1	3189	1	4534	1	5879	0	7224	1

500	0	1845	0	3190	1	4535	0	5880	0	7225	0
501	1	1846	1	3191	0	4536	1	5881	0	7226	1
502	1	1847	0	3192	1	4537	0	5882	1	7227	1
503	1	1848	1	3193	1	4538	0	5883	0	7228	1
504	0	1849	1	3194	0	4539	0	5884	1	7229	1
505	1	1850	1	3195	0	4540	0	5885	1	7230	0
506	0	1851	0	3196	0	4541	1	5886	1	7231	0
507	0	1852	1	3197	0	4542	1	5887	0	7232	1
508	0	1853	1	3198	0	4543	1	5888	1	7233	1
509	0	1854	0	3199	0	4544	0	5889	0	7234	0
510	0	1855	1	3200	0	4545	0	5890	0	7235	0
511	0	1856	0	3201	0	4546	0	5891	0	7236	0
512	0	1857	0	3202	1	4547	0	5892	1	7237	1
513	1	1858	0	3203	0	4548	0	5893	1	7238	0
514	0	1859	0	3204	0	4549	0	5894	1	7239	0
515	1	1860	0	3205	0	4550	1	5895	1	7240	1
516	1	1861	1	3206	0	4551	1	5896	0	7241	0
517	1	1862	1	3207	0	4552	1	5897	0	7242	1
518	1	1863	0	3208	0	4553	1	5898	0	7243	1
519	0	1864	0	3209	1	4554	1	5899	1	7244	0
520	1	1865	1	3210	0	4555	0	5900	0	7245	1
521	1	1866	0	3211	0	4556	1	5901	0	7246	1
522	0	1867	1	3212	0	4557	0	5902	0	7247	0
523	0	1868	1	3213	0	4558	1	5903	1	7248	0
524	1	1869	1	3214	1	4559	0	5904	1	7249	1
525	1	1870	1	3215	1	4560	0	5905	1	7250	1
526	1	1871	1	3216	0	4561	0	5906	1	7251	0
527	0	1872	1	3217	1	4562	1	5907	1	7252	0
528	0	1873	0	3218	1	4563	0	5908	0	7253	1
529	0	1874	1	3219	1	4564	1	5909	1	7254	0
530	0	1875	1	3220	1	4565	1	5910	0	7255	0
531	1	1876	0	3221	1	4566	1	5911	1	7256	1
532	1	1877	1	3222	0	4567	0	5912	0	7257	1
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536	0	1881	0	3226	1	4571	1	5916	0	7261	0
537	1	1882	1	3227	0	4572	0	5917	1	7262	0
538	0	1883	0	3228	0	4573	0	5918	1	7263	1
539	0	1884	0	3229	1	4574	1	5919	1	7264	1
540	0	1885	0	3230	0	4575	0	5920	1	7265	1
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542	1	1887	0	3232	0	4577	1	5922	1	7267	0
543	0	1888	1	3233	0	4578	1	5923	0	7268	1

544	0	1889	0	3234	0	4579	0	5924	0	7269	0
545	1	1890	1	3235	0	4580	0	5925	0	7270	0
546	0	1891	1	3236	1	4581	1	5926	1	7271	1
547	0	1892	1	3237	1	4582	1	5927	1	7272	1
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550	1	1895	0	3240	0	4585	1	5930	1	7275	1
551	0	1896	0	3241	0	4586	0	5931	0	7276	0
552	0	1897	1	3242	0	4587	0	5932	0	7277	0
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555	1	1900	1	3245	1	4590	0	5935	1	7280	1
556	0	1901	0	3246	1	4591	1	5936	0	7281	0
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558	1	1903	1	3248	1	4593	0	5938	1	7283	1
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563	1	1908	1	3253	1	4598	0	5943	0	7288	1
564	0	1909	1	3254	0	4599	0	5944	1	7289	0
565	0	1910	1	3255	1	4600	1	5945	1	7290	1
566	0	1911	1	3256	0	4601	0	5946	0	7291	1
567	1	1912	0	3257	0	4602	0	5947	1	7292	1
568	1	1913	0	3258	1	4603	0	5948	0	7293	1
569	1	1914	0	3259	1	4604	1	5949	1	7294	0
570	1	1915	1	3260	1	4605	1	5950	0	7295	0
571	1	1916	0	3261	1	4606	0	5951	0	7296	1
572	1	1917	1	3262	0	4607	1	5952	1	7297	0
573	0	1918	1	3263	1	4608	0	5953	0	7298	0
574	1	1919	0	3264	1	4609	1	5954	1	7299	0
