

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{17} + z^{16} + z^{15} + z^{14} + z^{12} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^5 + z^4 \\ &\quad + z^3 + z^2 + z + 1, \\ p_1(z) &= z^{22} + z^{21} + z^{20} + z^{19} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{10} + z^8 + z^6 + z^3 \\ &\quad + z, \\ p_2(z) &= z^{24} + z^{18} + z^{12} + z^4 + z^2, \\ p_3(z) &= z^{22} + z^{21} + z^{20} + z^{19} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{10} + z^8 + z^6 + z^3 \\ &\quad + z, \\ p_4(z) &= z^{20} + z^{17} + z^{15} + z^{14} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{17} + z^{15} + z^{14} + z^{12} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 \\ &\quad + z^2 + z, \\ p_1(z) &= z^{22} + z^{21} + z^{20} + z^{19} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{10} + z^8 + z^6 + z^3 \\ &\quad + z, \\ p_2(z) &= z^{24} + z^{18} + z^{12} + z^4 + z^2, \\ p_3(z) &= z^{22} + z^{21} + z^{20} + z^{19} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{10} + z^8 + z^6 + z^3 \\ &\quad + z, \\ p_4(z) &= z^{20} + z^{17} + z^{16} + z^{15} + z^{14} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z \\ &\quad + 1. \end{aligned}$$

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

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

$$\dots \times x^{\deg(\bar{t}_0)} \begin{pmatrix} \bar{t}_0(1/x) & 1 \\ 1 & 0 \end{pmatrix},$$

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,

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

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

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

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

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

of the vector

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

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

for $j > 1$, then there exists a unique solution $f(x) \in \mathbb{F}_2[[x]]$ of $P(x, f(x)) = 0$ that satisfies the initial condition $f_n(x) = \sum_{j=0}^{n-1} a_j x^j$.

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

is an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We use Padé-Hermite approximation to find a candidate for the minimal polynomial of $W_{0,0}^o M_{0,0}^o$, that will be called $\phi_0(x, y)$. To prove that $\phi_0(x, y)$ is indeed the minimal polynomial, it suffices to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and that $Q(x, y) := P(x, y)/\phi_0(x, y)^m$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We verify the first point directly. For the second point, we truncate $W_{0,0}^o M_{0,0}^o$ to order 540 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 540, which proves that $Q(x, y)$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We find the minimal polynomial $\phi_1(x, y)$ of $W_{0,1}^o M_{1,0}^o$ in a similar way.

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

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

is an annihilating of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. We verify that $\phi(M^e, 0, 0)$ is an irreducible factor of $S(x, y)$ of multiplicity μ , and that $Q(x, y) := S(x, y)/\phi(M^e, 0, 0)^\mu$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. To see the last point, we truncate $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$ to order 660 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 660, and therefore $Q(x, y)$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$.

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

Define

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

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

$$\begin{aligned} M^e[:12u] &= M^e[:6u] + x^u M^e[:5u] + x^{4u} M^e[:2u] + x^u M^e[:6u] + x^{2u} M^e[:5u] \\ &\quad + x^{5u} M^e[:2u] + x^{2u} M^e[:6u] + x^{3u} M^e[:5u] + x^{6u} M^e[:2u] \end{aligned}$$

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

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

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

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 $u = 2^{2k}$,

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

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

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

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

which can be rewritten as

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

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

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

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8190 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

$$\begin{aligned}
(2.19) \quad 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 110)), \\
&0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\
(2.20) \quad &+ \tau(A(s, 111)), \\
(2.21) \quad 0 &= \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)), \\
(2.22) \quad 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 1001)), \\
&0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\
(2.23) \quad &+ \tau(A(s, 1010)), \\
&0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 101)) \\
(2.24) \quad &+ \tau(A(s, 1011)),
\end{aligned}$$

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

$$(2.25) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 110)),$$

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

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

$$(2.27) \quad 0 = \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

$$(2.28) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

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

$$(2.29) \quad + \tau(A(s, 1010)),$$

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

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

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{46}), E_{46}) = (A(i, 0^{26}), E_{26})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 23$, which turns out to be true. $\square$

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

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

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

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

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

$$M_{2k+1} = M^o[:6u] + x^u M^o[:5u] + x^{4u} M^o[:2u] + x^{6u} R^o,$$

$$W_{2k+1} = W^o[:6u] + x^u W^o[:5u] + x^{4u} W^o[:2u] + x^{6u} R^o.$$

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

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

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

$$W^e[:12v] M^e[:12v] + x^{2v} W^e[:10v] M^e[:10v] + x^{8v} W^e[:4v] M^e[:4v].$$

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

$$\begin{aligned} q_0(x) &= x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^{12} \\ &\quad + x^{10} + x^9 + x^8 + x^7 + x^6, \\ q_1(x) &= x^{23} + x^{21} + x^{18} + x^{16} + x^{14} + x^{12} + x^{11} + x^{10} + x^8 + x^7 + x^5 + x^4 + x^3 \\ &\quad + x^2, \\ q_2(x) &= x^{22} + x^{20} + x^{12} + x^6 + 1, \\ q_3(x) &= x^{23} + x^{21} + x^{18} + x^{16} + x^{14} + x^{12} + x^{11} + x^{10} + x^8 + x^7 + x^5 + x^4 + x^3 \\ &\quad + x^2, \\ q_4(x) &= x^{23} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^{10} + x^9 + x^7 \\ &\quad + x^4. \end{aligned}$$

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

$$\begin{aligned} p_0(x) &= x^{120} + x^{118} + x^{116} + x^{114} + x^{110} + x^{106} + x^{102} + x^{100} + x^{96} + x^{90} \\ &\quad + x^{76} + x^{74} + x^{70} + x^{68} + x^{66} + x^{64} + x^{60} + x^{54} + x^{52} + x^{48} + x^{44} \\ &\quad + x^{38} + x^{36} + x^{28} + x^{24}, \\ p_3(x) &= x^{116} + x^{110} + x^{106} + x^{102} + x^{100} + x^{94} + x^{86} + x^{84} + x^{80} + x^{70} + x^{64} \\ &\quad + x^{62} + x^{60} + x^{58} + x^{54} + x^{50} + x^{48} + x^{34} + x^{24} + x^{22}, \\ p_6(x) &= x^{114} + x^{108} + x^{106} + x^{98} + x^{96} + x^{88} + x^{86} + x^{78} + x^{76} + x^{72} + x^{70} \\ &\quad + x^{68} + x^{66} + x^{58} + x^{50} + x^{48} + x^{46} + x^{44} + x^{34} + x^{32} + x^{20} + x^{18} \\ &\quad + x^{14} + x^{12} + x^{10} + 1, \\ p_9(x) &= x^{118} + x^{112} + x^{108} + x^{104} + x^{102} + x^{98} + x^{94} + x^{84} + x^{78} + x^{76} + x^{70} \\ &\quad + x^{68} + x^{66} + x^{62} + x^{60} + x^{54} + x^{46} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} \\ &\quad + x^{26} + x^{20} + x^{10} + x^8 + x^6 + x^4, \\ p_{12}(x) &= x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{104} + x^{94} + x^{92} + x^{88} + x^{86} \\ &\quad + x^{84} + x^{80} + x^{54} + x^{52} + x^{48} + x^{46} + x^{44} + x^{40} + x^{30} + x^{28} + x^{24} \\ &\quad + x^{14} + x^{12} + x^8 + x^6 + x^4 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{110} + x^{106} \\ &\quad + x^{105} + x^{103} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} + x^{93} + x^{89} \\ &\quad + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{76} + x^{74} \\ &\quad + x^{72} + x^{71} + x^{70} + x^{68} + x^{66} + x^{64} + x^{63} + x^{62} + x^{60} + x^{58} + x^{55} \\ &\quad + x^{54} + x^{52} + x^{48} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{33} + x^{32} + x^{30}, \\ p_3(x) &= x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} + x^{108} + x^{106} + x^{104} + x^{100} \\ &\quad + x^{98} + x^{96} + x^{94} + x^{90} + x^{76} + x^{74} + x^{72} + x^{70} + x^{66} + x^{62} + x^{58} \end{aligned}$$

$$\begin{aligned}
& + x^{52} + x^{50} + x^{48} + x^{38} + x^{36} + x^{32} + x^{28} + x^{26} + x^{24} + x^{22} + x^{18}, \\
p_6(x) = & x^{123} + x^{118} + x^{114} + x^{113} + x^{110} + x^{108} + x^{106} + x^{105} + x^{104} + x^{102} \\
& + x^{99} + x^{98} + x^{97} + x^{95} + x^{92} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} \\
& + x^{75} + x^{70} + x^{67} + x^{66} + x^{65} + x^{60} + x^{56} + x^{52} + x^{48} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{40} + x^{37} + x^{36} + x^{33} + x^{31} + x^{29} + x^{28} + x^{27} + x^{26} \\
& + x^{25} + x^{23} + x^{20} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12}, \\
p_9(x) = & x^{122} + x^{120} + x^{110} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{78} + x^{76} + x^{70} \\
& + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{56} + x^{48} + x^{44} + x^{42} + x^{34} + x^{32} \\
& + x^{30} + x^{28} + x^{26} + x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^8 + x^6, \\
p_{12}(x) = & x^{121} + x^{117} + x^{116} + x^{101} + x^{97} + x^{96} + x^{89} + x^{84} + x^{81} + x^{80} + x^{57} \\
& + x^{53} + x^{52} + x^{37} + x^{33} + x^{32} + x^{21} + x^{17} + x^{16} + x^9 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{110} + x^{106} \\
& + x^{105} + x^{103} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} + x^{93} + x^{89} \\
& + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{76} + x^{74} \\
& + x^{72} + x^{71} + x^{70} + x^{68} + x^{66} + x^{64} + x^{63} + x^{62} + x^{60} + x^{58} + x^{55} \\
& + x^{54} + x^{52} + x^{48} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{33} + x^{32} + x^{30}, \\
p_3(x) = & x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} + x^{108} + x^{106} + x^{104} + x^{100} \\
& + x^{98} + x^{96} + x^{94} + x^{90} + x^{76} + x^{74} + x^{72} + x^{70} + x^{66} + x^{62} + x^{58} \\
& + x^{52} + x^{50} + x^{48} + x^{38} + x^{36} + x^{32} + x^{28} + x^{26} + x^{24} + x^{22} + x^{18}, \\
p_6(x) = & x^{123} + x^{118} + x^{114} + x^{113} + x^{110} + x^{108} + x^{106} + x^{105} + x^{104} + x^{102} \\
& + x^{99} + x^{98} + x^{97} + x^{95} + x^{92} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} \\
& + x^{75} + x^{70} + x^{67} + x^{66} + x^{65} + x^{60} + x^{56} + x^{52} + x^{48} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{40} + x^{37} + x^{36} + x^{33} + x^{31} + x^{29} + x^{28} + x^{27} + x^{26} \\
& + x^{25} + x^{23} + x^{20} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12}, \\
p_9(x) = & x^{122} + x^{120} + x^{110} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{78} + x^{76} + x^{70} \\
& + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{56} + x^{48} + x^{44} + x^{42} + x^{34} + x^{32} \\
& + x^{30} + x^{28} + x^{26} + x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^8 + x^6, \\
p_{12}(x) = & x^{121} + x^{117} + x^{116} + x^{101} + x^{97} + x^{96} + x^{89} + x^{84} + x^{81} + x^{80} + x^{57} \\
& + x^{53} + x^{52} + x^{37} + x^{33} + x^{32} + x^{21} + x^{17} + x^{16} + x^9 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{132} + x^{126} + x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} + x^{96} \\
& + x^{92} + x^{88} + x^{86} + x^{84} + x^{80} + x^{78} + x^{72} + x^{68} + x^{66} + x^{64} + x^{58}
\end{aligned}$$

$$\begin{aligned}
& + x^{54} + x^{52} + x^{48} + x^{46} + x^{42} + x^{36}, \\
p_3(x) &= x^{126} + x^{124} + x^{122} + x^{120} + x^{114} + x^{112} + x^{110} + x^{106} + x^{104} + x^{100} \\
& + x^{96} + x^{92} + x^{90} + x^{82} + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{66} \\
& + x^{64} + x^{62} + x^{52} + x^{50} + x^{38} + x^{32} + x^{28} + x^{26} + x^{20} + x^{18} + x^{12}, \\
p_6(x) &= x^{126} + x^{122} + x^{116} + x^{112} + x^{104} + x^{102} + x^{100} + x^{98} + x^{92} + x^{90} \\
& + x^{78} + x^{76} + x^{72} + x^{68} + x^{66} + x^{62} + x^{58} + x^{52} + x^{50} + x^{46} + x^{40} \\
& + x^{38} + x^{36} + x^{34} + x^{28} + x^{26} + x^{24} + x^{22} + x^{18} + x^{16} + x^{10} + x^8 \\
& + x^2 + 1, \\
p_9(x) &= x^{124} + x^{120} + x^{118} + x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{92} \\
& + x^{90} + x^{88} + x^{86} + x^{84} + x^{78} + x^{76} + x^{70} + x^{68} + x^{66} + x^{62} + x^{56} \\
& + x^{54} + x^{50} + x^{40} + x^{36} + x^{30} + x^{22} + x^{20} + x^{18} + x^{14} + x^{12} + x^4, \\
p_{12}(x) &= x^{124} + x^{122} + x^{120} + x^{116} + x^{114} + x^{112} + x^{108} + x^{106} + x^{104} + x^{84} \\
& + x^{82} + x^{80} + x^{60} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} + x^{40} \\
& + x^{28} + x^{26} + x^{24} + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{132} + x^{128} + x^{124} + x^{122} + x^{120} + x^{112} + x^{108} + x^{106} + x^{104} + x^{102} \\
& + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{72} + x^{68} + x^{66} \\
& + x^{64} + x^{62} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{48} + x^{46} + x^{40} + x^{36} \\
& + x^{32} + x^{30} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{126} + x^{124} + x^{118} + x^{114} + x^{108} + x^{104} + x^{98} + x^{94} + x^{92} + x^{84} \\
& + x^{82} + x^{80} + x^{78} + x^{76} + x^{64} + x^{62} + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} \\
& + x^{44} + x^{38} + x^{32} + x^{28} + x^{24} + x^{22} + x^{20}, \\
p_6(x) &= x^{126} + x^{110} + x^{108} + x^{106} + x^{98} + x^{96} + x^{88} + x^{86} + x^{78} + x^{68} + x^{66} \\
& + x^{60} + x^{58} + x^{56} + x^{48} + x^{40} + x^{38} + x^{32} + x^{26} + x^{22} + x^{18} + x^{16} \\
& + x^{14} + x^{12} + x^2 + 1, \\
p_9(x) &= x^{124} + x^{120} + x^{118} + x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{92} \\
& + x^{90} + x^{88} + x^{86} + x^{84} + x^{78} + x^{76} + x^{70} + x^{68} + x^{66} + x^{62} + x^{56} \\
& + x^{54} + x^{50} + x^{40} + x^{36} + x^{30} + x^{22} + x^{20} + x^{18} + x^{14} + x^{12} + x^4, \\
p_{12}(x) &= x^{124} + x^{122} + x^{120} + x^{116} + x^{114} + x^{112} + x^{108} + x^{106} + x^{104} + x^{84} \\
& + x^{82} + x^{80} + x^{60} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} + x^{40} \\
& + x^{28} + x^{26} + x^{24} + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{126} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{110} + x^{108}$$

$$\begin{aligned}
& + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} \\
& + x^{90} + x^{86} + x^{84} + x^{81} + x^{80} + x^{77} + x^{72} + x^{71} + x^{70} + x^{68} + x^{67} \\
& + x^{64} + x^{56} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{43} \\
& + x^{39} + x^{34} + x^{30}, \\
p_3(x) &= x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} + x^{108} + x^{106} + x^{104} + x^{100} \\
& + x^{98} + x^{96} + x^{94} + x^{90} + x^{76} + x^{74} + x^{72} + x^{70} + x^{66} + x^{62} + x^{58} \\
& + x^{52} + x^{50} + x^{48} + x^{38} + x^{36} + x^{32} + x^{28} + x^{26} + x^{24} + x^{22} + x^{18}, \\
p_6(x) &= x^{123} + x^{118} + x^{114} + x^{113} + x^{110} + x^{108} + x^{106} + x^{105} + x^{104} + x^{102} \\
& + x^{99} + x^{98} + x^{97} + x^{95} + x^{92} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} \\
& + x^{75} + x^{70} + x^{67} + x^{66} + x^{65} + x^{60} + x^{56} + x^{52} + x^{48} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{40} + x^{37} + x^{36} + x^{33} + x^{31} + x^{29} + x^{28} + x^{27} + x^{26} \\
& + x^{25} + x^{23} + x^{20} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12}, \\
p_9(x) &= x^{122} + x^{120} + x^{110} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{78} + x^{76} + x^{70} \\
& + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{56} + x^{48} + x^{44} + x^{42} + x^{34} + x^{32} \\
& + x^{30} + x^{28} + x^{26} + x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^8 + x^6, \\
p_{12}(x) &= x^{121} + x^{117} + x^{116} + x^{101} + x^{97} + x^{96} + x^{89} + x^{84} + x^{81} + x^{80} + x^{57} \\
& + x^{53} + x^{52} + x^{37} + x^{33} + x^{32} + x^{21} + x^{17} + x^{16} + x^9 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{110} + x^{108} \\
& + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} \\
& + x^{90} + x^{86} + x^{84} + x^{81} + x^{80} + x^{77} + x^{72} + x^{71} + x^{70} + x^{68} + x^{67} \\
& + x^{64} + x^{56} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{43} \\
& + x^{39} + x^{34} + x^{30}, \\
p_3(x) &= x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} + x^{108} + x^{106} + x^{104} + x^{100} \\
& + x^{98} + x^{96} + x^{94} + x^{90} + x^{76} + x^{74} + x^{72} + x^{70} + x^{66} + x^{62} + x^{58} \\
& + x^{52} + x^{50} + x^{48} + x^{38} + x^{36} + x^{32} + x^{28} + x^{26} + x^{24} + x^{22} + x^{18}, \\
p_6(x) &= x^{123} + x^{118} + x^{114} + x^{113} + x^{110} + x^{108} + x^{106} + x^{105} + x^{104} + x^{102} \\
& + x^{99} + x^{98} + x^{97} + x^{95} + x^{92} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} \\
& + x^{75} + x^{70} + x^{67} + x^{66} + x^{65} + x^{60} + x^{56} + x^{52} + x^{48} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{40} + x^{37} + x^{36} + x^{33} + x^{31} + x^{29} + x^{28} + x^{27} + x^{26} \\
& + x^{25} + x^{23} + x^{20} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12}, \\
p_9(x) &= x^{122} + x^{120} + x^{110} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{78} + x^{76} + x^{70} \\
& + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{56} + x^{48} + x^{44} + x^{42} + x^{34} + x^{32} \\
& + x^{30} + x^{28} + x^{26} + x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^8 + x^6,
\end{aligned}$$

$$p_{12}(x) = x^{121} + x^{117} + x^{116} + x^{101} + x^{97} + x^{96} + x^{89} + x^{84} + x^{81} + x^{80} + x^{57} \\ + x^{53} + x^{52} + x^{37} + x^{33} + x^{32} + x^{21} + x^{17} + x^{16} + x^9 + x^4 + x + 1,$$

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

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

$$p_0(x) = x^{120} + x^{116} + x^{114} + x^{112} + x^{106} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} \\ + x^{90} + x^{88} + x^{84} + x^{74} + x^{72} + x^{70} + x^{68} + x^{56} + x^{44} + x^{38} + x^{36}, \\ p_3(x) = x^{114} + x^{104} + x^{102} + x^{98} + x^{96} + x^{94} + x^{88} + x^{80} + x^{70} + x^{68} + x^{66} \\ + x^{64} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{36} + x^{30} + x^{26} + x^{22} + x^{16} \\ + x^{14} + x^{12}, \\ p_6(x) = x^{116} + x^{114} + x^{112} + x^{110} + x^{104} + x^{100} + x^{94} + x^{92} + x^{90} + x^{68} \\ + x^{66} + x^{60} + x^{56} + x^{52} + x^{50} + x^{46} + x^{44} + x^{36} + x^{34} + x^{30} + x^{28} \\ + x^{26} + x^{24} + x^{20} + x^{14} + x^{10} + x^8 + 1, \\ p_9(x) = x^{118} + x^{112} + x^{108} + x^{104} + x^{102} + x^{98} + x^{94} + x^{84} + x^{78} + x^{76} + x^{70} \\ + x^{68} + x^{66} + x^{62} + x^{60} + x^{54} + x^{46} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} \\ + x^{26} + x^{20} + x^{10} + x^8 + x^6 + x^4, \\ p_{12}(x) = x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{104} + x^{94} + x^{92} + x^{88} + x^{86} \\ + x^{84} + x^{80} + x^{54} + x^{52} + x^{48} + x^{46} + x^{44} + x^{40} + x^{30} + x^{28} + x^{24} \\ + x^{14} + x^{12} + x^8 + x^6 + x^4 + 1,$$

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

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

$$p_0(x) = x^{126} + x^{125} + x^{120} + x^{119} + x^{116} + x^{114} + x^{113} + x^{110} + x^{109} + x^{108} \\ + x^{107} + x^{105} + x^{99} + x^{98} + x^{97} + x^{94} + x^{93} + x^{85} + x^{84} + x^{82} + x^{80} \\ + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{70} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} \\ + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{52} + x^{49} + x^{44} \\ + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{35} + x^{30} + x^{29} + x^{25} + x^{24}, \\ p_3(x) = x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{118} + x^{114} + x^{113} + x^{112} + x^{111} \\ + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} \\ + x^{93} + x^{88} + x^{85} + x^{84} + x^{81} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} \\ + x^{63} + x^{61} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{49} \\ + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} \\ + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{22} + x^{20} + x^{17} + x^{16}, \\ p_6(x) = x^{125} + x^{124} + x^{123} + x^{122} + x^{119} + x^{117} + x^{113} + x^{112} + x^{111} + x^{109} \\ + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{96} + x^{95} + x^{94} + x^{92} \\ + x^{89} + x^{87} + x^{86} + x^{84} + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{69} \\ + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{60} + x^{59} + x^{56} + x^{55} + x^{54} + x^{52}$$

$$\begin{aligned}
& + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{43} + x^{32} + x^{29} + x^{25} + x^{23} + x^{20} \\
& + x^{19} + x^{14} + x^{13} + x^8 + x^4 + x + 1, \\
p_9(x) &= x^{125} + x^{121} + x^{120} + x^{93} + x^{89} + x^{88} + x^{61} + x^{57} + x^{56} + x^{13} + x^9 \\
& + x^8, \\
p_{12}(x) &= x^{125} + x^{120} + x^{117} + x^{116} + x^{101} + x^{97} + x^{96} + x^{93} + x^{88} + x^{84} + x^{81} \\
& + x^{80} + x^{61} + x^{56} + x^{53} + x^{52} + x^{37} + x^{33} + x^{32} + x^{21} + x^{17} + x^{16} \\
& + x^{13} + x^8 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{136} + x^{133} + x^{132} + x^{131} + x^{130} + x^{127} + x^{126} + x^{125} + x^{120} + x^{118} \\
& + x^{115} + x^{114} + x^{111} + x^{110} + x^{106} + x^{102} + x^{100} + x^{97} + x^{95} + x^{94} \\
& + x^{93} + x^{90} + x^{87} + x^{81} + x^{79} + x^{77} + x^{73} + x^{71} + x^{69} + x^{68} + x^{67} \\
& + x^{65} + x^{64} + x^{61} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} \\
& + x^{50} + x^{46} + x^{44} + x^{43} + x^{40} + x^{37} + x^{36} + x^{35} + x^{33} + x^{31} + x^{30}, \\
p_3(x) &= x^{129} + x^{125} + x^{124} + x^{121} + x^{119} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{107} + x^{105} + x^{103} + x^{102} + x^{100} + x^{99} + x^{96} + x^{94} + x^{93} + x^{92} \\
& + x^{91} + x^{90} + x^{81} + x^{77} + x^{76} + x^{71} + x^{69} + x^{67} + x^{66} + x^{64} + x^{63} \\
& + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{48} + x^{45} + x^{44} + x^{43} \\
& + x^{41} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{28} + x^{27} + x^{24} \\
& + x^{22} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{130} + x^{120} + x^{118} + x^{114} + x^{112} + x^{110} + x^{108} + x^{98} + x^{94} + x^{90} \\
& + x^{88} + x^{86} + x^{84} + x^{82} + x^{74} + x^{72} + x^{70} + x^{66} + x^{60} + x^{56} + x^{54} \\
& + x^{52} + x^{50} + x^{48} + x^{42} + x^{38} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{22} \\
& + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{131} + x^{127} + x^{126} + x^{119} + x^{114} + x^{110} + x^{106} + x^{102} + x^{99} + x^{98} \\
& + x^{95} + x^{90} + x^{87} + x^{86} + x^{67} + x^{63} + x^{62} + x^{55} + x^{50} + x^{46} + x^{42} \\
& + x^{38} + x^{34} + x^{30} + x^{26} + x^{22} + x^{19} + x^{18} + x^{15} + x^{10} + x^7 + x^6, \\
p_{12}(x) &= x^{132} + x^{124} + x^{120} + x^{116} + x^{108} + x^{104} + x^{100} + x^{96} + x^{84} + x^{80} \\
& + x^{68} + x^{60} + x^{56} + x^{52} + x^{44} + x^{40} + x^{32} + x^{28} + x^{24} + x^{20} + x^{16} \\
& + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{119} + x^{109} + x^{106} + x^{101} + x^{100} \\
& + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{80} + x^{74} \\
& + x^{73} + x^{72} + x^{67} + x^{63} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{52} + x^{51}
\end{aligned}$$

$$\begin{aligned}
& + x^{50} + x^{49} + x^{47} + x^{46} + x^{43} + x^{42} + x^{39} + x^{38} + x^{35} + x^{33} + x^{32} \\
& + x^{31} + x^{30}, \\
p_3(x) &= x^{125} + x^{121} + x^{120} + x^{115} + x^{113} + x^{111} + x^{110} + x^{108} + x^{107} + x^{105} \\
& + x^{104} + x^{102} + x^{99} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{77} \\
& + x^{73} + x^{72} + x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{60} + x^{56} + x^{55} + x^{53} \\
& + x^{52} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{38} + x^{37} + x^{34} \\
& + x^{33} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{126} + x^{118} + x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{100} + x^{92} + x^{86} \\
& + x^{84} + x^{78} + x^{68} + x^{66} + x^{60} + x^{56} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} \\
& + x^{42} + x^{34} + x^{32} + x^{30} + x^{20} + x^{14} + x^{12}, \\
p_9(x) &= x^{127} + x^{123} + x^{122} + x^{119} + x^{114} + x^{110} + x^{106} + x^{102} + x^{98} + x^{95} \\
& + x^{94} + x^{91} + x^{87} + x^{86} + x^{63} + x^{59} + x^{58} + x^{55} + x^{50} + x^{46} + x^{42} \\
& + x^{38} + x^{34} + x^{30} + x^{26} + x^{22} + x^{18} + x^{15} + x^{14} + x^{11} + x^7 + x^6, \\
p_{12}(x) &= x^{128} + x^{116} + x^{104} + x^{100} + x^{88} + x^{80} + x^{64} + x^{52} + x^{40} + x^{36} + x^{32} \\
& + x^{24} + x^{20} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{120} + x^{118} + x^{116} + x^{114} + x^{113} + x^{111} \\
& + x^{110} + x^{107} + x^{103} + x^{102} + x^{100} + x^{99} + x^{95} + x^{92} + x^{90} + x^{84} \\
& + x^{81} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{68} + x^{62} + x^{61} + x^{59} \\
& + x^{55} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{39} + x^{37} + x^{36}, \\
p_3(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} \\
& + x^{113} + x^{112} + x^{108} + x^{106} + x^{103} + x^{102} + x^{100} + x^{98} + x^{95} + x^{89} \\
& + x^{85} + x^{84} + x^{81} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} + x^{63} \\
& + x^{60} + x^{59} + x^{56} + x^{55} + x^{54} + x^{50} + x^{48} + x^{47} + x^{46} + x^{44} + x^{43} \\
& + x^{41} + x^{40} + x^{39} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{29} + x^{26} + x^{25} \\
& + x^{23} + x^{21} + x^{20}, \\
p_6(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{111} \\
& + x^{110} + x^{109} + x^{106} + x^{104} + x^{103} + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} \\
& + x^{92} + x^{90} + x^{89} + x^{88} + x^{85} + x^{80} + x^{78} + x^{75} + x^{74} + x^{73} + x^{70} \\
& + x^{62} + x^{61} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{51} + x^{50} + x^{48} + x^{46} \\
& + x^{45} + x^{42} + x^{40} + x^{37} + x^{36} + x^{32} + x^{31} + x^{29} + x^{27} + x^{26} + x^{25} \\
& + x^{20} + x^{19} + x^{18} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^4 + x + 1, \\
p_9(x) &= x^{125} + x^{121} + x^{120} + x^{93} + x^{89} + x^{88} + x^{61} + x^{57} + x^{56} + x^{13} + x^9 \\
& + x^8,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{125} + x^{120} + x^{117} + x^{116} + x^{101} + x^{97} + x^{96} + x^{93} + x^{88} + x^{84} + x^{81} \\
& + x^{80} + x^{61} + x^{56} + x^{53} + x^{52} + x^{37} + x^{33} + x^{32} + x^{21} + x^{17} + x^{16} \\
& + x^{13} + x^8 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{120} + x^{119} + x^{116} + x^{114} + x^{113} + x^{110} + x^{109} + x^{108} \\
& + x^{107} + x^{105} + x^{99} + x^{98} + x^{97} + x^{94} + x^{93} + x^{85} + x^{84} + x^{82} + x^{80} \\
& + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{70} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} \\
& + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{52} + x^{49} + x^{44} \\
& + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{35} + x^{30} + x^{29} + x^{25} + x^{24}, \\
p_3(x) = & x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{118} + x^{114} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} \\
& + x^{93} + x^{88} + x^{85} + x^{84} + x^{81} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} \\
& + x^{63} + x^{61} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{49} \\
& + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} \\
& + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{22} + x^{20} + x^{17} + x^{16}, \\
p_6(x) = & x^{125} + x^{124} + x^{123} + x^{122} + x^{119} + x^{117} + x^{113} + x^{112} + x^{111} + x^{109} \\
& + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{96} + x^{95} + x^{94} + x^{92} \\
& + x^{89} + x^{87} + x^{86} + x^{84} + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{69} \\
& + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{60} + x^{59} + x^{56} + x^{55} + x^{54} + x^{52} \\
& + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{43} + x^{32} + x^{29} + x^{25} + x^{23} + x^{20} \\
& + x^{19} + x^{14} + x^{13} + x^8 + x^4 + x + 1, \\
p_9(x) = & x^{125} + x^{121} + x^{120} + x^{93} + x^{89} + x^{88} + x^{61} + x^{57} + x^{56} + x^{13} + x^9 \\
& + x^8, \\
p_{12}(x) = & x^{125} + x^{120} + x^{117} + x^{116} + x^{101} + x^{97} + x^{96} + x^{93} + x^{88} + x^{84} + x^{81} \\
& + x^{80} + x^{61} + x^{56} + x^{53} + x^{52} + x^{37} + x^{33} + x^{32} + x^{21} + x^{17} + x^{16} \\
& + x^{13} + x^8 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{119} + x^{109} + x^{106} + x^{101} + x^{100} \\
& + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{80} + x^{74} \\
& + x^{73} + x^{72} + x^{67} + x^{63} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{52} + x^{51} \\
& + x^{50} + x^{49} + x^{47} + x^{46} + x^{43} + x^{42} + x^{39} + x^{38} + x^{35} + x^{33} + x^{32} \\
& + x^{31} + x^{30}, \\
p_3(x) = & x^{125} + x^{121} + x^{120} + x^{115} + x^{113} + x^{111} + x^{110} + x^{108} + x^{107} + x^{105}
\end{aligned}$$

$$\begin{aligned}
& + x^{104} + x^{102} + x^{99} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{77} \\
& + x^{73} + x^{72} + x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{60} + x^{56} + x^{55} + x^{53} \\
& + x^{52} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{38} + x^{37} + x^{34} \\
& + x^{33} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{126} + x^{118} + x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{100} + x^{92} + x^{86} \\
& + x^{84} + x^{78} + x^{68} + x^{66} + x^{60} + x^{56} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} \\
& + x^{42} + x^{34} + x^{32} + x^{30} + x^{20} + x^{14} + x^{12}, \\
p_9(x) &= x^{127} + x^{123} + x^{122} + x^{119} + x^{114} + x^{110} + x^{106} + x^{102} + x^{98} + x^{95} \\
& + x^{94} + x^{91} + x^{87} + x^{86} + x^{63} + x^{59} + x^{58} + x^{55} + x^{50} + x^{46} + x^{42} \\
& + x^{38} + x^{34} + x^{30} + x^{26} + x^{22} + x^{18} + x^{15} + x^{14} + x^{11} + x^7 + x^6, \\
p_{12}(x) &= x^{128} + x^{116} + x^{104} + x^{100} + x^{88} + x^{80} + x^{64} + x^{52} + x^{40} + x^{36} + x^{32} \\
& + x^{24} + x^{20} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{136} + x^{133} + x^{132} + x^{131} + x^{130} + x^{127} + x^{126} + x^{125} + x^{120} + x^{118} \\
& + x^{115} + x^{114} + x^{111} + x^{110} + x^{106} + x^{102} + x^{100} + x^{97} + x^{95} + x^{94} \\
& + x^{93} + x^{90} + x^{87} + x^{81} + x^{79} + x^{77} + x^{73} + x^{71} + x^{69} + x^{68} + x^{67} \\
& + x^{65} + x^{64} + x^{61} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} \\
& + x^{50} + x^{46} + x^{44} + x^{43} + x^{40} + x^{37} + x^{36} + x^{35} + x^{33} + x^{31} + x^{30}, \\
p_3(x) &= x^{129} + x^{125} + x^{124} + x^{121} + x^{119} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{107} + x^{105} + x^{103} + x^{102} + x^{100} + x^{99} + x^{96} + x^{94} + x^{93} + x^{92} \\
& + x^{91} + x^{90} + x^{81} + x^{77} + x^{76} + x^{71} + x^{69} + x^{67} + x^{66} + x^{64} + x^{63} \\
& + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{48} + x^{45} + x^{44} + x^{43} \\
& + x^{41} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{28} + x^{27} + x^{24} \\
& + x^{22} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{130} + x^{120} + x^{118} + x^{114} + x^{112} + x^{110} + x^{108} + x^{98} + x^{94} + x^{90} \\
& + x^{88} + x^{86} + x^{84} + x^{82} + x^{74} + x^{72} + x^{70} + x^{66} + x^{60} + x^{56} + x^{54} \\
& + x^{52} + x^{50} + x^{48} + x^{42} + x^{38} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{22} \\
& + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{131} + x^{127} + x^{126} + x^{119} + x^{114} + x^{110} + x^{106} + x^{102} + x^{99} + x^{98} \\
& + x^{95} + x^{90} + x^{87} + x^{86} + x^{67} + x^{63} + x^{62} + x^{55} + x^{50} + x^{46} + x^{42} \\
& + x^{38} + x^{34} + x^{30} + x^{26} + x^{22} + x^{19} + x^{18} + x^{15} + x^{10} + x^7 + x^6, \\
p_{12}(x) &= x^{132} + x^{124} + x^{120} + x^{116} + x^{108} + x^{104} + x^{100} + x^{96} + x^{84} + x^{80} \\
& + x^{68} + x^{60} + x^{56} + x^{52} + x^{44} + x^{40} + x^{32} + x^{28} + x^{24} + x^{20} + x^{16} \\
& + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{120} + x^{118} + x^{116} + x^{114} + x^{113} + x^{111} \\
&\quad + x^{110} + x^{107} + x^{103} + x^{102} + x^{100} + x^{99} + x^{95} + x^{92} + x^{90} + x^{84} \\
&\quad + x^{81} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{68} + x^{62} + x^{61} + x^{59} \\
&\quad + x^{55} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{39} + x^{37} + x^{36}, \\
p_3(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} \\
&\quad + x^{113} + x^{112} + x^{108} + x^{106} + x^{103} + x^{102} + x^{100} + x^{98} + x^{95} + x^{89} \\
&\quad + x^{85} + x^{84} + x^{81} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} + x^{63} \\
&\quad + x^{60} + x^{59} + x^{56} + x^{55} + x^{54} + x^{50} + x^{48} + x^{47} + x^{46} + x^{44} + x^{43} \\
&\quad + x^{41} + x^{40} + x^{39} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{29} + x^{26} + x^{25} \\
&\quad + x^{23} + x^{21} + x^{20}, \\
p_6(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{111} \\
&\quad + x^{110} + x^{109} + x^{106} + x^{104} + x^{103} + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} \\
&\quad + x^{92} + x^{90} + x^{89} + x^{88} + x^{85} + x^{80} + x^{78} + x^{75} + x^{74} + x^{73} + x^{70} \\
&\quad + x^{62} + x^{61} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{51} + x^{50} + x^{48} + x^{46} \\
&\quad + x^{45} + x^{42} + x^{40} + x^{37} + x^{36} + x^{32} + x^{31} + x^{29} + x^{27} + x^{26} + x^{25} \\
&\quad + x^{20} + x^{19} + x^{18} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^4 + x + 1, \\
p_9(x) &= x^{125} + x^{121} + x^{120} + x^{93} + x^{89} + x^{88} + x^{61} + x^{57} + x^{56} + x^{13} + x^9 \\
&\quad + x^8, \\
p_{12}(x) &= x^{125} + x^{120} + x^{117} + x^{116} + x^{101} + x^{97} + x^{96} + x^{93} + x^{88} + x^{84} + x^{81} \\
&\quad + x^{80} + x^{61} + x^{56} + x^{53} + x^{52} + x^{37} + x^{33} + x^{32} + x^{21} + x^{17} + x^{16} \\
&\quad + x^{13} + x^8 + x^4 + x + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2048	[3325, 3326]	4096	[2265, 5442]	6144	[7019, 4178]
1	[3, 4]	2049	[299, 3327]	4097	[5443, 2138]	6145	[7020, 4299]
2	[5, 6]	2050	[3328, 3329]	4098	[5444, 216]	6146	[503, 5242]
3	[7, 8]	2051	[338, 3330]	4099	[5445, 5446]	6147	[7021, 1788]
4	[9, 10]	2052	[3137, 308]	4100	[5447, 5159]	6148	[7022, 5105]
5	[11, 12]	2053	[1541, 3331]	4101	[5448, 4705]	6149	[7023, 537]
6	[13, 14]	2054	[3332, 407]	4102	[5449, 2630]	6150	[5191, 7024]
7	[15, 16]	2055	[1152, 1655]	4103	[5450, 1818]	6151	[553, 1923]
8	[17, 18]	2056	[3333, 102]	4104	[617, 2054]	6152	[7025, 7026]
9	[19, 20]	2057	[2951, 3334]	4105	[5451, 2164]	6153	[2654, 6979]