575	0	1920	1	3265	0	4610	0	5955	0	7300	0
576	0	1921	1	3266	0	4611	1	5956	1	7301	0
577	1	1922	1	3267	1	4612	1	5957	0	7302	1
578	1	1923	0	3268	0	4613	0	5958	1	7303	0
579	0	1924	1	3269	1	4614	1	5959	0	7304	1
580	0	1925	1	3270	1	4615	1	5960	0	7305	0
581	1	1926	1	3271	1	4616	1	5961	0	7306	0
582	0	1927	1	3272	0	4617	0	5962	1	7307	1
583	0	1928	1	3273	1	4618	1	5963	0	7308	1
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585	0	1930	1	3275	0	4620	1	5965	1	7310	0
586	0	1931	1	3276	1	4621	0	5966	0	7311	1
587	0	1932	1	3277	1	4622	1	5967	1	7312	1

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591	0	1936	0	3281	0	4626	1	5971	1	7316	1
592	0	1937	0	3282	1	4627	0	5972	0	7317	0
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594	1	1939	1	3284	0	4629	1	5974	1	7319	1
595	1	1940	0	3285	0	4630	1	5975	0	7320	1
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598	1	1943	1	3288	0	4633	0	5978	1	7323	1
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604	1	1949	0	3294	1	4639	1	5984	0	7329	1
605	1	1950	1	3295	0	4640	0	5985	1	7330	1
606	1	1951	1	3296	0	4641	0	5986	1	7331	0
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609	1	1954	0	3299	1	4644	1	5989	0	7334	0
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615	0	1960	0	3305	1	4650	0	5995	0	7340	0
616	1	1961	1	3306	1	4651	1	5996	1	7341	0
617	1	1962	1	3307	1	4652	1	5997	0	7342	0
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619	1	1964	1	3309	0	4654	0	5999	1	7344	0
620	1	1965	1	3310	1	4655	0	6000	0	7345	1
621	0	1966	1	3311	0	4656	1	6001	1	7346	1
622	0	1967	0	3312	1	4657	1	6002	1	7347	0
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624	0	1969	0	3314	1	4659	0	6004	0	7349	0
625	0	1970	0	3315	1	4660	1	6005	0	7350	1
626	0	1971	1	3316	0	4661	1	6006	1	7351	0
627	0	1972	1	3317	0	4662	0	6007	1	7352	0
628	1	1973	0	3318	0	4663	0	6008	1	7353	1
629	1	1974	1	3319	0	4664	1	6009	1	7354	0
630	1	1975	1	3320	0	4665	0	6010	0	7355	1
631	0	1976	1	3321	0	4666	0	6011	1	7356	0

632	0	1977	0	3322	0	4667	1	6012	1	7357	0
633	0	1978	1	3323	1	4668	0	6013	1	7358	1
634	0	1979	0	3324	1	4669	1	6014	1	7359	1
635	1	1980	1	3325	0	4670	0	6015	0	7360	0
636	1	1981	1	3326	0	4671	1	6016	0	7361	1
637	0	1982	0	3327	1	4672	1	6017	1	7362	1
638	1	1983	1	3328	1	4673	0	6018	1	7363	0
639	0	1984	0	3329	1	4674	0	6019	1	7364	0
640	1	1985	1	3330	1	4675	1	6020	1	7365	1
641	0	1986	0	3331	1	4676	1	6021	0	7366	1
642	1	1987	1	3332	0	4677	1	6022	0	7367	1
643	0	1988	0	3333	1	4678	1	6023	0	7368	0
644	0	1989	0	3334	0	4679	1	6024	0	7369	1
645	1	1990	0	3335	0	4680	1	6025	1	7370	1
646	1	1991	1	3336	0	4681	1	6026	1	7371	0
647	0	1992	0	3337	0	4682	0	6027	1	7372	0
648	0	1993	0	3338	1	4683	1	6028	0	7373	0
649	0	1994	1	3339	0	4684	0	6029	0	7374	0
650	1	1995	0	3340	1	4685	0	6030	0	7375	0
651	1	1996	1	3341	0	4686	0	6031	0	7376	0
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653	1	1998	1	3343	0	4688	1	6033	0	7378	1
654	1	1999	1	3344	1	4689	1	6034	1	7379	0