10	[21, 22]	2058	[3335, 1474]	4106	[5452, 2427]	6154	[7027, 188]
11	[23, 24]	2059	[3336, 1176]	4107	[5453, 4791]	6155	[7028, 5359]
12	[25, 26]	2060	[3239, 3337]	4108	[5454, 4598]	6156	[7029, 5267]
13	[27, 28]	2061	[1344, 1442]	4109	[5455, 2421]	6157	[2508, 5257]
14	[29, 30]	2062	[937, 1036]	4110	[4501, 5456]	6158	[7030, 2762]
15	[31, 32]	2063	[3338, 3339]	4111	[5457, 4753]	6159	[7031, 5135]
16	[33, 34]	2064	[3340, 2953]	4112	[5458, 5264]	6160	[4272, 2396]
17	[35, 36]	2065	[3341, 3342]	4113	[5459, 875]	6161	[7032, 684]
18	[37, 38]	2066	[1307, 3343]	4114	[5460, 1950]	6162	[5049, 2058]
19	[39, 40]	2067	[3344, 3345]	4115	[5461, 5462]	6163	[2514, 4881]
20	[41, 42]	2068	[3346, 3347]	4116	[5463, 2227]	6164	[7033, 4396]
21	[43, 44]	2069	[2817, 1586]	4117	[5464, 2239]	6165	[7034, 6874]
22	[45, 46]	2070	[3348, 389]	4118	[4652, 5465]	6166	[7035, 4781]
23	[47, 48]	2071	[3282, 3349]	4119	[5466, 2472]	6167	[2649, 5284]
24	[49, 50]	2072	[3350, 3351]	4120	[5467, 2520]	6168	[7036, 2211]
25	[51, 52]	2073	[3352, 3282]	4121	[5468, 2067]	6169	[7037, 4866]
26	[53, 54]	2074	[426, 3353]	4122	[5469, 660]	6170	[7038, 2381]
27	[55, 56]	2075	[1184, 3354]	4123	[5470, 5240]	6171	[7039, 1794]
28	[57, 58]	2076	[3355, 3238]	4124	[2565, 2773]	6172	[4367, 2334]
29	[59, 60]	2077	[3321, 3356]	4125	[5471, 1697]	6173	[7040, 7027]
30	[61, 62]	2078	[3357, 3358]	4126	[2070, 4631]	6174	[4936, 6862]
31	[63, 64]	2079	[3359, 1185]	4127	[5472, 1982]	6175	[1957, 6723]
32	[65, 66]	2080	[2991, 2922]	4128	[4825, 2568]	6176	[7041, 2511]
33	[67, 68]	2081	[3360, 1157]	4129	[5473, 4726]	6177	[7042, 861]
34	[69, 70]	2082	[3287, 3244]	4130	[2185, 4935]	6178	[6641, 4829]
35	[71, 72]	2083	[3361, 1281]	4131	[5474, 4362]	6179	[5235, 2404]
36	[73, 74]	2084	[1270, 1455]	4132	[5475, 691]	6180	[7013, 4778]
37	[75, 76]	2085	[1377, 1585]	4133	[5476, 2582]	6181	[7043, 1851]
38	[77, 78]	2086	[1417, 3224]	4134	[4318, 1904]	6182	[1753, 6749]
39	[79, 80]	2087	[3004, 1072]	4135	[1747, 2488]	6183	[7044, 6771]
40	[81, 82]	2088	[3362, 3363]	4136	[5477, 1814]	6184	[7045, 4216]
41	[83, 84]	2089	[939, 3074]	4137	[5257, 4362]	6185	[6807, 7046]
42	[85, 86]	2090	[3364, 3365]	4138	[5478, 5479]	6186	[7047, 5361]
43	[87, 88]	2091	[1492, 3366]	4139	[2109, 4326]	6187	[7048, 6919]
44	[89, 90]	2092	[3367, 1010]	4140	[5407, 2763]	6188	[7049, 658]
45	[91, 92]	2093	[3368, 1012]	4141	[5480, 2774]	6189	[7050, 1732]
46	[93, 94]	2094	[3369, 3370]	4142	[2010, 2250]	6190	[878, 2227]
47	[95, 96]	2095	[1321, 1591]	4143	[5481, 611]	6191	[7051, 4583]
48	[97, 98]	2096	[3371, 3372]	4144	[5482, 4263]	6192	[813, 1717]
49	[99, 100]	2097	[3373, 3374]	4145	[5483, 5484]	6193	[7052, 4768]
50	[101, 102]	2098	[1105, 967]	4146	[5485, 5486]	6194	[788, 4786]
51	[103, 104]	2099	[3375, 1310]	4147	[5487, 5037]	6195	[7053, 2148]
52	[105, 106]	2100	[3376, 3185]	4148	[5488, 237]	6196	[7054, 2149]
53	[107, 108]	2101	[3377, 2861]	4149	[5489, 717]	6197	[7055, 5479]

54	[109, 110]	2102	[3378, 421]	4150	[4902, 2428]	6198	[7056, 4934]
55	[111, 112]	2103	[3379, 2808]	4151	[5490, 1876]	6199	[7057, 2114]
56	[113, 114]	2104	[3380, 3381]	4152	[5020, 4341]	6200	[874, 4654]
57	[115, 116]	2105	[3382, 3383]	4153	[633, 4591]	6201	[7058, 2728]
58	[117, 118]	2106	[3384, 3385]	4154	[2343, 4559]	6202	[7059, 4920]
59	[119, 120]	2107	[3386, 1531]	4155	[4365, 1798]	6203	[7060, 2523]
60	[121, 122]	2108	[2963, 3387]	4156	[5491, 4460]	6204	[7061, 2304]
61	[123, 124]	2109	[3388, 3389]	4157	[5159, 5492]	6205	[7062, 6565]
62	[125, 126]	2110	[3390, 3391]	4158	[5493, 4489]	6206	[2000, 499]
63	[127, 128]	2111	[3392, 1301]	4159	[5494, 3789]	6207	[2040, 2725]
64	[129, 130]	2112	[3393, 3394]	4160	[3726, 1185]	6208	[7063, 4167]
65	[131, 132]	2113	[3395, 3396]	4161	[5495, 5496]	6209	[7064, 4822]
66	[133, 134]	2114	[3397, 3398]	4162	[5497, 1265]	6210	[7065, 4578]
67	[135, 136]	2115	[3399, 3400]	4163	[5498, 5499]	6211	[811, 7066]
68	[137, 138]	2116	[457, 3401]	4164	[5500, 83]	6212	[7067, 7068]
69	[139, 140]	2117	[357, 3402]	4165	[5501, 3265]	6213	[5319, 7069]
70	[141, 142]	2118	[3403, 3404]	4166	[5502, 1467]	6214	[7070, 7071]
71	[143, 144]	2119	[3405, 1502]	4167	[5503, 5504]	6215	[5346, 670]
72	[145, 146]	2120	[3070, 3406]	4168	[5505, 261]	6216	[7072, 4952]
73	[147, 148]	2121	[3407, 979]	4169	[1227, 1144]	6217	[6934, 5339]
74	[149, 150]	2122	[1092, 3408]	4170	[5506, 5507]	6218	[7073, 2235]
75	[151, 152]	2123	[3409, 3410]	4171	[5508, 4103]	6219	[7074, 618]
76	[153, 154]	2124	[443, 3411]	4172	[5509, 5510]	6220	[2562, 2500]
77	[155, 156]	2125	[3412, 3413]	4173	[3758, 4157]	6221	[497, 641]
78	[157, 158]	2126	[3414, 3415]	4174	[5511, 1441]	6222	[7075, 6826]
79	[159, 160]	2127	[3416, 3417]	4175	[5512, 2818]	6223	[7076, 4662]
80	[161, 162]	2128	[3418, 3419]	4176	[5513, 1589]	6224	[2203, 6842]
81	[163, 164]	2129	[3420, 3421]	4177	[5514, 3407]	6225	[7077, 5074]
82	[165, 166]	2130	[3422, 3423]	4178	[5515, 3651]	6226	[6842, 2237]
83	[167, 168]	2131	[3424, 1020]	4179	[3546, 3904]	6227	[7078, 7079]
84	[169, 170]	2132	[1526, 1290]	4180	[5516, 3530]	6228	[5442, 2039]
85	[171, 172]	2133	[3425, 1662]	4181	[1068, 1202]	6229	[7080, 1739]
86	[173, 174]	2134	[3270, 1241]	4182	[3429, 5517]	6230	[7081, 2317]
87	[175, 176]	2135	[3426, 1478]	4183	[5518, 2820]	6231	[7082, 188]
88	[177, 178]	2136	[3356, 1679]	4184	[5519, 3619]	6232	[7083, 4339]
89	[179, 180]	2137	[3427, 3325]	4185	[2802, 3027]	6233	[4990, 4212]
90	[181, 182]	2138	[1258, 1659]	4186	[5520, 5521]	6234	[7084, 6860]
91	[183, 170]	2139	[3428, 27]	4187	[5522, 1610]	6235	[6826, 2775]
92	[184, 185]	2140	[2804, 3429]	4188	[5523, 5524]	6236	[36, 1899]
93	[186, 187]	2141	[3430, 1167]	4189	[5525, 3168]	6237	[7085, 1701]
94	[188, 189]	2142	[2988, 1485]	4190	[2982, 4021]	6238	[7086, 7087]
95	[190, 191]	2143	[3188, 3431]	4191	[5526, 5520]	6239	[4452, 2636]
96	[192, 193]	2144	[3432, 3433]	4192	[5527, 1315]	6240	[2440, 6797]
97	[194, 195]	2145	[3434, 3276]	4193	[5528, 1183]	6241	[7088, 2042]

98	[196, 197]	2146	[3435, 2981]	4194	[5529, 974]	6242	[6688, 5139]
99	[198, 168]	2147	[3436, 975]	4195	[3567, 5530]	6243	[7089, 5366]
100	[199, 200]	2148	[3437, 3438]	4196	[5531, 5532]	6244	[2651, 1960]
101	[201, 202]	2149	[3439, 3113]	4197	[5533, 5534]	6245	[7090, 147]
102	[203, 204]	2150	[3440, 1581]	4198	[5535, 5536]	6246	[5456, 560]
103	[205, 206]	2151	[3441, 3398]	4199	[5537, 1129]	6247	[7091, 4923]
104	[207, 208]	2152	[3442, 3443]	4200	[5538, 346]	6248	[7092, 5442]
105	[209, 210]	2153	[3444, 3445]	4201	[5539, 5540]	6249	[7093, 2614]
106	[211, 212]	2154	[3446, 2822]	4202	[5541, 5542]	6250	[7094, 525]
107	[213, 214]	2155	[3447, 3448]	4203	[5543, 4107]	6251	[631, 1839]
108	[215, 216]	2156	[3449, 3450]	4204	[1295, 5544]	6252	[7095, 4217]
109	[217, 218]	2157	[3451, 3163]	4205	[5545, 3933]	6253	[14, 7096]
110	[219, 220]	2158	[1580, 3452]	4206	[5546, 1146]	6254	[7097, 1729]
111	[221, 222]	2159	[64, 1512]	4207	[5547, 5548]	6255	[2577, 5170]
112	[223, 224]	2160	[68, 3400]	4208	[5549, 5550]	6256	[7098, 2323]
113	[225, 226]	2161	[3453, 417]	4209	[431, 3434]	6257	[7099, 4516]
114	[227, 228]	2162	[3454, 3455]	4210	[5551, 3973]	6258	[7100, 7101]
115	[229, 230]	2163	[3456, 3457]	4211	[2807, 3270]	6259	[7102, 5387]
116	[231, 232]	2164	[3458, 3459]	4212	[5552, 5553]	6260	[7103, 4234]
117	[233, 234]	2165	[3460, 3461]	4213	[5554, 5555]	6261	[7104, 2575]
118	[235, 236]	2166	[3462, 1136]	4214	[5556, 3114]	6262	[916, 1745]
119	[237, 238]	2167	[3463, 414]	4215	[3063, 3753]	6263	[2511, 4575]
120	[239, 240]	2168	[3464, 3462]	4216	[5557, 1684]	6264	[7105, 5381]
121	[241, 242]	2169	[3459, 3465]	4217	[2945, 417]	6265	[1924, 14]
122	[243, 244]	2170	[3466, 1610]	4218	[1546, 3109]	6266	[7106, 4914]
123	[245, 246]	2171	[3467, 1300]	4219	[1139, 2814]	6267	[644, 2219]
124	[247, 248]	2172	[3468, 953]	4220	[5558, 5559]	6268	[7107, 4324]
125	[249, 250]	2173	[3469, 3470]	4221	[5560, 113]	6269	[7108, 55]
126	[251, 33]	2174	[3471, 3472]	4222	[5561, 2843]	6270	[6646, 7109]
127	[252, 253]	2175	[265, 3143]	4223	[5562, 1317]	6271	[1772, 4161]
128	[254, 255]	2176	[3339, 3473]	4224	[966, 5563]	6272	[7110, 4289]
129	[256, 257]	2177	[3474, 1444]	4225	[5564, 5565]	6273	[7111, 746]
130	[258, 259]	2178	[3475, 3476]	4226	[1529, 363]	6274	[7112, 4382]
131	[260, 261]	2179	[3477, 3478]	4227	[5566, 5567]	6275	[6783, 4606]
132	[262, 263]	2180	[3479, 3480]	4228	[5568, 2958]	6276	[7113, 4823]
133	[264, 265]	2181	[3481, 3034]	4229	[4082, 480]	6277	[7114, 4282]
134	[266, 267]	2182	[958, 3482]	4230	[5569, 5570]	6278	[7115, 4357]
135	[268, 269]	2183	[3483, 3484]	4231	[2918, 3566]	6279	[7116, 523]
136	[270, 271]	2184	[3485, 3486]	4232	[5571, 5572]	6280	[7117, 721]
137	[272, 273]	2185	[3487, 3488]	4233	[5573, 5574]	6281	[1785, 5071]
138	[274, 275]	2186	[3489, 3358]	4234	[3912, 4082]	6282	[7118, 4449]
139	[276, 277]	2187	[3490, 3491]	4235	[5575, 5576]	6283	[7119, 5206]
140	[278, 83]	2188	[3492, 1592]	4236	[3421, 5577]	6284	[7120, 7055]
141	[279, 280]	2189	[3493, 973]	4237	[5578, 1146]	6285	[7026, 1962]

142	[281, 282]	2190	[3494, 3495]	4238	[5579, 1488]	6286	[7109, 2178]
143	[283, 284]	2191	[3496, 3497]	4239	[5580, 4097]	6287	[7121, 2352]
144	[285, 286]	2192	[3498, 3499]	4240	[5581, 5582]	6288	[2463, 781]
145	[287, 288]	2193	[3500, 1405]	4241	[5583, 5584]	6289	[7122, 734]
146	[289, 290]	2194	[3501, 2941]	4242	[5585, 5586]	6290	[7123, 4510]
147	[291, 292]	2195	[3502, 3070]	4243	[3705, 4131]	6291	[7124, 7125]
148	[293, 294]	2196	[3503, 3504]	4244	[3203, 3477]	6292	[7126, 670]
149	[295, 296]	2197	[1231, 1123]	4245	[5587, 3479]	6293	[4797, 844]
150	[297, 64]	2198	[3505, 3506]	4246	[5588, 3747]	6294	[2657, 7099]
151	[298, 299]	2199	[3507, 3508]	4247	[5589, 5590]	6295	[1968, 6687]
152	[300, 301]	2200	[3509, 3252]	4248	[5591, 3412]	6296	[4408, 638]
153	[302, 303]	2201	[3510, 3511]	4249	[5592, 4071]	6297	[4410, 2325]
154	[304, 305]	2202	[3512, 3513]	4250	[3838, 3049]	6298	[7127, 2428]
155	[306, 307]	2203	[3514, 3515]	4251	[5593, 3016]	6299	[7128, 2450]
156	[308, 309]	2204	[3516, 1637]	4252	[2932, 3925]	6300	[5215, 6565]
157	[310, 311]	2205	[3517, 3518]	4253	[5594, 5595]	6301	[154, 4544]
158	[312, 313]	2206	[3519, 3520]	4254	[1340, 1600]	6302	[7129, 1918]
159	[314, 315]	2207	[3521, 1312]	4255	[1091, 3682]	6303	[2336, 6836]
160	[316, 317]	2208	[453, 3522]	4256	[3092, 3212]	6304	[7130, 605]
161	[318, 319]	2209	[3146, 452]	4257	[5596, 442]	6305	[7131, 4261]
162	[320, 321]	2210	[3523, 434]	4258	[5597, 17]	6306	[7132, 6798]
163	[322, 323]	2211	[3524, 3525]	4259	[4008, 1479]	6307	[7133, 4867]
164	[324, 117]	2212	[3526, 3527]	4260	[5598, 1481]	6308	[4772, 4923]
165	[325, 326]	2213	[389, 16]	4261	[5599, 3523]	6309	[2559, 1688]
166	[327, 328]	2214	[3528, 3529]	4262	[5600, 272]	6310	[2477, 4721]
167	[329, 330]	2215	[1309, 3032]	4263	[1569, 3571]	6311	[6884, 6904]
168	[331, 332]	2216	[3530, 3531]	4264	[5601, 3959]	6312	[7134, 4723]
169	[333, 334]	2217	[3532, 3527]	4265	[3345, 5602]	6313	[42, 652]
170	[335, 336]	2218	[3533, 3534]	4266	[5603, 5604]	6314	[914, 4770]
171	[337, 338]	2219	[3535, 3536]	4267	[5605, 3104]	6315	[6974, 515]
172	[339, 340]	2220	[334, 3537]	4268	[5606, 3404]	6316	[7135, 2536]
173	[341, 342]	2221	[3538, 2891]	4269	[3732, 5607]	6317	[7136, 897]
174	[343, 344]	2222	[3539, 1012]	4270	[3273, 5608]	6318	[7137, 4455]
175	[345, 346]	2223	[3540, 1448]	4271	[5609, 1074]	6319	[4160, 1897]
176	[347, 348]	2224	[3541, 475]	4272	[3230, 5610]	6320	[7138, 4188]
177	[66, 349]	2225	[3542, 1102]	4273	[5611, 383]	6321	[5209, 2474]
178	[350, 351]	2226	[3543, 3544]	4274	[5612, 5613]	6322	[7139, 4321]
179	[352, 353]	2227	[3545, 2853]	4275	[24, 3186]	6323	[1964, 554]
180	[354, 355]	2228	[3318, 3546]	4276	[5614, 76]	6324	[533, 4934]
181	[356, 357]	2229	[3547, 1231]	4277	[5615, 3691]	6325	[7140, 2146]
182	[358, 359]	2230	[28, 3126]	4278	[947, 5616]	6326	[7141, 2620]
183	[360, 361]	2231	[3069, 3548]	4279	[5617, 5618]	6327	[7142, 797]
184	[362, 363]	2232	[3549, 1570]	4280	[1421, 19]	6328	[7143, 2219]
185	[364, 365]	2233	[3550, 1305]	4281	[5619, 5620]	6329	[7096, 2114]

186	[366, 367]	2234	[3551, 3552]	4282	[5621, 3723]	6330	[7144, 528]
187	[368, 276]	2235	[3553, 3554]	4283	[5622, 3562]	6331	[7145, 5394]
188	[369, 370]	2236	[3129, 3555]	4284	[5623, 1359]	6332	[5161, 4764]
189	[371, 372]	2237	[3556, 986]	4285	[5624, 3548]	6333	[7146, 7147]
190	[373, 323]	2238	[3557, 1308]	4286	[5625, 1523]	6334	[7148, 2663]
191	[374, 375]	2239	[3558, 3490]	4287	[5626, 1655]	6335	[7149, 4281]
192	[376, 377]	2240	[3559, 1579]	4288	[3281, 1008]	6336	[541, 4633]
193	[378, 379]	2241	[3560, 3016]	4289	[5510, 430]	6337	[7150, 2517]
194	[380, 381]	2242	[3116, 1476]	4290	[3850, 3995]	6338	[5340, 5182]
195	[382, 383]	2243	[3561, 3562]	4291	[5524, 1114]	6339	[4262, 5189]
196	[384, 385]	2244	[1206, 1317]	4292	[5627, 3797]	6340	[7151, 7000]
197	[386, 387]	2245	[3563, 1630]	4293	[5542, 3757]	6341	[7068, 7152]
198	[388, 389]	2246	[1463, 2977]	4294	[5628, 947]	6342	[2332, 1870]
199	[390, 391]	2247	[3564, 2969]	4295	[5629, 1495]	6343	[2271, 4472]
200	[112, 392]	2248	[3565, 2996]	4296	[3433, 376]	6344	[624, 6783]
201	[393, 394]	2249	[3566, 3567]	4297	[5630, 1147]	6345	[158, 199]
202	[395, 396]	2250	[3272, 3568]	4298	[1502, 3700]	6346	[495, 2089]
203	[397, 322]	2251	[3569, 272]	4299	[5631, 3854]	6347	[7153, 6854]
204	[398, 399]	2252	[3570, 1211]	4300	[5632, 1284]	6348	[1777, 4701]
205	[400, 4]	2253	[3571, 3572]	4301	[5633, 1041]	6349	[5354, 544]
206	[401, 402]	2254	[3573, 1097]	4302	[5634, 5604]	6350	[4371, 635]
207	[403, 404]	2255	[3574, 3575]	4303	[5635, 5636]	6351	[7154, 692]
208	[405, 406]	2256	[3576, 3441]	4304	[5637, 5638]	6352	[7155, 128]
209	[407, 408]	2257	[3577, 3578]	4305	[5639, 1678]	6353	[7156, 5136]
210	[409, 410]	2258	[3579, 1186]	4306	[5640, 3118]	6354	[7157, 2185]
211	[411, 412]	2259	[3580, 3581]	4307	[5641, 1004]	6355	[1735, 6891]
212	[413, 414]	2260	[126, 3582]	4308	[465, 1016]	6356	[2686, 7158]
213	[415, 416]	2261	[3583, 1376]	4309	[5642, 5643]	6357	[7159, 6728]
214	[417, 418]	2262	[3584, 3585]	4310	[5644, 1318]	6358	[178, 6816]
215	[419, 420]	2263	[3586, 3416]	4311	[5645, 359]	6359	[2158, 1935]
216	[421, 422]	2264	[3587, 3588]	4312	[1346, 5644]	6360	[5206, 4875]
217	[423, 424]	2265	[3135, 3156]	4313	[4103, 4092]	6361	[7160, 507]
218	[425, 426]	2266	[3589, 2918]	4314	[5646, 2879]	6362	[562, 4781]
219	[427, 428]	2267	[3590, 376]	4315	[5647, 3225]	6363	[4964, 4454]
220	[22, 429]	2268	[2810, 1491]	4316	[5530, 3495]	6364	[4621, 2517]
221	[430, 431]	2269	[3591, 3592]	4317	[2850, 5648]	6365	[7161, 541]
222	[432, 433]	2270	[3593, 1188]	4318	[2851, 3120]	6366	[4600, 4257]
223	[434, 435]	2271	[3472, 3034]	4319	[5649, 3026]	6367	[7162, 643]
224	[436, 73]	2272	[3594, 1311]	4320	[5650, 5651]	6368	[7163, 2335]
225	[437, 350]	2273	[3329, 3595]	4321	[5652, 3889]	6369	[2339, 5126]
226	[438, 439]	2274	[3596, 3597]	4322	[5653, 5654]	6370	[7164, 2494]
227	[440, 441]	2275	[414, 2889]	4323	[3400, 5655]	6371	[7165, 6749]
228	[442, 443]	2276	[3598, 3599]	4324	[5656, 4002]	6372	[7166, 4869]
229	[444, 445]	2277	[286, 3373]	4325	[5657, 3850]	6373	[7167, 5165]

230	[446, 447]	2278	[3600, 3601]	4326	[5658, 5659]	6374	[2516, 4167]
231	[448, 449]	2279	[3602, 89]	4327	[5660, 5661]	6375	[4539, 6570]
232	[450, 451]	2280	[995, 3603]	4328	[1512, 4124]	6376	[5108, 1808]
233	[452, 453]	2281	[3604, 3605]	4329	[5662, 4020]	6377	[7168, 2291]
234	[454, 455]	2282	[261, 3038]	4330	[3531, 258]	6378	[7169, 6915]
235	[456, 457]	2283	[3156, 3606]	4331	[2875, 5663]	6379	[2587, 1966]
236	[458, 459]	2284	[970, 3607]	4332	[1061, 5664]	6380	[7170, 7171]
237	[460, 461]	2285	[3608, 1648]	4333	[5665, 3543]	6381	[7172, 1811]
238	[462, 463]	2286	[3534, 3609]	4334	[3603, 3651]	6382	[7173, 6743]
239	[464, 465]	2287	[3610, 3611]	4335	[3790, 2992]	6383	[2357, 5320]
240	[466, 467]	2288	[1130, 3612]	4336	[5666, 3580]	6384	[7174, 2775]
241	[468, 469]	2289	[3613, 3614]	4337	[3268, 5667]	6385	[7175, 4472]
242	[470, 471]	2290	[3615, 3616]	4338	[5668, 2898]	6386	[793, 5003]
243	[472, 473]	2291	[3617, 3006]	4339	[5669, 5670]	6387	[7176, 2386]
244	[474, 475]	2292	[1311, 3008]	4340	[5671, 1593]	6388	[7177, 4376]
245	[476, 477]	2293	[3408, 3189]	4341	[1015, 325]	6389	[774, 5374]
246	[478, 479]	2294	[2960, 1169]	4342	[5672, 327]	6390	[4694, 866]
247	[480, 481]	2295	[3618, 1107]	4343	[3394, 324]	6391	[2080, 4538]
248	[482, 483]	2296	[3219, 3619]	4344	[3990, 5673]	6392	[7178, 2399]
249	[484, 485]	2297	[1164, 3620]	4345	[5674, 3722]	6393	[7179, 1749]
250	[486, 487]	2298	[3621, 3622]	4346	[5675, 125]	6394	[5261, 6992]
251	[488, 489]	2299	[3623, 1168]	4347	[5676, 5509]	6395	[5074, 5210]
252	[490, 491]	2300	[3624, 3625]	4348	[5677, 5678]	6396	[7180, 4348]
253	[492, 493]	2301	[3626, 1039]	4349	[5679, 3768]	6397	[7181, 2036]
254	[494, 495]	2302	[3627, 1041]	4350	[5680, 5681]	6398	[4728, 4689]
255	[496, 497]	2303	[1301, 3628]	4351	[96, 1443]	6399	[4657, 518]
256	[498, 499]	2304	[3629, 3630]	4352	[106, 3067]	6400	[786, 2295]
257	[500, 501]	2305	[3631, 3632]	4353	[5682, 2920]	6401	[7182, 4832]
258	[502, 503]	2306	[1147, 3550]	4354	[5683, 5684]	6402	[4709, 2616]
259	[504, 505]	2307	[3633, 3634]	4355	[5685, 3431]	6403	[2207, 7183]
260	[506, 507]	2308	[3635, 1214]	4356	[5686, 5606]	6404	[7184, 5003]
261	[508, 509]	2309	[3636, 1128]	4357	[5687, 5688]	6405	[7185, 130]
262	[510, 511]	2310	[3637, 3638]	4358	[70, 1605]	6406	[7186, 6884]
263	[512, 513]	2311	[3639, 3640]	4359	[5689, 5565]	6407	[4905, 184]
264	[514, 515]	2312	[1437, 1428]	4360	[3289, 3300]	6408	[4377, 6713]
265	[516, 517]	2313	[3641, 3204]	4361	[3861, 4023]	6409	[4252, 4391]
266	[518, 519]	2314	[3249, 3642]	4362	[3194, 5690]	6410	[7187, 6554]
267	[520, 521]	2315	[3643, 3201]	4363	[5691, 2983]	6411	[7188, 4349]
268	[522, 523]	2316	[1028, 3644]	4364	[2813, 278]	6412	[4196, 5314]
269	[524, 525]	2317	[3645, 1209]	4365	[5692, 4151]	6413	[7189, 2369]
270	[526, 527]	2318	[1639, 3646]	4366	[5693, 1009]	6414	[7190, 4253]
271	[528, 529]	2319	[3647, 3648]	4367	[5694, 2832]	6415	[7191, 6779]
272	[530, 531]	2320	[3649, 3650]	4368	[5695, 3186]	6416	[7192, 5417]
273	[532, 533]	2321	[3651, 1313]	4369	[5696, 3297]	6417	[7193, 6688]

274	[534, 535]	2322	[3652, 3136]	4370	[3866, 4137]	6418	[5417, 6871]
275	[536, 537]	2323	[3653, 3654]	4371	[5697, 1314]	6419	[7194, 1860]
276	[538, 539]	2324	[3655, 399]	4372	[5698, 455]	6420	[6622, 5165]
277	[540, 541]	2325	[3656, 3657]	4373	[4051, 4147]	6421	[7195, 247]
278	[542, 543]	2326	[3658, 3659]	4374	[5517, 965]	6422	[1880, 5443]
279	[544, 545]	2327	[3660, 3661]	4375	[5699, 478]	6423	[7006, 7155]
280	[546, 547]	2328	[3662, 3663]	4376	[5700, 3211]	6424	[7196, 2675]
281	[548, 549]	2329	[3664, 3665]	4377	[3668, 3843]	6425	[7197, 5106]
282	[550, 551]	2330	[3666, 3028]	4378	[3536, 5701]	6426	[2438, 2755]
283	[552, 553]	2331	[3667, 3668]	4379	[5702, 3109]	6427	[7198, 4470]
284	[554, 243]	2332	[3669, 1606]	4380	[5703, 5704]	6428	[7199, 666]
285	[555, 556]	2333	[3670, 467]	4381	[5705, 5706]	6429	[7200, 4840]
286	[557, 558]	2334	[2940, 3671]	4382	[5707, 3713]	6430	[4363, 4197]
287	[559, 560]	2335	[3672, 3667]	4383	[5708, 1042]	6431	[7201, 129]
288	[561, 562]	2336	[1587, 1132]	4384	[5709, 5710]	6432	[7202, 4992]
289	[563, 564]	2337	[3022, 3673]	4385	[1518, 5528]	6433	[7203, 4724]
290	[565, 566]	2338	[3674, 3675]	4386	[280, 3659]	6434	[7204, 1798]
291	[567, 568]	2339	[3676, 3530]	4387	[5711, 5712]	6435	[7205, 1708]
292	[569, 62]	2340	[3677, 2909]	4388	[1672, 4078]	6436	[7206, 2382]
293	[570, 571]	2341	[3678, 3679]	4389	[2965, 5713]	6437	[7158, 4750]
294	[572, 573]	2342	[3680, 932]	4390	[5577, 5714]	6438	[5182, 6621]
295	[574, 575]	2343	[3681, 3242]	4391	[5715, 5716]	6439	[164, 5247]
296	[576, 577]	2344	[3682, 3683]	4392	[1597, 974]	6440	[1714, 647]
297	[578, 579]	2345	[3684, 3685]	4393	[5717, 5718]	6441	[7207, 1720]
298	[580, 581]	2346	[3686, 1011]	4394	[5719, 5720]	6442	[2738, 673]
299	[582, 509]	2347	[3687, 1000]	4395	[5721, 336]	6443	[4628, 6989]
300	[583, 521]	2348	[3659, 3688]	4396	[1250, 5501]	6444	[7208, 2649]
301	[584, 585]	2349	[1214, 3611]	4397	[5722, 3324]	6445	[5359, 2269]
302	[586, 587]	2350	[3689, 3690]	4398	[3740, 3529]	6446	[4339, 805]
303	[588, 589]	2351	[3691, 3692]	4399	[5723, 3148]	6447	[2715, 862]
304	[590, 591]	2352	[3693, 3694]	4400	[5724, 5725]	6448	[5121, 4618]
305	[592, 593]	2353	[3695, 3696]	4401	[5726, 3344]	6449	[7209, 4754]
306	[594, 595]	2354	[3697, 3698]	4402	[5727, 3293]	6450	[7210, 2380]
307	[596, 597]	2355	[3699, 3700]	4403	[1255, 1004]	6451	[7211, 6963]
308	[598, 599]	2356	[3701, 3702]	4404	[5728, 1109]	6452	[7212, 7213]
309	[600, 601]	2357	[3703, 1546]	4405	[5729, 1433]	6453	[2484, 4260]
310	[602, 603]	2358	[3704, 3705]	4406	[5730, 368]	6454	[7214, 4510]
311	[604, 605]	2359	[3620, 3657]	4407	[5731, 443]	6455	[2220, 4378]
312	[606, 607]	2360	[3706, 3624]	4408	[4026, 3789]	6456	[803, 6968]
313	[608, 609]	2361	[3673, 3707]	4409	[5732, 1533]	6457	[7215, 4255]
314	[610, 611]	2362	[3708, 270]	4410	[5733, 324]	6458	[7216, 4539]
315	[612, 613]	2363	[2972, 2932]	4411	[1145, 1106]	6459	[7217, 4500]
316	[614, 615]	2364	[1589, 3709]	4412	[5734, 90]	6460	[6836, 1760]
317	[616, 617]	2365	[3710, 3711]	4413	[5735, 1306]	6461	[7218, 4818]

318	[618, 45]	2366	[3712, 1469]	4414	[5736, 5667]	6462	[7219, 5089]
319	[619, 620]	2367	[3661, 2874]	4415	[2933, 416]	6463	[7220, 6916]
320	[621, 622]	2368	[3713, 3714]	4416	[5737, 395]	6464	[6760, 5348]
321	[623, 624]	2369	[3715, 3716]	4417	[5738, 5739]	6465	[7221, 4249]
322	[625, 626]	2370	[3717, 2874]	4418	[5740, 74]	6466	[7222, 4381]
323	[627, 628]	2371	[3718, 3719]	4419	[1516, 3597]	6467	[6639, 7068]
324	[629, 235]	2372	[3720, 3721]	4420	[5741, 3669]	6468	[7223, 7046]
325	[630, 631]	2373	[3722, 3723]	4421	[5742, 3569]	6469	[7224, 6570]
326	[632, 633]	2374	[3724, 1613]	4422	[5638, 1060]	6470	[7225, 2546]
327	[634, 143]	2375	[3725, 3726]	4423	[5743, 300]	6471	[7226, 4967]
328	[635, 636]	2376	[3727, 1582]	4424	[3037, 411]	6472	[2545, 2536]
329	[637, 638]	2377	[3728, 3729]	4425	[5744, 5701]	6473	[7227, 4692]
330	[639, 640]	2378	[3730, 1389]	4426	[5745, 5746]	6474	[7228, 2521]
331	[641, 642]	2379	[3731, 3732]	4427	[5747, 3607]	6475	[7069, 1773]
332	[643, 644]	2380	[1303, 3733]	4428	[311, 4109]	6476	[7229, 5472]
333	[645, 646]	2381	[989, 3734]	4429	[5748, 4110]	6477	[7230, 4207]
334	[647, 648]	2382	[3735, 1237]	4430	[2976, 3416]	6478	[7231, 4908]
335	[649, 609]	2383	[3736, 398]	4431	[5749, 1344]	6479	[7232, 1839]
336	[650, 651]	2384	[3737, 3738]	4432	[5750, 1669]	6480	[7147, 1969]
337	[652, 653]	2385	[3739, 3740]	4433	[4070, 458]	6481	[7233, 7234]
338	[654, 655]	2386	[3741, 3742]	4434	[5751, 3746]	6482	[7235, 5486]
339	[656, 657]	2387	[3743, 370]	4435	[5746, 3847]	6483	[230, 4808]
340	[658, 659]	2388	[3744, 1171]	4436	[5752, 3800]	6484	[4358, 1956]
341	[660, 661]	2389	[3745, 1278]	4437	[5753, 5754]	6485	[5316, 2579]
342	[662, 663]	2390	[3746, 3747]	4438	[3049, 3697]	6486	[7236, 1840]
343	[664, 665]	2391	[3748, 1003]	4439	[5755, 5756]	6487	[7101, 5428]
344	[666, 667]	2392	[3749, 3750]	4440	[5681, 5554]	6488	[2189, 2046]
345	[668, 669]	2393	[3751, 1200]	4441	[5757, 5758]	6489	[7237, 1827]
346	[670, 671]	2394	[1001, 3752]	4442	[5759, 1523]	6490	[4298, 1938]
347	[672, 673]	2395	[3753, 1250]	4443	[5760, 3501]	6491	[7238, 6621]
348	[674, 675]	2396	[3754, 3755]	4444	[5761, 3443]	6492	[7239, 889]
349	[676, 677]	2397	[3756, 3260]	4445	[5762, 1239]	6493	[5037, 5298]
350	[678, 679]	2398	[3757, 3758]	4446	[5763, 5764]	6494	[2379, 7240]
351	[680, 681]	2399	[3759, 2939]	4447	[5765, 3839]	6495	[7241, 5407]
352	[682, 683]	2400	[3760, 3706]	4448	[2953, 5766]	6496	[4565, 2258]
353	[673, 684]	2401	[3761, 3762]	4449	[5767, 1677]	6497	[7242, 633]
354	[685, 686]	2402	[1330, 1102]	4450	[5768, 1050]	6498	[824, 6867]
355	[687, 688]	2403	[3763, 3764]	4451	[5710, 2835]	6499	[7243, 4601]
356	[689, 690]	2404	[3765, 3766]	4452	[5769, 3377]	6500	[1762, 4353]
357	[691, 692]	2405	[3767, 1260]	4453	[5770, 3531]	6501	[7244, 2688]
358	[693, 694]	2406	[3642, 3768]	4454	[5771, 3331]	6502	[7245, 2553]
359	[695, 696]	2407	[3769, 341]	4455	[5772, 4102]	6503	[5435, 4679]
360	[697, 698]	2408	[3770, 3106]	4456	[5773, 4005]	6504	[7246, 4871]
361	[699, 700]	2409	[3700, 3289]	4457	[3183, 5531]	6505	[238, 4768]

362	[701, 702]	2410	[3771, 86]	4458	[5720, 4085]	6506	[5179, 6616]
363	[703, 704]	2411	[3622, 3772]	4459	[5774, 3063]	6507	[2246, 7247]
364	[648, 705]	2412	[3773, 3774]	4460	[5775, 5776]	6508	[7248, 740]
365	[706, 707]	2413	[3529, 1054]	4461	[5777, 412]	6509	[7249, 2357]
366	[708, 709]	2414	[2997, 3021]	4462	[1432, 5778]	6510	[7250, 5317]
367	[710, 181]	2415	[3775, 3259]	4463	[5779, 5549]	6511	[7251, 1825]
368	[711, 540]	2416	[3776, 1151]	4464	[5780, 3356]	6512	[7252, 771]
369	[712, 713]	2417	[3777, 3778]	4465	[5781, 3685]	6513	[7183, 6845]
370	[714, 715]	2418	[3779, 1567]	4466	[5782, 2963]	6514	[6631, 4848]
371	[716, 691]	2419	[1278, 3780]	4467	[5783, 3917]	6515	[784, 1786]
372	[717, 718]	2420	[3781, 3247]	4468	[1648, 3410]	6516	[6990, 4349]
373	[719, 720]	2421	[402, 3340]	4469	[5784, 5778]	6517	[52, 7234]
374	[721, 205]	2422	[3782, 3783]	4470	[5785, 1450]	6518	[4896, 4910]
375	[722, 723]	2423	[3784, 3179]	4471	[3947, 3552]	6519	[7253, 1887]
376	[724, 725]	2424	[3785, 3786]	4472	[5786, 5787]	6520	[7254, 202]
377	[726, 727]	2425	[3787, 3788]	4473	[5788, 5789]	6521	[228, 5366]
378	[728, 729]	2426	[3578, 470]	4474	[5790, 1277]	6522	[7255, 1936]
379	[730, 731]	2427	[3789, 3790]	4475	[1222, 4018]	6523	[4392, 4985]
380	[732, 733]	2428	[3791, 3792]	4476	[5791, 5792]	6524	[7256, 6814]
381	[734, 735]	2429	[3793, 1671]	4477	[5793, 3810]	6525	[7257, 7258]
382	[736, 737]	2430	[3794, 3229]	4478	[5794, 3895]	6526	[7259, 2155]
383	[738, 739]	2431	[1603, 1547]	4479	[5795, 2995]	6527	[7260, 5062]
384	[740, 741]	2432	[307, 3483]	4480	[5796, 5587]	6528	[7261, 2779]
385	[742, 743]	2433	[3795, 3162]	4481	[1644, 442]	6529	[6953, 4974]
386	[744, 745]	2434	[3796, 1406]	4482	[5797, 3721]	6530	[7262, 183]
387	[746, 747]	2435	[3797, 3798]	4483	[5798, 5799]	6531	[7263, 2736]
388	[748, 749]	2436	[3799, 3800]	4484	[5800, 1647]	6532	[2465, 2572]
389	[750, 751]	2437	[3801, 3444]	4485	[5801, 3233]	6533	[7264, 4670]
390	[752, 753]	2438	[2873, 3802]	4486	[5802, 5673]	6534	[7265, 7132]
391	[754, 755]	2439	[3803, 297]	4487	[5803, 331]	6535	[7266, 4300]
392	[756, 597]	2440	[3804, 3674]	4488	[5804, 5805]	6536	[7267, 6673]
393	[757, 758]	2441	[3805, 2897]	4489	[5806, 2823]	6537	[7268, 4473]
394	[759, 760]	2442	[3806, 1295]	4490	[5807, 3740]	6538	[7269, 2744]
395	[761, 762]	2443	[3217, 1382]	4491	[5808, 5809]	6539	[6916, 6810]
396	[763, 764]	2444	[3807, 3808]	4492	[5810, 3262]	6540	[7270, 2616]
397	[765, 627]	2445	[3809, 3676]	4493	[1520, 4063]	6541	[2841, 1105]
398	[766, 767]	2446	[3810, 3811]	4494	[5811, 1354]	6542	[7271, 5602]
399	[768, 769]	2447	[3812, 1343]	4495	[5812, 3819]	6543	[3488, 6096]
400	[770, 771]	2448	[1631, 339]	4496	[5813, 3573]	6544	[3605, 1662]
401	[733, 772]	2449	[3813, 3239]	4497	[92, 3055]	6545	[943, 1239]
402	[773, 774]	2450	[3814, 2825]	4498	[475, 1234]	6546	[7272, 1451]
403	[775, 776]	2451	[2870, 1431]	4499	[461, 3175]	6547	[3383, 7273]
404	[777, 778]	2452	[3815, 3689]	4500	[5814, 1477]	6548	[7274, 6359]
405	[779, 780]	2453	[3816, 3817]	4501	[5815, 4050]	6549	[7275, 3353]

406	[781, 782]	2454	[3818, 3819]	4502	[1674, 1256]	6550	[7276, 3321]
407	[783, 784]	2455	[3820, 3821]	4503	[473, 3377]	6551	[6252, 3450]
408	[785, 786]	2456	[3696, 3818]	4504	[1539, 2822]	6552	[7277, 2856]
409	[787, 788]	2457	[3822, 3695]	4505	[5816, 4015]	6553	[7278, 5663]
410	[789, 663]	2458	[3313, 3823]	4506	[1194, 449]	6554	[7279, 5528]
411	[790, 791]	2459	[3824, 3639]	4507	[3786, 5586]	6555	[7280, 1148]
412	[792, 793]	2460	[3506, 3825]	4508	[3611, 4152]	6556	[7281, 3815]
413	[794, 795]	2461	[3640, 1430]	4509	[439, 1521]	6557	[5613, 2883]
414	[796, 797]	2462	[3826, 1435]	4510	[5817, 3386]	6558	[7282, 3096]
415	[798, 702]	2463	[3827, 1436]	4511	[1487, 3912]	6559	[3876, 2981]
416	[799, 800]	2464	[2793, 1409]	4512	[5818, 3476]	6560	[4141, 2828]
417	[801, 49]	2465	[3828, 465]	4513	[1480, 5819]	6561	[3981, 3096]
418	[802, 803]	2466	[3829, 1114]	4514	[2947, 3493]	6562	[3353, 3296]
419	[804, 805]	2467	[2901, 1468]	4515	[5820, 3560]	6563	[1362, 5939]
420	[806, 807]	2468	[3830, 99]	4516	[5821, 5658]	6564	[7283, 7284]
421	[808, 809]	2469	[3831, 3208]	4517	[3869, 1100]	6565	[7285, 6327]
422	[810, 811]	2470	[3144, 125]	4518	[5822, 3753]	6566	[7286, 5714]
423	[812, 813]	2471	[323, 3832]	4519	[5823, 2969]	6567	[7287, 5544]
424	[814, 815]	2472	[3833, 3834]	4520	[3054, 5824]	6568	[3890, 6029]
425	[816, 817]	2473	[3665, 3835]	4521	[5825, 3240]	6569	[7288, 1234]
426	[818, 819]	2474	[3836, 1578]	4522	[5826, 1118]	6570	[7289, 5880]
427	[820, 821]	2475	[3837, 3838]	4523	[5827, 5828]	6571	[2993, 3457]
428	[822, 648]	2476	[3839, 3742]	4524	[5829, 94]	6572	[7290, 3379]
429	[44, 823]	2477	[3840, 385]	4525	[3026, 5830]	6573	[7291, 1298]
430	[767, 824]	2478	[3841, 3842]	4526	[5831, 1424]	6574	[3702, 3508]
431	[825, 651]	2479	[3843, 3844]	4527	[5832, 3609]	6575	[74, 1543]
432	[826, 827]	2480	[3845, 3526]	4528	[5833, 1565]	6576	[5714, 3242]
433	[828, 829]	2481	[3100, 3726]	4529	[4145, 1636]	6577	[1188, 6486]
434	[830, 831]	2482	[3060, 3846]	4530	[1276, 5834]	6578	[3788, 3311]
435	[832, 833]	2483	[975, 1440]	4531	[5835, 1410]	6579	[1494, 1654]
436	[834, 835]	2484	[3847, 3258]	4532	[5836, 1501]	6580	[4122, 3769]
437	[805, 680]	2485	[3848, 430]	4533	[5837, 332]	6581	[1406, 6091]
438	[836, 837]	2486	[3849, 3850]	4534	[5838, 1492]	6582	[7292, 1220]
439	[838, 839]	2487	[2859, 1018]	4535	[319, 5839]	6583	[3358, 2846]
440	[840, 841]	2488	[3851, 3852]	4536	[5840, 4052]	6584	[3663, 986]
441	[842, 806]	2489	[3853, 2985]	4537	[5841, 3091]	6585	[4041, 1288]
442	[843, 844]	2490	[3854, 3855]	4538	[5842, 5843]	6586	[7293, 3350]
443	[845, 846]	2491	[3856, 3857]	4539	[2922, 5844]	6587	[7294, 3993]
444	[847, 848]	2492	[3858, 1391]	4540	[2806, 2962]	6588	[1449, 2792]
445	[849, 850]	2493	[1285, 3469]	4541	[5582, 1640]	6589	[5602, 6492]
446	[851, 852]	2494	[3859, 3860]	4542	[5845, 1319]	6590	[7295, 4105]
447	[853, 854]	2495	[3401, 3861]	4543	[5846, 3684]	6591	[5948, 1450]
448	[855, 856]	2496	[3103, 3862]	4544	[5847, 3739]	6592	[7296, 3544]
449	[857, 858]	2497	[3863, 3864]	4545	[5848, 5849]	6593	[3244, 3593]

450	[859, 214]	2498	[2907, 3430]	4546	[5850, 289]	6594	[3255, 7297]
451	[860, 861]	2499	[3865, 3866]	4547	[5851, 1123]	6595	[7298, 3094]
452	[862, 863]	2500	[3867, 3868]	4548	[481, 5611]	6596	[7299, 1053]
453	[864, 173]	2501	[3097, 3869]	4549	[5852, 1396]	6597	[7300, 3835]
454	[865, 866]	2502	[392, 265]	4550	[5853, 2902]	6598	[5985, 106]
455	[867, 868]	2503	[3870, 1402]	4551	[1348, 1263]	6599	[7301, 4142]
456	[869, 870]	2504	[3871, 3232]	4552	[5854, 5613]	6600	[336, 5686]
457	[871, 872]	2505	[3872, 3368]	4553	[5855, 3814]	6601	[3303, 1621]
458	[873, 874]	2506	[1633, 3873]	4554	[4112, 5636]	6602	[7302, 3757]
459	[875, 876]	2507	[3874, 1288]	4555	[5856, 1091]	6603	[7303, 313]
460	[877, 878]	2508	[3875, 3876]	4556	[1356, 5857]	6604	[7304, 3568]
461	[879, 880]	2509	[3599, 21]	4557	[5858, 3871]	6605	[7305, 1652]
462	[881, 882]	2510	[2860, 3877]	4558	[463, 5859]	6606	[5921, 3845]
463	[883, 810]	2511	[2862, 3878]	4559	[5860, 1447]	6607	[7306, 3952]
464	[884, 885]	2512	[394, 3879]	4560	[5861, 5862]	6608	[2824, 3513]
465	[886, 887]	2513	[3723, 3795]	4561	[5863, 1013]	6609	[7307, 3937]
466	[888, 889]	2514	[3880, 1060]	4562	[5864, 5865]	6610	[4078, 3887]
467	[890, 891]	2515	[3881, 470]	4563	[5866, 456]	6611	[7308, 1411]
468	[892, 893]	2516	[3628, 3882]	4564	[5867, 1070]	6612	[7309, 1051]
469	[894, 895]	2517	[3883, 3884]	4565	[2914, 3917]	6613	[7310, 1647]
470	[505, 896]	2518	[2980, 3842]	4566	[3860, 3348]	6614	[3581, 1030]
471	[897, 755]	2519	[3885, 1067]	4567	[5868, 3190]	6615	[7311, 3571]
472	[898, 899]	2520	[3886, 3887]	4568	[5869, 5870]	6616	[7312, 1435]
473	[900, 901]	2521	[3888, 2836]	4569	[5843, 1595]	6617	[7313, 259]
474	[902, 903]	2522	[3889, 3890]	4570	[5871, 3987]	6618	[7314, 3419]
475	[904, 905]	2523	[3891, 3892]	4571	[5872, 3212]	6619	[7315, 3996]
476	[906, 203]	2524	[3893, 945]	4572	[1026, 1573]	6620	[5844, 2975]
477	[907, 908]	2525	[1005, 3894]	4573	[5873, 3674]	6621	[7316, 4040]
478	[909, 910]	2526	[3895, 3177]	4574	[1190, 3743]	6622	[5942, 5684]
479	[911, 912]	2527	[3896, 1023]	4575	[5874, 3631]	6623	[7317, 1377]
480	[913, 914]	2528	[3029, 2954]	4576	[5875, 317]	6624	[7318, 1207]
481	[915, 916]	2529	[1375, 1602]	4577	[3940, 1497]	6625	[7319, 3478]
482	[917, 918]	2530	[3734, 2929]	4578	[5876, 1458]	6626	[7320, 6511]
483	[919, 920]	2531	[396, 3197]	4579	[5570, 5877]	6627	[7321, 408]
484	[921, 922]	2532	[3897, 3546]	4580	[5878, 937]	6628	[7322, 3452]
485	[923, 924]	2533	[3898, 1246]	4581	[2866, 5879]	6629	[3996, 1507]
486	[925, 926]	2534	[3899, 3900]	4582	[5880, 5881]	6630	[5534, 3909]
487	[927, 928]	2535	[1280, 3185]	4583	[5882, 1651]	6631	[7323, 5811]
488	[929, 930]	2536	[3901, 113]	4584	[5883, 1399]	6632	[1202, 5948]
489	[931, 659]	2537	[3902, 438]	4585	[945, 1081]	6633	[7324, 3938]
490	[932, 26]	2538	[1455, 3903]	4586	[5884, 1026]	6634	[7325, 3846]
491	[933, 934]	2539	[3904, 1368]	4587	[5885, 5759]	6635	[6511, 5534]
492	[935, 67]	2540	[3482, 1154]	4588	[5886, 3935]	6636	[5907, 99]
493	[936, 937]	2541	[3905, 3906]	4589	[5887, 5545]	6637	[1670, 1456]

494	[938, 939]	2542	[3907, 1383]	4590	[26, 5888]	6638	[7326, 1324]
495	[940, 941]	2543	[3908, 3909]	4591	[1177, 3569]	6639	[7327, 6289]
496	[942, 943]	2544	[1390, 3910]	4592	[5889, 3662]	6640	[7328, 4152]
497	[944, 945]	2545	[3911, 3912]	4593	[5890, 3664]	6641	[7329, 3822]
498	[946, 947]	2546	[3913, 3914]	4594	[3568, 1387]	6642	[3192, 75]
499	[948, 949]	2547	[3200, 3267]	4595	[4098, 5891]	6643	[7330, 2804]
500	[950, 951]	2548	[3915, 3317]	4596	[5892, 1614]	6644	[7331, 6048]
501	[952, 953]	2549	[1075, 995]	4597	[5893, 1255]	6645	[5809, 4080]
502	[954, 955]	2550	[346, 3916]	4598	[5894, 1482]	6646	[7332, 3475]
503	[277, 956]	2551	[3917, 3720]	4599	[5895, 298]	6647	[372, 6272]
504	[957, 958]	2552	[3918, 3919]	4600	[2884, 5896]	6648	[1424, 2906]
505	[959, 960]	2553	[3920, 1046]	4601	[5897, 5898]	6649	[4144, 120]
506	[961, 962]	2554	[3921, 3053]	4602	[1514, 96]	6650	[7333, 21]
507	[963, 964]	2555	[3922, 3734]	4603	[5899, 5900]	6651	[1473, 999]
508	[965, 966]	2556	[3450, 3368]	4604	[5901, 2887]	6652	[7334, 3707]
509	[967, 968]	2557	[3923, 1256]	4605	[5902, 4098]	6653	[6223, 3140]
510	[969, 970]	2558	[3924, 3925]	4606	[5903, 3391]	6654	[1622, 5504]
511	[971, 486]	2559	[1595, 1391]	4607	[3648, 5904]	6655	[7335, 2821]
512	[972, 973]	2560	[3772, 3926]	4608	[5651, 469]	6656	[3562, 4059]
513	[974, 975]	2561	[3927, 990]	4609	[3419, 1517]	6657	[4024, 1228]
514	[976, 977]	2562	[3928, 3151]	4610	[5905, 5606]	6658	[1159, 3799]
515	[978, 979]	2563	[2944, 1339]	4611	[5906, 5907]	6659	[7336, 3663]
516	[980, 981]	2564	[3929, 1650]	4612	[5908, 3326]	6660	[3311, 2951]
517	[982, 983]	2565	[3930, 3931]	4613	[5909, 80]	6661	[1372, 5761]
518	[984, 985]	2566	[253, 3932]	4614	[5910, 1132]	6662	[7337, 2808]
519	[986, 987]	2567	[3385, 378]	4615	[5911, 5912]	6663	[5563, 1160]
520	[988, 989]	2568	[3933, 2896]	4616	[3381, 5913]	6664	[7338, 6026]
521	[479, 450]	2569	[3934, 2967]	4617	[973, 2939]	6665	[1658, 3210]
522	[990, 991]	2570	[3935, 3936]	4618	[5914, 3206]	6666	[7339, 943]
523	[992, 993]	2571	[3937, 3938]	4619	[2830, 413]	6667	[7340, 1008]
524	[994, 995]	2572	[3939, 3672]	4620	[4093, 4139]	6668	[7341, 1183]
525	[996, 997]	2573	[1614, 3940]	4621	[3993, 5828]	6669	[3158, 3635]
526	[998, 999]	2574	[3941, 1350]	4622	[5915, 1632]	6670	[3862, 67]
527	[1000, 1001]	2575	[3942, 3890]	4623	[5916, 4092]	6671	[7342, 3255]
528	[1002, 1003]	2576	[3943, 1518]	4624	[5917, 3894]	6672	[7343, 3330]
529	[1004, 1005]	2577	[3555, 1074]	4625	[5918, 1526]	6673	[7344, 3708]
530	[1006, 1007]	2578	[3944, 1645]	4626	[5919, 3434]	6674	[7345, 1313]
531	[1008, 1009]	2579	[3945, 3946]	4627	[5920, 5921]	6675	[7346, 3795]
532	[1010, 1011]	2580	[2998, 3947]	4628	[5922, 5923]	6676	[3878, 345]
533	[1012, 1013]	2581	[3024, 3948]	4629	[5924, 5839]	6677	[3149, 3191]
534	[1014, 1015]	2582	[3949, 3950]	4630	[1656, 330]	6678	[3108, 3246]
535	[315, 942]	2583	[1567, 464]	4631	[5925, 3157]	6679	[7347, 384]
536	[1016, 445]	2584	[3951, 3573]	4632	[5926, 3793]	6680	[7348, 3069]
537	[418, 24]	2585	[3952, 85]	4633	[5927, 3278]	6681	[7349, 1218]

538	[1017, 1018]	2586	[3953, 3954]	4634	[5928, 2833]	6682	[7350, 3584]
539	[1019, 1020]	2587	[3415, 438]	4635	[5929, 1428]	6683	[7351, 1309]
540	[340, 1021]	2588	[3955, 3158]	4636	[5930, 5530]	6684	[7352, 3873]
541	[1022, 1023]	2589	[3956, 1270]	4637	[5931, 1423]	6685	[7353, 3621]
542	[1024, 1025]	2590	[2821, 2914]	4638	[3295, 3206]	6686	[7354, 1318]
543	[1011, 1026]	2591	[3957, 1398]	4639	[5932, 1043]	6687	[7355, 5611]
544	[1027, 1028]	2592	[3958, 75]	4640	[5933, 2894]	6688	[7356, 1075]
545	[1029, 1030]	2593	[3959, 77]	4641	[5934, 1392]	6689	[2823, 6063]
546	[1031, 1032]	2594	[3084, 3292]	4642	[5935, 5936]	6690	[7357, 1274]
547	[1033, 1034]	2595	[3960, 429]	4643	[5937, 1167]	6691	[7358, 3207]
548	[1035, 1036]	2596	[120, 3764]	4644	[5938, 5939]	6692	[7359, 5877]
549	[1037, 1038]	2597	[3961, 3871]	4645	[5940, 3078]	6693	[7360, 1368]
550	[1039, 1040]	2598	[3326, 3423]	4646	[5941, 5942]	6694	[7361, 3832]
551	[1041, 298]	2599	[3962, 3963]	4647	[5943, 1348]	6695	[7362, 1240]
552	[1042, 1043]	2600	[3964, 3089]	4648	[5944, 72]	6696	[7363, 1606]
553	[1044, 27]	2601	[3965, 3097]	4649	[5945, 3265]	6697	[7364, 2816]
554	[1045, 474]	2602	[1327, 3077]	4650	[3504, 1163]	6698	[3247, 1363]
555	[1046, 1047]	2603	[3966, 1225]	4651	[5946, 483]	6699	[7365, 439]
556	[1048, 1049]	2604	[1036, 1396]	4652	[387, 3216]	6700	[7366, 3160]
557	[1050, 1051]	2605	[960, 2900]	4653	[1682, 3892]	6701	[7367, 6458]
558	[1052, 1053]	2606	[3119, 3967]	4654	[5947, 5948]	6702	[1332, 5880]
559	[1054, 1055]	2607	[3968, 3616]	4655	[1448, 5949]	6703	[267, 6048]
560	[1056, 1057]	2608	[3969, 2893]	4656	[86, 5522]	6704	[1550, 3750]
561	[1058, 1059]	2609	[3970, 1088]	4657	[3774, 1439]	6705	[7368, 4068]
562	[1060, 1061]	2610	[3597, 1090]	4658	[5950, 3402]	6706	[7369, 1019]
563	[1062, 1063]	2611	[3971, 3786]	4659	[5951, 1600]	6707	[7370, 312]
564	[1064, 1065]	2612	[1582, 3972]	4660	[1148, 3131]	6708	[7371, 3827]
565	[80, 1066]	2613	[3729, 3973]	4661	[5952, 1122]	6709	[5912, 2934]
566	[1067, 1068]	2614	[3974, 3975]	4662	[2846, 3078]	6710	[7372, 6457]
567	[1069, 1070]	2615	[3946, 3669]	4663	[2848, 951]	6711	[7373, 294]
568	[1071, 304]	2616	[3976, 3417]	4664	[3967, 5953]	6712	[3630, 300]
569	[1072, 1073]	2617	[3977, 3622]	4665	[5954, 5955]	6713	[7374, 1632]
570	[1074, 1075]	2618	[3978, 1103]	4666	[5956, 3986]	6714	[6155, 5651]
571	[410, 1076]	2619	[3979, 3143]	4667	[3411, 4100]	6715	[7375, 3032]
572	[1077, 944]	2620	[3980, 3981]	4668	[5957, 2907]	6716	[1571, 7376]
573	[1078, 1079]	2621	[3396, 3982]	4669	[5958, 5959]	6717	[5776, 5524]
574	[1080, 1081]	2622	[3983, 271]	4670	[5960, 3241]	6718	[3842, 1557]
575	[1082, 1083]	2623	[3984, 3985]	4671	[5961, 1666]	6719	[7377, 2940]
576	[1084, 1085]	2624	[433, 2920]	4672	[3508, 5942]	6720	[84, 3797]
577	[1086, 1087]	2625	[3365, 3986]	4673	[5962, 457]	6721	[7378, 3821]
578	[1088, 1089]	2626	[3987, 3988]	4674	[5963, 2803]	6722	[7379, 6191]
579	[1090, 1091]	2627	[3989, 3990]	4675	[5964, 124]	6723	[7380, 2860]
580	[435, 1092]	2628	[3991, 3473]	4676	[5965, 3470]	6724	[7381, 5601]
581	[1093, 1094]	2629	[2946, 3992]	4677	[5966, 5859]	6725	[7382, 3144]

582	[1095, 447]	2630	[2909, 3993]	4678	[5967, 5637]	6726	[7383, 3743]
583	[1096, 1097]	2631	[3679, 3994]	4679	[5968, 5969]	6727	[7384, 1352]
584	[1098, 1099]	2632	[3995, 3996]	4680	[3302, 3985]	6728	[7385, 3683]
585	[1100, 1101]	2633	[3997, 3998]	4681	[5970, 5971]	6729	[1297, 3708]
586	[1102, 1103]	2634	[3864, 3150]	4682	[3098, 1599]	6730	[7386, 3811]
587	[1104, 1105]	2635	[3999, 4000]	4683	[5972, 5973]	6731	[1224, 1618]
588	[1106, 1107]	2636	[4001, 3303]	4684	[5974, 3197]	6732	[7387, 3493]
589	[1108, 1109]	2637	[2995, 4002]	4685	[5975, 3987]	6733	[3954, 6286]
590	[1110, 1111]	2638	[4003, 4004]	4686	[3406, 5900]	6734	[7388, 1254]
591	[941, 1095]	2639	[4005, 310]	4687	[5976, 3515]	6735	[7389, 3844]
592	[1112, 1113]	2640	[3491, 4006]	4688	[1122, 3234]	6736	[5805, 6042]
593	[1114, 1069]	2641	[1322, 3514]	4689	[5977, 3632]	6737	[7390, 2830]
594	[1115, 956]	2642	[4007, 4008]	4690	[5978, 5979]	6738	[7391, 3802]
595	[1116, 1117]	2643	[2905, 424]	4691	[5980, 1503]	6739	[3133, 1506]
596	[428, 1118]	2644	[4009, 4010]	4692	[5981, 2865]	6740	[7392, 5580]
597	[1119, 1120]	2645	[1524, 4011]	4693	[3882, 5982]	6741	[7393, 277]
598	[1121, 1122]	2646	[4012, 2811]	4694	[1003, 5980]	6742	[7394, 6158]
599	[1123, 1124]	2647	[4013, 3060]	4695	[5983, 3916]	6743	[7395, 3715]
600	[1125, 1126]	2648	[4014, 1515]	4696	[5984, 30]	6744	[5888, 7396]
601	[1127, 1128]	2649	[1554, 4015]	4697	[1229, 5985]	6745	[7397, 3285]
602	[1129, 1130]	2650	[3300, 4016]	4698	[1057, 5681]	6746	[404, 3822]
603	[1131, 93]	2651	[3354, 3201]	4699	[5986, 5987]	6747	[7398, 3762]
604	[1132, 1133]	2652	[4017, 4018]	4700	[5988, 3716]	6748	[3094, 327]
605	[1134, 1108]	2653	[4019, 2983]	4701	[5989, 5560]	6749	[7399, 7400]
606	[1135, 1136]	2654	[4020, 3100]	4702	[3151, 2996]	6750	[7401, 4132]
607	[953, 285]	2655	[4021, 1635]	4703	[1495, 949]	6751	[7402, 1227]
608	[1094, 1137]	2656	[4022, 397]	4704	[353, 5580]	6752	[7403, 3845]
609	[1138, 1139]	2657	[4023, 4024]	4705	[5507, 5990]	6753	[7404, 1432]
610	[1140, 1093]	2658	[4025, 4026]	4706	[5991, 1558]	6754	[7405, 392]
611	[1141, 1111]	2659	[3780, 1416]	4707	[3998, 5992]	6755	[3716, 1620]
612	[1142, 1143]	2660	[4027, 4028]	4708	[3039, 1052]	6756	[1143, 3676]
613	[1144, 1145]	2661	[4029, 1072]	4709	[5993, 5949]	6757	[7406, 2841]
614	[1146, 1147]	2662	[4030, 4031]	4710	[3919, 5994]	6758	[6359, 3438]
615	[1085, 1148]	2663	[4032, 1479]	4711	[5995, 436]	6759	[7407, 3654]
616	[1149, 1150]	2664	[3948, 3382]	4712	[5996, 5726]	6760	[7408, 476]
617	[1151, 1152]	2665	[1051, 4033]	4713	[3685, 5997]	6761	[6085, 5792]
618	[1153, 1154]	2666	[4034, 1513]	4714	[5998, 2992]	6762	[7409, 3315]
619	[1155, 1156]	2667	[4035, 4036]	4715	[1170, 1050]	6763	[7410, 5572]
620	[1157, 1158]	2668	[3742, 79]	4716	[5999, 3039]	6764	[1680, 3615]
621	[1109, 1159]	2669	[4037, 4038]	4717	[6000, 1504]	6765	[2935, 3920]
622	[1160, 1161]	2670	[4039, 1037]	4718	[6001, 3418]	6766	[7411, 1101]
623	[269, 1162]	2671	[4040, 4041]	4719	[6002, 1130]	6767	[7412, 5766]
624	[1163, 1164]	2672	[4042, 4041]	4720	[6003, 85]	6768	[7413, 5982]
625	[1165, 1166]	2673	[3595, 3935]	4721	[6004, 5713]	6769	[7414, 1449]

626	[1167, 1168]	2674	[3222, 353]	4722	[3261, 946]	6770	[3324, 4151]
627	[1169, 1170]	2675	[4043, 3761]	4723	[4065, 6005]	6771	[7415, 5864]
628	[1171, 1085]	2676	[370, 3549]	4724	[6006, 6007]	6772	[7416, 6455]
629	[1172, 458]	2677	[3855, 1191]	4725	[3205, 3680]	6773	[7417, 6262]
630	[1173, 1019]	2678	[4044, 4045]	4726	[4031, 3342]	6774	[3389, 3536]
631	[1174, 1175]	2679	[4046, 1192]	4727	[6008, 472]	6775	[7418, 3728]
632	[1176, 1177]	2680	[4047, 3903]	4728	[3936, 3394]	6776	[7419, 1322]
633	[1178, 1179]	2681	[4048, 3101]	4729	[6009, 3169]	6777	[1562, 3211]
634	[361, 1180]	2682	[3650, 4049]	4730	[6010, 1508]	6778	[7420, 3959]
635	[1181, 1182]	2683	[4050, 4051]	4731	[6011, 6012]	6779	[7421, 3720]
636	[1183, 1184]	2684	[3334, 81]	4732	[6013, 3323]	6780	[7422, 1371]
637	[1185, 1186]	2685	[1314, 4052]	4733	[6014, 3823]	6781	[6176, 3731]
638	[1187, 1188]	2686	[4053, 4054]	4734	[6015, 3518]	6782	[355, 5718]
639	[1189, 1190]	2687	[4055, 4056]	4735	[6016, 3068]	6783	[7423, 477]
640	[1191, 1192]	2688	[4057, 4058]	4736	[6017, 6018]	6784	[7424, 3079]
641	[1193, 1194]	2689	[4059, 3702]	4737	[6019, 6020]	6785	[7425, 3644]
642	[981, 1195]	2690	[4060, 2794]	4738	[6021, 3827]	6786	[2839, 6155]
643	[1196, 1197]	2691	[4061, 3577]	4739	[3817, 3634]	6787	[7426, 1195]
644	[1198, 334]	2692	[3513, 3486]	4740	[6022, 1527]	6788	[6149, 3]
645	[1199, 1200]	2693	[1564, 3286]	4741	[6023, 3195]	6789	[1609, 6026]
646	[1201, 1202]	2694	[4062, 4063]	4742	[6024, 266]	6790	[7427, 3920]
647	[1203, 1204]	2695	[4064, 4065]	4743	[6025, 3025]	6791	[6405, 3307]
648	[1205, 1206]	2696	[4066, 4067]	4744	[5824, 3575]	6792	[3688, 107]
649	[1207, 1208]	2697	[3104, 1269]	4745	[1573, 2956]	6793	[4105, 1539]
650	[1209, 1210]	2698	[4068, 1252]	4746	[6026, 2802]	6794	[7428, 3992]
651	[1211, 1212]	2699	[4069, 4070]	4747	[348, 6027]	6795	[3484, 3123]
652	[1213, 1214]	2700	[1059, 1015]	4748	[6028, 3164]	6796	[3044, 6250]
653	[1215, 1216]	2701	[3486, 4071]	4749	[6029, 5787]	6797	[7429, 3477]
654	[1217, 1218]	2702	[445, 3963]	4750	[6030, 2805]	6798	[7430, 3731]
655	[1219, 1220]	2703	[4072, 3929]	4751	[377, 1407]	6799	[7431, 1037]
656	[1221, 1222]	2704	[4073, 1094]	4752	[6031, 122]	6800	[1154, 296]
657	[326, 116]	2705	[4074, 4075]	4753	[6032, 3936]	6801	[5586, 6519]
658	[1223, 1224]	2706	[4076, 426]	4754	[6033, 3593]	6802	[7432, 3276]
659	[1225, 269]	2707	[4077, 4078]	4755	[3914, 331]	6803	[3448, 7364]
660	[1226, 1227]	2708	[4079, 4080]	4756	[6034, 3340]	6804	[3986, 3875]
661	[1228, 91]	2709	[4081, 4082]	4757	[6035, 3291]	6805	[5959, 5764]
662	[76, 1229]	2710	[3480, 3999]	4758	[6036, 6037]	6806	[7433, 1430]
663	[1230, 1231]	2711	[3975, 1216]	4759	[3925, 2864]	6807	[7434, 3926]
664	[1232, 1233]	2712	[4083, 4084]	4760	[6038, 1064]	6808	[7435, 2989]
665	[1234, 354]	2713	[4085, 3748]	4761	[5607, 1321]	6809	[7436, 3217]
666	[1235, 1236]	2714	[4086, 3469]	4762	[5678, 3488]	6810	[7437, 6260]
667	[1237, 1238]	2715	[1352, 1561]	4763	[6039, 459]	6811	[3634, 1427]
668	[1239, 1240]	2716	[4087, 1561]	4764	[6040, 3582]	6812	[3582, 2810]
669	[1241, 1242]	2717	[4088, 3301]	4765	[6041, 341]	6813	[7438, 5896]

670	[1243, 1244]	2718	[4089, 3682]	4766	[6042, 1044]	6814	[7439, 7364]
671	[1245, 1246]	2719	[4090, 3218]	4767	[2949, 4010]	6815	[1584, 1626]
672	[1247, 1248]	2720	[4091, 3595]	4768	[6043, 6044]	6816	[7440, 3027]
673	[1249, 1250]	2721	[4092, 4093]	4769	[6045, 4072]	6817	[1607, 3103]
674	[1251, 1252]	2722	[3619, 4094]	4770	[6046, 5871]	6818	[1476, 5620]
675	[1253, 1254]	2723	[979, 939]	4771	[420, 6047]	6819	[7284, 3012]
676	[1236, 1255]	2724	[4095, 404]	4772	[6048, 1378]	6820	[1552, 5542]
677	[1256, 1032]	2725	[4096, 1615]	4773	[6049, 6050]	6821	[7441, 1120]
678	[1257, 1258]	2726	[4097, 4098]	4774	[6018, 3245]	6822	[7442, 1265]
679	[1259, 1260]	2727	[4099, 4100]	4775	[5756, 5882]	6823	[7443, 1163]
680	[1261, 1262]	2728	[4101, 3044]	4776	[6051, 69]	6824	[7444, 3557]
681	[1263, 1264]	2729	[4102, 4103]	4777	[993, 4054]	6825	[5648, 3203]
682	[1265, 1266]	2730	[4104, 1149]	4778	[6052, 6053]	6826	[7445, 6405]
683	[1267, 1268]	2731	[3675, 4105]	4779	[6054, 1423]	6827	[7446, 1524]
684	[1269, 1270]	2732	[4106, 4107]	4780	[6055, 3296]	6828	[1065, 1323]
685	[1271, 1272]	2733	[4108, 4109]	4781	[6056, 2990]	6829	[5913, 441]
686	[1273, 1274]	2734	[4110, 1064]	4782	[3210, 3148]	6830	[7447, 1166]
687	[1275, 1276]	2735	[4111, 4112]	4783	[3802, 5567]	6831	[1652, 3672]
688	[1277, 1278]	2736	[4113, 4114]	4784	[4010, 6057]	6832	[7448, 28]
689	[1279, 1280]	2737	[4115, 1537]	4785	[6058, 3235]	6833	[7449, 1426]
690	[1281, 1282]	2738	[4116, 1269]	4786	[6059, 293]	6834	[7450, 7342]
691	[365, 1283]	2739	[4117, 2978]	4787	[6060, 378]	6835	[3592, 6161]
692	[1284, 1285]	2740	[3090, 3003]	4788	[3766, 3577]	6836	[7451, 5709]
693	[1286, 1287]	2741	[4118, 3415]	4789	[6061, 1404]	6837	[2795, 5811]
694	[1288, 1281]	2742	[4119, 1443]	4790	[6062, 5891]	6838	[6293, 3421]
695	[1020, 1289]	2743	[4120, 3019]	4791	[6063, 2838]	6839	[7452, 4106]
696	[1290, 1291]	2744	[4121, 4122]	4792	[5979, 6018]	6840	[7453, 3429]
697	[1292, 1293]	2745	[4123, 4124]	4793	[1465, 2999]	6841	[6216, 1140]
698	[1294, 1295]	2746	[4125, 1110]	4794	[6064, 1161]	6842	[7454, 6073]
699	[1296, 1297]	2747	[4126, 3509]	4795	[1254, 1452]	6843	[7455, 7456]
700	[1298, 1299]	2748	[3972, 4127]	4796	[1666, 1533]	6844	[7457, 6172]
701	[1300, 1301]	2749	[3121, 3163]	4797	[30, 2868]	6845	[7458, 5841]
702	[1302, 1303]	2750	[3982, 4128]	4798	[6065, 5819]	6846	[5670, 941]
703	[1304, 1305]	2751	[4129, 3584]	4799	[1560, 5854]	6847	[6489, 1262]
704	[1306, 1307]	2752	[4130, 4131]	4800	[1047, 6012]	6848	[7459, 3843]
705	[1308, 1309]	2753	[4132, 356]	4801	[6066, 3382]	6849	[7460, 3578]
706	[1310, 1311]	2754	[102, 3971]	4802	[6067, 1290]	6850	[7461, 3072]
707	[1312, 436]	2755	[4133, 3390]	4803	[6068, 1416]	6851	[7462, 299]
708	[1313, 1314]	2756	[3792, 4134]	4804	[5819, 1351]	6852	[7463, 18]
709	[1315, 1316]	2757	[3473, 3730]	4805	[6069, 2824]	6853	[7464, 6272]
710	[1317, 358]	2758	[3478, 3998]	4806	[6070, 73]	6854	[7465, 3150]
711	[1318, 1022]	2759	[4135, 4136]	4807	[6071, 966]	6855	[5532, 2803]
712	[467, 1319]	2760	[3171, 3490]	4808	[6072, 1532]	6856	[7466, 123]
713	[1320, 1321]	2761	[3868, 2970]	4809	[5595, 6073]	6857	[7467, 344]