655	0	2000	0	3345	0	4690	1	6035	0	7380	0
656	1	2001	0	3346	0	4691	1	6036	0	7381	1
657	0	2002	1	3347	0	4692	0	6037	0	7382	1
658	0	2003	0	3348	1	4693	0	6038	1	7383	0
659	0	2004	0	3349	0	4694	0	6039	0	7384	0
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662	0	2007	1	3352	0	4697	0	6042	1	7387	1
663	1	2008	0	3353	0	4698	0	6043	1	7388	0
664	1	2009	1	3354	1	4699	1	6044	1	7389	0
665	0	2010	0	3355	1	4700	1	6045	0	7390	1
666	0	2011	1	3356	0	4701	1	6046	0	7391	1
667	1	2012	0	3357	1	4702	1	6047	1	7392	1
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671	0	2016	0	3361	1	4706	1	6051	1	7396	0
672	0	2017	0	3362	1	4707	0	6052	0	7397	1
673	1	2018	1	3363	0	4708	1	6053	1	7398	0
674	0	2019	1	3364	0	4709	0	6054	1	7399	0
675	0	2020	0	3365	0	4710	1	6055	0	7400	1

676	0	2021	0	3366	1	4711	0	6056	1	7401	0
677	1	2022	1	3367	0	4712	0	6057	0	7402	1
678	1	2023	1	3368	1	4713	0	6058	1	7403	0
679	1	2024	0	3369	1	4714	1	6059	1	7404	0
680	0	2025	0	3370	1	4715	0	6060	0	7405	0
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685	0	2030	1	3375	0	4720	1	6065	0	7410	1
686	0	2031	1	3376	1	4721	0	6066	1	7411	0
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691	0	2036	1	3381	1	4726	1	6071	0	7416	1
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693	0	2038	1	3383	1	4728	0	6073	1	7418	1
694	1	2039	0	3384	1	4729	1	6074	0	7419	1
695	0	2040	0	3385	1	4730	1	6075	0	7420	1
696	0	2041	0	3386	1	4731	1	6076	0	7421	0
697	1	2042	0	3387	1	4732	0	6077	0	7422	0
698	0	2043	0	3388	0	4733	0	6078	1	7423	1
699	1	2044	0	3389	1	4734	0	6079	1	7424	0
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705	0	2050	0	3395	1	4740	0	6085	1	7430	1
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709	0	2054	1	3399	1	4744	1	6089	0	7434	1
710	1	2055	0	3400	1	4745	0	6090	0	7435	1
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712	1	2057	0	3402	1	4747	0	6092	0	7437	1
713	1	2058	1	3403	0	4748	1	6093	1	7438	0
714	1	2059	1	3404	1	4749	0	6094	0	7439	0
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716	0	2061	1	3406	0	4751	1	6096	0	7441	0
717	1	2062	0	3407	0	4752	1	6097	0	7442	1
718	0	2063	1	3408	0	4753	1	6098	0	7443	0
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720	1	2065	1	3410	1	4755	1	6100	0	7445	0
721	1	2066	1	3411	0	4756	0	6101	1	7446	1
722	0	2067	1	3412	1	4757	0	6102	0	7447	1
723	1	2068	0	3413	1	4758	1	6103	0	7448	1
724	1	2069	0	3414	1	4759	0	6104	0	7449	0
725	0	2070	0	3415	0	4760	1	6105	1	7450	1
726	0	2071	0	3416	0	4761	0	6106	1	7451	0
727	0	2072	0	3417	0	4762	0	6107	0	7452	0
728	1	2073	0	3418	1	4763	1	6108	1	7453	0
729	0	2074	0	3419	0	4764	1	6109	0	7454	0
730	0	2075	0	3420	1	4765	0	6110	1	7455	0
731	1	2076	0	3421	0	4766	0	6111	1	7456	1
732	0	2077	1	3422	0	4767	0	6112	1	7457	1
733	1	2078	0	3423	0	4768	1	6113	1	7458	0
734	1	2079	0	3424	0	4769	1	6114	0	7459	0
735	1	2080	0	3425	1	4770	0	6115	0	7460	0
736	0	2081	1	3426	1	4771	0	6116	0	7461	0
737	1	2082	0	3427	0	4772	0	6117	1	7462	0