714	[1252, 1322]	2762	[4137, 2971]	4810	[6074, 3969]	6858	[3293, 3739]
715	[1323, 1324]	2763	[4138, 3803]	4811	[6075, 3751]	6859	[7456, 456]
716	[363, 1325]	2764	[4139, 3314]	4812	[6076, 1503]	6860	[7468, 3517]
717	[1326, 1327]	2765	[2923, 1644]	4813	[5973, 3207]	6861	[7469, 1577]
718	[317, 1328]	2766	[4140, 4141]	4814	[6077, 1351]	6862	[7470, 7471]
719	[1329, 1330]	2767	[934, 3961]	4815	[3290, 3497]	6863	[7472, 983]
720	[1331, 1332]	2768	[1124, 4142]	4816	[3088, 4110]	6864	[1083, 3499]
721	[1333, 1334]	2769	[4143, 4144]	4817	[4131, 5776]	6865	[7473, 3994]
722	[487, 1335]	2770	[375, 4145]	4818	[6078, 1525]	6866	[6134, 3173]
723	[1336, 1337]	2771	[3916, 1529]	4819	[6079, 1124]	6867	[7474, 1487]
724	[1338, 1285]	2772	[3910, 3856]	4820	[6053, 5662]	6868	[7475, 1061]
725	[1339, 1340]	2773	[1650, 4068]	4821	[6080, 1034]	6869	[4084, 3679]
726	[1341, 1342]	2774	[3931, 1248]	4822	[6081, 3684]	6870	[1444, 3538]
727	[1343, 1344]	2775	[4146, 1683]	4823	[6082, 3705]	6871	[7476, 3010]
728	[1345, 1346]	2776	[4147, 3325]	4824	[6083, 454]	6872	[7477, 3511]
729	[1347, 1348]	2777	[4148, 2819]	4825	[6084, 6085]	6873	[7478, 418]
730	[1349, 1350]	2778	[4149, 1106]	4826	[6086, 5550]	6874	[7479, 3131]
731	[1351, 1352]	2779	[4150, 3052]	4827	[6087, 5857]	6875	[7480, 3847]
732	[1353, 1354]	2780	[3410, 996]	4828	[6088, 3690]	6876	[7481, 1510]
733	[1355, 1356]	2781	[4151, 3627]	4829	[6089, 482]	6877	[7482, 3572]
734	[1357, 1358]	2782	[2799, 4038]	4830	[6090, 6091]	6878	[5553, 4050]
735	[1359, 381]	2783	[4152, 3866]	4831	[6092, 3301]	6879	[977, 1356]
736	[1360, 1088]	2784	[116, 4153]	4832	[6093, 3261]	6880	[5544, 6191]
737	[1361, 1362]	2785	[3711, 4028]	4833	[6094, 6095]	6881	[7483, 1562]
738	[1363, 1364]	2786	[4154, 1491]	4834	[1508, 2812]	6882	[7484, 3748]
739	[1200, 1365]	2787	[4155, 3080]	4835	[3232, 1579]	6883	[1542, 3525]
740	[1366, 1367]	2788	[4156, 3882]	4836	[6096, 5959]	6884	[7485, 3961]
741	[1368, 1369]	2789	[4157, 3557]	4837	[4063, 5576]	6885	[7486, 3459]
742	[1370, 325]	2790	[4158, 276]	4838	[6097, 1521]	6886	[7487, 965]
743	[1371, 1372]	2791	[489, 463]	4839	[3671, 1525]	6887	[7488, 466]
744	[1373, 22]	2792	[4159, 2426]	4840	[6098, 6099]	6888	[7489, 2795]
745	[1120, 1371]	2793	[1728, 4160]	4841	[6100, 3302]	6889	[2915, 4121]
746	[1374, 1375]	2794	[4161, 2765]	4842	[6101, 5844]	6890	[7490, 3824]
747	[1376, 1377]	2795	[4162, 4163]	4843	[6102, 4006]	6891	[7491, 7376]
748	[1378, 368]	2796	[4164, 557]	4844	[6103, 109]	6892	[4036, 3159]
749	[1379, 1112]	2797	[4165, 2004]	4845	[6104, 3615]	6893	[5590, 5931]
750	[1380, 1381]	2798	[4166, 2059]	4846	[3497, 1209]	6894	[7492, 3090]
751	[1382, 1383]	2799	[4167, 4168]	4847	[6105, 3343]	6895	[7493, 1010]
752	[1384, 1385]	2800	[4169, 4170]	4848	[6106, 3581]	6896	[7494, 1021]
753	[1386, 1387]	2801	[535, 4171]	4849	[2888, 1342]	6897	[7495, 3191]
754	[1388, 351]	2802	[4172, 4173]	4850	[2819, 3295]	6898	[5923, 3510]
755	[1389, 1390]	2803	[4174, 863]	4851	[6107, 3899]	6899	[2899, 4132]
756	[1391, 1392]	2804	[4175, 741]	4852	[3106, 69]	6900	[4058, 4056]
757	[1393, 1092]	2805	[4176, 2078]	4853	[6108, 3357]	6901	[1197, 1287]

758	[1394, 1395]	2806	[4177, 2057]	4854	[6109, 6110]	6902	[5830, 1367]
759	[1396, 1397]	2807	[2063, 2183]	4855	[6111, 286]	6903	[7496, 1069]
760	[1398, 1399]	2808	[2593, 37]	4856	[6112, 4097]	6904	[7497, 6096]
761	[1400, 1401]	2809	[2520, 4178]	4857	[6113, 1575]	6905	[1007, 6053]
762	[1079, 1402]	2810	[4179, 2538]	4858	[6114, 425]	6906	[7498, 3689]
763	[1403, 1404]	2811	[4180, 1928]	4859	[6115, 3022]	6907	[7499, 2923]
764	[1405, 1406]	2812	[4181, 2233]	4860	[292, 3713]	6908	[1402, 5789]
765	[1407, 1171]	2813	[2209, 4182]	4861	[6116, 3062]	6909	[3142, 1597]
766	[1408, 1409]	2814	[4183, 895]	4862	[6117, 3780]	6910	[1179, 5969]
767	[1410, 1411]	2815	[2003, 4184]	4863	[3077, 1217]	6911	[7500, 2927]
768	[1412, 1413]	2816	[4185, 4186]	4864	[6118, 5967]	6912	[7501, 6497]
769	[1414, 1415]	2817	[4187, 707]	4865	[6119, 2806]	6913	[7502, 2994]
770	[1416, 1417]	2818	[4188, 2362]	4866	[6120, 5662]	6914	[7503, 310]
771	[1418, 1419]	2819	[4189, 4190]	4867	[6121, 6122]	6915	[7504, 3825]
772	[1420, 1421]	2820	[4191, 1943]	4868	[6123, 3056]	6916	[7505, 5953]
773	[1422, 1306]	2821	[4192, 4193]	4869	[6124, 6125]	6917	[7506, 1159]
774	[1423, 1424]	2822	[2164, 2640]	4870	[6126, 339]	6918	[7507, 2977]
775	[1425, 1426]	2823	[4194, 2095]	4871	[6127, 1360]	6919	[7508, 1230]
776	[1427, 1425]	2824	[4195, 556]	4872	[1316, 6128]	6920	[7509, 6304]
777	[1428, 1429]	2825	[642, 4196]	4873	[6129, 1357]	6921	[4109, 1336]
778	[1430, 1357]	2826	[4197, 1813]	4874	[1204, 5936]	6922	[3909, 6164]
779	[1431, 1432]	2827	[4198, 4199]	4875	[6130, 6131]	6923	[3821, 3816]
780	[1433, 1434]	2828	[4200, 2159]	4876	[3900, 1552]	6924	[6450, 1244]
781	[1435, 104]	2829	[4201, 1916]	4877	[6132, 4129]	6925	[7510, 479]
782	[1436, 1437]	2830	[1996, 796]	4878	[6133, 6134]	6926	[7511, 2812]
783	[1438, 1439]	2831	[2101, 4202]	4879	[6135, 3266]	6927	[7512, 1607]
784	[1440, 1441]	2832	[4203, 616]	4880	[1081, 6035]	6928	[7513, 1365]
785	[1442, 433]	2833	[4204, 4205]	4881	[6136, 6013]	6929	[7514, 358]
786	[1443, 1444]	2834	[4206, 4207]	4882	[6137, 3071]	6930	[3260, 1385]
787	[1445, 356]	2835	[4208, 4209]	4883	[6027, 3068]	6931	[7515, 452]
788	[1446, 319]	2836	[4210, 2010]	4884	[4142, 2887]	6932	[7516, 5888]
789	[1447, 1448]	2837	[4211, 2133]	4885	[2984, 3906]	6933	[7517, 3585]
790	[263, 1449]	2838	[4212, 2113]	4886	[6138, 3093]	6934	[7518, 1190]
791	[1450, 1451]	2839	[4213, 2024]	4887	[6139, 1672]	6935	[2897, 6351]
792	[1452, 1207]	2840	[4214, 2548]	4888	[3906, 318]	6936	[6492, 3136]
793	[1453, 1125]	2841	[4215, 2394]	4889	[6140, 5761]	6937	[7519, 3995]
794	[1454, 1455]	2842	[4216, 2155]	4890	[6141, 364]	6938	[6327, 2859]
795	[1456, 1457]	2843	[2563, 4217]	4891	[20, 5907]	6939	[3892, 3010]
796	[1458, 1459]	2844	[4218, 1897]	4892	[459, 5540]	6940	[1030, 5553]
797	[1460, 1461]	2845	[4219, 4220]	4893	[3417, 4102]	6941	[5604, 7520]
798	[1328, 428]	2846	[4221, 2284]	4894	[6142, 1038]	6942	[7521, 3033]
799	[1462, 1463]	2847	[4222, 1717]	4895	[6143, 3737]	6943	[7522, 340]
800	[1464, 1465]	2848	[4223, 4224]	4896	[114, 5570]	6944	[5896, 1422]
801	[1381, 101]	2849	[4225, 2769]	4897	[6144, 1675]	6945	[3347, 3164]

802	[1466, 1467]	2850	[2647, 1698]	4898	[6145, 3875]	6946	[3646, 281]
803	[1468, 1469]	2851	[852, 2483]	4899	[259, 6146]	6947	[7523, 411]
804	[1470, 1206]	2852	[4226, 4227]	4900	[6147, 990]	6948	[7524, 1680]
805	[1471, 1263]	2853	[4228, 2670]	4901	[5982, 5754]	6949	[7525, 5980]
806	[1472, 1473]	2854	[2710, 4229]	4902	[4124, 3793]	6950	[3709, 6421]
807	[1474, 289]	2855	[4230, 2750]	4903	[6148, 3790]	6951	[6050, 1078]
808	[1475, 1476]	2856	[4231, 4232]	4904	[5904, 5846]	6952	[5754, 1481]
809	[1477, 1478]	2857	[4233, 4234]	4905	[1118, 364]	6953	[7526, 1300]
810	[1479, 1480]	2858	[4235, 1877]	4906	[5994, 6149]	6954	[441, 4004]
811	[1481, 109]	2859	[4236, 2780]	4907	[1577, 3662]	6955	[3457, 964]
812	[1482, 1483]	2860	[4237, 2758]	4908	[6150, 3387]	6956	[7527, 3730]
813	[1484, 1485]	2861	[4238, 4239]	4909	[6151, 5659]	6957	[3632, 3101]
814	[1486, 1487]	2862	[4240, 2610]	4910	[6152, 2883]	6958	[7528, 1046]
815	[1488, 1489]	2863	[4241, 4242]	4911	[6153, 3462]	6959	[956, 2811]
816	[1490, 1044]	2864	[4243, 4229]	4912	[6154, 6155]	6960	[7529, 5765]
817	[1491, 1492]	2865	[4244, 4245]	4913	[6156, 5664]	6961	[7530, 297]
818	[1493, 1494]	2866	[2091, 2625]	4914	[6157, 6029]	6962	[1668, 3118]
819	[1282, 1495]	2867	[4246, 4247]	4915	[305, 6158]	6963	[7531, 2855]
820	[1496, 1497]	2868	[4248, 1766]	4916	[6159, 3947]	6964	[309, 3108]
821	[1498, 1142]	2869	[1861, 4249]	4917	[6160, 6161]	6965	[7532, 1289]
822	[1499, 1308]	2870	[4250, 2451]	4918	[5548, 1165]	6966	[3402, 1151]
823	[88, 1500]	2871	[4251, 2786]	4919	[6162, 1489]	6967	[5764, 3386]
824	[1501, 1502]	2872	[1779, 4252]	4920	[6163, 3464]	6968	[7533, 2976]
825	[1503, 1057]	2873	[1781, 871]	4921	[6164, 3728]	6969	[7534, 1212]
826	[94, 1504]	2874	[4253, 4254]	4922	[5992, 3534]	6970	[385, 5725]
827	[1505, 1506]	2875	[4255, 4162]	4923	[6165, 5915]	6971	[7535, 3839]
828	[1156, 425]	2876	[4256, 4257]	4924	[6166, 1184]	6972	[7536, 1570]
829	[1507, 1508]	2877	[4258, 2265]	4925	[6167, 2892]	6973	[7537, 3110]
830	[1509, 471]	2878	[4259, 4260]	4926	[6168, 1259]	6974	[7538, 4145]
831	[991, 1510]	2879	[4261, 1849]	4927	[1641, 3914]	6975	[3537, 3367]
832	[1511, 1512]	2880	[2762, 1805]	4928	[5655, 402]	6976	[7539, 3003]
833	[1513, 1514]	2881	[659, 4262]	4929	[3235, 4118]	6977	[3173, 2832]
834	[1515, 1516]	2882	[868, 4263]	4930	[6169, 6170]	6978	[3277, 3751]
835	[1517, 1518]	2883	[4264, 4265]	4931	[5877, 1277]	6979	[7540, 1180]
836	[1519, 1520]	2884	[4266, 624]	4932	[6171, 4118]	6980	[7541, 4085]
837	[1521, 1522]	2885	[4267, 2547]	4933	[5701, 6172]	6981	[5799, 7400]
838	[1523, 1524]	2886	[1842, 224]	4934	[6173, 3627]	6982	[7542, 2998]
839	[1525, 1526]	2887	[4268, 4269]	4935	[6174, 3697]	6983	[3413, 7456]
840	[1354, 1527]	2888	[2250, 4270]	4936	[6175, 6176]	6984	[3284, 1683]
841	[1528, 1529]	2889	[795, 2538]	4937	[1208, 6177]	6985	[6057, 2988]
842	[1530, 1531]	2890	[905, 860]	4938	[3127, 3589]	6986	[6444, 1668]
843	[1532, 1310]	2891	[4271, 2013]	4939	[6178, 1349]	6987	[3275, 5967]
844	[1533, 1534]	2892	[1743, 4272]	4940	[6179, 2991]	6988	[321, 1225]
845	[1535, 1536]	2893	[4273, 2783]	4941	[6180, 3603]	6989	[7543, 4121]

846	[1411, 1537]	2894	[4274, 4275]	4942	[3320, 6020]	6990	[7544, 6520]
847	[1335, 1067]	2895	[4276, 4277]	4943	[6181, 5555]	6991	[7545, 1299]
848	[1538, 1539]	2896	[4278, 4173]	4944	[3225, 1413]	6992	[7546, 3555]
849	[1540, 1541]	2897	[4279, 2051]	4945	[6182, 3292]	6993	[7547, 3929]
850	[471, 1542]	2898	[4280, 536]	4946	[6183, 3876]	6994	[7548, 4024]
851	[1543, 1276]	2899	[4281, 1696]	4947	[6184, 1550]	6995	[7549, 3818]
852	[1544, 1545]	2900	[1731, 2510]	4948	[6185, 1434]	6996	[3894, 421]
853	[1367, 1546]	2901	[4282, 2512]	4949	[6186, 1160]	6997	[3285, 3804]
854	[1547, 1548]	2902	[2277, 2509]	4950	[3625, 5670]	6998	[7550, 1282]
855	[1549, 1550]	2903	[4283, 4284]	4951	[5584, 3503]	6999	[3733, 5654]
856	[1551, 1552]	2904	[2665, 4285]	4952	[3343, 2902]	7000	[7551, 5793]
857	[1553, 1378]	2905	[4286, 667]	4953	[6187, 3367]	7001	[7552, 2873]
858	[1089, 1554]	2906	[4287, 4288]	4954	[1063, 3113]	7002	[7553, 2875]
859	[1555, 1016]	2907	[2045, 854]	4955	[4114, 6188]	7003	[2989, 7342]
860	[1556, 1557]	2908	[4173, 4289]	4956	[6189, 959]	7004	[7554, 1100]
861	[257, 1558]	2909	[4290, 2061]	4957	[6190, 3733]	7005	[3616, 3599]
862	[1559, 1560]	2910	[4291, 4292]	4958	[6191, 1501]	7006	[7555, 3769]
863	[1561, 1562]	2911	[4293, 4294]	4959	[6192, 1461]	7007	[7556, 2908]
864	[1563, 1564]	2912	[4295, 2028]	4960	[6193, 5583]	7008	[7557, 7297]
865	[1565, 1566]	2913	[4296, 4297]	4961	[2828, 1121]	7009	[7558, 3639]
866	[1483, 1567]	2914	[1943, 4186]	4962	[5712, 3509]	7010	[7520, 461]
867	[1568, 1569]	2915	[2120, 4298]	4963	[6194, 4122]	7011	[7559, 1049]
868	[1570, 1571]	2916	[4299, 4300]	4964	[6195, 3522]	7012	[7560, 3879]
869	[1572, 1573]	2917	[4301, 4302]	4965	[6196, 3224]	7013	[7561, 5825]
870	[1574, 1575]	2918	[4303, 4304]	4966	[6197, 3351]	7014	[6177, 3561]
871	[1576, 1577]	2919	[4305, 4306]	4967	[6198, 3510]	7015	[7562, 320]
872	[1578, 371]	2920	[4307, 146]	4968	[6199, 942]	7016	[7563, 1079]
873	[1579, 1580]	2921	[4308, 4309]	4969	[6200, 3137]	7017	[3337, 993]
874	[1581, 1582]	2922	[2404, 4310]	4970	[2882, 1346]	7018	[7564, 29]
875	[1583, 1584]	2923	[4224, 710]	4971	[3846, 6201]	7019	[7565, 2933]
876	[1585, 1472]	2924	[4311, 4191]	4972	[6202, 6146]	7020	[3950, 3052]
877	[1586, 1587]	2925	[4312, 4313]	4973	[6203, 5879]	7021	[7566, 82]
878	[1588, 1589]	2926	[4314, 812]	4974	[6204, 2814]	7022	[7567, 342]
879	[1590, 1591]	2927	[4315, 2700]	4975	[6205, 5531]	7023	[1038, 3990]
880	[1592, 1593]	2928	[4316, 4235]	4976	[6206, 5865]	7024	[7568, 7520]
881	[1594, 1595]	2929	[2708, 598]	4977	[4000, 454]	7025	[7569, 372]
882	[1596, 1597]	2930	[4317, 4318]	4978	[6207, 5505]	7026	[7570, 6489]
883	[1598, 1599]	2931	[4319, 4320]	4979	[6208, 1162]	7027	[7571, 6149]
884	[1600, 1601]	2932	[4321, 577]	4980	[6209, 1547]	7028	[1557, 1477]
885	[1602, 1603]	2933	[4322, 2590]	4981	[6210, 5578]	7029	[1616, 1083]
886	[1604, 1605]	2934	[4323, 731]	4982	[4015, 4088]	7030	[3363, 5601]
887	[1606, 1607]	2935	[4324, 2548]	4983	[3082, 1362]	7031	[3768, 5559]
888	[1608, 1609]	2936	[4325, 2766]	4984	[4052, 1293]	7032	[7572, 5610]
889	[1610, 1127]	2937	[4326, 693]	4985	[6211, 3323]	7033	[7573, 3680]

890	[1611, 1612]	2938	[4327, 4328]	4986	[6212, 1603]	7034	[7574, 1656]
891	[1613, 1614]	2939	[4329, 4330]	4987	[6213, 1165]	7035	[3764, 1268]
892	[1615, 1616]	2940	[4331, 2179]	4988	[6214, 3826]	7036	[7575, 3526]
893	[1617, 1618]	2941	[4332, 823]	4989	[6215, 3045]	7037	[5839, 4141]
894	[1619, 1620]	2942	[4333, 1770]	4990	[4002, 3395]	7038	[5766, 4036]
895	[1621, 1622]	2943	[4334, 2320]	4991	[124, 6216]	7039	[5610, 6450]
896	[1623, 1624]	2944	[4335, 811]	4992	[6217, 5834]	7040	[7576, 5510]
897	[1625, 1626]	2945	[2467, 802]	4993	[6218, 308]	7041	[1274, 1259]
898	[1627, 1628]	2946	[4336, 4337]	4994	[1049, 1623]	7042	[7577, 3395]
899	[1618, 1629]	2947	[4338, 1754]	4995	[282, 3259]	7043	[7578, 6265]
900	[1630, 1631]	2948	[1865, 4339]	4996	[6219, 1113]	7044	[7579, 7273]
901	[1632, 1633]	2949	[4340, 2784]	4997	[6220, 3152]	7045	[6170, 3284]
902	[1634, 1635]	2950	[4341, 4342]	4998	[6221, 422]	7046	[7580, 2884]
903	[1636, 1637]	2951	[4343, 163]	4999	[5574, 5765]	7047	[3443, 1303]
904	[1638, 1639]	2952	[4344, 862]	5000	[3963, 3350]	7048	[7581, 1358]
905	[1640, 1641]	2953	[4345, 910]	5001	[6222, 6223]	7049	[7582, 5923]
906	[1642, 318]	2954	[4346, 61]	5002	[5834, 3969]	7050	[1175, 2865]
907	[1643, 1644]	2955	[593, 2008]	5003	[6224, 6177]	7051	[342, 3085]
908	[1645, 1630]	2956	[856, 1856]	5004	[6225, 3630]	7052	[7583, 1601]
909	[1646, 991]	2957	[4347, 2277]	5005	[3180, 1343]	7053	[7297, 3433]
910	[1647, 1648]	2958	[4348, 2411]	5006	[6226, 1500]	7054	[7584, 1516]
911	[1649, 1650]	2959	[4349, 2472]	5007	[6227, 3082]	7055	[7585, 2817]
912	[1651, 1652]	2960	[4350, 4351]	5008	[6228, 328]	7056	[3844, 5973]
913	[1653, 1654]	2961	[4352, 4353]	5009	[3123, 5509]	7057	[7586, 3192]
914	[1655, 420]	2962	[4354, 1718]	5010	[6229, 2862]	7058	[7587, 1633]
915	[1246, 1656]	2963	[4355, 1955]	5011	[6230, 1336]	7059	[7588, 3798]
916	[1657, 1658]	2964	[2078, 1797]	5012	[367, 89]	7060	[7589, 4127]
917	[1659, 6]	2965	[4356, 2238]	5013	[6231, 93]	7061	[273, 1460]
918	[1660, 1661]	2966	[2778, 2497]	5014	[1013, 4008]	7062	[7590, 1339]
919	[1662, 1663]	2967	[573, 497]	5015	[6125, 3475]	7063	[1180, 5505]
920	[1510, 1664]	2968	[4294, 2398]	5016	[6232, 5882]	7064	[7591, 1127]
921	[1665, 1666]	2969	[4357, 4358]	5017	[6233, 6063]	7065	[7592, 1210]
922	[1667, 1668]	2970	[4359, 4360]	5018	[1260, 3706]	7066	[7593, 3567]
923	[1669, 1670]	2971	[4361, 855]	5019	[3714, 3951]	7067	[7594, 5101]
924	[1671, 1672]	2972	[4362, 4363]	5020	[6234, 316]	7068	[7595, 2839]
925	[1673, 1674]	2973	[4364, 4365]	5021	[1522, 1549]	7069	[7596, 2926]
926	[1365, 1675]	2974	[4366, 4367]	5022	[6235, 6057]	7070	[7597, 1179]
927	[1676, 1323]	2975	[4368, 1949]	5023	[6236, 282]	7071	[7598, 4101]
928	[1677, 1678]	2976	[4369, 1726]	5024	[6237, 4033]	7072	[3263, 5793]
929	[1679, 1680]	2977	[2500, 4370]	5025	[1593, 3554]	7073	[7599, 3729]
930	[1681, 1682]	2978	[1941, 2120]	5026	[1385, 5746]	7074	[7600, 3688]
931	[1683, 1684]	2979	[1823, 4371]	5027	[6238, 3820]	7075	[3518, 6099]
932	[1685, 1686]	2980	[4372, 4373]	5028	[6239, 1483]	7076	[7601, 6346]
933	[1687, 1688]	2981	[4374, 4270]	5029	[6240, 5637]	7077	[1136, 6110]

934	[1689, 1690]	2982	[4375, 2726]	5030	[3307, 2905]	7078	[7602, 3698]
935	[1691, 1692]	2983	[4376, 4377]	5031	[6241, 3347]	7079	[7603, 6351]
936	[1693, 1694]	2984	[4378, 1991]	5032	[6242, 3671]	7080	[6458, 2898]
937	[769, 1695]	2985	[4379, 2080]	5033	[6243, 1055]	7081	[1324, 1639]
938	[1696, 1697]	2986	[4380, 4238]	5034	[6244, 1093]	7082	[7604, 371]
939	[1698, 1699]	2987	[4381, 4382]	5035	[6245, 2835]	7083	[3476, 1176]
940	[1700, 1701]	2988	[4383, 539]	5036	[6246, 114]	7084	[5857, 386]
941	[1702, 1703]	2989	[4384, 2253]	5037	[2978, 3605]	7085	[1220, 5898]
942	[895, 1704]	2990	[4385, 4386]	5038	[6247, 3263]	7086	[7605, 2793]
943	[1705, 896]	2991	[4387, 4388]	5039	[3176, 5571]	7087	[7606, 3465]
944	[1706, 1707]	2992	[4389, 4390]	5040	[6248, 4000]	7088	[1070, 5843]
945	[1708, 1709]	2993	[4391, 4392]	5041	[3520, 403]	7089	[3330, 3631]
946	[1710, 1711]	2994	[4393, 1913]	5042	[6249, 1522]	7090	[7607, 3119]
947	[1712, 233]	2995	[4394, 4373]	5043	[5559, 3975]	7091	[301, 3601]
948	[1713, 1714]	2996	[4395, 834]	5044	[6250, 1189]	7092	[4011, 4114]
949	[1715, 1716]	2997	[696, 2070]	5045	[2877, 5545]	7093	[6047, 1375]
950	[40, 841]	2998	[2396, 4396]	5046	[3690, 3693]	7094	[7608, 1661]
951	[1717, 1718]	2999	[4397, 736]	5047	[3819, 3691]	7095	[122, 6368]
952	[1719, 555]	3000	[2506, 2093]	5048	[3783, 3088]	7096	[7609, 1335]
953	[1720, 557]	3001	[2502, 1843]	5049	[6251, 6252]	7097	[1654, 366]
954	[1721, 1722]	3002	[4398, 2682]	5050	[6253, 3348]	7098	[7610, 5607]
955	[1723, 1724]	3003	[4399, 1793]	5051	[6254, 957]	7099	[7611, 3869]
956	[1725, 1726]	3004	[2635, 247]	5052	[1461, 3042]	7100	[3601, 944]
957	[1727, 1728]	3005	[4400, 4401]	5053	[6255, 6256]	7101	[7612, 349]
958	[1729, 186]	3006	[4402, 4403]	5054	[4136, 1028]	7102	[7613, 1431]
959	[1730, 1731]	3007	[4404, 4405]	5055	[6257, 1040]	7103	[2985, 486]
960	[1732, 1733]	3008	[4406, 186]	5056	[6258, 335]	7104	[7614, 5655]
961	[1734, 1735]	3009	[2617, 4348]	5057	[6259, 5660]	7105	[7396, 1405]
962	[1736, 1737]	3010	[4407, 4408]	5058	[6260, 350]	7106	[7615, 3354]
963	[1738, 1739]	3011	[4409, 4410]	5059	[6261, 2942]	7107	[3719, 3915]
964	[1740, 1741]	3012	[4411, 1762]	5060	[5718, 3621]	7108	[7616, 3606]
965	[1742, 1696]	3013	[4412, 4413]	5061	[3612, 6262]	7109	[7617, 1169]
966	[1703, 1743]	3014	[4414, 1836]	5062	[6263, 6027]	7110	[6413, 7471]
967	[1744, 1745]	3015	[4178, 4415]	5063	[6264, 3673]	7111	[1325, 1376]
968	[1746, 1747]	3016	[4416, 2768]	5064	[3609, 3467]	7112	[7618, 3758]
969	[1748, 1749]	3017	[2187, 4417]	5065	[1272, 3418]	7113	[7619, 3279]
970	[1750, 621]	3018	[4418, 4419]	5066	[1073, 6265]	7114	[3114, 394]
971	[1751, 927]	3019	[4420, 2331]	5067	[6266, 3982]	7115	[7620, 70]
972	[1752, 1753]	3020	[4421, 4400]	5068	[6267, 5497]	7116	[3315, 3722]
973	[1754, 1755]	3021	[4422, 175]	5069	[6268, 2934]	7117	[7621, 1466]
974	[1756, 1757]	3022	[4423, 4424]	5070	[1182, 1613]	7118	[7622, 311]
975	[150, 1758]	3023	[4425, 4426]	5071	[6269, 3145]	7119	[7623, 1047]
976	[1759, 1760]	3024	[4427, 4428]	5072	[412, 1194]	7120	[5654, 1039]
977	[1761, 1762]	3025	[4429, 4430]	5073	[6270, 3954]	7121	[381, 1334]

978	[1763, 1764]	3026	[1695, 829]	5074	[4128, 5660]	7122	[6289, 1359]
979	[1765, 1766]	3027	[4431, 4290]	5075	[6271, 4060]	7123	[7624, 3384]
980	[1767, 1768]	3028	[4432, 4433]	5076	[6272, 485]	7124	[7625, 932]
981	[1769, 1770]	3029	[4434, 4435]	5077	[6273, 386]	7125	[7626, 1464]
982	[1771, 1772]	3030	[4436, 4437]	5078	[6274, 1664]	7126	[7627, 1245]
983	[1773, 1774]	3031	[4438, 2453]	5079	[6275, 305]	7127	[7400, 3501]
984	[1775, 1763]	3032	[4439, 4440]	5080	[6276, 2796]	7128	[7628, 366]
985	[1776, 1777]	3033	[4441, 4442]	5081	[3873, 4101]	7129	[469, 4144]
986	[1778, 1779]	3034	[4443, 4444]	5082	[6277, 2900]	7130	[1626, 3660]
987	[1780, 1781]	3035	[4445, 2275]	5083	[6278, 3564]	7131	[7629, 2968]
988	[1782, 1783]	3036	[4405, 4446]	5084	[328, 6225]	7132	[7630, 3624]
989	[1784, 1785]	3037	[4447, 2200]	5085	[6279, 5603]	7133	[7631, 4093]
990	[1786, 1787]	3038	[4448, 4182]	5086	[6280, 3430]	7134	[1195, 4045]
991	[1788, 1789]	3039	[4449, 4428]	5087	[3431, 3384]	7135	[7632, 6299]
992	[1790, 1791]	3040	[4450, 1720]	5088	[6281, 3642]	7136	[7633, 3625]
993	[1792, 1793]	3041	[4451, 4452]	5089	[6282, 3038]	7137	[7634, 1631]
994	[200, 1794]	3042	[4453, 564]	5090	[6283, 1437]	7138	[7635, 1170]
995	[1795, 1796]	3043	[4454, 4455]	5091	[6284, 5571]	7139	[7636, 1086]
996	[1797, 873]	3044	[4456, 4457]	5092	[6285, 6286]	7140	[5555, 3950]
997	[1798, 1799]	3045	[667, 838]	5093	[3692, 3826]	7141	[7637, 1670]
998	[1800, 1801]	3046	[4458, 2712]	5094	[3823, 3824]	7142	[3035, 6457]
999	[1802, 1774]	3047	[4459, 527]	5095	[3808, 6021]	7143	[4016, 361]
1000	[1803, 1804]	3048	[4460, 4461]	5096	[6287, 3815]	7144	[1242, 288]
1001	[1805, 1806]	3049	[4462, 2455]	5097	[104, 6288]	7145	[7638, 2984]
1002	[1807, 1808]	3050	[4254, 2184]	5098	[1429, 3506]	7146	[6397, 4040]
1003	[1809, 1810]	3051	[4463, 2074]	5099	[5862, 3520]	7147	[7639, 5931]
1004	[1811, 1812]	3052	[4464, 2473]	5100	[3698, 6289]	7148	[7640, 1054]
1005	[1813, 1814]	3053	[4465, 905]	5101	[5101, 5101]	7149	[6005, 6050]
1006	[1815, 1816]	3054	[4466, 812]	5102	[3694, 3838]	7150	[296, 2980]
1007	[1817, 1818]	3055	[4467, 4468]	5103	[78, 3381]	7151	[7641, 4134]
1008	[1819, 1820]	3056	[185, 716]	5104	[6290, 4020]	7152	[7642, 1586]
1009	[1755, 1821]	3057	[4469, 4470]	5105	[6291, 5996]	7153	[7643, 1659]
1010	[1822, 1823]	3058	[4471, 2612]	5106	[6292, 345]	7154	[5706, 3454]
1011	[1824, 1825]	3059	[4472, 1790]	5107	[3461, 6293]	7155	[7644, 6164]
1012	[1826, 1827]	3060	[2491, 2677]	5108	[6294, 108]	7156	[4006, 6044]
1013	[1828, 1829]	3061	[4473, 4380]	5109	[6295, 3445]	7157	[7645, 3373]
1014	[1830, 1831]	3062	[4474, 4475]	5110	[5504, 2949]	7158	[7646, 3538]
1015	[1832, 632]	3063	[4476, 4477]	5111	[6296, 3287]	7159	[7647, 2971]
1016	[1833, 1834]	3064	[1709, 4478]	5112	[6297, 2982]	7160	[7648, 3344]
1017	[1835, 1836]	3065	[4479, 657]	5113	[6298, 5532]	7161	[3002, 3464]
1018	[1837, 1838]	3066	[2746, 4480]	5114	[3932, 6299]	7162	[7649, 6047]
1019	[1839, 1840]	3067	[4481, 187]	5115	[3372, 3543]	7163	[7650, 1587]
1020	[1841, 1842]	3068	[4482, 2280]	5116	[6300, 6201]	7164	[949, 7284]
1021	[1843, 1844]	3069	[4483, 2132]	5117	[1244, 6252]	7165	[7651, 958]

1022	[1845, 1761]	3070	[4484, 2526]	5118	[6301, 3219]	7166	[7652, 1238]
1023	[1846, 1847]	3071	[4485, 675]	5119	[6302, 3910]	7167	[3154, 1219]
1024	[1848, 52]	3072	[4486, 2717]	5120	[6303, 987]	7168	[7653, 1137]
1025	[1849, 1850]	3073	[4487, 167]	5121	[5565, 3204]	7169	[7654, 3346]
1026	[1851, 1852]	3074	[1697, 8]	5122	[5536, 3638]	7170	[3683, 3472]
1027	[1853, 1854]	3075	[1699, 918]	5123	[6304, 3188]	7171	[7655, 6522]
1028	[1855, 1844]	3076	[4488, 4489]	5124	[6305, 1566]	7172	[7656, 3738]
1029	[1856, 1857]	3077	[4490, 2764]	5125	[3800, 3154]	7173	[7657, 3817]
1030	[1858, 1859]	3078	[4220, 1700]	5126	[6306, 5904]	7174	[7658, 4147]
1031	[1860, 1861]	3079	[4491, 1834]	5127	[6307, 2947]	7175	[1034, 3523]
1032	[1862, 1863]	3080	[4492, 4493]	5128	[3175, 5961]	7176	[7659, 275]
1033	[1864, 1865]	3081	[4494, 2068]	5129	[6308, 5584]	7177	[7660, 3668]
1034	[1866, 877]	3082	[2178, 627]	5130	[6091, 3952]	7178	[3080, 3249]
1035	[1867, 1868]	3083	[4495, 4496]	5131	[3755, 5955]	7179	[1305, 1612]
1036	[595, 1869]	3084	[4497, 1864]	5132	[4038, 3272]	7180	[7661, 481]
1037	[1870, 887]	3085	[4498, 4499]	5133	[1497, 5688]	7181	[5758, 952]
1038	[1871, 1872]	3086	[4500, 2735]	5134	[6309, 1629]	7182	[3834, 5871]
1039	[1873, 1874]	3087	[2678, 4501]	5135	[6310, 3953]	7183	[7662, 5922]
1040	[1875, 139]	3088	[4502, 1914]	5136	[6311, 1414]	7184	[6520, 1609]
1041	[1876, 790]	3089	[4503, 593]	5137	[6312, 1198]	7185	[7663, 1641]
1042	[1877, 1878]	3090	[4229, 2635]	5138	[6313, 3180]	7186	[7664, 3074]
1043	[1879, 1880]	3091	[2068, 4265]	5139	[6314, 5726]	7187	[3423, 307]
1044	[1881, 1882]	3092	[1863, 4504]	5140	[3438, 1414]	7188	[7665, 451]
1045	[1883, 904]	3093	[4505, 2220]	5141	[3988, 2927]	7189	[2868, 1110]
1046	[1884, 1885]	3094	[704, 2732]	5142	[5725, 3346]	7190	[3266, 5716]
1047	[1886, 1887]	3095	[4506, 587]	5143	[1478, 5643]	7191	[7471, 474]
1048	[1888, 1889]	3096	[4507, 4508]	5144	[6315, 3483]	7192	[5576, 1272]
1049	[731, 1890]	3097	[4509, 4269]	5145	[1032, 1419]	7193	[7666, 3334]
1050	[1891, 1892]	3098	[2338, 2361]	5146	[6316, 3467]	7194	[7667, 3479]
1051	[1893, 1894]	3099	[1799, 1801]	5147	[3327, 3564]	7195	[5949, 482]
1052	[1895, 1896]	3100	[4510, 2106]	5148	[6317, 3337]	7196	[6012, 3365]
1053	[1897, 1898]	3101	[4511, 4233]	5149	[3110, 3803]	7197	[3370, 3461]
1054	[1899, 1900]	3102	[4512, 1883]	5150	[6318, 3804]	7198	[7668, 3696]
1055	[1901, 608]	3103	[4513, 4514]	5151	[6319, 3948]	7199	[5879, 1237]
1056	[1902, 1903]	3104	[2734, 2271]	5152	[3160, 3806]	7200	[7669, 1133]
1057	[1, 1904]	3105	[1898, 4515]	5153	[6320, 5830]	7201	[2836, 5564]
1058	[1905, 1906]	3106	[4516, 4517]	5154	[6321, 1403]	7202	[1364, 280]
1059	[1907, 630]	3107	[4518, 646]	5155	[6286, 3081]	7203	[7670, 3205]
1060	[1908, 181]	3108	[4519, 2401]	5156	[6322, 2972]	7204	[7671, 1663]
1061	[1909, 1910]	3109	[4520, 1748]	5157	[6323, 283]	7205	[7672, 1473]
1062	[1911, 149]	3110	[2610, 578]	5158	[6324, 4049]	7206	[2855, 3834]
1063	[1912, 1913]	3111	[4521, 4522]	5159	[1103, 253]	7207	[7673, 487]
1064	[1914, 677]	3112	[4523, 1812]	5160	[6325, 3051]	7208	[7674, 5638]
1065	[1915, 1916]	3113	[4524, 4525]	5161	[6326, 6188]	7209	[7675, 1622]