738	0	2083	0	3428	0	4773	1	6118	0	7463	0
739	0	2084	0	3429	0	4774	0	6119	0	7464	0
740	0	2085	1	3430	1	4775	1	6120	1	7465	0
741	1	2086	1	3431	1	4776	1	6121	1	7466	0
742	0	2087	1	3432	0	4777	1	6122	0	7467	1
743	1	2088	1	3433	0	4778	0	6123	0	7468	0
744	0	2089	0	3434	1	4779	1	6124	0	7469	1
745	1	2090	1	3435	1	4780	1	6125	0	7470	1
746	1	2091	1	3436	1	4781	1	6126	1	7471	1
747	1	2092	0	3437	0	4782	0	6127	0	7472	1
748	0	2093	0	3438	0	4783	0	6128	1	7473	0
749	1	2094	0	3439	1	4784	0	6129	1	7474	1
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752	0	2097	0	3442	1	4787	1	6132	0	7477	1
753	1	2098	1	3443	0	4788	0	6133	0	7478	1
754	1	2099	0	3444	1	4789	0	6134	1	7479	0
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756	0	2101	1	3446	0	4791	0	6136	1	7481	0
757	0	2102	0	3447	0	4792	1	6137	0	7482	0
758	1	2103	0	3448	1	4793	1	6138	0	7483	0
759	1	2104	1	3449	1	4794	0	6139	0	7484	0
760	1	2105	0	3450	0	4795	0	6140	0	7485	1
761	1	2106	1	3451	0	4796	1	6141	0	7486	1
762	0	2107	1	3452	1	4797	1	6142	1	7487	0
763	0	2108	0	3453	0	4798	1	6143	0	7488	0

764	0	2109	0	3454	1	4799	1	6144	1	7489	1
765	0	2110	0	3455	0	4800	0	6145	0	7490	0
766	0	2111	1	3456	1	4801	1	6146	0	7491	1
767	1	2112	0	3457	0	4802	1	6147	1	7492	1
768	0	2113	1	3458	1	4803	1	6148	1	7493	1
769	0	2114	0	3459	1	4804	1	6149	0	7494	1
770	1	2115	1	3460	0	4805	0	6150	1	7495	1
771	0	2116	0	3461	1	4806	1	6151	1	7496	1
772	1	2117	1	3462	1	4807	1	6152	1	7497	0
773	0	2118	1	3463	1	4808	1	6153	0	7498	1
774	1	2119	1	3464	0	4809	1	6154	1	7499	1
775	1	2120	1	3465	0	4810	0	6155	1	7500	0
776	1	2121	0	3466	1	4811	1	6156	1	7501	1
777	1	2122	1	3467	0	4812	0	6157	1	7502	1
778	1	2123	1	3468	1	4813	0	6158	0	7503	1
779	0	2124	0	3469	0	4814	1	6159	1	7504	0
780	1	2125	1	3470	1	4815	1	6160	0	7505	1
781	0	2126	0	3471	1	4816	1	6161	0	7506	0
782	0	2127	0	3472	0	4817	0	6162	0	7507	0
783	0	2128	0	3473	0	4818	0	6163	1	7508	0
784	1	2129	0	3474	0	4819	1	6164	0	7509	0
785	1	2130	0	3475	0	4820	0	6165	1	7510	0
786	1	2131	1	3476	1	4821	0	6166	0	7511	0
787	1	2132	1	3477	1	4822	0	6167	0	7512	0
788	0	2133	0	3478	1	4823	0	6168	1	7513	0
789	0	2134	1	3479	1	4824	1	6169	0	7514	1
790	1	2135	1	3480	0	4825	0	6170	0	7515	1
791	1	2136	1	3481	1	4826	1	6171	0	7516	0
792	0	2137	1	3482	1	4827	1	6172	1	7517	1
793	1	2138	0	3483	1	4828	1	6173	0	7518	1
794	1	2139	1	3484	0	4829	1	6174	0	7519	1
795	1	2140	1	3485	1	4830	1	6175	0	7520	0
796	1	2141	0	3486	1	4831	0	6176	0	7521	1
797	0	2142	0	3487	1	4832	1	6177	1	7522	1
798	0	2143	1	3488	1	4833	0	6178	0	7523	0
799	0	2144	0	3489	0	4834	1	6179	1	7524	0
800	1	2145	0	3490	0	4835	1	6180	1	7525	0
801	0	2146	0	3491	1	4836	0	6181	1	7526	1
802	0	2147	1	3492	0	4837	1	6182	1	7527	1
803	0	2148	0	3493	1	4838	1	6183	0	7528	0
804	0	2149	1	3494	1	4839	1	6184	1	7529	0
805	0	2150	1	3495	1	4840	1	6185	0	7530	1
806	0	2151	1	3496	1	4841	0	6186	1	7531	0
807	0	2152	0	3497	0	4842	1	6187	0	7532	0

808	1	2153	1	3498	0	4843	0	6188	1	7533	1
809	1	2154	0	3499	0	4844	0	6189	0	7534	0
810	0	2155	1	3500	1	4845	1	6190	1	7535	1
811	1	2156	1	3501	1	4846	1	6191	1	7536	1
812	1	2157	1	3502	0	4847	1	6192	1	7537	1
813	1	2158	1	3503	0	4848	0	6193	0	7538	1
814	0	2159	1	3504	1	4849	0	6194	0	7539	1
815	0	2160	1	3505	0	4850	0	6195	0	7540	0
816	1	2161	0	3506	0	4851	0	6196	1	7541	0
817	1	2162	1	3507	0	4852	1	6197	1	7542	1
818	0	2163	1	3508	1	4853	1	6198	0	7543	0
819	1	2164	1	3509	0	4854	0	6199	1	7544	1
820	1	2165	0	3510	1	4855	1	6200	0	7545	0
821	0	2166	0	3511	1	4856	1	6201	1	7546	0
822	0	2167	1	3512	1	4857	0	6202	0	7547	1
823	0	2168	0	3513	1	4858	0	6203	0	7548	0
824	0	2169	0	3514	0	4859	0	6204	1	7549	0
825	1	2170	0	3515	1	4860	0	6205	0	7550	0
826	1	2171	1	3516	1	4861	0	6206	0	7551	1
827	1	2172	0	3517	1	4862	0	6207	0	7552	1
828	0	2173	1	3518	1	4863	0	6208	1	7553	0
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830	1	2175	0	3520	0	4865	1	6210	1	7555	0
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832	1	2177	1	3522	1	4867	0	6212	1	7557	1
833	1	2178	1	3523	1	4868	0	6213	1	7558	1
834	0	2179	0	3524	0	4869	1	6214	1	7559	0
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836	0	2181	1	3526	0	4871	0	6216	1	7561	1
837	1	2182	1	3527	0	4872	1	6217	0	7562	0
838	1	2183	1	3528	1	4873	0	6218	1	7563	1
839	0	2184	0	3529	1	4874	1	6219	1	7564	0
840	0	2185	1	3530	0	4875	0	6220	0	7565	0
841	0	2186	0	3531	0	4876	1	6221	1	7566	1
842	1	2187	1	3532	0	4877	1	6222	1	7567	1
843	0	2188	0	3533	0	4878	0	6223	0	7568	1
844	1	2189	1	3534	0	4879	0	6224	1	7569	1
845	0	2190	1	3535	1	4880	0	6225	0	7570	1
846	1	2191	0	3536	1	4881	1	6226	1	7571	1
847	1	2192	0	3537	1	4882	0	6227	1	7572	1
848	1	2193	1	3538	1	4883	0	6228	1	7573	1
849	1	2194	0	3539	0	4884	1	6229	1	7574	0
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855	0	2200	1	3545	0	4890	1	6235	0	7580	0
856	0	2201	0	3546	0	4891	1	6236	1	7581	1
857	1	2202	0	3547	0	4892	1	6237	1	7582	0
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859	0	2204	0	3549	0	4894	1	6239	0	7584	0
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861	1	2206	1	3551	1	4896	1	6241	1	7586	1
862	1	2207	1	3552	0	4897	0	6242	1	7587	0
863	0	2208	0	3553	0	4898	1	6243	0	7588	1
864	1	2209	0	3554	0	4899	0	6244	0	7589	1
865	1	2210	0	3555	0	4900	1	6245	1	7590	1
866	1	2211	1	3556	0	4901	1	6246	0	7591	1
867	1	2212	0	3557	0	4902	0	6247	0	7592	0
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869	0	2214	1	3559	1	4904	0	6249	0	7594	0
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871	1	2216	1	3561	0	4906	1	6251	1	7596	1
872	0	2217	1	3562	0	4907	0	6252	1	7597	0
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875	0	2220	1	3565	1	4910	1	6255	1	7600	0
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880	1	2225	1	3570	1	4915	0	6260	1	7605	1
881	0	2226	0	3571	0	4916	0	6261	1	7606	1
882	0	2227	1	3572	1	4917	1	6262	0	7607	0
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884	0	2229	0	3574	1	4919	0	6264	0	7609	0