1066	[1917, 531]	3114	[1913, 2297]	5162	[1293, 6327]	7210	[2796, 6037]
1067	[928, 715]	3115	[821, 2037]	5163	[6328, 267]	7211	[7676, 3951]
1068	[1918, 1919]	3116	[4526, 868]	5164	[6329, 1078]	7212	[7677, 2899]
1069	[1920, 1921]	3117	[4444, 2486]	5165	[6330, 3504]	7213	[7678, 3640]
1070	[189, 589]	3118	[4527, 4528]	5166	[6331, 1139]	7214	[7679, 3054]
1071	[1922, 1923]	3119	[2014, 4529]	5167	[6332, 3455]	7215	[7680, 3314]
1072	[1793, 1924]	3120	[537, 2702]	5168	[962, 1230]	7216	[7681, 3317]
1073	[1925, 1926]	3121	[4530, 2085]	5169	[3452, 3278]	7217	[1548, 3339]
1074	[1927, 1928]	3122	[4531, 4532]	5170	[6333, 3081]	7218	[3404, 5497]
1075	[1929, 1930]	3123	[4533, 1711]	5171	[1504, 5833]	7219	[7682, 1131]
1076	[1931, 1932]	3124	[4534, 2090]	5172	[6334, 5997]	7220	[7683, 1436]
1077	[1933, 1708]	3125	[4535, 219]	5173	[6335, 3589]	7221	[7684, 5608]
1078	[1934, 1935]	3126	[4536, 4537]	5174	[6336, 387]	7222	[6256, 489]
1079	[613, 1936]	3127	[4538, 4539]	5175	[6337, 1472]	7223	[7685, 3855]
1080	[1937, 1938]	3128	[4540, 145]	5176	[3279, 3783]	7224	[3167, 1211]
1081	[1939, 579]	3129	[4541, 2655]	5177	[6338, 117]	7225	[6522, 3200]
1082	[1940, 1941]	3130	[1840, 4542]	5178	[6339, 1514]	7226	[7686, 3635]
1083	[1942, 1943]	3131	[4543, 4529]	5179	[6340, 5961]	7227	[2929, 3237]
1084	[1916, 713]	3132	[4544, 2384]	5180	[6341, 6021]	7228	[7687, 71]
1085	[1944, 1945]	3133	[2174, 2734]	5181	[2886, 5618]	7229	[5664, 3233]
1086	[1946, 1947]	3134	[837, 4545]	5182	[6342, 4039]	7230	[7688, 3480]
1087	[1948, 834]	3135	[4546, 1799]	5183	[3252, 1205]	7231	[1113, 398]
1088	[1949, 1950]	3136	[4547, 598]	5184	[3738, 1157]	7232	[455, 3019]
1089	[1951, 1952]	3137	[889, 600]	5185	[5898, 5758]	7233	[7689, 3550]
1090	[1953, 1954]	3138	[4353, 4333]	5186	[3499, 3412]	7234	[7690, 1364]
1091	[1955, 723]	3139	[2143, 4409]	5187	[6343, 5833]	7235	[7691, 1657]
1092	[1956, 1957]	3140	[4548, 2754]	5188	[3607, 5536]	7236	[7692, 4011]
1093	[1958, 1959]	3141	[4549, 4320]	5189	[6344, 3230]	7237	[7693, 1417]
1094	[1960, 1961]	3142	[4550, 1756]	5190	[6345, 3213]	7238	[7694, 473]
1095	[1701, 535]	3143	[4551, 4552]	5191	[255, 6346]	7239	[7695, 1125]
1096	[1962, 495]	3144	[4553, 4554]	5192	[3879, 5915]	7240	[7696, 5824]
1097	[1963, 1964]	3145	[4555, 4556]	5193	[6347, 5686]	7241	[1624, 2925]
1098	[1965, 1966]	3146	[4557, 4558]	5194	[6348, 5846]	7242	[3707, 1447]
1099	[1967, 1968]	3147	[4559, 4560]	5195	[6349, 3413]	7243	[1401, 316]
1100	[1969, 1970]	3148	[4561, 4562]	5196	[6350, 3646]	7244	[7697, 1480]
1101	[1971, 1972]	3149	[4563, 926]	5197	[6351, 4106]	7245	[7698, 3000]
1102	[1973, 1974]	3150	[4564, 4565]	5198	[6352, 6035]	7246	[2958, 6223]
1103	[1975, 1976]	3151	[4566, 696]	5199	[6353, 1422]	7247	[7699, 2954]
1104	[1977, 1978]	3152	[156, 2085]	5200	[6354, 1585]	7248	[4134, 1332]
1105	[1979, 1746]	3153	[4567, 4568]	5201	[6355, 3177]	7249	[7700, 2792]
1106	[1980, 1743]	3154	[4569, 2072]	5202	[6356, 1095]	7250	[7701, 3091]
1107	[1981, 1963]	3155	[4570, 4571]	5203	[6357, 3816]	7251	[6161, 1486]
1108	[1982, 1983]	3156	[2583, 4572]	5204	[6358, 3915]	7252	[3065, 3002]
1109	[1984, 1985]	3157	[4573, 4574]	5205	[4018, 6359]	7253	[1419, 6260]

1110	[1986, 1987]	3158	[4575, 4408]	5206	[6360, 3454]	7254	[7702, 3290]
1111	[1988, 1989]	3159	[4576, 4433]	5207	[1358, 6287]	7255	[5990, 2840]
1112	[1990, 1991]	3160	[4337, 4577]	5208	[3835, 1119]	7256	[7703, 4016]
1113	[1992, 1993]	3161	[4578, 1996]	5209	[6361, 1073]	7257	[7704, 1425]
1114	[1994, 189]	3162	[4579, 144]	5210	[6362, 3240]	7258	[7705, 4094]
1115	[1995, 1996]	3163	[4207, 2710]	5211	[6363, 2915]	7259	[7706, 1224]
1116	[1997, 1998]	3164	[4580, 4581]	5212	[313, 5691]	7260	[7707, 354]
1117	[1999, 2000]	3165	[4582, 4583]	5213	[6364, 6365]	7261	[7708, 1459]
1118	[2001, 706]	3166	[4415, 4309]	5214	[6366, 1390]	7262	[1289, 335]
1119	[2002, 2003]	3167	[4584, 2372]	5215	[6367, 6368]	7263	[3349, 3157]
1120	[2004, 2005]	3168	[4585, 874]	5216	[6369, 1316]	7264	[7709, 1178]
1121	[2006, 2007]	3169	[4586, 2583]	5217	[1334, 1433]	7265	[7710, 285]
1122	[2008, 567]	3170	[1935, 4587]	5218	[3825, 2870]	7266	[7711, 1066]
1123	[2009, 2010]	3171	[2780, 4390]	5219	[1426, 3031]	7267	[7712, 4021]
1124	[2011, 2012]	3172	[4588, 890]	5220	[1434, 5862]	7268	[1218, 5799]
1125	[2013, 2014]	3173	[4589, 4204]	5221	[5778, 3313]	7269	[7713, 1175]
1126	[2015, 2016]	3174	[1900, 2638]	5222	[6288, 405]	7270	[7714, 2901]
1127	[2017, 1746]	3175	[4590, 1731]	5223	[406, 3820]	7271	[7715, 5075]
1128	[2018, 2019]	3176	[4171, 2596]	5224	[6370, 3035]	7272	[646, 867]
1129	[2020, 2021]	3177	[755, 1824]	5225	[3181, 112]	7273	[7716, 4442]
1130	[2022, 916]	3178	[4591, 892]	5226	[6371, 5554]	7274	[7717, 4684]
1131	[2023, 2024]	3179	[4592, 2327]	5227	[6372, 3704]	7275	[7718, 176]
1132	[2025, 2026]	3180	[4593, 620]	5228	[3511, 1298]	7276	[7719, 7720]
1133	[2027, 2028]	3181	[1688, 756]	5229	[6373, 4128]	7277	[6797, 6963]
1134	[2029, 2030]	3182	[4594, 791]	5230	[6374, 1189]	7278	[7721, 7722]
1135	[2031, 2032]	3183	[246, 4595]	5231	[6375, 1624]	7279	[7723, 2102]
1136	[2033, 1874]	3184	[4596, 2572]	5232	[3031, 3808]	7280	[7724, 6871]
1137	[2034, 2035]	3185	[2240, 2187]	5233	[6376, 1565]	7281	[7079, 7008]
1138	[8, 2036]	3186	[48, 4351]	5234	[6265, 348]	7282	[2176, 7249]
1139	[2037, 612]	3187	[4597, 4598]	5235	[6377, 5644]	7283	[7725, 4734]
1140	[2038, 877]	3188	[4599, 4600]	5236	[6378, 3799]	7284	[7726, 4704]
1141	[2039, 2040]	3189	[4601, 160]	5237	[6379, 1241]	7285	[7727, 2619]
1142	[2041, 532]	3190	[4328, 4602]	5238	[5663, 1142]	7286	[6753, 7258]
1143	[2042, 2043]	3191	[4603, 730]	5239	[3342, 6125]	7287	[2575, 4405]
1144	[2044, 2045]	3192	[4604, 736]	5240	[6380, 2999]	7288	[7728, 685]
1145	[2046, 2047]	3193	[4605, 4606]	5241	[1485, 3062]	7289	[6816, 7729]
1146	[2048, 2049]	3194	[4607, 4608]	5242	[955, 5979]	7290	[7730, 6992]
1147	[2050, 2051]	3195	[142, 4386]	5243	[6381, 1242]	7291	[7731, 2264]
1148	[713, 2052]	3196	[4609, 4610]	5244	[6382, 3458]	7292	[2369, 2304]
1149	[2053, 901]	3197	[4611, 2183]	5245	[3752, 1581]	7293	[7732, 4778]
1150	[2054, 2055]	3198	[2192, 2740]	5246	[5616, 6170]	7294	[7733, 575]
1151	[2056, 2057]	3199	[4612, 4613]	5247	[6383, 3709]	7295	[7734, 4463]
1152	[2058, 806]	3200	[4614, 4615]	5248	[6384, 1671]	7296	[4608, 4833]
1153	[1692, 2059]	3201	[2105, 4616]	5249	[6385, 6128]	7297	[7735, 50]

1154	[2060, 2061]	3202	[4617, 4618]	5250	[6386, 3286]	7298	[2504, 4639]
1155	[2062, 2063]	3203	[4619, 2641]	5251	[5690, 3937]	7299	[677, 2646]
1156	[876, 2064]	3204	[4620, 4621]	5252	[6387, 1382]	7300	[7736, 4202]
1157	[2065, 2066]	3205	[2690, 1685]	5253	[4067, 274]	7301	[7737, 7066]
1158	[2067, 2068]	3206	[4622, 900]	5254	[2962, 5657]	7302	[1978, 4949]
1159	[1983, 162]	3207	[850, 669]	5255	[3058, 5805]	7303	[1961, 2195]
1160	[2069, 2070]	3208	[4623, 4377]	5256	[5636, 3194]	7304	[4309, 511]
1161	[2071, 2072]	3209	[4624, 4345]	5257	[6388, 5691]	7305	[7738, 4333]
1162	[523, 831]	3210	[4625, 1882]	5258	[1635, 3182]	7306	[2448, 171]
1163	[2073, 2074]	3211	[4626, 899]	5259	[5870, 3218]	7307	[7739, 7027]
1164	[686, 2075]	3212	[4627, 4628]	5260	[6389, 301]	7308	[7740, 2600]
1165	[2076, 1919]	3213	[4629, 745]	5261	[4094, 6390]	7309	[1882, 6719]
1166	[2075, 1987]	3214	[4630, 4631]	5262	[3515, 3053]	7310	[6989, 2743]
1167	[854, 2077]	3215	[4632, 4444]	5263	[3572, 962]	7311	[6713, 6767]
1168	[1989, 2078]	3216	[4633, 2013]	5264	[1404, 1245]	7312	[5387, 7741]
1169	[2079, 2080]	3217	[4529, 2345]	5265	[3033, 3363]	7313	[7742, 4184]
1170	[2081, 2082]	3218	[4634, 2052]	5266	[6391, 3126]	7314	[2493, 7101]
1171	[2083, 2084]	3219	[4577, 2018]	5267	[6392, 1389]	7315	[7743, 6904]
1172	[2085, 875]	3220	[4635, 4636]	5268	[6393, 2893]	7316	[4515, 5394]
1173	[2086, 2087]	3221	[4637, 2757]	5269	[6394, 6005]	7317	[2415, 2663]
1174	[2088, 2089]	3222	[12, 4275]	5270	[6395, 3149]	7318	[4390, 2034]
1175	[2090, 2091]	3223	[4638, 4639]	5271	[6396, 6397]	7319	[172, 4198]
1176	[2092, 2093]	3224	[4640, 4493]	5272	[6398, 3198]	7320	[7744, 2727]
1177	[2094, 2095]	3225	[2149, 4419]	5273	[6399, 1217]	7321	[2385, 5150]
1178	[2096, 919]	3226	[4641, 4642]	5274	[3525, 5706]	7322	[7745, 1927]
1179	[2097, 10]	3227	[4643, 4644]	5275	[6400, 2854]	7323	[7746, 2444]
1180	[2098, 508]	3228	[4645, 1877]	5276	[6401, 1651]	7324	[7747, 2667]
1181	[771, 2099]	3229	[4646, 4477]	5277	[6402, 3320]	7325	[7748, 1973]
1182	[2100, 2101]	3230	[4647, 756]	5278	[5787, 1615]	7326	[4182, 6971]
1183	[2102, 2103]	3231	[4648, 4649]	5279	[6403, 3695]	7327	[6853, 7749]
1184	[2104, 2105]	3232	[4190, 1707]	5280	[6404, 126]	7328	[7750, 7123]
1185	[2106, 2107]	3233	[4650, 623]	5281	[6073, 3792]	7329	[7751, 733]
1186	[2108, 2086]	3234	[4651, 4652]	5282	[1043, 6405]	7330	[1896, 4851]
1187	[655, 2109]	3235	[2736, 1930]	5283	[5891, 5578]	7331	[7752, 5374]
1188	[2110, 839]	3236	[4653, 4654]	5284	[6406, 3182]	7332	[56, 4895]
1189	[2111, 220]	3237	[4655, 1757]	5285	[1066, 3715]	7333	[5378, 2477]
1190	[2112, 1982]	3238	[2411, 4656]	5286	[6407, 91]	7334	[1711, 2094]
1191	[2113, 924]	3239	[2413, 4657]	5287	[6408, 1264]	7335	[7753, 4798]
1192	[2059, 1832]	3240	[4658, 665]	5288	[6409, 3484]	7336	[7754, 2466]
1193	[2114, 1975]	3241	[4659, 2529]	5289	[6410, 3878]	7337	[4572, 6631]
1194	[2115, 1852]	3242	[4660, 2677]	5290	[5971, 410]	7338	[4758, 7755]
1195	[236, 2116]	3243	[4661, 898]	5291	[6411, 3245]	7339	[7756, 5011]
1196	[2117, 2118]	3244	[2756, 1914]	5292	[3018, 1156]	7340	[848, 5161]
1197	[2119, 2120]	3245	[4662, 4663]	5293	[118, 981]	7341	[4801, 2104]

1198	[2121, 601]	3246	[4664, 1972]	5294	[3470, 4039]	7342	[7757, 2201]
1199	[2122, 237]	3247	[2401, 1804]	5295	[3190, 3854]	7343	[1749, 845]
1200	[2123, 2124]	3248	[1869, 4665]	5296	[1240, 1025]	7344	[7758, 526]
1201	[2125, 2126]	3249	[4666, 2632]	5297	[6007, 3281]	7345	[2625, 2102]
1202	[2127, 1699]	3250	[1993, 1984]	5298	[6412, 5657]	7346	[7759, 5313]
1203	[2128, 2129]	3251	[4667, 2505]	5299	[4100, 6413]	7347	[7760, 171]
1204	[2130, 1976]	3252	[4631, 2213]	5300	[5900, 3093]	7348	[4558, 4441]
1205	[2131, 2132]	3253	[4668, 2497]	5301	[3241, 1482]	7349	[6624, 1841]
1206	[2133, 2134]	3254	[4669, 4670]	5302	[3021, 1398]	7350	[4992, 5001]
1207	[2135, 2136]	3255	[4671, 4672]	5303	[6414, 2957]	7351	[7761, 4294]
1208	[2137, 2138]	3256	[4673, 4674]	5304	[3075, 4075]	7352	[7762, 788]
1209	[2139, 2140]	3257	[4675, 2474]	5305	[5661, 5922]	7353	[499, 7074]
1210	[2141, 625]	3258	[4676, 4430]	5306	[6415, 3055]	7354	[6644, 6778]
1211	[2142, 2143]	3259	[4677, 4678]	5307	[3750, 1403]	7355	[7763, 1848]
1212	[2144, 2145]	3260	[4679, 4652]	5308	[3258, 3648]	7356	[7764, 6701]
1213	[543, 2146]	3261	[4680, 551]	5309	[3178, 6304]	7357	[4242, 6762]
1214	[2147, 688]	3262	[4681, 4682]	5310	[6416, 997]	7358	[2118, 836]
1215	[2148, 2149]	3263	[4683, 4562]	5311	[1111, 6176]	7359	[7765, 2237]
1216	[2150, 873]	3264	[4684, 1958]	5312	[6417, 365]	7360	[4277, 195]
1217	[2151, 2087]	3265	[4685, 4686]	5313	[6418, 3856]	7361	[7766, 217]
1218	[2152, 2153]	3266	[4687, 2005]	5314	[6419, 6084]	7362	[2381, 7767]
1219	[2154, 612]	3267	[1936, 1716]	5315	[6420, 6421]	7363	[7768, 2118]
1220	[2155, 1779]	3268	[4615, 604]	5316	[6422, 1486]	7364	[7769, 503]
1221	[1806, 2156]	3269	[4688, 4689]	5317	[6423, 3549]	7365	[7770, 2578]
1222	[2157, 2158]	3270	[4690, 4691]	5318	[3366, 3179]	7366	[4475, 5204]
1223	[32, 2159]	3271	[4678, 4692]	5319	[6424, 3904]	7367	[547, 5124]
1224	[34, 2160]	3272	[4693, 2481]	5320	[6425, 4059]	7368	[2749, 5267]
1225	[2161, 2162]	3273	[2392, 4694]	5321	[1591, 3653]	7369	[7771, 1841]
1226	[2163, 2164]	3274	[4695, 2416]	5322	[6426, 3291]	7370	[628, 4787]
1227	[2165, 2166]	3275	[4696, 4697]	5323	[6427, 3401]	7371	[4949, 4926]
1228	[2167, 2168]	3276	[651, 4698]	5324	[3465, 3262]	7372	[7772, 4769]
1229	[152, 2049]	3277	[4699, 4475]	5325	[6428, 343]	7373	[6553, 1860]
1230	[2169, 2019]	3278	[4700, 796]	5326	[6365, 2829]	7374	[2630, 7773]
1231	[1737, 929]	3279	[4701, 235]	5327	[3000, 5996]	7375	[7774, 4441]
1232	[2170, 888]	3280	[2238, 4669]	5328	[3387, 1421]	7376	[7775, 2598]
1233	[2171, 2062]	3281	[4702, 1755]	5329	[1439, 304]	7377	[6607, 5077]
1234	[2172, 1898]	3282	[564, 4330]	5330	[1055, 312]	7378	[5383, 7087]
1235	[2173, 2174]	3283	[2156, 538]	5331	[6429, 1065]	7379	[7776, 6895]
1236	[2175, 2176]	3284	[4703, 34]	5332	[6430, 2825]	7380	[7777, 6762]
1237	[2177, 2178]	3285	[4704, 4705]	5333	[1661, 1545]	7381	[7778, 6832]
1238	[2179, 2180]	3286	[4706, 2756]	5334	[6431, 6225]	7382	[511, 249]
1239	[2181, 1849]	3287	[250, 4707]	5335	[6432, 3127]	7383	[4891, 4500]
1240	[2182, 1686]	3288	[4708, 4709]	5336	[6433, 4088]	7384	[50, 5354]
1241	[2183, 2176]	3289	[2553, 4710]	5337	[6434, 996]	7385	[7779, 5455]

1242	[1966, 226]	3290	[4525, 4608]	5338	[6435, 118]	7386	[7780, 4826]
1243	[2184, 2185]	3291	[4711, 1842]	5339	[6436, 6250]	7387	[7781, 7013]
1244	[2186, 2187]	3292	[4712, 892]	5340	[5688, 3329]	7388	[7782, 4930]
1245	[2188, 2189]	3293	[665, 1748]	5341	[3351, 3129]	7389	[7783, 4964]
1246	[2190, 750]	3294	[4713, 4714]	5342	[3522, 5678]	7390	[4691, 2301]
1247	[2191, 2192]	3295	[4715, 4707]	5343	[399, 936]	7391	[7784, 6790]
1248	[2193, 763]	3296	[4716, 2721]	5344	[6346, 4112]	7392	[7785, 5443]
1249	[2194, 2195]	3297	[4717, 4691]	5345	[1128, 5809]	7393	[7786, 1725]
1250	[2196, 2197]	3298	[4718, 4719]	5346	[6437, 1397]	7394	[7787, 4399]
1251	[2198, 2199]	3299	[4720, 4721]	5347	[6438, 3732]	7395	[7788, 6768]
1252	[1910, 2200]	3300	[4722, 4723]	5348	[6439, 5573]	7396	[7789, 4938]
1253	[2201, 1738]	3301	[4724, 4725]	5349	[5499, 2894]	7397	[6920, 2347]
1254	[2202, 2203]	3302	[2550, 4726]	5350	[6440, 1198]	7398	[4428, 7171]
1255	[2204, 1813]	3303	[4727, 4728]	5351	[6441, 309]	7399	[4499, 5240]
1256	[2205, 625]	3304	[4729, 2278]	5352	[6442, 3222]	7400	[7790, 1817]
1257	[2206, 2207]	3305	[4730, 2657]	5353	[477, 3407]	7401	[7791, 6586]
1258	[2208, 2209]	3306	[2744, 2565]	5354	[6443, 6444]	7402	[7792, 2191]
1259	[2210, 2122]	3307	[4731, 2580]	5355	[6445, 396]	7403	[7793, 1790]
1260	[2211, 2212]	3308	[4732, 2046]	5356	[6446, 6312]	7404	[7794, 7183]
1261	[2213, 2214]	3309	[4733, 4734]	5357	[6447, 3146]	7405	[5395, 516]
1262	[2215, 2216]	3310	[4545, 4735]	5358	[6448, 3714]	7406	[2095, 1884]
1263	[2217, 763]	3311	[4736, 914]	5359	[1675, 3015]	7407	[1760, 2746]
1264	[2218, 242]	3312	[2445, 4737]	5360	[6449, 6450]	7408	[2316, 5444]
1265	[2219, 2220]	3313	[4738, 4739]	5361	[6451, 5661]	7409	[7795, 5306]
1266	[2221, 824]	3314	[4740, 1788]	5362	[3857, 6084]	7410	[2223, 1783]
1267	[2222, 2223]	3315	[4741, 2342]	5363	[6452, 3967]	7411	[7796, 7247]
1268	[2224, 660]	3316	[4742, 4743]	5364	[447, 3517]	7412	[7797, 859]
1269	[2225, 2226]	3317	[1921, 4514]	5365	[4127, 1134]	7413	[7798, 5189]
1270	[2227, 1777]	3318	[566, 2490]	5366	[6453, 5800]	7414	[5205, 5106]
1271	[2228, 251]	3319	[4744, 4745]	5367	[6454, 3277]	7415	[5073, 6814]
1272	[2229, 2230]	3320	[4746, 803]	5368	[391, 3895]	7416	[6681, 4743]
1273	[2231, 1850]	3321	[2365, 2784]	5369	[1266, 6455]	7417	[7799, 6926]
1274	[2232, 2233]	3322	[4747, 4748]	5370	[5936, 476]	7418	[745, 5135]
1275	[2234, 2235]	3323	[4749, 2761]	5371	[6456, 5564]	7419	[7800, 6735]
1276	[2236, 36]	3324	[2012, 1810]	5372	[18, 3746]	7420	[2052, 155]
1277	[2237, 784]	3325	[4750, 4751]	5373	[6457, 6458]	7421	[7801, 5129]
1278	[2145, 2238]	3326	[4752, 2303]	5374	[6459, 1134]	7422	[7802, 6695]
1279	[2239, 2240]	3327	[581, 2122]	5375	[6460, 5498]	7423	[2162, 1853]
1280	[1827, 2086]	3328	[4753, 4754]	5376	[6461, 1554]	7424	[7803, 2341]
1281	[2241, 2242]	3329	[2547, 4755]	5377	[6462, 403]	7425	[4430, 5434]
1282	[2243, 137]	3330	[4186, 1845]	5378	[1575, 2850]	7426	[240, 1710]
1283	[705, 2244]	3331	[4756, 876]	5379	[6463, 4013]	7427	[7804, 1884]
1284	[2245, 585]	3332	[4757, 4758]	5380	[5704, 5911]	7428	[7805, 6742]
1285	[800, 2246]	3333	[4759, 2691]	5381	[6464, 3900]	7429	[5479, 4284]

1286	[2247, 2248]	3334	[4342, 165]	5382	[6465, 6288]	7430	[698, 5119]
1287	[2249, 2250]	3335	[4760, 563]	5383	[6466, 3482]	7431	[4735, 1871]
1288	[2251, 2243]	3336	[4761, 2094]	5384	[3778, 1464]	7432	[7806, 4699]
1289	[2252, 650]	3337	[4762, 1953]	5385	[6467, 3319]	7433	[6743, 4437]
1290	[2253, 2254]	3338	[4763, 4764]	5386	[6468, 405]	7434	[7807, 7104]
1291	[197, 42]	3339	[4765, 4766]	5387	[6469, 3934]	7435	[234, 7226]
1292	[193, 2255]	3340	[772, 4556]	5388	[6470, 3940]	7436	[7808, 4488]
1293	[2256, 711]	3341	[4767, 911]	5389	[3374, 3592]	7437	[4926, 678]
1294	[2257, 2258]	3342	[4768, 4558]	5390	[6471, 3862]	7438	[4721, 524]
1295	[2259, 2023]	3343	[4769, 770]	5391	[6472, 2866]	7439	[791, 1906]
1296	[2260, 2081]	3344	[4770, 4771]	5392	[1099, 5864]	7440	[132, 5203]
1297	[2261, 2262]	3345	[4163, 4772]	5393	[6473, 5517]	7441	[6779, 2371]
1298	[2263, 928]	3346	[4773, 4774]	5394	[6474, 3116]	7442	[5265, 2669]
1299	[2264, 2265]	3347	[4775, 4582]	5395	[6475, 982]	7443	[5245, 6843]
1300	[2266, 1821]	3348	[4776, 33]	5396	[6368, 1347]	7444	[7809, 2278]
1301	[2267, 700]	3349	[589, 1750]	5397	[6476, 3972]	7445	[5230, 2190]
1302	[2268, 2269]	3350	[4777, 578]	5398	[6477, 3121]	7446	[7810, 5371]
1303	[2270, 2271]	3351	[4778, 4686]	5399	[6478, 1340]	7447	[4360, 2126]
1304	[2272, 888]	3352	[4779, 4780]	5400	[6479, 1173]	7448	[7811, 4536]
1305	[2051, 2273]	3353	[817, 553]	5401	[6480, 2888]	7449	[7812, 7741]
1306	[2274, 2275]	3354	[4781, 1817]	5402	[6481, 3693]	7450	[7813, 6853]
1307	[2276, 2277]	3355	[4782, 2752]	5403	[6482, 1223]	7451	[5313, 7078]
1308	[2278, 858]	3356	[1774, 1859]	5404	[6483, 6390]	7452	[5017, 5453]
1309	[2279, 2280]	3357	[4783, 236]	5405	[6484, 435]	7453	[2662, 5235]
1310	[2281, 2016]	3358	[4649, 2577]	5406	[294, 3934]	7454	[6960, 5199]
1311	[174, 2023]	3359	[4784, 1911]	5407	[6485, 6486]	7455	[6710, 2779]
1312	[2282, 2128]	3360	[4785, 4786]	5408	[6487, 5913]	7456	[7814, 871]
1313	[2283, 2284]	3361	[4787, 4729]	5409	[6488, 5990]	7457	[7815, 4913]
1314	[2285, 2286]	3362	[4788, 4359]	5410	[3079, 6489]	7458	[7816, 7079]
1315	[2287, 2288]	3363	[4440, 4775]	5411	[6131, 5498]	7459	[7817, 1786]
1316	[2289, 2290]	3364	[4789, 2591]	5412	[90, 3458]	7460	[5306, 4920]
1317	[2132, 695]	3365	[4790, 4791]	5413	[6490, 3667]	7461	[7818, 4575]
1318	[2291, 1846]	3366	[827, 4792]	5414	[6491, 6492]	7462	[7819, 6644]
1319	[2292, 2293]	3367	[4793, 1824]	5415	[6493, 379]	7463	[7820, 5339]
1320	[2294, 2295]	3368	[4794, 1828]	5416	[5828, 3370]	7464	[7821, 4198]
1321	[2296, 2297]	3369	[4795, 506]	5417	[6494, 5854]	7465	[4689, 7123]
1322	[2298, 248]	3370	[4796, 4797]	5418	[6495, 258]	7466	[7213, 5383]
1323	[2299, 2300]	3371	[4798, 2469]	5419	[4049, 2926]	7467	[7822, 4779]
1324	[2301, 2302]	3372	[4799, 2785]	5420	[3544, 5825]	7468	[1868, 721]
1325	[702, 2303]	3373	[556, 4800]	5421	[1101, 3221]	7469	[7823, 5485]
1326	[2304, 32]	3374	[558, 2665]	5422	[6496, 3857]	7470	[4461, 2202]
1327	[2305, 540]	3375	[4478, 4801]	5423	[3588, 6497]	7471	[7824, 5378]
1328	[615, 2306]	3376	[4802, 1998]	5424	[6498, 3246]	7472	[657, 2365]
1329	[2, 1973]	3377	[4803, 2713]	5425	[3614, 6007]	7473	[6666, 4864]

1330	[54, 793]	3378	[4804, 4805]	5426	[6499, 3408]	7474	[2473, 7128]
1331	[2307, 732]	3379	[4806, 35]	5427	[6500, 1152]	7475	[507, 5017]
1332	[2308, 661]	3380	[4807, 4808]	5428	[6501, 6502]	7476	[5412, 2163]
1333	[2309, 2310]	3381	[4809, 2484]	5429	[6503, 946]	7477	[2655, 4811]
1334	[2311, 2312]	3382	[4810, 4435]	5430	[330, 3357]	7478	[7825, 4718]
1335	[2313, 2314]	3383	[4811, 1892]	5431	[6504, 3162]	7479	[7826, 4544]
1336	[2315, 2316]	3384	[4812, 4813]	5432	[6505, 4031]	7480	[6968, 4676]
1337	[2317, 2318]	3385	[4814, 730]	5433	[6506, 1143]	7481	[7827, 2763]
1338	[2028, 2319]	3386	[4815, 4816]	5434	[6507, 5577]	7482	[7828, 4770]
1339	[2320, 2321]	3387	[4817, 802]	5435	[6508, 84]	7483	[7829, 5437]
1340	[2322, 2323]	3388	[2764, 4818]	5436	[6509, 322]	7484	[7830, 7249]
1341	[2324, 2325]	3389	[4819, 2228]	5437	[6510, 281]	7485	[4952, 6730]
1342	[2326, 1846]	3390	[4820, 2247]	5438	[5739, 5921]	7486	[7831, 4410]
1343	[2327, 2328]	3391	[4821, 1952]	5439	[5667, 6511]	7487	[7832, 7158]
1344	[620, 2329]	3392	[4822, 4823]	5440	[6512, 3075]	7488	[2374, 890]
1345	[2330, 238]	3393	[762, 768]	5441	[6513, 20]	7489	[7833, 155]
1346	[2331, 2332]	3394	[4824, 233]	5442	[6514, 19]	7490	[7834, 7835]
1347	[2333, 2334]	3395	[4373, 4458]	5443	[6515, 6147]	7491	[7836, 6851]
1348	[2335, 2336]	3396	[4205, 4825]	5444	[6516, 5513]	7492	[7247, 4399]
1349	[2337, 2338]	3397	[4826, 2687]	5445	[6517, 406]	7493	[5236, 7040]
1350	[138, 2339]	3398	[4827, 2439]	5446	[6518, 6519]	7494	[7837, 882]
1351	[2340, 1872]	3399	[4828, 4829]	5447	[2891, 6520]	7495	[7838, 4604]
1352	[2341, 2342]	3400	[136, 623]	5448	[1536, 5704]	7496	[248, 6911]
1353	[880, 2343]	3401	[870, 4745]	5449	[1133, 3761]	7497	[1766, 2096]
1354	[2344, 2345]	3402	[690, 2535]	5450	[3721, 5739]	7498	[4470, 5441]
1355	[2346, 2347]	3403	[4830, 4740]	5451	[6521, 3491]	7499	[7839, 5314]
1356	[2348, 2349]	3404	[4831, 519]	5452	[6146, 6522]	7500	[7840, 664]
1357	[2350, 2351]	3405	[4832, 2695]	5453	[6523, 3561]	7501	[7024, 2468]
1358	[2352, 2353]	3406	[4833, 2286]	5454	[6524, 3133]	7502	[7841, 4394]
1359	[2354, 778]	3407	[4834, 1698]	5455	[6525, 1273]	7503	[1831, 752]
1360	[2355, 644]	3408	[833, 4328]	5456	[4045, 5756]	7504	[7842, 6920]
1361	[2356, 2357]	3409	[4835, 1797]	5457	[6519, 2805]	7505	[743, 6914]
1362	[2358, 1806]	3410	[2683, 786]	5458	[6526, 3005]	7506	[7843, 5172]
1363	[2359, 626]	3411	[844, 706]	5459	[5997, 1182]	7507	[2195, 1941]
1364	[2360, 2361]	3412	[4836, 632]	5460	[1117, 6365]	7508	[529, 6926]
1365	[2362, 2363]	3413	[4837, 4663]	5461	[3877, 5583]	7509	[7844, 1866]
1366	[2364, 2365]	3414	[4838, 836]	5462	[6527, 3653]	7510	[4217, 859]
1367	[2366, 2106]	3415	[4839, 838]	5463	[6528, 2930]	7511	[7845, 6707]
1368	[2367, 2201]	3416	[4840, 2327]	5464	[5953, 3946]	7512	[7846, 4669]
1369	[2368, 2369]	3417	[4841, 44]	5465	[483, 2994]	7513	[2429, 4549]
1370	[2370, 544]	3418	[4842, 650]	5466	[6529, 3665]	7514	[7847, 4830]
1371	[2371, 2372]	3419	[2230, 2197]	5467	[2892, 989]	7515	[2407, 864]
1372	[2005, 610]	3420	[4843, 4206]	5468	[3973, 3704]	7516	[1923, 4612]
1373	[2373, 2374]	3421	[4844, 1970]	5469	[6530, 1228]	7517	[7848, 7006]

1374	[2375, 2170]	3422	[4813, 4845]	5470	[6299, 5520]	7518	[684, 5146]
1375	[2376, 2377]	3423	[4751, 1694]	5471	[5620, 3588]	7519	[6643, 5357]
1376	[2378, 2379]	3424	[4846, 2252]	5472	[6531, 3234]	7520	[7849, 4590]
1377	[2303, 2380]	3425	[4847, 4597]	5473	[3208, 1149]	7521	[5058, 6666]
1378	[521, 2381]	3426	[4848, 921]	5474	[6532, 5501]	7522	[7850, 1843]
1379	[760, 1992]	3427	[4849, 584]	5475	[416, 1284]	7523	[2752, 6735]
1380	[2382, 2136]	3428	[4850, 4563]	5476	[1186, 1117]	7524	[7851, 6664]
1381	[2383, 203]	3429	[4851, 4852]	5477	[1628, 3560]	7525	[4292, 2554]
1382	[2384, 2385]	3430	[4853, 1989]	5478	[6533, 1369]	7526	[6573, 2267]
1383	[2386, 1724]	3431	[4598, 4403]	5479	[6534, 274]	7527	[7852, 5033]
1384	[2387, 2388]	3432	[4854, 2261]	5480	[3654, 5849]	7528	[1836, 7009]
1385	[2389, 2390]	3433	[4855, 2471]	5481	[3527, 3778]	7529	[7853, 4538]
1386	[2391, 2392]	3434	[4743, 134]	5482	[3657, 5709]	7530	[4330, 129]
1387	[2393, 2394]	3435	[4856, 4375]	5483	[5521, 957]	7531	[4705, 7720]
1388	[2395, 2396]	3436	[4857, 4858]	5484	[3165, 6134]	7532	[7854, 7044]
1389	[2397, 2398]	3437	[4859, 2417]	5485	[6535, 1363]	7533	[7755, 4840]
1390	[2399, 2314]	3438	[4860, 2436]	5486	[6536, 2906]	7534	[5390, 4724]
1391	[2400, 2401]	3439	[4672, 4861]	5487	[6537, 6538]	7535	[4556, 6912]
1392	[2306, 2232]	3440	[4862, 2658]	5488	[3552, 292]	7536	[694, 2642]
1393	[2402, 881]	3441	[4863, 140]	5489	[2833, 1669]	7537	[6911, 5144]
1394	[2403, 2404]	3442	[549, 4227]	5490	[4033, 263]	7538	[4748, 5050]
1395	[2405, 139]	3443	[4864, 762]	5491	[6539, 3692]	7539	[7855, 6750]
1396	[2406, 2407]	3444	[4865, 2091]	5492	[451, 4067]	7540	[609, 7856]
1397	[2408, 2409]	3445	[4791, 2243]	5493	[6540, 3861]	7541	[622, 4452]
1398	[2410, 2411]	3446	[4554, 1732]	5494	[5126, 5154]	7542	[7857, 5322]
1399	[2412, 2413]	3447	[4866, 4867]	5495	[4386, 1831]	7543	[7858, 5469]
1400	[2414, 2415]	3448	[4868, 1832]	5496	[6541, 4710]	7544	[679, 4365]
1401	[2416, 616]	3449	[4869, 520]	5497	[6542, 4751]	7545	[2728, 7141]
1402	[2417, 580]	3450	[4870, 4326]	5498	[6543, 2117]	7546	[1764, 1927]
1403	[2418, 1869]	3451	[2730, 2416]	5499	[1847, 4499]	7547	[5303, 5469]
1404	[2419, 1880]	3452	[4871, 4872]	5500	[1887, 746]	7548	[7859, 904]
1405	[2420, 2421]	3453	[4873, 2445]	5501	[607, 143]	7549	[7860, 7152]
1406	[2422, 2168]	3454	[4874, 2613]	5502	[6544, 2096]	7550	[7861, 2543]
1407	[2423, 1944]	3455	[4875, 2162]	5503	[6545, 4240]	7551	[7862, 5210]
1408	[2424, 2425]	3456	[4876, 4877]	5504	[6546, 2748]	7552	[7863, 5199]
1409	[2426, 2427]	3457	[4878, 4239]	5505	[6547, 1924]	7553	[7864, 4898]
1410	[2428, 2429]	3458	[180, 4704]	5506	[5324, 5350]	7554	[7729, 6874]
1411	[2430, 2431]	3459	[182, 2117]	5507	[6548, 2166]	7555	[7865, 7226]
1412	[2432, 2063]	3460	[4170, 4879]	5508	[1906, 5437]	7556	[2084, 210]
1413	[2433, 2336]	3461	[4880, 2332]	5509	[4532, 767]	7557	[6862, 4978]
1414	[2434, 2435]	3462	[4881, 562]	5510	[6549, 2302]	7558	[7866, 206]
1415	[2436, 2368]	3463	[727, 4866]	5511	[6550, 5320]	7559	[1985, 1729]
1416	[2437, 2438]	3464	[4882, 2033]	5512	[1812, 4189]	7560	[6867, 4375]
1417	[2439, 2440]	3465	[4883, 1932]	5513	[6551, 631]	7561	[7867, 249]