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886	1	2231	1	3576	1	4921	1	6266	1	7611	0
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891	0	2236	1	3581	0	4926	1	6271	0	7616	0
892	1	2237	0	3582	1	4927	0	6272	1	7617	1
893	1	2238	0	3583	1	4928	0	6273	1	7618	1
894	0	2239	1	3584	1	4929	1	6274	0	7619	1
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898	0	2243	1	3588	0	4933	0	6278	0	7623	1
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906	0	2251	0	3596	1	4941	1	6286	1	7631	1
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914	1	2259	1	3604	0	4949	0	6294	0	7639	1
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920	1	2265	0	3610	0	4955	0	6300	1	7645	0
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922	1	2267	1	3612	1	4957	1	6302	0	7647	1
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926	1	2271	1	3616	0	4961	0	6306	1	7651	1
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928	1	2273	0	3618	1	4963	1	6308	1	7653	0
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942	0	2287	0	3632	1	4977	0	6322	1	7667	1
943	0	2288	0	3633	1	4978	1	6323	0	7668	0
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947	1	2292	0	3637	1	4982	0	6327	0	7672	1
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949	1	2294	1	3639	1	4984	1	6329	0	7674	1
950	1	2295	0	3640	1	4985	0	6330	1	7675	0
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953	0	2298	1	3643	1	4988	1	6333	0	7678	1
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955	1	2300	0	3645	0	4990	0	6335	1	7680	0
956	1	2301	0	3646	0	4991	0	6336	0	7681	1
957	0	2302	0	3647	0	4992	1	6337	0	7682	0
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959	0	2304	0	3649	0	4994	1	6339	0	7684	1
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965	0	2310	1	3655	1	5000	0	6345	0	7690	1
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969	1	2314	0	3659	0	5004	0	6349	1	7694	0
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972	1	2317	1	3662	0	5007	1	6352	1	7697	1
973	1	2318	0	3663	0	5008	0	6353	1	7698	0
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976	1	2321	1	3666	0	5011	0	6356	0	7701	1
977	1	2322	1	3667	0	5012	0	6357	0	7702	1
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980	1	2325	0	3670	0	5015	1	6360	0	7705	1
981	0	2326	1	3671	0	5016	1	6361	0	7706	0
982	1	2327	0	3672	0	5017	0	6362	1	7707	0
983	1	2328	1	3673	1	5018	0	6363	1	7708	0

984	0	2329	1	3674	0	5019	1	6364	0	7709	1
985	0	2330	0	3675	0	5020	0	6365	1	7710	1
986	0	2331	1	3676	1	5021	1	6366	0	7711	0
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992	1	2337	1	3682	0	5027	1	6372	1	7717	1
993	0	2338	1	3683	0	5028	1	6373	0	7718	0
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1002	1	2347	0	3692	1	5037	0	6382	0	7727	1
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1004	1	2349	1	3694	0	5039	1	6384	0	7729	0
1005	1	2350	1	3695	1	5040	1	6385	1	7730	0