1418	[2441, 645]	3466	[4884, 2017]	5514	[2713, 2015]	7562	[4297, 4886]
1419	[2442, 2443]	3467	[4885, 617]	5515	[6552, 6553]	7563	[5405, 2417]
1420	[2444, 2445]	3468	[4886, 698]	5516	[5051, 4956]	7564	[4351, 4826]
1421	[2446, 558]	3469	[585, 900]	5517	[741, 1703]	7565	[7125, 799]
1422	[2447, 2448]	3470	[4887, 4888]	5518	[6554, 4192]	7566	[7868, 4338]
1423	[2449, 2450]	3471	[4889, 4443]	5519	[6555, 6556]	7567	[7869, 7729]
1424	[2431, 2045]	3472	[4890, 4891]	5520	[6557, 4215]	7568	[1976, 4432]
1425	[2451, 207]	3473	[4764, 4892]	5521	[6558, 1889]	7569	[7870, 2475]
1426	[735, 2350]	3474	[4893, 726]	5522	[568, 4528]	7570	[7871, 848]
1427	[2452, 735]	3475	[4894, 185]	5523	[2325, 5069]	7571	[7872, 4853]
1428	[2453, 2454]	3476	[4895, 4896]	5524	[6559, 2385]	7572	[2318, 222]
1429	[2455, 2456]	3477	[4897, 718]	5525	[6560, 1951]	7573	[7873, 2617]
1430	[2457, 2352]	3478	[2641, 212]	5526	[6561, 6558]	7574	[7874, 7096]
1431	[208, 2458]	3479	[4898, 4899]	5527	[4845, 2289]	7575	[5441, 4953]
1432	[2459, 777]	3480	[4900, 2480]	5528	[6562, 5412]	7576	[7875, 5063]
1433	[2460, 781]	3481	[212, 4445]	5529	[2674, 4748]	7577	[5063, 6692]
1434	[2312, 2461]	3482	[4901, 4902]	5530	[6563, 164]	7578	[7234, 5385]
1435	[2462, 2463]	3483	[4903, 4904]	5531	[6564, 5324]	7579	[7876, 6719]
1436	[2456, 2453]	3484	[597, 4905]	5532	[6565, 725]	7580	[7835, 6834]
1437	[2353, 2455]	3485	[4654, 4718]	5533	[4606, 2644]	7581	[7877, 4737]
1438	[2464, 2465]	3486	[4906, 4907]	5534	[6566, 1974]	7582	[2235, 4629]
1439	[2466, 592]	3487	[4908, 4830]	5535	[6567, 2627]	7583	[7878, 4881]
1440	[1757, 2467]	3488	[4909, 2508]	5536	[6568, 2569]	7584	[6897, 5011]
1441	[2468, 801]	3489	[4910, 1768]	5537	[5268, 6569]	7585	[587, 5250]
1442	[2469, 2470]	3490	[4911, 1900]	5538	[6570, 5227]	7586	[4682, 6953]
1443	[191, 2471]	3491	[4912, 1690]	5539	[6571, 4417]	7587	[6906, 6919]
1444	[2472, 2473]	3492	[517, 4913]	5540	[6572, 2632]	7588	[1852, 5148]
1445	[2474, 2475]	3493	[4867, 4620]	5541	[2216, 6573]	7589	[7879, 6849]
1446	[2476, 2477]	3494	[4914, 4338]	5542	[6574, 2605]	7590	[5462, 2322]
1447	[2478, 1733]	3495	[4915, 4363]	5543	[5431, 5414]	7591	[5317, 6556]
1448	[2479, 2480]	3496	[4916, 4917]	5544	[2258, 2426]	7592	[2328, 4292]
1449	[2481, 1728]	3497	[4918, 2141]	5545	[2398, 4278]	7593	[7880, 7009]
1450	[2482, 522]	3498	[4232, 4798]	5546	[4304, 1948]	7594	[7881, 7882]
1451	[2483, 2484]	3499	[4919, 4722]	5547	[6575, 5204]	7595	[7883, 6776]
1452	[2485, 1959]	3500	[4920, 2422]	5548	[6576, 2075]	7596	[7884, 2646]
1453	[2486, 908]	3501	[4921, 2749]	5549	[6577, 4621]	7597	[7885, 6974]
1454	[2487, 2488]	3502	[4922, 4833]	5550	[6578, 4825]	7598	[7886, 4456]
1455	[2226, 586]	3503	[4923, 748]	5551	[6579, 4773]	7599	[4766, 5390]
1456	[2489, 1862]	3504	[4924, 686]	5552	[841, 2786]	7600	[7887, 4336]
1457	[2490, 2491]	3505	[4925, 4926]	5553	[6580, 2329]	7601	[5334, 2521]
1458	[2492, 2493]	3506	[2454, 4739]	5554	[1904, 1823]	7602	[5446, 7882]
1459	[2494, 2495]	3507	[4927, 1997]	5555	[6581, 847]	7603	[7888, 7759]
1460	[2496, 1964]	3508	[4928, 4929]	5556	[4726, 4242]	7604	[160, 717]
1461	[2497, 2498]	3509	[4930, 4931]	5557	[1704, 4322]	7605	[861, 6895]

1462	[2499, 2500]	3510	[4932, 4933]	5558	[4888, 4908]	7606	[7889, 4681]
1463	[2501, 2502]	3511	[4934, 4813]	5559	[6582, 4517]	7607	[2047, 2017]
1464	[2503, 2504]	3512	[4935, 4936]	5560	[6583, 4196]	7608	[7890, 5273]
1465	[2505, 2506]	3513	[4937, 49]	5561	[6584, 518]	7609	[7891, 7141]
1466	[2507, 2508]	3514	[2200, 4938]	5562	[6585, 693]	7610	[7892, 6681]
1467	[2509, 2097]	3515	[4939, 4600]	5563	[6586, 2071]	7611	[7893, 1969]
1468	[2510, 2511]	3516	[4940, 4379]	5564	[6587, 4620]	7612	[1820, 4699]
1469	[2512, 2513]	3517	[4941, 2650]	5565	[6588, 2690]	7613	[4734, 4644]
1470	[903, 2514]	3518	[4942, 855]	5566	[6589, 6590]	7614	[7894, 4886]
1471	[2515, 2218]	3519	[2199, 4943]	5567	[6591, 790]	7615	[7895, 6990]
1472	[2380, 2516]	3520	[2461, 777]	5568	[6592, 2289]	7616	[7896, 2735]
1473	[2517, 2518]	3521	[4944, 4945]	5569	[6593, 554]	7617	[2019, 2081]
1474	[2519, 565]	3522	[4946, 1957]	5570	[226, 178]	7618	[7897, 1691]
1475	[2254, 2520]	3523	[4947, 218]	5571	[6594, 4272]	7619	[4504, 4170]
1476	[2521, 35]	3524	[4948, 4949]	5572	[2596, 4313]	7620	[7898, 2687]
1477	[2522, 1750]	3525	[4950, 705]	5573	[6595, 2262]	7621	[7899, 7755]
1478	[2523, 2377]	3526	[4951, 4952]	5574	[5247, 58]	7622	[206, 5455]
1479	[2524, 517]	3527	[4953, 4891]	5575	[6596, 2104]	7623	[7900, 6914]
1480	[2525, 2526]	3528	[4954, 1899]	5576	[6597, 4554]	7624	[7901, 4814]
1481	[2527, 2203]	3529	[4955, 2116]	5577	[6598, 2232]	7625	[7902, 7240]
1482	[2528, 2107]	3530	[2043, 4209]	5578	[6599, 4360]	7626	[901, 2505]
1483	[2529, 884]	3531	[4956, 504]	5579	[4613, 2425]	7627	[7903, 2190]
1484	[2530, 1725]	3532	[4957, 1958]	5580	[683, 5369]	7628	[7720, 2738]
1485	[2531, 2516]	3533	[4958, 2465]	5581	[6600, 4197]	7629	[168, 5164]
1486	[2532, 493]	3534	[4959, 2241]	5582	[6601, 4572]	7630	[4698, 5033]
1487	[2533, 2035]	3535	[2273, 4960]	5583	[6602, 4682]	7631	[7904, 2109]
1488	[2534, 2535]	3536	[4961, 4962]	5584	[6603, 56]	7632	[7905, 878]
1489	[2425, 565]	3537	[601, 2723]	5585	[6604, 5386]	7633	[681, 2133]
1490	[2536, 55]	3538	[4963, 912]	5586	[6605, 4771]	7634	[7906, 656]
1491	[2537, 2470]	3539	[1932, 4964]	5587	[6606, 4900]	7635	[2284, 927]
1492	[2538, 2539]	3540	[2021, 4282]	5588	[2732, 6607]	7636	[7907, 1948]
1493	[2540, 2541]	3541	[4929, 4434]	5589	[6608, 4633]	7637	[7773, 2543]
1494	[2542, 2413]	3542	[4965, 1975]	5590	[6609, 2318]	7638	[7908, 2054]
1495	[2543, 870]	3543	[4966, 4415]	5591	[140, 4709]	7639	[2645, 5356]
1496	[2544, 2545]	3544	[2785, 4552]	5592	[4943, 5379]	7640	[4642, 5398]
1497	[2546, 2547]	3545	[707, 2415]	5593	[6569, 664]	7641	[1694, 2675]
1498	[2548, 2042]	3546	[4967, 2367]	5594	[2255, 4858]	7642	[7882, 2666]
1499	[2549, 2279]	3547	[753, 2009]	5595	[6610, 4252]	7643	[7066, 6707]
1500	[176, 2550]	3548	[4968, 60]	5596	[6611, 845]	7644	[2698, 5472]
1501	[2551, 2273]	3549	[4969, 4970]	5597	[6612, 6613]	7645	[7909, 4848]
1502	[2552, 2553]	3550	[2049, 2598]	5598	[4858, 217]	7646	[7910, 2430]
1503	[2554, 2435]	3551	[4971, 881]	5599	[6614, 1960]	7647	[7911, 1835]
1504	[2555, 2290]	3552	[4972, 172]	5600	[6615, 6616]	7648	[5486, 2444]
1505	[2556, 2557]	3553	[4973, 4974]	5601	[6617, 2765]	7649	[7912, 7109]

1506	[2558, 2559]	3554	[4975, 642]	5602	[4771, 4570]	7650	[4780, 2025]
1507	[2560, 2491]	3555	[4976, 4792]	5603	[6618, 4358]	7651	[6664, 7725]
1508	[2140, 2209]	3556	[4977, 893]	5604	[6619, 1961]	7652	[1796, 7147]
1509	[2561, 2562]	3557	[4978, 2789]	5605	[2427, 2193]	7653	[7913, 4432]
1510	[1787, 2563]	3558	[4979, 4912]	5606	[6620, 5438]	7654	[6695, 6832]
1511	[2564, 2565]	3559	[4980, 4981]	5607	[6621, 2670]	7655	[7914, 5357]
1512	[128, 2566]	3560	[4982, 4293]	5608	[2394, 739]	7656	[7240, 5062]
1513	[2567, 192]	3561	[4983, 4984]	5609	[2323, 4593]	7657	[2725, 7071]
1514	[2568, 2569]	3562	[4985, 513]	5610	[4477, 6622]	7658	[7915, 4750]
1515	[2570, 1704]	3563	[2036, 2603]	5611	[6623, 156]	7659	[513, 852]
1516	[2293, 1953]	3564	[4986, 4457]	5612	[6556, 5091]	7660	[7916, 5035]
1517	[2571, 550]	3565	[4987, 4988]	5613	[2629, 2757]	7661	[7917, 4342]
1518	[2572, 2573]	3566	[4984, 1886]	5614	[4417, 6624]	7662	[6810, 6856]
1519	[2574, 2575]	3567	[4989, 2384]	5615	[6625, 6626]	7663	[134, 2557]
1520	[2576, 2577]	3568	[4692, 4304]	5616	[6627, 795]	7664	[7918, 5180]
1521	[2578, 2153]	3569	[2093, 532]	5617	[6628, 516]	7665	[7919, 7099]
1522	[2579, 2580]	3570	[4209, 2144]	5618	[6629, 1695]	7666	[6886, 5386]
1523	[1844, 2581]	3571	[2638, 4990]	5619	[6630, 6631]	7667	[560, 4578]
1524	[2582, 2583]	3572	[2640, 157]	5620	[6632, 1781]	7668	[7920, 4461]
1525	[2584, 2253]	3573	[4991, 2597]	5621	[5104, 5193]	7669	[7921, 4483]
1526	[2585, 197]	3574	[2471, 4992]	5622	[6633, 4302]	7670	[7922, 5085]
1527	[2586, 2587]	3575	[4993, 4254]	5623	[195, 6634]	7671	[6715, 4261]
1528	[2588, 1871]	3576	[2513, 4640]	5624	[6635, 2514]	7672	[7923, 4476]
1529	[2589, 2590]	3577	[4994, 505]	5625	[866, 2582]	7673	[4933, 4604]
1530	[2319, 2591]	3578	[4995, 4657]	5626	[6636, 5363]	7674	[7924, 4879]
1531	[2592, 2593]	3579	[4996, 2636]	5627	[2717, 5195]	7675	[7722, 2705]
1532	[2594, 174]	3580	[4997, 2105]	5628	[6637, 6627]	7676	[7925, 7078]
1533	[2595, 2596]	3581	[4998, 2773]	5629	[6638, 1692]	7677	[6979, 7132]
1534	[1947, 2597]	3582	[4999, 2363]	5630	[1998, 6639]	7678	[5091, 7835]
1535	[2598, 683]	3583	[5000, 4845]	5631	[6640, 6641]	7679	[1991, 685]
1536	[2599, 681]	3584	[2032, 1949]	5632	[6642, 2255]	7680	[7926, 1826]
1537	[2600, 880]	3585	[5001, 5002]	5633	[1859, 6643]	7681	[1739, 4854]
1538	[2421, 2191]	3586	[5002, 2759]	5634	[829, 2383]	7682	[4852, 4381]
1539	[2601, 529]	3587	[5003, 2787]	5635	[1814, 4299]	7683	[4496, 7927]
1540	[2602, 2603]	3588	[5004, 1758]	5636	[2089, 591]	7684	[7928, 5375]
1541	[2604, 2581]	3589	[4537, 4984]	5637	[4697, 4797]	7685	[4468, 6776]
1542	[896, 2605]	3590	[5005, 726]	5638	[891, 240]	7686	[7929, 2165]
1543	[2606, 600]	3591	[5006, 2025]	5639	[4184, 6644]	7687	[807, 145]
1544	[2607, 2240]	3592	[5007, 679]	5640	[4522, 4642]	7688	[7930, 5360]
1545	[2608, 884]	3593	[5008, 5009]	5641	[539, 4473]	7689	[4433, 7759]
1546	[2609, 2610]	3594	[4970, 572]	5642	[6645, 6646]	7690	[7741, 720]
1547	[2611, 40]	3595	[4754, 4728]	5643	[6647, 182]	7691	[2295, 7026]
1548	[2612, 2613]	3596	[5010, 1791]	5644	[6648, 1845]	7692	[7931, 4545]
1549	[2614, 2529]	3597	[5011, 1955]	5645	[6649, 4171]	7693	[7932, 4640]

1550	[2580, 2615]	3598	[5012, 43]	5646	[6650, 753]	7694	[7933, 1992]
1551	[2616, 2617]	3599	[5013, 45]	5647	[6651, 4665]	7695	[7934, 2015]
1552	[2618, 232]	3600	[5014, 2319]	5648	[2769, 5121]	7696	[7935, 2648]
1553	[926, 2619]	3601	[5015, 234]	5649	[4663, 5053]	7697	[2242, 4553]
1554	[2620, 2621]	3602	[5016, 5017]	5650	[1857, 894]	7698	[2286, 153]
1555	[242, 849]	3603	[1930, 2283]	5651	[6652, 1780]	7699	[7936, 59]
1556	[2622, 2623]	3604	[5018, 2248]	5652	[6653, 1984]	7700	[7937, 7725]
1557	[2624, 2625]	3605	[4370, 2761]	5653	[6654, 5424]	7701	[2248, 645]
1558	[2626, 1968]	3606	[4571, 2626]	5654	[6655, 4725]	7702	[6971, 4889]
1559	[2627, 230]	3607	[4574, 2338]	5655	[6656, 4232]	7703	[7938, 647]
1560	[2628, 2629]	3608	[2470, 4522]	5656	[6657, 5236]	7704	[7258, 2310]
1561	[1872, 2630]	3609	[5019, 4245]	5657	[6658, 4656]	7705	[4442, 5375]
1562	[2342, 2631]	3610	[2700, 5020]	5658	[6659, 592]	7706	[7939, 2008]
1563	[2632, 2546]	3611	[2495, 5021]	5659	[4401, 5142]	7707	[4931, 687]
1564	[2633, 250]	3612	[5022, 1737]	5660	[5114, 4233]	7708	[218, 4463]
1565	[2290, 2530]	3613	[5023, 4192]	5661	[6660, 622]	7709	[7940, 6753]
1566	[2634, 2635]	3614	[5024, 4370]	5662	[6661, 4698]	7710	[7941, 6934]
1567	[2636, 2101]	3615	[5025, 4905]	5663	[6662, 4774]	7711	[5227, 6915]
1568	[2637, 2638]	3616	[4587, 4678]	5664	[6663, 621]	7712	[7942, 6897]
1569	[2639, 2640]	3617	[5026, 4434]	5665	[210, 6664]	7713	[4265, 4753]
1570	[715, 2641]	3618	[4306, 5027]	5666	[809, 666]	7714	[7943, 4935]
1571	[2642, 690]	3619	[5028, 4694]	5667	[1716, 5484]	7715	[7944, 3566]
1572	[2643, 856]	3620	[4542, 4970]	5668	[2103, 4281]	7716	[7945, 2872]
1573	[2644, 2645]	3621	[5029, 1985]	5669	[6665, 6666]	7717	[7946, 5912]
1574	[2646, 2647]	3622	[5030, 4602]	5670	[6667, 1894]	7718	[3045, 66]
1575	[2648, 2649]	3623	[5031, 2592]	5671	[835, 2004]	7719	[271, 959]
1576	[2126, 2650]	3624	[5032, 2213]	5672	[6668, 635]	7720	[7947, 3159]
1577	[1987, 2651]	3625	[5033, 4440]	5673	[6669, 2328]	7721	[7948, 3537]
1578	[2652, 2047]	3626	[187, 1875]	5674	[2082, 5431]	7722	[7949, 434]
1579	[2653, 2654]	3627	[5034, 580]	5675	[6670, 251]	7723	[1531, 3379]
1580	[1707, 2655]	3628	[1821, 4231]	5676	[819, 6627]	7724	[7950, 4153]
1581	[2656, 2657]	3629	[4247, 5035]	5677	[1726, 4601]	7725	[7951, 6287]
1582	[2658, 2659]	3630	[5036, 5037]	5678	[6671, 695]	7726	[3047, 5507]
1583	[2660, 680]	3631	[5038, 2726]	5679	[6672, 2371]	7727	[6044, 1327]
1584	[2661, 2662]	3632	[5039, 4231]	5680	[6616, 732]	7728	[1392, 1273]
1585	[2663, 2000]	3633	[5040, 2]	5681	[2435, 1864]	7729	[7952, 2885]
1586	[2664, 2665]	3634	[5041, 2451]	5682	[6673, 4188]	7730	[5608, 1463]
1587	[2666, 2662]	3635	[5042, 2495]	5683	[6674, 2412]	7731	[3169, 3135]
1588	[2667, 231]	3636	[5043, 2184]	5684	[4568, 2288]	7732	[7953, 3406]
1589	[2668, 2467]	3637	[4644, 191]	5685	[2024, 4466]	7733	[7954, 1580]
1590	[2669, 758]	3638	[5044, 5045]	5686	[6675, 837]	7734	[4028, 407]
1591	[2670, 2671]	3639	[5046, 2457]	5687	[6676, 4515]	7735	[3213, 5590]
1592	[2672, 701]	3640	[5047, 2350]	5688	[6677, 6622]	7736	[1150, 934]
1593	[2673, 2674]	3641	[2388, 1883]	5689	[1874, 1753]	7737	[3832, 3215]

1594	[2675, 2400]	3642	[4493, 2003]	5690	[591, 1876]	7738	[7955, 3366]
1595	[2676, 2306]	3643	[5048, 5049]	5691	[6678, 4378]	7739	[7956, 5616]
1596	[2677, 2678]	3644	[1854, 501]	5692	[6679, 2554]	7740	[3985, 1592]
1597	[2679, 150]	3645	[5050, 5051]	5693	[6680, 2400]	7741	[7957, 7396]
1598	[2680, 545]	3646	[2302, 550]	5694	[663, 6681]	7742	[3852, 478]
1599	[2681, 903]	3647	[5052, 5053]	5695	[6682, 2261]	7743	[7958, 3181]
1600	[2321, 2682]	3648	[5054, 2539]	5696	[4904, 5319]	7744	[7959, 1076]
1601	[930, 2683]	3649	[5055, 5056]	5697	[6683, 4491]	7745	[7960, 2956]
1602	[2684, 2611]	3650	[5057, 5058]	5698	[4639, 2090]	7746	[7961, 5521]
1603	[2377, 2612]	3651	[5059, 2573]	5699	[4583, 911]	7747	[6099, 3448]
1604	[2685, 2686]	3652	[2758, 1933]	5700	[6684, 6685]	7748	[7962, 2813]
1605	[2687, 2228]	3653	[5060, 5061]	5701	[4960, 2673]	7749	[7963, 6216]
1606	[2688, 1819]	3654	[5062, 180]	5702	[747, 6554]	7750	[7964, 1022]
1607	[2689, 2690]	3655	[4938, 5063]	5703	[2087, 5322]	7751	[7965, 3345]
1608	[2518, 2691]	3656	[5064, 2642]	5704	[6686, 5340]	7752	[1537, 1569]
1609	[2692, 2509]	3657	[5065, 5066]	5705	[6687, 6688]	7753	[1534, 255]
1610	[2693, 2018]	3658	[1745, 183]	5706	[6689, 2254]	7754	[7966, 3988]
1611	[2694, 2695]	3659	[545, 2316]	5707	[5170, 4247]	7755	[7967, 3660]
1612	[2696, 2689]	3660	[5067, 1856]	5708	[6690, 4559]	7756	[7968, 3810]
1613	[2697, 2698]	3661	[5068, 4255]	5709	[6691, 2071]	7757	[2957, 6444]
1614	[2699, 2700]	3662	[2650, 2587]	5710	[5066, 2128]	7758	[2880, 1000]
1615	[2701, 2702]	3663	[5069, 1780]	5711	[6692, 4930]	7759	[7969, 6413]
1616	[2703, 2502]	3664	[5070, 2674]	5712	[6693, 2402]	7760	[3391, 3389]
1617	[2704, 2705]	3665	[5071, 2335]	5713	[6694, 142]	7761	[4153, 5971]
1618	[2706, 2055]	3666	[5072, 5073]	5714	[1970, 54]	7762	[7970, 5563]
1619	[2707, 2708]	3667	[2751, 5074]	5715	[2776, 6695]	7763	[7971, 3620]
1620	[2709, 2710]	3668	[1938, 2409]	5716	[6696, 4310]	7764	[3051, 5870]
1621	[2711, 2160]	3669	[5075, 2689]	5717	[6697, 5020]	7765	[7972, 1440]
1622	[2712, 2713]	3670	[5076, 1933]	5718	[6698, 915]	7766	[7973, 2807]
1623	[2714, 573]	3671	[5077, 2585]	5719	[6699, 5428]	7767	[7974, 5911]
1624	[1890, 2715]	3672	[5078, 1709]	5720	[6700, 2498]	7768	[7376, 1233]
1625	[2702, 2027]	3673	[5079, 4896]	5721	[5198, 4376]	7769	[7975, 5992]
1626	[2716, 2717]	3674	[4455, 2448]	5722	[6701, 4597]	7770	[4107, 3444]
1627	[2718, 2719]	3675	[5080, 2493]	5723	[739, 4563]	7771	[7976, 110]
1628	[2720, 671]	3676	[5081, 5005]	5724	[4792, 4773]	7772	[5713, 4084]
1629	[2705, 608]	3677	[5082, 922]	5725	[6702, 4775]	7773	[7977, 3047]
1630	[2721, 2247]	3678	[4313, 5083]	5726	[6703, 4163]	7774	[1021, 5759]
1631	[2603, 658]	3679	[5084, 610]	5727	[6704, 813]	7775	[1678, 4030]
1632	[2722, 2723]	3680	[5085, 2629]	5728	[6705, 4735]	7776	[5865, 3390]
1633	[846, 1931]	3681	[5086, 4612]	5729	[4829, 2]	7777	[7978, 3612]
1634	[2724, 2725]	3682	[1954, 603]	5730	[6706, 538]	7778	[7979, 1542]
1635	[2726, 246]	3683	[5087, 1865]	5731	[6707, 4206]	7779	[7980, 321]
1636	[723, 847]	3684	[5088, 769]	5732	[4382, 6708]	7780	[3638, 1682]
1637	[2727, 2728]	3685	[2300, 2379]	5733	[6709, 2234]	7781	[3926, 1488]

1638	[2729, 2730]	3686	[5089, 1851]	5734	[640, 6710]	7782	[7981, 284]
1639	[2731, 2732]	3687	[5090, 5091]	5735	[144, 2276]	7783	[3992, 3864]
1640	[2733, 2734]	3688	[5092, 747]	5736	[6711, 752]	7784	[7982, 1325]
1641	[2735, 809]	3689	[5093, 5094]	5737	[6712, 6713]	7785	[1238, 1258]
1642	[2334, 2736]	3690	[776, 780]	5738	[6714, 6715]	7786	[1620, 2853]
1643	[2737, 2738]	3691	[5095, 2461]	5739	[6716, 2180]	7787	[7983, 3385]
1644	[1718, 655]	3692	[5094, 5041]	5740	[6717, 2156]	7788	[6095, 283]
1645	[2739, 2740]	3693	[5096, 5097]	5741	[4714, 2688]	7789	[3215, 1458]
1646	[2741, 1721]	3694	[780, 775]	5742	[6718, 4212]	7790	[7984, 1372]
1647	[2742, 2683]	3695	[778, 5098]	5743	[4517, 584]	7791	[290, 5549]
1648	[2743, 2744]	3696	[2458, 5099]	5744	[6719, 4367]	7792	[2857, 1584]
1649	[2745, 2746]	3697	[5100, 5101]	5745	[831, 5273]	7793	[7985, 4137]
1650	[2747, 1910]	3698	[5102, 2454]	5746	[6720, 1829]	7794	[7986, 1534]
1651	[2748, 2749]	3699	[5103, 5104]	5747	[6721, 6722]	7795	[3548, 1532]
1652	[2750, 2751]	3700	[2695, 4722]	5748	[6723, 6724]	7796	[3152, 3275]
1653	[2064, 2752]	3701	[5105, 4277]	5749	[6725, 2469]	7797	[5955, 6131]
1654	[2753, 710]	3702	[5106, 5107]	5750	[6726, 6692]	7798	[7987, 2838]
1655	[2057, 2754]	3703	[2613, 5108]	5751	[6727, 1962]	7799	[6538, 2965]
1656	[2755, 2756]	3704	[5109, 4899]	5752	[729, 5209]	7800	[7988, 3999]
1657	[1972, 2443]	3705	[5110, 2510]	5753	[6728, 2681]	7801	[7989, 1307]
1658	[2757, 774]	3706	[5111, 4892]	5754	[6729, 628]	7802	[1397, 6147]
1659	[2180, 2758]	3707	[4424, 152]	5755	[2621, 4877]	7803	[5550, 3755]
1660	[2759, 2390]	3708	[5112, 748]	5756	[5398, 2748]	7804	[2854, 3089]
1661	[1928, 2216]	3709	[5113, 5114]	5757	[6730, 6613]	7805	[6020, 3305]
1662	[2760, 2530]	3710	[5115, 5116]	5758	[6731, 599]	7806	[4080, 1222]
1663	[2761, 2762]	3711	[5117, 2064]	5759	[6732, 6733]	7807	[332, 3168]
1664	[2763, 2764]	3712	[5118, 5119]	5760	[58, 5049]	7808	[5859, 3931]
1665	[2765, 2766]	3713	[5120, 5121]	5761	[6734, 243]	7809	[7990, 1089]
1666	[2767, 1947]	3714	[62, 5066]	5762	[6735, 2562]	7810	[7991, 5690]
1667	[2768, 2769]	3715	[5122, 2715]	5763	[2030, 5277]	7811	[1158, 5841]
1668	[2770, 2014]	3716	[531, 1785]	5764	[6736, 2077]	7812	[7992, 6085]
1669	[2771, 2242]	3717	[5123, 5124]	5765	[6737, 2647]	7813	[7993, 3694]
1670	[2772, 2490]	3718	[5125, 5126]	5766	[6738, 2429]	7814	[3056, 1578]
1671	[2773, 2774]	3719	[5127, 1921]	5767	[4284, 2199]	7815	[72, 3229]
1672	[2775, 2776]	3720	[5128, 4384]	5768	[6739, 1893]	7816	[7994, 1429]
1673	[2777, 2778]	3721	[5129, 2066]	5769	[6740, 4238]	7817	[6497, 1560]
1674	[2779, 1862]	3722	[5130, 46]	5770	[6741, 502]	7818	[964, 4026]
1675	[2124, 2780]	3723	[5131, 2751]	5771	[6742, 5371]	7819	[7995, 3132]
1676	[2781, 2301]	3724	[1758, 2699]	5772	[863, 2374]	7820	[7996, 2799]
1677	[2782, 581]	3725	[5132, 5108]	5773	[2475, 6743]	7821	[3884, 3441]
1678	[2783, 1926]	3726	[1801, 1741]	5774	[501, 5157]	7822	[108, 4060]
1679	[2784, 2785]	3727	[5133, 2129]	5775	[5292, 1835]	7823	[1264, 2944]
1680	[2786, 1838]	3728	[5134, 4168]	5776	[6744, 2651]	7824	[449, 2912]
1681	[2787, 2658]	3729	[5135, 743]	5777	[6745, 6564]	7825	[7997, 1576]

1682	[2788, 2789]	3730	[5136, 2504]	5778	[6746, 2351]	7826	[5659, 3737]
1683	[2790, 2776]	3731	[5137, 4570]	5779	[6747, 4854]	7827	[7998, 4139]
1684	[2791, 885]	3732	[5119, 4204]	5780	[6748, 574]	7828	[4004, 5513]
1685	[2792, 2793]	3733	[2269, 817]	5781	[170, 4610]	7829	[7999, 2993]
1686	[2794, 2795]	3734	[1783, 4697]	5782	[6749, 6750]	7830	[3455, 5603]
1687	[1009, 2796]	3735	[5138, 5139]	5783	[6751, 653]	7831	[8000, 5985]
1688	[2797, 1119]	3736	[5140, 768]	5784	[6722, 5089]	7832	[8001, 1090]
1689	[2798, 1191]	3737	[5141, 2671]	5785	[2134, 6752]	7833	[3237, 5595]
1690	[1162, 2799]	3738	[5142, 2067]	5786	[6724, 6753]	7834	[8002, 2997]
1691	[2800, 413]	3739	[5143, 2283]	5787	[6754, 2703]	7835	[8003, 6042]
1692	[2801, 2802]	3740	[5144, 549]	5788	[6755, 6643]	7836	[3297, 1099]
1693	[2803, 2804]	3741	[2153, 2507]	5789	[6756, 138]	7837	[8004, 3349]
1694	[2805, 2806]	3742	[5145, 204]	5790	[1838, 1763]	7838	[2975, 1360]
1695	[1413, 2807]	3743	[5146, 2084]	5791	[6757, 4956]	7839	[6201, 5573]
1696	[2808, 17]	3744	[5147, 5148]	5792	[6758, 835]	7840	[8005, 3029]
1697	[2809, 2810]	3745	[5149, 5150]	5793	[6759, 2082]	7841	[8006, 4051]
1698	[2811, 1660]	3746	[5151, 2585]	5794	[1789, 6760]	7842	[8007, 78]
1699	[2812, 2813]	3747	[38, 662]	5795	[6761, 4861]	7843	[3445, 3899]
1700	[2814, 315]	3748	[2498, 5152]	5796	[130, 4898]	7844	[8008, 1291]
1701	[2815, 2816]	3749	[5153, 5154]	5797	[6762, 2223]	7845	[8009, 3273]
1702	[98, 2817]	3750	[5155, 2419]	5798	[6733, 2614]	7846	[3305, 1204]
1703	[2818, 2819]	3751	[5156, 2362]	5799	[6763, 2566]	7847	[8010, 3004]
1704	[2820, 2821]	3752	[1804, 5045]	5800	[6764, 586]	7848	[3887, 3580]
1705	[2822, 2823]	3753	[5157, 607]	5801	[5203, 6722]	7849	[8011, 2861]
1706	[1342, 2824]	3754	[4670, 4914]	5802	[2280, 1721]	7850	[5618, 3025]
1707	[2825, 2826]	3755	[5158, 801]	5803	[5350, 643]	7851	[8012, 3178]
1708	[2827, 2828]	3756	[2372, 43]	5804	[5363, 4822]	7852	[1415, 98]
1709	[2829, 2830]	3757	[232, 5159]	5805	[6765, 4800]	7853	[1395, 6256]
1710	[2831, 1347]	3758	[2605, 4672]	5806	[6766, 6767]	7854	[3028, 5548]
1711	[2832, 2833]	3759	[5160, 5161]	5807	[6768, 6553]	7855	[8013, 1549]
1712	[2834, 1616]	3760	[5162, 5080]	5808	[6769, 2009]	7856	[8014, 1208]
1713	[2835, 2836]	3761	[5163, 2506]	5809	[6770, 920]	7857	[4054, 1513]
1714	[2837, 1205]	3762	[5164, 729]	5810	[6771, 4683]	7858	[8015, 1226]
1715	[2838, 2839]	3763	[5165, 1909]	5811	[6772, 165]	7859	[8016, 2826]
1716	[2840, 2841]	3764	[4263, 4384]	5812	[6773, 6634]	7860	[8017, 3165]
1717	[2842, 1219]	3765	[1926, 5104]	5813	[6774, 5284]	7861	[8018, 1574]
1718	[2843, 266]	3766	[5166, 4193]	5814	[6775, 2523]	7862	[6421, 123]
1719	[379, 1048]	3767	[653, 4357]	5815	[6776, 4306]	7863	[8019, 270]
1720	[2844, 1052]	3768	[5167, 2321]	5816	[6777, 5083]	7864	[4056, 5496]
1721	[2845, 2846]	3769	[5168, 662]	5817	[6778, 2592]	7865	[1451, 5720]
1722	[2847, 2848]	3770	[5169, 5170]	5818	[675, 6779]	7866	[8020, 3120]
1723	[2849, 2850]	3771	[5171, 568]	5819	[6780, 1700]	7867	[8021, 5574]
1724	[275, 2851]	3772	[5172, 4581]	5820	[599, 4416]	7868	[8022, 2896]
1725	[2852, 121]	3773	[749, 2466]	5821	[6781, 5395]	7869	[8023, 3176]

1726	[2853, 2854]	3774	[5173, 5019]	5822	[6782, 6783]	7870	[8024, 2935]
1727	[999, 2855]	3775	[5174, 4679]	5823	[2077, 2382]	7871	[1299, 3788]
1728	[2856, 2857]	3776	[5175, 2058]	5824	[6784, 4537]	7872	[3140, 6312]
1729	[2858, 2859]	3777	[5176, 4445]	5825	[6785, 2103]	7873	[8025, 1660]
1730	[1025, 2860]	3778	[5177, 4931]	5826	[5465, 6775]	7874	[3811, 2938]
1731	[2861, 2862]	3779	[5178, 5179]	5827	[6786, 2678]	7875	[3575, 5587]
1732	[2863, 2864]	3780	[5150, 2439]	5828	[575, 2158]	7876	[1076, 3852]
1733	[2865, 2866]	3781	[5180, 4636]	5829	[6787, 1722]	7877	[8026, 273]
1734	[2867, 2868]	3782	[5181, 5182]	5830	[5053, 1772]	7878	[8027, 6293]
1735	[2869, 2870]	3783	[5183, 2246]	5831	[146, 6558]	7879	[3903, 6095]
1736	[2871, 1679]	3784	[5184, 4593]	5832	[764, 787]	7880	[8028, 5994]
1737	[2872, 2873]	3785	[5185, 5022]	5833	[6788, 5152]	7881	[8029, 81]
1738	[2874, 2875]	3786	[204, 163]	5834	[6789, 2684]	7882	[8030, 4030]
1739	[2876, 2877]	3787	[5186, 5187]	5835	[885, 2430]	7883	[3112, 5800]
1740	[2878, 1005]	3788	[5188, 1983]	5836	[6790, 2552]	7884	[1457, 4013]
1741	[2879, 2880]	3789	[1741, 2525]	5837	[6791, 5315]	7885	[985, 4136]
1742	[2881, 2882]	3790	[5154, 4904]	5838	[5242, 827]	7886	[8031, 3183]
1743	[1369, 1253]	3791	[5189, 2778]	5839	[6792, 1789]	7887	[3938, 3058]
1744	[2883, 2884]	3792	[5190, 2367]	5840	[4310, 2256]	7888	[997, 5560]
1745	[2885, 2886]	3793	[2566, 5191]	5841	[6793, 1863]	7889	[8032, 3098]
1746	[2887, 2888]	3794	[5192, 4189]	5842	[6794, 4780]	7890	[5673, 3372]
1747	[2889, 1042]	3795	[5193, 2654]	5843	[6795, 1820]	7891	[5881, 3024]
1748	[1233, 466]	3796	[2345, 2317]	5844	[4388, 4962]	7892	[6262, 6397]
1749	[2890, 2891]	3797	[5194, 1944]	5845	[6796, 6797]	7893	[8033, 3216]
1750	[1107, 2892]	3798	[5195, 2030]	5846	[6798, 2300]	7894	[8034, 1087]
1751	[2893, 1677]	3799	[5196, 2043]	5847	[6799, 5144]	7895	[3762, 3919]
1752	[2894, 1536]	3800	[162, 4929]	5848	[6800, 6710]	7896	[8035, 1328]
1753	[2895, 1623]	3801	[5197, 5198]	5849	[6801, 2611]	7897	[8036, 2851]
1754	[2896, 2897]	3802	[5199, 136]	5850	[509, 5346]	7898	[8037, 3318]
1755	[2898, 2899]	3803	[5200, 636]	5851	[6802, 2011]	7899	[8038, 3628]
1756	[2900, 2901]	3804	[5201, 2212]	5852	[6803, 2188]	7900	[5716, 2990]
1757	[2902, 1466]	3805	[5202, 5203]	5853	[6804, 2507]	7901	[5789, 1349]
1758	[1192, 1059]	3806	[5204, 5205]	5854	[6805, 1805]	7902	[1469, 6502]
1759	[2903, 1571]	3807	[4636, 5206]	5855	[671, 5315]	7903	[8039, 1380]
1760	[2904, 2905]	3808	[5207, 5099]	5856	[6806, 6807]	7904	[3005, 5658]
1761	[2906, 2907]	3809	[5208, 5209]	5857	[2347, 543]	7905	[1283, 3145]
1762	[2908, 2909]	3810	[5210, 61]	5858	[493, 4714]	7906	[8040, 326]
1763	[2910, 1507]	3811	[5211, 2134]	5859	[882, 2559]	7907	[1319, 1515]
1764	[2911, 2912]	3812	[5212, 5213]	5860	[6808, 6624]	7908	[1489, 3981]
1765	[2913, 2914]	3813	[5214, 5215]	5861	[6809, 6810]	7909	[8041, 77]
1766	[1287, 2915]	3814	[5216, 5002]	5862	[6811, 775]	7910	[5643, 4005]
1767	[2916, 1001]	3815	[5217, 776]	5863	[6812, 2214]	7911	[5540, 3664]
1768	[2917, 2918]	3816	[5218, 5041]	5864	[6813, 2626]	7912	[8042, 453]
1769	[2919, 1442]	3817	[5097, 2312]	5865	[6814, 6733]	7913	[1216, 4070]

1770	[2920, 2818]	3818	[5098, 734]	5866	[4300, 6790]	7914	[8043, 1407]
1771	[2921, 2922]	3819	[5099, 5094]	5867	[6815, 6816]	7915	[8044, 377]
1772	[951, 2923]	3820	[5219, 782]	5868	[6817, 1917]	7916	[8045, 100]
1773	[2924, 2925]	3821	[782, 5097]	5869	[6818, 4542]	7917	[5496, 3953]
1774	[2926, 1574]	3822	[5220, 2458]	5870	[6819, 4577]	7918	[8046, 2794]
1775	[2927, 1564]	3823	[2351, 2457]	5871	[6820, 2631]	7919	[4071, 5712]
1776	[2928, 2929]	3824	[4739, 2463]	5872	[6821, 4629]	7920	[8047, 1468]
1777	[2930, 1674]	3825	[5221, 208]	5873	[692, 5080]	7921	[3747, 3084]
1778	[2931, 2932]	3826	[5222, 207]	5874	[6822, 6778]	7922	[8048, 2946]
1779	[1684, 2933]	3827	[5223, 2353]	5875	[6823, 2623]	7923	[8049, 3503]
1780	[1166, 1576]	3828	[5224, 799]	5876	[2116, 2494]	7924	[8050, 355]
1781	[2934, 2935]	3829	[2619, 1920]	5877	[6824, 2145]	7925	[8051, 1068]
1782	[2936, 1229]	3830	[5225, 199]	5878	[4861, 595]	7926	[6158, 391]
1783	[2937, 2938]	3831	[5226, 5227]	5879	[4245, 2179]	7927	[8052, 3085]
1784	[2939, 2940]	3832	[720, 2402]	5880	[6825, 5261]	7928	[3644, 1236]
1785	[2941, 2942]	3833	[912, 4832]	5881	[661, 2349]	7929	[1601, 3112]
1786	[2943, 2944]	3834	[5228, 4616]	5882	[4877, 2750]	7930	[6128, 4072]
1787	[1441, 2945]	3835	[4974, 701]	5883	[4907, 6826]	7931	[6486, 3860]
1788	[1337, 2946]	3836	[5229, 5230]	5884	[6827, 2644]	7932	[429, 1520]
1789	[82, 2947]	3837	[5231, 4943]	5885	[6828, 5434]	7933	[5684, 3719]
1790	[2948, 2949]	3838	[5232, 5098]	5886	[6829, 2712]	7934	[3042, 303]
1791	[2950, 2951]	3839	[5233, 770]	5887	[2590, 5187]	7935	[6188, 3884]
1792	[2952, 2953]	3840	[5234, 5235]	5888	[1686, 2464]	7936	[284, 121]
1793	[2954, 29]	3841	[244, 5236]	5889	[6830, 5069]	7937	[8053, 3971]
1794	[2955, 1121]	3842	[577, 615]	5890	[6831, 5071]	7938	[8054, 1465]
1795	[2956, 2957]	3843	[5035, 1828]	5891	[2138, 4900]	7939	[1383, 1494]
1796	[968, 2958]	3844	[5237, 850]	5892	[6832, 5271]	7940	[8055, 2970]
1797	[2959, 2960]	3845	[5238, 2464]	5893	[2146, 1811]	7941	[1409, 4065]
1798	[2961, 2962]	3846	[5239, 4595]	5894	[2275, 4216]	7942	[3067, 955]
1799	[1663, 2879]	3847	[2390, 2419]	5895	[6833, 4446]	7943	[8056, 3189]
1800	[1566, 2963]	3848	[220, 2730]	5896	[6834, 4766]	7944	[1889, 2392]
1801	[2964, 2965]	3849	[5240, 5215]	5897	[6835, 6836]	7945	[8057, 2787]
1802	[2966, 2967]	3850	[5241, 5242]	5898	[6837, 37]	7946	[2212, 5381]
1803	[2968, 2877]	3851	[5243, 4683]	5899	[6838, 2256]	7947	[4275, 6742]
1804	[2969, 1380]	3852	[5244, 5245]	5900	[6839, 704]	7948	[8058, 6775]
1805	[2970, 1086]	3853	[5246, 5247]	5901	[6840, 4454]	7949	[2160, 4423]
1806	[2971, 2972]	3854	[5248, 2113]	5902	[6841, 6842]	7950	[8059, 6573]
1807	[2973, 1453]	3855	[4602, 4902]	5903	[6843, 656]	7951	[8060, 7927]
1808	[2974, 2975]	3856	[5249, 5205]	5904	[6844, 4872]	7952	[4234, 7044]
1809	[349, 2976]	3857	[1945, 571]	5905	[4723, 2578]	7953	[4413, 6839]
1810	[2977, 2978]	3858	[5250, 821]	5906	[2623, 5056]	7954	[709, 4871]
1811	[2979, 2980]	3859	[5251, 2252]	5907	[6845, 4628]	7955	[8061, 6798]
1812	[2981, 2982]	3860	[5252, 750]	5908	[6846, 2669]	7956	[2361, 2234]
1813	[2983, 2984]	3861	[872, 4907]	5909	[4288, 1917]	7957	[8062, 4953]

1814	[1637, 2985]	3862	[5253, 137]	5910	[6847, 2027]	7958	[8063, 4787]
1815	[2986, 1150]	3863	[5254, 913]	5911	[6848, 4424]	7959	[7008, 4485]
1816	[2987, 2988]	3864	[5255, 5021]	5912	[6849, 4468]	7960	[8064, 2163]
1817	[1268, 2989]	3865	[5256, 5257]	5913	[4808, 4224]	7961	[4227, 4674]
1818	[2990, 2991]	3866	[5021, 4361]	5914	[893, 898]	7962	[6634, 2211]
1819	[2992, 2993]	3867	[2409, 4359]	5915	[6850, 846]	7963	[8065, 4939]
1820	[2994, 2995]	3868	[5258, 1946]	5916	[6851, 4987]	7964	[8066, 6960]
1821	[2996, 2997]	3869	[5259, 1971]	5917	[6852, 1854]	7965	[8067, 4910]
1822	[1126, 293]	3870	[5260, 4613]	5918	[5027, 6853]	7966	[8068, 1870]
1823	[4, 1138]	3871	[1690, 640]	5919	[6752, 6854]	7967	[579, 5068]
1824	[351, 2998]	3872	[2740, 1826]	5920	[4988, 2207]	7968	[4562, 1893]
1825	[2999, 3000]	3873	[2723, 5261]	5921	[2066, 4951]	7969	[6860, 1691]
1826	[3001, 3002]	3874	[5262, 787]	5922	[6855, 4504]	7970	[8069, 5027]
1827	[3003, 3004]	3875	[5263, 5142]	5923	[6856, 5058]	7971	[8070, 7069]
1828	[100, 384]	3876	[5264, 760]	5924	[4396, 5213]	7972	[8071, 2468]
1829	[1161, 3005]	3877	[1850, 5265]	5925	[6857, 921]	7973	[7171, 2218]
1830	[1599, 3006]	3878	[4239, 815]	5926	[6858, 1857]	7974	[910, 6849]
1831	[3007, 3008]	3879	[2297, 1971]	5927	[6859, 4701]	7975	[8072, 894]
1832	[1467, 1178]	3880	[5266, 1909]	5928	[2581, 6860]	7976	[8073, 4423]
1833	[3009, 968]	3881	[5267, 897]	5929	[6861, 6862]	7977	[8074, 687]
1834	[3010, 1226]	3882	[700, 192]	5930	[216, 4488]	7978	[2719, 1848]
1835	[3011, 3012]	3883	[5009, 5268]	5931	[6863, 2431]	7979	[8075, 6760]
1836	[3013, 1048]	3884	[5269, 2438]	5932	[6864, 5487]	7980	[8076, 6856]
1837	[3014, 3015]	3885	[519, 1918]	5933	[6865, 4486]	7981	[5124, 4717]
1838	[3016, 343]	3886	[5270, 5271]	5934	[6866, 6867]	7982	[4595, 6823]
1839	[3017, 3018]	3887	[5272, 2768]	5935	[4552, 491]	7983	[4892, 2264]
1840	[3019, 2882]	3888	[5273, 502]	5936	[6868, 5369]	7984	[8077, 2144]
1841	[3020, 3021]	3889	[5274, 4278]	5937	[6869, 6723]	7985	[8078, 5402]
1842	[110, 3022]	3890	[5275, 4341]	5938	[4737, 2656]	7986	[2074, 7055]
1843	[3023, 3024]	3891	[918, 2279]	5939	[6870, 193]	7987	[4199, 4469]
1844	[3025, 3026]	3892	[5276, 2645]	5940	[6871, 4491]	7988	[8079, 6906]
1845	[3027, 2908]	3893	[5277, 4981]	5941	[4719, 4568]	7989	[2659, 4769]
1846	[1137, 3028]	3894	[4260, 810]	5942	[5107, 175]	7990	[8080, 2620]
1847	[3006, 3029]	3895	[5278, 4591]	5943	[2061, 5116]	7991	[7767, 4917]
1848	[3030, 3031]	3896	[5279, 205]	5944	[6872, 1773]	7992	[1894, 1997]
1849	[3032, 3033]	3897	[5280, 4719]	5945	[6873, 2039]	7993	[4446, 6728]
1850	[3034, 3035]	3898	[5281, 2755]	5946	[6874, 4393]	7994	[8081, 7749]
1851	[3036, 3037]	3899	[5282, 4458]	5947	[4981, 5180]	7995	[1768, 7213]
1852	[3038, 3039]	3900	[5283, 1685]	5948	[6875, 2483]	7996	[8082, 1956]
1853	[3040, 952]	3901	[4257, 227]	5949	[6876, 919]	7997	[8083, 2040]
1854	[3041, 3042]	3902	[5284, 132]	5950	[6877, 5453]	7998	[8084, 4740]
1855	[3043, 3044]	3903	[2488, 2033]	5951	[6878, 930]	7999	[4302, 4912]
1856	[424, 3045]	3904	[5285, 2368]	5952	[6767, 4824]	8000	[8085, 6639]
1857	[3046, 1621]	3905	[5286, 618]	5953	[6879, 4772]	8001	[8086, 7024]

1858	[1053, 3047]	3906	[5287, 567]	5954	[2107, 4450]	8002	[2314, 4945]
1859	[2925, 2820]	3907	[5288, 1920]	5955	[6880, 1954]	8003	[7927, 1881]
1860	[3048, 3049]	3908	[4289, 492]	5956	[2233, 5198]	8004	[8087, 5077]
1861	[3050, 967]	3909	[5289, 2659]	5957	[4774, 4853]	8005	[551, 4814]
1862	[1459, 3051]	3910	[5290, 1945]	5958	[6854, 5402]	8006	[1810, 5487]
1863	[3052, 1410]	3911	[4457, 5073]	5959	[6881, 2512]	8007	[8088, 737]
1864	[3053, 3054]	3912	[5291, 5292]	5960	[5492, 4779]	8008	[8089, 4875]
1865	[3055, 3056]	3913	[5293, 641]	5961	[6882, 154]	8009	[515, 1978]
1866	[3057, 3058]	3914	[5294, 244]	5962	[224, 1714]	8010	[8090, 5405]
1867	[3059, 3060]	3915	[5295, 566]	5963	[6883, 2423]	8011	[4419, 4240]
1868	[3061, 79]	3916	[669, 5296]	5964	[611, 6884]	8012	[8091, 7040]
1869	[3062, 3063]	3917	[4193, 709]	5965	[6885, 6886]	8013	[8092, 4285]
1870	[3064, 3065]	3918	[5297, 5298]	5966	[4686, 4805]	8014	[1959, 201]
1871	[3066, 3067]	3919	[5299, 716]	5967	[6887, 891]	8015	[2168, 2165]
1872	[3068, 3069]	3920	[5300, 1886]	5968	[6888, 2037]	8016	[8093, 227]
1873	[3015, 3070]	3921	[5301, 4466]	5969	[6889, 1747]	8017	[2450, 7104]
1874	[3071, 3072]	3922	[1794, 2708]	5970	[6890, 6891]	8018	[858, 2648]
1875	[3073, 278]	3923	[5302, 5303]	5971	[6892, 1931]	8019	[4403, 528]
1876	[3074, 3075]	3924	[5304, 4371]	5972	[4435, 5334]	8020	[8094, 6752]
1877	[3076, 3077]	3925	[4320, 4525]	5973	[6893, 5465]	8021	[5296, 526]
1878	[3078, 3079]	3926	[5305, 4160]	5974	[6894, 2192]	8022	[8095, 4279]
1879	[408, 3080]	3927	[2244, 5306]	5975	[6895, 6685]	8023	[8096, 4988]
1880	[3081, 3082]	3928	[4899, 4279]	5976	[6896, 2422]	8024	[4913, 4413]
1881	[3083, 3084]	3929	[4508, 5061]	5977	[4707, 6897]	8025	[2349, 6701]
1882	[3085, 3071]	3930	[5307, 2193]	5978	[603, 2541]	8026	[2166, 6768]
1883	[3086, 1640]	3931	[5308, 764]	5979	[1722, 4662]	8027	[7856, 2291]
1884	[3087, 3088]	3932	[491, 4590]	5980	[5152, 2141]	8028	[4665, 5230]
1885	[3089, 3090]	3933	[5187, 4565]	5981	[6898, 6687]	8029	[8097, 2343]
1886	[3091, 3092]	3934	[5309, 533]	5982	[6899, 2339]	8030	[8098, 5385]
1887	[3093, 3094]	3935	[4755, 2007]	5983	[6900, 4416]	8031	[7087, 6564]
1888	[3095, 290]	3936	[5310, 1993]	5984	[6901, 4248]	8032	[8099, 2681]
1889	[3096, 3097]	3937	[4917, 4615]	5985	[2766, 4290]	8033	[8100, 2486]
1890	[1350, 3098]	3938	[5311, 872]	5986	[6902, 6633]	8034	[8101, 6708]
1891	[3099, 3100]	3939	[5312, 5313]	5987	[6903, 819]	8035	[8102, 2267]
1892	[3101, 2856]	3940	[5271, 2230]	5988	[6904, 4191]	8036	[8103, 4560]
1893	[3102, 3103]	3941	[5314, 2627]	5989	[6905, 4571]	8037	[8104, 4967]
1894	[1506, 3104]	3942	[5315, 5316]	5990	[527, 4215]	8038	[8105, 7856]
1895	[3105, 2886]	3943	[737, 5317]	5991	[4816, 2174]	8039	[8106, 2383]
1896	[1040, 3106]	3944	[5318, 5319]	5992	[4480, 5019]	8040	[8107, 231]
1897	[3107, 3108]	3945	[5320, 5075]	5993	[4489, 6906]	8041	[2099, 1735]
1898	[3109, 3110]	3946	[5321, 2513]	5994	[5298, 4288]	8042	[8108, 4851]
1899	[3111, 3112]	3947	[5322, 833]	5995	[4786, 147]	8043	[8109, 4895]
1900	[3113, 3114]	3948	[4426, 4933]	5996	[6907, 4990]	8044	[2526, 2423]
1901	[3115, 1138]	3949	[1808, 4379]	5997	[6908, 4755]	8045	[2539, 740]

1902	[2967, 3116]	3950	[5323, 5324]	5998	[6909, 4391]	8046	[5424, 7722]
1903	[3117, 107]	3951	[4618, 1963]	5999	[4879, 167]	8047	[8110, 5277]
1904	[3118, 3119]	3952	[5325, 173]	6000	[6910, 6911]	8048	[8111, 5356]
1905	[3120, 3121]	3953	[5326, 807]	6001	[5045, 2545]	8049	[5438, 4536]
1906	[3122, 3123]	3954	[5327, 38]	6002	[1919, 5022]	8050	[8112, 6843]
1907	[3124, 1174]	3955	[5328, 5068]	6003	[2789, 2148]	8051	[8113, 7155]
1908	[2938, 1129]	3956	[2159, 4758]	6004	[6912, 2437]	8052	[8114, 4485]
1909	[3125, 1452]	3957	[2214, 2412]	6005	[5414, 2331]	8053	[8115, 4380]
1910	[3126, 3127]	3958	[5329, 153]	6006	[4800, 2239]	8054	[525, 2399]
1911	[3128, 3129]	3959	[5330, 157]	6007	[6913, 1819]	8055	[4818, 4869]
1912	[3130, 1164]	3960	[5331, 5193]	6008	[6914, 6886]	8056	[8116, 6569]
1913	[3131, 3132]	3961	[5332, 4190]	6009	[5148, 6572]	8057	[8117, 101]
1914	[1558, 3133]	3962	[5333, 5334]	6010	[6915, 6916]	8058	[4075, 4058]
1915	[3134, 3135]	3963	[1834, 1796]	6011	[6917, 4177]	8059	[5792, 1063]
1916	[3136, 3137]	3964	[5335, 4889]	6012	[1885, 4816]	8060	[8118, 5710]
1917	[3138, 2941]	3965	[4285, 5336]	6013	[6918, 2012]	8061	[8119, 3675]
1918	[3139, 3140]	3966	[5337, 524]	6014	[6919, 6920]	8062	[8120, 3374]
1919	[987, 2872]	3967	[5338, 1885]	6015	[202, 5485]	8063	[3798, 3889]
1920	[3141, 3142]	3968	[4674, 4532]	6016	[839, 4483]	8064	[5849, 3319]
1921	[3143, 3144]	3969	[5339, 4574]	6017	[6921, 4409]	8065	[8121, 1658]
1922	[3145, 3146]	3970	[920, 1951]	6018	[1724, 4317]	8066	[6390, 1174]
1923	[3147, 3]	3971	[2691, 2021]	6019	[4437, 48]	8067	[288, 4129]
1924	[3148, 3149]	3972	[2129, 5340]	6020	[6922, 5492]	8068	[6502, 3766]
1925	[3150, 3151]	3973	[4168, 1946]	6021	[6923, 2456]	8069	[8122, 5648]
1926	[383, 3152]	3974	[166, 141]	6022	[6750, 2386]	8070	[8123, 1457]
1927	[3153, 3154]	3975	[5341, 2440]	6023	[6924, 4960]	8071	[8124, 1381]
1928	[2912, 2968]	3976	[5342, 652]	6024	[6925, 520]	8072	[8125, 464]
1929	[3155, 3156]	3977	[1733, 5172]	6025	[6926, 1868]	8073	[5567, 3037]
1930	[3157, 970]	3978	[5343, 492]	6026	[6927, 694]	8074	[1500, 5987]
1931	[3072, 3158]	3979	[5344, 4553]	6027	[6928, 2026]	8075	[3495, 3142]
1932	[3159, 3160]	3980	[5345, 5346]	6028	[6929, 4469]	8076	[8126, 3092]
1933	[3161, 2829]	3981	[5347, 4509]	6029	[6930, 2097]	8077	[6455, 1628]
1934	[3162, 982]	3982	[5348, 5114]	6030	[1791, 4177]	8078	[8127, 480]
1935	[3163, 1401]	3983	[5349, 5350]	6031	[2072, 2320]	8079	[8128, 960]
1936	[3164, 3165]	3984	[5351, 5001]	6032	[6931, 4824]	8080	[8129, 3396]
1937	[1612, 1197]	3985	[5352, 2673]	6033	[6932, 6724]	8081	[8130, 357]
1938	[3166, 3167]	3986	[2591, 5264]	6034	[6613, 4345]	8082	[3398, 3065]
1939	[3168, 3169]	3987	[1816, 4888]	6035	[6933, 2189]	8083	[8131, 3933]
1940	[3170, 3171]	3988	[2631, 4293]	6036	[815, 6934]	8084	[8132, 1337]
1941	[3172, 3173]	3989	[5353, 5354]	6037	[6935, 1761]	8085	[8133, 1145]
1942	[3174, 3175]	3990	[5355, 1787]	6038	[6936, 1915]	8086	[1097, 2848]
1943	[359, 3176]	3991	[2597, 5136]	6039	[6937, 6572]	8087	[8134, 92]
1944	[3177, 3178]	3992	[5356, 5292]	6040	[6938, 749]	8088	[3585, 5582]
1945	[3179, 3180]	3993	[922, 1756]	6041	[6708, 4496]	8089	[8135, 1283]

1946	[1629, 3181]	3994	[5083, 2721]	6042	[6939, 2244]	8090	[1527, 3774]
1947	[3182, 3183]	3995	[4656, 2436]	6043	[6940, 4549]	8091	[8136, 3772]
1948	[3184, 1517]	3996	[5357, 2140]	6044	[6941, 751]	8092	[7273, 3868]
1949	[3185, 1173]	3997	[5358, 4480]	6045	[6942, 5336]	8093	[8137, 367]
1950	[3186, 1297]	3998	[718, 5359]	6046	[2541, 1816]	8094	[3198, 1541]
1951	[3187, 3188]	3999	[5360, 2703]	6047	[2754, 2684]	8095	[2816, 338]
1952	[1664, 2843]	4000	[2480, 522]	6048	[6943, 711]	8096	[8138, 3806]
1953	[3008, 1131]	4001	[5361, 5179]	6049	[6944, 4262]	8097	[6172, 3711]
1954	[3189, 3190]	4002	[5362, 4205]	6050	[6945, 613]	8098	[8139, 3752]
1955	[3191, 3192]	4003	[2682, 5363]	6051	[6946, 141]	8099	[8140, 1636]
1956	[3193, 3194]	4004	[5364, 4317]	6052	[6947, 4987]	8100	[3994, 1645]
1957	[1605, 3195]	4005	[5365, 604]	6053	[6948, 5456]	8101	[8141, 5522]
1958	[3196, 936]	4006	[5366, 2124]	6054	[1974, 5462]	8102	[8142, 3383]
1959	[3197, 3198]	4007	[5367, 4676]	6055	[6949, 4717]	8103	[8143, 1177]
1960	[3199, 3200]	4008	[5368, 2525]	6056	[924, 4387]	8104	[8144, 3661]
1961	[3201, 1007]	4009	[5369, 574]	6057	[6950, 2563]	8105	[5969, 1315]
1962	[3202, 3203]	4010	[5370, 5191]	6058	[605, 2388]	8106	[1210, 397]
1963	[3204, 3205]	4011	[5371, 5251]	6059	[6951, 572]	8107	[8145, 450]
1964	[3206, 472]	4012	[5372, 2759]	6060	[6952, 6953]	8108	[6110, 3167]
1965	[3207, 3208]	4013	[5373, 4951]	6061	[4514, 2188]	8109	[2826, 6538]
1966	[3209, 3210]	4014	[5374, 4684]	6062	[6954, 4161]	8110	[5987, 88]
1967	[3211, 1112]	4015	[1952, 2143]	6063	[6955, 4582]	8111	[3331, 3018]
1968	[3212, 3213]	4016	[4710, 555]	6064	[5139, 4400]	8112	[5939, 2960]
1969	[3214, 3215]	4017	[4962, 506]	6065	[6956, 6839]	8113	[8146, 1158]
1970	[3216, 1453]	4018	[148, 2293]	6066	[6957, 4811]	8114	[8147, 1253]
1971	[3132, 3217]	4019	[5375, 2719]	6067	[6958, 5250]	8115	[8148, 3267]
1972	[3218, 3219]	4020	[5376, 2518]	6068	[6959, 4478]	8116	[8149, 1602]
1973	[3220, 3221]	4021	[4270, 508]	6069	[4616, 6960]	8117	[8150, 1853]
1974	[6, 3222]	4022	[5377, 1861]	6070	[6961, 149]	8118	[60, 5361]
1975	[3223, 1266]	4023	[4745, 5378]	6071	[2016, 6586]	8119	[8151, 2276]
1976	[3224, 3225]	4024	[5379, 547]	6072	[887, 4248]	8120	[8152, 1881]
1977	[3226, 1126]	4025	[2136, 1911]	6073	[6962, 4318]	8121	[8153, 678]
1978	[3227, 1427]	4026	[5380, 2615]	6074	[6963, 2170]	8122	[8154, 1764]
1979	[3228, 2889]	4027	[5381, 818]	6075	[6964, 5157]	8123	[1829, 5303]
1980	[3229, 3230]	4028	[5116, 2226]	6076	[6965, 5051]	8124	[8155, 201]
1981	[3231, 3232]	4029	[5382, 5383]	6077	[4725, 2341]	8125	[8156, 2699]
1982	[3233, 320]	4030	[5384, 5265]	6078	[6966, 6607]	8126	[8157, 6834]
1983	[3234, 3235]	4031	[5385, 5245]	6079	[6967, 6968]	8127	[8158, 7074]
1984	[3236, 3237]	4032	[4945, 5105]	6080	[6969, 4443]	8128	[2557, 7000]
1985	[3238, 3239]	4033	[1892, 2481]	6081	[6970, 6971]	8129	[8159, 5348]
1986	[3240, 3241]	4034	[5386, 5387]	6082	[4528, 5360]	8130	[908, 6851]
1987	[3242, 1330]	4035	[2262, 2600]	6083	[6972, 867]	8131	[8160, 5316]
1988	[3243, 3244]	4036	[5388, 4337]	6084	[6973, 5107]	8132	[2007, 4336]
1989	[3245, 2930]	4037	[5389, 5390]	6085	[571, 5005]	8133	[4805, 6673]

1990	[3195, 1395]	4038	[5391, 4852]	6086	[1903, 5085]	8134	[8161, 5195]
1991	[3246, 3247]	4039	[5392, 5296]	6087	[758, 4426]	8135	[8162, 2666]
1992	[3248, 3249]	4040	[5393, 4401]	6088	[6891, 6626]	8136	[6685, 6641]
1993	[1399, 3238]	4041	[5394, 2241]	6089	[688, 6974]	8137	[6590, 5129]
1994	[3250, 1108]	4042	[626, 5395]	6090	[6975, 184]	8138	[8163, 5435]
1995	[3251, 3252]	4043	[5396, 5164]	6091	[6976, 200]	8139	[8164, 2656]
1996	[3253, 1460]	4044	[5397, 5398]	6092	[1770, 6633]	8140	[7071, 2727]
1997	[3254, 3255]	4045	[5399, 4392]	6093	[6977, 1710]	8141	[8165, 4801]
1998	[3256, 2840]	4046	[5400, 1907]	6094	[6978, 6979]	8142	[2026, 59]
1999	[3257, 3258]	4047	[5401, 2743]	6095	[6980, 228]	8143	[4202, 7125]
2000	[3259, 3260]	4048	[5402, 4460]	6096	[6981, 4361]	8144	[725, 4253]
2001	[1087, 1312]	4049	[5056, 1896]	6097	[6982, 2579]	8145	[8166, 860]
2002	[2942, 3261]	4050	[5403, 1878]	6098	[4823, 4321]	8146	[46, 6715]
2003	[3262, 3263]	4051	[2329, 2407]	6099	[6983, 166]	8147	[8167, 2202]
2004	[3264, 1140]	4052	[5404, 800]	6100	[6984, 1875]	8148	[2363, 2667]
2005	[3265, 71]	4053	[751, 5405]	6101	[6985, 4387]	8149	[2197, 6646]
2006	[422, 3266]	4054	[5406, 2568]	6102	[6986, 6730]	8150	[1291, 3650]
2007	[3267, 3268]	4055	[2569, 5407]	6103	[10, 219]	8151	[6037, 375]
2008	[3269, 3270]	4056	[5408, 630]	6104	[6987, 4587]	8152	[8168, 5881]
2009	[3271, 3272]	4057	[4610, 2011]	6105	[6988, 6989]	8153	[8169, 3877]
2010	[1387, 3273]	4058	[5409, 504]	6106	[1825, 6990]	8154	[8170, 1415]
2011	[3274, 3275]	4059	[5410, 1890]	6107	[6991, 4729]	8155	[1248, 395]
2012	[3276, 3277]	4060	[5411, 4162]	6108	[6992, 4649]	8156	[6122, 6013]
2013	[1023, 977]	4061	[1950, 4297]	6109	[6993, 4516]	8157	[8171, 1548]
2014	[3278, 3279]	4062	[2671, 4220]	6110	[6994, 4388]	8158	[8172, 68]
2015	[3280, 3281]	4063	[823, 5412]	6111	[6995, 4936]	8159	[8173, 3932]
2016	[303, 3282]	4064	[5413, 5414]	6112	[6996, 5444]	8160	[8174, 2945]
2017	[3283, 3284]	4065	[5415, 2593]	6113	[6997, 6912]	8161	[1212, 985]
2018	[3012, 3285]	4066	[5416, 4985]	6114	[6998, 818]	8162	[8175, 3327]
2019	[3286, 3287]	4067	[214, 536]	6115	[6999, 5146]	8163	[8176, 3411]
2020	[3288, 3289]	4068	[5061, 2783]	6116	[7000, 4476]	8164	[8177, 4023]
2021	[2864, 3290]	4069	[636, 5417]	6117	[7001, 2437]	8165	[8178, 2880]
2022	[3291, 2885]	4070	[5418, 5251]	6118	[2443, 4235]	8166	[3606, 257]
2023	[3292, 1033]	4071	[5419, 1738]	6119	[638, 563]	8167	[8179, 3514]
2024	[344, 3293]	4072	[5420, 4298]	6120	[4269, 1915]	8168	[7749, 4456]
2025	[3294, 3295]	4073	[5421, 2034]	6121	[5213, 1907]	8169	[4249, 12]
2026	[3296, 3297]	4074	[5422, 4393]	6122	[7002, 1754]	8170	[797, 1903]
2027	[3298, 1456]	4075	[5423, 929]	6123	[4872, 4324]	8171	[8180, 6845]
2028	[1262, 1280]	4076	[899, 5424]	6124	[7003, 864]	8172	[2615, 6590]
2029	[3299, 3300]	4077	[5425, 4322]	6125	[7004, 727]	8173	[8181, 7128]
2030	[3301, 3302]	4078	[2774, 2698]	6126	[7005, 5268]	8174	[8182, 4450]
2031	[1545, 3303]	4079	[222, 4394]	6127	[2573, 7006]	8175	[6626, 4449]
2032	[3304, 3305]	4080	[5426, 148]	6128	[2288, 4508]	8176	[8183, 7773]
2033	[1018, 3171]	4081	[2055, 913]	6129	[7007, 7008]	8177	[8184, 5379]

2034	[3306, 3307]	4082	[2035, 915]	6130	[7009, 6807]	8178	[8185, 7767]
2035	[3221, 1657]	4083	[1878, 2686]	6131	[7010, 1847]	8179	[7046, 4939]
2036	[16, 1223]	4084	[5427, 2621]	6132	[2535, 2032]	8180	[8186, 2857]
2037	[3308, 1144]	4085	[5428, 4509]	6133	[7011, 2552]	8181	[3554, 3814]
2038	[3309, 3268]	4086	[5429, 4501]	6134	[4581, 2062]	8182	[1168, 1474]
2039	[3310, 3311]	4087	[5430, 5431]	6135	[7012, 2322]	8183	[485, 6122]
2040	[3312, 3313]	4088	[5432, 2550]	6136	[5484, 7013]	8184	[8187, 1033]
2041	[3314, 3315]	4089	[5433, 5050]	6137	[5336, 4486]	8185	[5572, 3614]
2042	[3316, 431]	4090	[5434, 5435]	6138	[7014, 6823]	8186	[8188, 772]
2043	[3317, 3318]	4091	[5436, 2099]	6139	[7015, 4199]	8187	[7152, 1866]
2044	[3319, 3320]	4092	[5437, 5009]	6140	[7016, 4864]	8188	[8189, 5499]
2045	[983, 3321]	4093	[1818, 5438]	6141	[4560, 5446]	8189	[2310, 4681]
2046	[3322, 1543]	4094	[5439, 158]	6142	[7017, 849]		
2047	[3323, 3324]	4095	[5440, 5441]	6143	[7018, 6771]		

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	1366	1	2732	0	4098	0	5464	1	6830	0
1	0	1367	1	2733	1	4099	0	5465	1	6831	0
2	0	1368	0	2734	1	4100	1	5466	0	6832	0
3	0	1369	1	2735	1	4101	0	5467	1	6833	0
4	1	1370	1	2736	1	4102	1	5468	1	6834	0
5	0	1371	0	2737	0	4103	0	5469	0	6835	0
6	1	1372	1	2738	0	4104	0	5470	1	6836	1
7	0	1373	1	2739	1	4105	0	5471	1	6837	1
8	0	1374	1	2740	0	4106	0	5472	0	6838	1
9	1	1375	0	2741	1	4107	0	5473	1	6839	0
10	0	1376	1	2742	0	4108	1	5474	1	6840	1
11	0	1377	0	2743	1	4109	1	5475	0	6841	1
12	1	1378	1	2744	1	4110	1	5476	1	6842	1
13	1	1379	0	2745	1	4111	1	5477	1	6843	1
14	1	1380	1	2746	1	4112	1	5478	1	6844	0
15	0	1381	0	2747	0	4113	1	5479	1	6845	1
16	0	1382	0	2748	0	4114	0	5480	1	6846	1
17	0	1383	1	2749	1	4115	0	5481	0	6847	0
18	0	1384	0	2750	0	4116	0	5482	0	6848	1
19	1	1385	0	2751	1	4117	1	5483	1	6849	1
20	0	1386	0	2752	0	4118	1	5484	0	6850	0
21	0	1387	0	2753	0	4119	0	5485	0	6851	1
22	0	1388	0	2754	0	4120	1	5486	1	6852	1
23	0	1389	1	2755	1	4121	1	5487	0	6853	0
24	1	1390	0	2756	1	4122	0	5488	0	6854	0
25	1	1391	1	2757	0	4123	1	5489	1	6855	0
26	1	1392	0	2758	1	4124	0	5490	0	6856	1

27	1	1393	1	2759	1	4125	1	5491	0	6857	1
28	1	1394	1	2760	1	4126	0	5492	0	6858	1
29	1	1395	1	2761	0	4127	0	5493	1	6859	0
30	1	1396	0	2762	0	4128	1	5494	0	6860	0
31	0	1397	1	2763	1	4129	1	5495	0	6861	1
32	0	1398	0	2764	0	4130	0	5496	1	6862	1
33	0	1399	0	2765	1	4131	1	5497	1	6863	0
34	1	1400	0	2766	1	4132	0	5498	0	6864	1
35	0	1401	0	2767	0	4133	1	5499	0	6865	1
36	1	1402	1	2768	1	4134	1	5500	1	6866	0
37	0	1403	1	2769	0	4135	1	5501	0	6867	1
38	1	1404	1	2770	0	4136	1	5502	0	6868	0
39	1	1405	0	2771	0	4137	0	5503	1	6869	1
40	1	1406	0	2772	0	4138	1	5504	1	6870	0
41	0	1407	0	2773	0	4139	0	5505	1	6871	0
42	1	1408	1	2774	0	4140	1	5506	1	6872	1
43	0	1409	1	2775	0	4141	1	5507	0	6873	1
44	0	1410	1	2776	0	4142	0	5508	0	6874	0
45	0	1411	1	2777	0	4143	0	5509	0	6875	0
46	0	1412	0	2778	1	4144	0	5510	1	6876	0
47	0	1413	0	2779	0	4145	1	5511	1	6877	1
48	0	1414	1	2780	1	4146	0	5512	0	6878	0
49	1	1415	1	2781	0	4147	0	5513	0	6879	1
50	1	1416	1	2782	1	4148	0	5514	1	6880	1
51	1	1417	1	2783	1	4149	1	5515	1	6881	1
52	0	1418	0	2784	1	4150	0	5516	0	6882	0
53	1	1419	1	2785	0	4151	0	5517	0	6883	1
54	1	1420	0	2786	1	4152	1	5518	0	6884	1
55	1	1421	1	2787	1	4153	1	5519	0	6885	0
56	0	1422	1	2788	0	4154	1	5520	1	6886	1
57	1	1423	0	2789	1	4155	1	5521	1	6887	0
58	0	1424	0	2790	1	4156	0	5522	1	6888	1
59	1	1425	1	2791	1	4157	1	5523	1	6889	1
60	0	1426	1	2792	0	4158	1	5524	1	6890	0
61	1	1427	0	2793	0	4159	0	5525	1	6891	0
62	1	1428	0	2794	0	4160	1	5526	0	6892	0
63	0	1429	1	2795	1	4161	0	5527	0	6893	0
64	1	1430	0	2796	1	4162	1	5528	1	6894	0
65	0	1431	1	2797	0	4163	0	5529	1	6895	1
66	0	1432	1	2798	0	4164	1	5530	0	6896	1
67	0	1433	1	2799	1	4165	0	5531	0	6897	0
68	1	1434	0	2800	1	4166	0	5532	0	6898	1
69	1	1435	0	2801	1	4167	1	5533	1	6899	0
70	0	1436	0	2802	0	4168	1	5534	0	6900	1

71	0	1437	0	2803	1	4169	1	5535	0	6901	0
72	0	1438	0	2804	0	4170	1	5536	0	6902	0
73	1	1439	0	2805	0	4171	0	5537	0	6903	1
74	1	1440	0	2806	1	4172	0	5538	1	6904	1
75	0	1441	0	2807	0	4173	1	5539	0	6905	1
76	1	1442	0	2808	0	4174	1	5540	1	6906	1
77	1	1443	0	2809	1	4175	0	5541	1	6907	1
78	1	1444	0	2810	0	4176	0	5542	0	6908	1
79	1	1445	1	2811	0	4177	1	5543	1	6909	0
80	1	1446	0	2812	0	4178	1	5544	1	6910	0
81	1	1447	0	2813	1	4179	0	5545	0	6911	1
82	1	1448	1	2814	0	4180	0	5546	1	6912	1
83	0	1449	0	2815	0	4181	0	5547	1	6913	0
84	1	1450	0	2816	0	4182	0	5548	0	6914	1
85	1	1451	1	2817	1	4183	0	5549	0	6915	0
86	1	1452	0	2818	1	4184	0	5550	1	6916	0
87	0	1453	1	2819	1	4185	0	5551	1	6917	1
88	0	1454	0	2820	0	4186	1	5552	1	6918	0
89	0	1455	0	2821	0	4187	1	5553	0	6919	1
90	0	1456	1	2822	1	4188	1	5554	0	6920	1
91	0	1457	0	2823	1	4189	1	5555	0	6921	1
92	0	1458	1	2824	1	4190	0	5556	0	6922	0
93	0	1459	1	2825	0	4191	0	5557	0	6923	0
94	1	1460	0	2826	1	4192	0	5558	0	6924	1
95	0	1461	1	2827	0	4193	1	5559	0	6925	0
96	1	1462	0	2828	1	4194	1	5560	1	6926	1
97	0	1463	1	2829	0	4195	1	5561	0	6927	0
98	1	1464	0	2830	0	4196	0	5562	0	6928	1
99	1	1465	0	2831	1	4197	1	5563	0	6929	1
100	0	1466	1	2832	1	4198	0	5564	0	6930	1
101	1	1467	0	2833	1	4199	0	5565	0	6931	0
102	0	1468	0	2834	1	4200	1	5566	0	6932	0
103	1	1469	0	2835	0	4201	0	5567	0	6933	0
104	1	1470	1	2836	1	4202	1	5568	1	6934	0
105	0	1471	0	2837	0	4203	1	5569	1	6935	1
106	0	1472	0	2838	1	4204	1	5570	1	6936	0
107	1	1473	0	2839	0	4205	0	5571	0	6937	0
108	1	1474	0	2840	0	4206	1	5572	0	6938	0
109	1	1475	0	2841	1	4207	1	5573	0	6939	1
110	0	1476	1	2842	0	4208	0	5574	0	6940	0
111	1	1477	1	2843	1	4209	0	5575	1	6941	0
112	1	1478	1	2844	0	4210	1	5576	0	6942	1
113	0	1479	0	2845	0	4211	0	5577	1	6943	0
114	0	1480	0	2846	1	4212	1	5578	0	6944	0