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1007	1	2352	1	3697	0	5042	0	6387	1	7732	1
1008	1	2353	0	3698	1	5043	0	6388	1	7733	1
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1019	1	2364	0	3709	0	5054	1	6399	0	7744	0
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1021	0	2366	0	3711	1	5056	1	6401	1	7746	0
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1024	0	2369	0	3714	0	5059	0	6404	1	7749	0
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1026	0	2371	0	3716	0	5061	0	6406	0	7751	0
1027	0	2372	1	3717	0	5062	1	6407	0	7752	1

1028	0	2373	1	3718	1	5063	1	6408	1	7753	0
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1291	1	2636	1	3981	1	5326	1	6671	0	8016	0

1292	1	2637	1	3982	0	5327	0	6672	0	8017	0
1293	1	2638	1	3983	1	5328	0	6673	1	8018	0
1294	1	2639	1	3984	0	5329	1	6674	1	8019	1
1295	0	2640	0	3985	1	5330	0	6675	0	8020	1
1296	0	2641	0	3986	0	5331	0	6676	0	8021	1
1297	1	2642	1	3987	1	5332	0	6677	1	8022	1
1298	0	2643	1	3988	0	5333	0	6678	1	8023	0
1299	0	2644	0	3989	0	5334	1	6679	1	8024	1
1300	1	2645	1	3990	0	5335	1	6680	1	8025	1
1301	1	2646	1	3991	1	5336	0	6681	0	8026	0
1302	0	2647	0	3992	1	5337	0	6682	0	8027	1
1303	0	2648	0	3993	1	5338	0	6683	1	8028	0
1304	1	2649	1	3994	0	5339	1	6684	1	8029	1
1305	0	2650	0	3995	0	5340	0	6685	0	8030	0
1306	1	2651	1	3996	1	5341	0	6686	1	8031	1
1307	1	2652	1	3997	1	5342	1	6687	0	8032	0
1308	1	2653	1	3998	0	5343	0	6688	1	8033	1
1309	1	2654	0	3999	0	5344	0	6689	1	8034	1
1310	0	2655	0	4000	0	5345	0	6690	0	8035	1
1311	0	2656	0	4001	1	5346	0	6691	0	8036	0
1312	0	2657	0	4002	0	5347	0	6692	0	8037	0
1313	1	2658	0	4003	0	5348	1	6693	0	8038	1
1314	0	2659	1	4004	1	5349	0	6694	0	8039	1
1315	1	2660	1	4005	1	5350	1	6695	0	8040	1
1316	1	2661	1	4006	1	5351	1	6696	0	8041	0
1317	1	2662	0	4007	1	5352	0	6697	1	8042	1
1318	0	2663	1	4008	1	5353	0	6698	0	8043	1
1319	0	2664	1	4009	1	5354	0	6699	0	8044	0
1320	0	2665	0	4010	1	5355	0	6700	1	8045	0
1321	1	2666	1	4011	1	5356	0	6701	1	8046	0
1322	1	2667	0	4012	0	5357	0	6702	0	8047	1
1323	0	2668	1	4013	1	5358	1	6703	0	8048	0
1324	0	2669	0	4014	1	5359	0	6704	0	8049	1
1325	1	2670	0	4015	0	5360	0	6705	0	8050	0
1326	0	2671	0	4016	0	5361	0	6706	0	8051	0
1327	1	2672	0	4017	0	5362	0	6707	1	8052	0
1328	1	2673	1	4018	1	5363	0	6708	1	8053	0
1329	1	2674	1	4019	0	5364	1	6709	1	8054	0
1330	1	2675	0	4020	1	5365	1	6710	0	8055	1
1331	0	2676	1	4021	0	5366	0	6711	0	8056	0
1332	0	2677	0	4022	0	5367	0	6712	1	8057	1
1333	1	2678	1	4023	0	5368	1	6713	1	8058	0
1334	1	2679	1	4024	1	5369	0	6714	1	8059	0
1335	1	2680	0	4025	0	5370	1	6715	1	8060	0

1336	0	2681	1	4026	0	5371	0	6716	1	8061	0
1337	1	2682	0	4027	1	5372	0	6717	1	8062	0
1338	0	2683	0	4028	1	5373	0	6718	0	8063	0
1339	1	2684	0	4029	1	5374	1	6719	1		
1340	1	2685	0	4030	0	5375	1	6720	0		
1341	1	2686	0	4031	0	5376	0	6721	1		
1342	0	2687	1	4032	0	5377	0	6722	1		
1343	0	2688	0	4033	0	5378	0	6723	0		
1344	1	2689	0	4034	0	5379	0	6724	0		

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