115	1	1481	1	2847	0	4213	0	5579	0	6945	0
116	1	1482	1	2848	0	4214	0	5580	1	6946	0
117	0	1483	0	2849	0	4215	1	5581	1	6947	0
118	0	1484	1	2850	1	4216	0	5582	1	6948	0
119	1	1485	1	2851	1	4217	0	5583	1	6949	0
120	0	1486	0	2852	1	4218	0	5584	0	6950	1
121	0	1487	0	2853	1	4219	0	5585	0	6951	0
122	0	1488	0	2854	0	4220	0	5586	1	6952	1
123	1	1489	1	2855	1	4221	1	5587	0	6953	0
124	0	1490	0	2856	0	4222	0	5588	0	6954	1
125	1	1491	1	2857	0	4223	0	5589	1	6955	1
126	1	1492	0	2858	1	4224	1	5590	0	6956	1
127	0	1493	0	2859	0	4225	0	5591	0	6957	0
128	0	1494	1	2860	0	4226	1	5592	1	6958	1
129	1	1495	1	2861	0	4227	0	5593	0	6959	1
130	0	1496	0	2862	1	4228	1	5594	0	6960	1
131	0	1497	0	2863	1	4229	0	5595	0	6961	0
132	1	1498	0	2864	1	4230	1	5596	0	6962	0
133	0	1499	0	2865	0	4231	0	5597	1	6963	0
134	0	1500	1	2866	0	4232	0	5598	0	6964	1
135	0	1501	1	2867	0	4233	0	5599	1	6965	0
136	1	1502	0	2868	0	4234	1	5600	1	6966	1
137	1	1503	0	2869	1	4235	1	5601	1	6967	1
138	1	1504	0	2870	1	4236	0	5602	0	6968	0
139	1	1505	1	2871	0	4237	0	5603	0	6969	1
140	0	1506	0	2872	1	4238	0	5604	0	6970	1
141	0	1507	1	2873	1	4239	1	5605	1	6971	0
142	0	1508	0	2874	0	4240	1	5606	0	6972	0
143	0	1509	1	2875	1	4241	1	5607	0	6973	1
144	0	1510	0	2876	1	4242	0	5608	1	6974	1
145	0	1511	0	2877	1	4243	1	5609	1	6975	1
146	1	1512	0	2878	0	4244	0	5610	0	6976	1
147	1	1513	0	2879	1	4245	0	5611	0	6977	0
148	1	1514	1	2880	0	4246	0	5612	0	6978	0
149	1	1515	1	2881	1	4247	1	5613	1	6979	0
150	1	1516	0	2882	1	4248	0	5614	1	6980	1
151	0	1517	1	2883	1	4249	1	5615	1	6981	1
152	1	1518	1	2884	0	4250	1	5616	1	6982	0
153	1	1519	1	2885	1	4251	0	5617	1	6983	0
154	1	1520	0	2886	0	4252	1	5618	0	6984	1
155	1	1521	1	2887	0	4253	0	5619	0	6985	1
156	0	1522	0	2888	1	4254	1	5620	1	6986	0
157	1	1523	1	2889	1	4255	1	5621	0	6987	0
158	1	1524	1	2890	1	4256	1	5622	0	6988	1

159	1	1525	0	2891	1	4257	0	5623	1	6989	0
160	0	1526	0	2892	1	4258	1	5624	0	6990	0
161	1	1527	1	2893	0	4259	0	5625	0	6991	0
162	0	1528	1	2894	0	4260	0	5626	1	6992	0
163	1	1529	1	2895	1	4261	1	5627	0	6993	1
164	0	1530	1	2896	1	4262	1	5628	0	6994	1
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166	1	1532	0	2898	1	4264	1	5630	1	6996	0
167	0	1533	1	2899	0	4265	0	5631	1	6997	1
168	1	1534	1	2900	0	4266	0	5632	1	6998	0
169	1	1535	1	2901	0	4267	1	5633	1	6999	1
170	0	1536	0	2902	0	4268	0	5634	1	7000	0
171	1	1537	1	2903	0	4269	1	5635	0	7001	0
172	1	1538	1	2904	0	4270	1	5636	0	7002	1
173	1	1539	0	2905	0	4271	1	5637	1	7003	1
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176	1	1542	1	2908	1	4274	0	5640	1	7006	1
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179	0	1545	1	2911	0	4277	1	5643	1	7009	0
180	1	1546	0	2912	0	4278	1	5644	0	7010	0
181	0	1547	0	2913	1	4279	1	5645	0	7011	1
182	1	1548	1	2914	1	4280	1	5646	1	7012	1
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185	0	1551	0	2917	1	4283	0	5649	0	7015	1
186	0	1552	0	2918	0	4284	1	5650	0	7016	0
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188	1	1554	0	2920	1	4286	0	5652	1	7018	1
189	1	1555	0	2921	1	4287	1	5653	0	7019	0
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194	0	1560	0	2926	1	4292	0	5658	1	7024	1
195	1	1561	0	2927	0	4293	0	5659	0	7025	0
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211	0	1577	1	2943	0	4309	0	5675	0	7041	1
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213	1	1579	1	2945	0	4311	0	5677	1	7043	1
214	0	1580	0	2946	1	4312	1	5678	1	7044	0
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218	0	1584	0	2950	0	4316	0	5682	0	7048	0
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221	1	1587	1	2953	0	4319	0	5685	1	7051	1
222	1	1588	1	2954	0	4320	0	5686	0	7052	1
223	1	1589	1	2955	0	4321	1	5687	1	7053	0
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232	0	1598	1	2964	1	4330	0	5696	0	7062	0
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235	0	1601	1	2967	1	4333	1	5699	0	7065	0
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241	0	1607	1	2973	1	4339	0	5705	0	7071	0
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243	0	1609	1	2975	0	4341	0	5707	1	7073	1
244	0	1610	0	2976	0	4342	0	5708	0	7074	1
245	1	1611	1	2977	0	4343	0	5709	1	7075	0
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253	1	1619	1	2985	1	4351	1	5717	1	7083	1
254	0	1620	0	2986	1	4352	0	5718	1	7084	1
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262	1	1628	1	2994	1	4360	0	5726	0	7092	0
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267	0	1633	1	2999	0	4365	1	5731	1	7097	0
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271	1	1637	0	3003	0	4369	0	5735	0	7101	1
272	1	1638	1	3004	1	4370	0	5736	0	7102	0
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274	1	1640	1	3006	0	4372	1	5738	1	7104	0
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279	0	1645	1	3011	1	4377	0	5743	0	7109	0
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282	1	1648	1	3014	0	4380	1	5746	1	7112	1
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286	0	1652	0	3018	0	4384	1	5750	0	7116	1
287	0	1653	0	3019	0	4385	1	5751	1	7117	1
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290	1	1656	1	3022	0	4388	0	5754	1	7120	1

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305	0	1671	0	3037	1	4403	0	5769	0	7135	0
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307	0	1673	0	3039	1	4405	1	5771	1	7137	0
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419	1	1785	1	3151	0	4517	0	5883	1	7249	1
420	0	1786	0	3152	0	4518	0	5884	0	7250	1
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423	1	1789	1	3155	0	4521	0	5887	0	7253	1
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431	0	1797	1	3163	1	4529	1	5895	0	7261	0
432	1	1798	0	3164	0	4530	1	5896	0	7262	0
433	1	1799	0	3165	0	4531	0	5897	0	7263	0
434	1	1800	1	3166	0	4532	0	5898	1	7264	1
435	0	1801	1	3167	1	4533	0	5899	1	7265	1
436	1	1802	1	3168	0	4534	0	5900	0	7266	0
437	0	1803	0	3169	0	4535	1	5901	1	7267	1
438	1	1804	1	3170	1	4536	0	5902	1	7268	0
439	1	1805	1	3171	1	4537	0	5903	1	7269	0
440	0	1806	1	3172	1	4538	0	5904	0	7270	1
441	1	1807	1	3173	0	4539	0	5905	1	7271	1
442	0	1808	1	3174	1	4540	1	5906	1	7272	1
443	1	1809	1	3175	1	4541	1	5907	1	7273	1
444	1	1810	0	3176	0	4542	0	5908	1	7274	0
445	1	1811	1	3177	1	4543	0	5909	0	7275	1
446	1	1812	0	3178	0	4544	0	5910	0	7276	1
447	1	1813	0	3179	0	4545	0	5911	1	7277	1
448	1	1814	0	3180	0	4546	1	5912	1	7278	0
449	1	1815	1	3181	0	4547	0	5913	1	7279	0
450	0	1816	0	3182	1	4548	1	5914	0	7280	0
451	0	1817	1	3183	1	4549	1	5915	0	7281	0
452	0	1818	1	3184	0	4550	0	5916	1	7282	1
453	1	1819	0	3185	1	4551	1	5917	1	7283	0
454	0	1820	1	3186	0	4552	1	5918	1	7284	0
455	0	1821	1	3187	0	4553	1	5919	1	7285	0
456	0	1822	1	3188	0	4554	1	5920	0	7286	0
457	0	1823	1	3189	0	4555	1	5921	0	7287	0
458	1	1824	1	3190	0	4556	0	5922	0	7288	0
459	1	1825	0	3191	1	4557	1	5923	1	7289	1
460	1	1826	1	3192	1	4558	1	5924	0	7290	1
461	0	1827	0	3193	1	4559	0	5925	1	7291	0
462	0	1828	0	3194	1	4560	1	5926	1	7292	0
463	1	1829	0	3195	0	4561	0	5927	0	7293	0
464	0	1830	1	3196	1	4562	1	5928	0	7294	0
465	1	1831	1	3197	1	4563	1	5929	1	7295	1
466	1	1832	0	3198	0	4564	0	5930	0	7296	1

467	1	1833	0	3199	1	4565	1	5931	0	7297	0
468	0	1834	1	3200	0	4566	0	5932	1	7298	0
469	1	1835	1	3201	0	4567	1	5933	1	7299	1
470	0	1836	1	3202	1	4568	1	5934	0	7300	0
471	1	1837	0	3203	0	4569	1	5935	1	7301	0
472	0	1838	1	3204	1	4570	0	5936	0	7302	1
473	1	1839	1	3205	0	4571	0	5937	1	7303	0
474	0	1840	0	3206	0	4572	1	5938	1	7304	0
475	1	1841	1	3207	1	4573	0	5939	0	7305	1
476	1	1842	0	3208	1	4574	1	5940	0	7306	0
477	0	1843	0	3209	1	4575	0	5941	0	7307	0
478	1	1844	1	3210	1	4576	1	5942	0	7308	0
479	1	1845	0	3211	1	4577	1	5943	1	7309	1
480	0	1846	1	3212	0	4578	0	5944	1	7310	0
481	1	1847	0	3213	0	4579	1	5945	1	7311	1
482	1	1848	0	3214	1	4580	0	5946	0	7312	1
483	1	1849	0	3215	1	4581	0	5947	0	7313	1
484	1	1850	0	3216	0	4582	0	5948	0	7314	0
485	0	1851	1	3217	1	4583	0	5949	0	7315	0
486	0	1852	0	3218	0	4584	1	5950	1	7316	0
487	0	1853	0	3219	1	4585	0	5951	0	7317	0
488	1	1854	0	3220	1	4586	0	5952	1	7318	1
489	1	1855	1	3221	0	4587	1	5953	1	7319	1
490	0	1856	0	3222	1	4588	1	5954	0	7320	1
491	1	1857	0	3223	1	4589	0	5955	1	7321	1
492	1	1858	0	3224	1	4590	1	5956	0	7322	1
493	1	1859	1	3225	1	4591	0	5957	0	7323	0
494	0	1860	0	3226	0	4592	0	5958	0	7324	0
495	0	1861	1	3227	1	4593	0	5959	1	7325	1
496	0	1862	1	3228	0	4594	1	5960	0	7326	0
497	1	1863	1	3229	0	4595	0	5961	0	7327	0
498	1	1864	0	3230	1	4596	0	5962	1	7328	1
499	0	1865	0	3231	1	4597	0	5963	1	7329	1
500	1	1866	0	3232	0	4598	1	5964	0	7330	0
501	0	1867	0	3233	0	4599	0	5965	0	7331	1
502	0	1868	0	3234	0	4600	0	5966	0	7332	0
503	0	1869	1	3235	1	4601	0	5967	0	7333	1
504	1	1870	0	3236	0	4602	1	5968	1	7334	1
505	0	1871	1	3237	1	4603	1	5969	1	7335	1
506	0	1872	0	3238	1	4604	1	5970	0	7336	1
507	0	1873	1	3239	0	4605	1	5971	0	7337	1
508	1	1874	1	3240	1	4606	1	5972	1	7338	0
509	1	1875	0	3241	0	4607	1	5973	0	7339	1
510	1	1876	1	3242	1	4608	1	5974	0	7340	1

511	0	1877	0	3243	1	4609	1	5975	1	7341	0
512	0	1878	0	3244	1	4610	1	5976	1	7342	1
513	0	1879	0	3245	1	4611	1	5977	0	7343	1
514	0	1880	1	3246	1	4612	1	5978	1	7344	0
515	1	1881	0	3247	1	4613	0	5979	0	7345	1
516	1	1882	1	3248	1	4614	0	5980	1	7346	0
517	1	1883	0	3249	0	4615	1	5981	1	7347	1
518	0	1884	0	3250	0	4616	0	5982	0	7348	1
519	0	1885	1	3251	1	4617	1	5983	1	7349	1
520	0	1886	0	3252	1	4618	0	5984	0	7350	0
521	1	1887	1	3253	0	4619	0	5985	1	7351	1
522	0	1888	0	3254	0	4620	1	5986	0	7352	0
523	0	1889	1	3255	0	4621	1	5987	1	7353	0
524	1	1890	1	3256	1	4622	0	5988	1	7354	1
525	1	1891	0	3257	0	4623	1	5989	1	7355	0
526	1	1892	0	3258	0	4624	1	5990	0	7356	0
527	0	1893	0	3259	0	4625	1	5991	0	7357	0
528	1	1894	0	3260	1	4626	1	5992	0	7358	1
529	1	1895	0	3261	0	4627	0	5993	0	7359	0
530	1	1896	0	3262	0	4628	0	5994	0	7360	1
531	0	1897	0	3263	1	4629	0	5995	0	7361	1
532	1	1898	0	3264	0	4630	1	5996	1	7362	1
533	1	1899	0	3265	1	4631	1	5997	1	7363	1
534	1	1900	1	3266	1	4632	1	5998	0	7364	1
535	1	1901	0	3267	0	4633	0	5999	1	7365	0
536	0	1902	1	3268	1	4634	0	6000	0	7366	0
537	1	1903	1	3269	1	4635	1	6001	1	7367	0
538	1	1904	0	3270	1	4636	0	6002	0	7368	1
539	1	1905	1	3271	0	4637	0	6003	1	7369	0
540	0	1906	0	3272	1	4638	1	6004	1	7370	1
541	0	1907	0	3273	1	4639	1	6005	1	7371	1
542	0	1908	1	3274	1	4640	1	6006	0	7372	1
543	1	1909	1	3275	0	4641	0	6007	0	7373	0
544	0	1910	0	3276	0	4642	1	6008	1	7374	1
545	0	1911	1	3277	0	4643	1	6009	1	7375	0
546	0	1912	0	3278	1	4644	1	6010	0	7376	1
547	0	1913	0	3279	1	4645	0	6011	1	7377	0
548	0	1914	0	3280	1	4646	0	6012	1	7378	0
549	0	1915	1	3281	0	4647	1	6013	0	7379	0
550	1	1916	0	3282	0	4648	1	6014	1	7380	1
551	1	1917	0	3283	1	4649	1	6015	0	7381	0
552	0	1918	0	3284	1	4650	0	6016	0	7382	0
553	0	1919	0	3285	1	4651	0	6017	1	7383	0
554	0	1920	1	3286	0	4652	1	6018	0	7384	1

555	0	1921	1	3287	0	4653	0	6019	1	7385	1
556	0	1922	1	3288	1	4654	0	6020	0	7386	0
557	0	1923	0	3289	0	4655	1	6021	0	7387	1
558	0	1924	0	3290	0	4656	1	6022	1	7388	1
559	0	1925	0	3291	0	4657	1	6023	1	7389	0
560	1	1926	0	3292	1	4658	1	6024	0	7390	1
561	1	1927	1	3293	1	4659	0	6025	1	7391	0
562	1	1928	0	3294	0	4660	1	6026	0	7392	0
563	1	1929	0	3295	1	4661	1	6027	1	7393	0
564	0	1930	0	3296	1	4662	1	6028	1	7394	1
565	1	1931	0	3297	0	4663	0	6029	1	7395	1
566	1	1932	1	3298	1	4664	1	6030	0	7396	1
567	1	1933	0	3299	1	4665	0	6031	1	7397	1
568	1	1934	1	3300	0	4666	0	6032	0	7398	0
569	0	1935	1	3301	0	4667	1	6033	0	7399	0
570	1	1936	0	3302	0	4668	0	6034	0	7400	1
571	0	1937	1	3303	1	4669	0	6035	0	7401	1
572	0	1938	0	3304	1	4670	0	6036	0	7402	0
573	1	1939	0	3305	0	4671	0	6037	1	7403	1
574	1	1940	1	3306	1	4672	1	6038	0	7404	0
575	1	1941	1	3307	1	4673	1	6039	0	7405	0
576	0	1942	1	3308	0	4674	1	6040	0	7406	1
577	1	1943	1	3309	1	4675	0	6041	1	7407	0
578	1	1944	1	3310	0	4676	0	6042	1	7408	1
579	0	1945	0	3311	1	4677	0	6043	0	7409	0
580	0	1946	1	3312	1	4678	0	6044	0	7410	1
581	1	1947	1	3313	0	4679	1	6045	1	7411	0
582	0	1948	0	3314	1	4680	0	6046	0	7412	1
583	1	1949	1	3315	1	4681	0	6047	0	7413	0
584	1	1950	0	3316	0	4682	0	6048	0	7414	1
585	1	1951	0	3317	1	4683	1	6049	0	7415	0
586	1	1952	1	3318	1	4684	0	6050	0	7416	1
587	0	1953	0	3319	1	4685	1	6051	0	7417	0
588	0	1954	0	3320	0	4686	0	6052	0	7418	0
589	0	1955	1	3321	0	4687	1	6053	0	7419	1
590	1	1956	1	3322	0	4688	1	6054	1	7420	0
591	1	1957	0	3323	1	4689	0	6055	0	7421	0
592	0	1958	1	3324	0	4690	1	6056	0	7422	1
593	0	1959	1	3325	0	4691	1	6057	1	7423	0
594	1	1960	1	3326	1	4692	1	6058	1	7424	1
595	0	1961	0	3327	1	4693	1	6059	0	7425	0
596	0	1962	1	3328	0	4694	1	6060	1	7426	1
597	1	1963	1	3329	0	4695	1	6061	0	7427	0
598	0	1964	0	3330	1	4696	0	6062	1	7428	0

599	0	1965	1	3331	0	4697	1	6063	1	7429	1
600	1	1966	1	3332	0	4698	0	6064	0	7430	0
601	1	1967	1	3333	0	4699	0	6065	1	7431	0
602	1	1968	0	3334	0	4700	1	6066	0	7432	0
603	1	1969	1	3335	0	4701	1	6067	1	7433	1
604	0	1970	0	3336	0	4702	0	6068	1	7434	0
605	1	1971	0	3337	1	4703	1	6069	0	7435	0
606	1	1972	0	3338	0	4704	1	6070	0	7436	1
607	0	1973	1	3339	1	4705	0	6071	0	7437	0
608	1	1974	1	3340	0	4706	0	6072	1	7438	1
609	0	1975	1	3341	1	4707	0	6073	0	7439	0
610	1	1976	1	3342	0	4708	1	6074	0	7440	1
611	0	1977	0	3343	1	4709	0	6075	1	7441	0
612	1	1978	1	3344	0	4710	1	6076	0	7442	0
613	1	1979	0	3345	0	4711	0	6077	0	7443	1
614	0	1980	0	3346	0	4712	1	6078	1	7444	0
615	1	1981	1	3347	0	4713	0	6079	1	7445	1
616	0	1982	0	3348	0	4714	0	6080	1	7446	0
617	0	1983	0	3349	0	4715	1	6081	1	7447	0
618	1	1984	0	3350	1	4716	1	6082	1	7448	0
619	1	1985	1	3351	0	4717	0	6083	0	7449	0
620	1	1986	1	3352	1	4718	1	6084	1	7450	0
621	0	1987	1	3353	1	4719	0	6085	0	7451	1
622	1	1988	1	3354	0	4720	1	6086	1	7452	0
623	1	1989	1	3355	1	4721	1	6087	1	7453	1
624	1	1990	0	3356	1	4722	0	6088	0	7454	1
625	1	1991	1	3357	1	4723	1	6089	1	7455	1
626	0	1992	1	3358	1	4724	0	6090	1	7456	0
627	0	1993	0	3359	0	4725	0	6091	1	7457	0
628	1	1994	0	3360	1	4726	0	6092	1	7458	1
629	0	1995	1	3361	1	4727	1	6093	0	7459	1
630	1	1996	0	3362	1	4728	0	6094	0	7460	1
631	1	1997	0	3363	1	4729	1	6095	1	7461	0
632	0	1998	1	3364	0	4730	0	6096	1	7462	1
633	1	1999	0	3365	1	4731	1	6097	0	7463	1
634	1	2000	0	3366	1	4732	0	6098	1	7464	0
635	0	2001	0	3367	0	4733	1	6099	0	7465	0
636	1	2002	1	3368	0	4734	0	6100	1	7466	1
637	0	2003	0	3369	0	4735	0	6101	1	7467	1
638	1	2004	0	3370	0	4736	1	6102	0	7468	0
639	1	2005	1	3371	1	4737	1	6103	0	7469	1
640	1	2006	0	3372	0	4738	0	6104	0	7470	1
641	1	2007	0	3373	0	4739	1	6105	1	7471	1
642	0	2008	1	3374	0	4740	1	6106	0	7472	0

643	0	2009	0	3375	1	4741	1	6107	0	7473	1
644	0	2010	0	3376	1	4742	0	6108	0	7474	1
645	1	2011	1	3377	1	4743	1	6109	1	7475	0
646	1	2012	0	3378	1	4744	1	6110	1	7476	0
647	1	2013	1	3379	0	4745	0	6111	1	7477	1
648	0	2014	1	3380	0	4746	0	6112	0	7478	1
649	0	2015	1	3381	0	4747	0	6113	1	7479	0
650	1	2016	0	3382	0	4748	1	6114	0	7480	0
651	0	2017	1	3383	1	4749	1	6115	1	7481	0
652	1	2018	0	3384	0	4750	0	6116	0	7482	1
653	1	2019	0	3385	0	4751	0	6117	0	7483	1
654	0	2020	1	3386	0	4752	1	6118	1	7484	0
655	1	2021	1	3387	1	4753	0	6119	1	7485	1
656	1	2022	0	3388	0	4754	0	6120	1	7486	0
657	0	2023	1	3389	1	4755	1	6121	1	7487	1
658	0	2024	1	3390	0	4756	0	6122	1	7488	0
659	1	2025	0	3391	1	4757	0	6123	1	7489	1
660	1	2026	1	3392	1	4758	0	6124	1	7490	0
661	1	2027	1	3393	1	4759	0	6125	1	7491	0
662	1	2028	1	3394	0	4760	0	6126	1	7492	0
663	1	2029	1	3395	1	4761	0	6127	1	7493	1
664	0	2030	0	3396	0	4762	1	6128	0	7494	1
665	1	2031	1	3397	1	4763	0	6129	1	7495	0
666	1	2032	1	3398	1	4764	0	6130	0	7496	1
667	1	2033	0	3399	0	4765	1	6131	0	7497	1
668	0	2034	1	3400	1	4766	1	6132	0	7498	1
669	0	2035	0	3401	0	4767	1	6133	1	7499	1
670	0	2036	0	3402	1	4768	0	6134	0	7500	1
671	1	2037	0	3403	1	4769	1	6135	1	7501	1
672	1	2038	1	3404	1	4770	0	6136	0	7502	0
673	1	2039	0	3405	0	4771	0	6137	0	7503	1
674	0	2040	1	3406	0	4772	0	6138	1	7504	0
675	0	2041	1	3407	0	4773	0	6139	1	7505	0
676	1	2042	0	3408	0	4774	0	6140	0	7506	1
677	1	2043	1	3409	0	4775	0	6141	1	7507	0
678	1	2044	1	3410	1	4776	0	6142	1	7508	1
679	0	2045	0	3411	1	4777	1	6143	1	7509	1
680	1	2046	0	3412	1	4778	0	6144	0	7510	0
681	1	2047	1	3413	0	4779	1	6145	1	7511	1
682	0	2048	0	3414	0	4780	0	6146	0	7512	0
683	1	2049	0	3415	0	4781	0	6147	0	7513	1
684	0	2050	0	3416	1	4782	1	6148	0	7514	1
685	1	2051	0	3417	1	4783	1	6149	1	7515	0
686	1	2052	0	3418	1	4784	0	6150	0	7516	0

687	0	2053	0	3419	1	4785	1	6151	0	7517	0
688	1	2054	0	3420	0	4786	0	6152	0	7518	0
689	0	2055	0	3421	0	4787	1	6153	1	7519	0
690	1	2056	0	3422	0	4788	1	6154	1	7520	0
691	0	2057	0	3423	0	4789	0	6155	1	7521	1
692	0	2058	0	3424	0	4790	1	6156	0	7522	0
693	1	2059	0	3425	1	4791	1	6157	1	7523	0
694	0	2060	0	3426	0	4792	0	6158	1	7524	0
695	1	2061	1	3427	1	4793	0	6159	1	7525	0
696	0	2062	1	3428	1	4794	0	6160	1	7526	0
697	0	2063	0	3429	0	4795	0	6161	0	7527	1
698	0	2064	0	3430	0	4796	0	6162	1	7528	1
699	1	2065	1	3431	1	4797	1	6163	0	7529	1
700	1	2066	0	3432	1	4798	1	6164	1	7530	0
701	0	2067	0	3433	1	4799	0	6165	0	7531	0
702	0	2068	0	3434	1	4800	0	6166	0	7532	0
703	1	2069	1	3435	0	4801	0	6167	0	7533	0
704	1	2070	0	3436	1	4802	1	6168	0	7534	1
705	0	2071	0	3437	1	4803	1	6169	0	7535	0
706	0	2072	1	3438	0	4804	1	6170	0	7536	0
707	1	2073	1	3439	1	4805	0	6171	0	7537	1
708	0	2074	0	3440	0	4806	0	6172	1	7538	1
709	0	2075	0	3441	0	4807	0	6173	1	7539	1
710	0	2076	1	3442	0	4808	1	6174	0	7540	0
711	0	2077	0	3443	1	4809	0	6175	0	7541	1
712	1	2078	1	3444	1	4810	0	6176	1	7542	0
713	1	2079	0	3445	1	4811	1	6177	1	7543	0
714	0	2080	0	3446	1	4812	0	6178	1	7544	0
715	1	2081	1	3447	1	4813	0	6179	0	7545	0
716	1	2082	0	3448	1	4814	0	6180	1	7546	0
717	1	2083	1	3449	1	4815	0	6181	1	7547	1
718	0	2084	1	3450	1	4816	0	6182	1	7548	1
719	0	2085	0	3451	0	4817	1	6183	0	7549	1
720	0	2086	1	3452	1	4818	1	6184	0	7550	0
721	0	2087	1	3453	1	4819	1	6185	0	7551	0
722	0	2088	1	3454	0	4820	0	6186	1	7552	0
723	1	2089	0	3455	0	4821	1	6187	0	7553	1
724	1	2090	0	3456	1	4822	1	6188	1	7554	1
725	0	2091	0	3457	1	4823	1	6189	0	7555	1
726	0	2092	0	3458	1	4824	0	6190	1	7556	1
727	1	2093	0	3459	1	4825	1	6191	1	7557	1
728	0	2094	0	3460	1	4826	1	6192	1	7558	0
729	0	2095	1	3461	0	4827	1	6193	1	7559	1
730	0	2096	1	3462	0	4828	0	6194	0	7560	1

731	0	2097	0	3463	1	4829	1	6195	0	7561	1
732	0	2098	0	3464	0	4830	1	6196	0	7562	1
733	0	2099	1	3465	1	4831	1	6197	0	7563	0
734	1	2100	1	3466	0	4832	0	6198	0	7564	1
735	1	2101	1	3467	1	4833	0	6199	0	7565	0
736	1	2102	1	3468	1	4834	0	6200	1	7566	0
737	0	2103	0	3469	1	4835	0	6201	1	7567	0
738	0	2104	0	3470	1	4836	1	6202	0	7568	1
739	0	2105	0	3471	0	4837	0	6203	1	7569	0
740	1	2106	0	3472	1	4838	0	6204	1	7570	0
741	0	2107	0	3473	0	4839	0	6205	0	7571	1
742	1	2108	1	3474	1	4840	1	6206	0	7572	0
743	0	2109	0	3475	1	4841	1	6207	1	7573	1
744	1	2110	0	3476	1	4842	1	6208	0	7574	0
745	0	2111	1	3477	0	4843	0	6209	1	7575	0
746	1	2112	1	3478	1	4844	0	6210	0	7576	1
747	1	2113	1	3479	1	4845	0	6211	1	7577	1
748	1	2114	1	3480	0	4846	0	6212	1	7578	1
749	0	2115	0	3481	0	4847	1	6213	1	7579	0
750	1	2116	0	3482	0	4848	0	6214	0	7580	0
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752	0	2118	1	3484	1	4850	1	6216	1	7582	1
753	0	2119	0	3485	0	4851	0	6217	0	7583	1
754	0	2120	1	3486	0	4852	1	6218	1	7584	0
755	1	2121	0	3487	0	4853	0	6219	1	7585	0
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757	1	2123	0	3489	0	4855	1	6221	1	7587	1
758	1	2124	1	3490	1	4856	0	6222	0	7588	0
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760	0	2126	0	3492	1	4858	0	6224	0	7590	0
761	0	2127	1	3493	1	4859	1	6225	0	7591	1
762	1	2128	1	3494	1	4860	0	6226	1	7592	0
763	1	2129	0	3495	0	4861	0	6227	0	7593	0
764	0	2130	0	3496	1	4862	0	6228	0	7594	1
765	0	2131	0	3497	0	4863	0	6229	1	7595	0
766	1	2132	0	3498	0	4864	1	6230	0	7596	0
767	1	2133	1	3499	1	4865	1	6231	0	7597	0
768	0	2134	1	3500	0	4866	1	6232	1	7598	0
769	1	2135	0	3501	1	4867	1	6233	0	7599	1
770	1	2136	1	3502	0	4868	1	6234	1	7600	1
771	0	2137	1	3503	0	4869	1	6235	1	7601	1
772	0	2138	1	3504	0	4870	1	6236	1	7602	0
773	1	2139	1	3505	0	4871	1	6237	1	7603	0
774	0	2140	0	3506	1	4872	1	6238	1	7604	0

775	1	2141	0	3507	1	4873	1	6239	0	7605	1
776	0	2142	0	3508	1	4874	0	6240	1	7606	0
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778	0	2144	1	3510	0	4876	1	6242	0	7608	0
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780	1	2146	0	3512	0	4878	1	6244	0	7610	0
781	0	2147	1	3513	1	4879	1	6245	1	7611	0
782	0	2148	1	3514	0	4880	0	6246	1	7612	1
783	0	2149	1	3515	1	4881	0	6247	1	7613	0
784	0	2150	0	3516	0	4882	0	6248	0	7614	0
785	0	2151	0	3517	1	4883	1	6249	0	7615	1
786	0	2152	0	3518	0	4884	0	6250	0	7616	1
787	1	2153	1	3519	1	4885	1	6251	1	7617	0
788	0	2154	1	3520	0	4886	1	6252	0	7618	1
789	0	2155	1	3521	1	4887	1	6253	1	7619	0
790	0	2156	1	3522	0	4888	0	6254	0	7620	0
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792	0	2158	0	3524	0	4890	1	6256	0	7622	0
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794	0	2160	1	3526	0	4892	1	6258	1	7624	0
795	1	2161	1	3527	0	4893	1	6259	0	7625	0
796	1	2162	0	3528	0	4894	1	6260	1	7626	0
797	0	2163	1	3529	0	4895	1	6261	0	7627	0
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799	0	2165	1	3531	0	4897	0	6263	1	7629	1
800	0	2166	0	3532	1	4898	1	6264	1	7630	0
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802	1	2168	0	3534	1	4900	0	6266	1	7632	0
803	0	2169	1	3535	0	4901	0	6267	0	7633	1
804	1	2170	0	3536	1	4902	0	6268	0	7634	0
805	0	2171	1	3537	1	4903	0	6269	1	7635	1
806	0	2172	1	3538	0	4904	0	6270	0	7636	0
807	0	2173	1	3539	1	4905	0	6271	0	7637	1
808	0	2174	0	3540	1	4906	0	6272	0	7638	1
809	1	2175	1	3541	1	4907	1	6273	0	7639	1
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811	1	2177	1	3543	0	4909	0	6275	0	7641	0
812	1	2178	1	3544	0	4910	0	6276	0	7642	0
813	1	2179	0	3545	1	4911	1	6277	0	7643	0
814	0	2180	1	3546	0	4912	1	6278	0	7644	1
815	0	2181	0	3547	0	4913	0	6279	1	7645	1
816	0	2182	1	3548	0	4914	1	6280	1	7646	1
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818	0	2184	0	3550	0	4916	1	6282	0	7648	1

819	1	2185	0	3551	0	4917	1	6283	1	7649	1
820	0	2186	0	3552	0	4918	0	6284	1	7650	0
821	0	2187	1	3553	1	4919	1	6285	0	7651	0
822	0	2188	1	3554	0	4920	0	6286	0	7652	0
823	0	2189	1	3555	0	4921	1	6287	1	7653	0
824	1	2190	1	3556	1	4922	0	6288	0	7654	1
825	0	2191	1	3557	1	4923	0	6289	0	7655	1
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827	1	2193	0	3559	1	4925	0	6291	0	7657	1
828	1	2194	1	3560	1	4926	0	6292	0	7658	0
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830	1	2196	0	3562	1	4928	1	6294	0	7660	0
831	1	2197	1	3563	0	4929	1	6295	0	7661	1
832	0	2198	0	3564	1	4930	0	6296	1	7662	0
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834	1	2200	0	3566	1	4932	0	6298	1	7664	1
835	1	2201	0	3567	1	4933	1	6299	1	7665	1
836	1	2202	0	3568	1	4934	1	6300	1	7666	1
837	1	2203	0	3569	0	4935	0	6301	1	7667	1
838	1	2204	0	3570	0	4936	0	6302	1	7668	1
839	0	2205	1	3571	0	4937	1	6303	1	7669	1
840	0	2206	1	3572	1	4938	0	6304	1	7670	0
841	1	2207	1	3573	0	4939	1	6305	1	7671	0
842	1	2208	1	3574	0	4940	0	6306	0	7672	1
843	0	2209	1	3575	1	4941	1	6307	0	7673	1
844	1	2210	0	3576	1	4942	0	6308	0	7674	0
845	1	2211	0	3577	0	4943	1	6309	0	7675	1
846	1	2212	0	3578	1	4944	1	6310	0	7676	0
847	1	2213	1	3579	1	4945	1	6311	1	7677	0
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849	1	2215	1	3581	1	4947	0	6313	1	7679	1
850	1	2216	1	3582	0	4948	0	6314	0	7680	1
851	1	2217	1	3583	1	4949	1	6315	1	7681	1
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853	1	2219	0	3585	0	4951	0	6317	1	7683	1
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856	0	2222	1	3588	0	4954	0	6320	1	7686	1
857	1	2223	1	3589	0	4955	0	6321	1	7687	0
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861	1	2227	1	3593	0	4959	1	6325	0	7691	1
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867	0	2233	0	3599	0	4965	0	6331	1	7697	1
868	1	2234	0	3600	0	4966	0	6332	1	7698	1
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871	0	2237	1	3603	0	4969	1	6335	1	7701	1
872	1	2238	1	3604	0	4970	1	6336	0	7702	0
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874	1	2240	1	3606	0	4972	0	6338	1	7704	1
875	1	2241	1	3607	1	4973	1	6339	1	7705	1
876	1	2242	1	3608	1	4974	1	6340	0	7706	1
877	1	2243	1	3609	1	4975	0	6341	0	7707	0
878	1	2244	1	3610	0	4976	0	6342	0	7708	0
879	0	2245	0	3611	0	4977	1	6343	1	7709	1
880	0	2246	1	3612	1	4978	1	6344	1	7710	1
881	0	2247	1	3613	1	4979	0	6345	1	7711	0
882	1	2248	1	3614	1	4980	1	6346	0	7712	1
883	1	2249	1	3615	0	4981	0	6347	0	7713	0
884	0	2250	1	3616	1	4982	1	6348	1	7714	1
885	0	2251	0	3617	0	4983	1	6349	0	7715	1
886	1	2252	0	3618	1	4984	1	6350	1	7716	1
887	1	2253	0	3619	0	4985	1	6351	1	7717	0
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889	0	2255	0	3621	1	4987	1	6353	1	7719	1
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891	1	2257	0	3623	1	4989	1	6355	1	7721	0
892	0	2258	1	3624	0	4990	0	6356	0	7722	1
893	0	2259	1	3625	1	4991	0	6357	1	7723	0
894	1	2260	1	3626	0	4992	0	6358	1	7724	0
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896	1	2262	1	3628	1	4994	0	6360	0	7726	0
897	1	2263	1	3629	1	4995	1	6361	1	7727	0
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901	0	2267	0	3633	0	4999	0	6365	1	7731	0
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903	1	2269	1	3635	0	5001	0	6367	1	7733	0
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905	1	2271	1	3637	1	5003	0	6369	1	7735	0
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918	1	2284	1	3650	0	5016	1	6382	1	7748	1
919	1	2285	1	3651	0	5017	0	6383	0	7749	1
920	0	2286	1	3652	1	5018	0	6384	0	7750	1
921	1	2287	0	3653	1	5019	1	6385	0	7751	1
922	1	2288	0	3654	1	5020	1	6386	1	7752	1
923	0	2289	1	3655	0	5021	0	6387	0	7753	1
924	0	2290	0	3656	1	5022	1	6388	0	7754	1
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926	1	2292	0	3658	1	5024	1	6390	1	7756	1
927	0	2293	0	3659	0	5025	0	6391	0	7757	1
928	1	2294	1	3660	1	5026	0	6392	0	7758	0
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936	1	2302	0	3668	0	5034	0	6400	0	7766	1
937	1	2303	0	3669	0	5035	1	6401	1	7767	0
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939	0	2305	1	3671	0	5037	1	6403	1	7769	1
940	0	2306	0	3672	1	5038	1	6404	0	7770	0
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942	0	2308	0	3674	0	5040	0	6406	1	7772	1
943	1	2309	0	3675	0	5041	0	6407	0	7773	1
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946	1	2312	0	3678	0	5044	0	6410	0	7776	0
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974	0	2340	0	3706	1	5072	0	6438	0	7804	0
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987	0	2353	0	3719	0	5085	1	6451	0	7817	1
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1237	1	2603	0	3969	1	5335	1	6701	0	8067	1
1238	0	2604	0	3970	0	5336	0	6702	0	8068	1
1239	0	2605	1	3971	0	5337	0	6703	0	8069	0
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1243	0	2609	0	3975	0	5341	0	6707	1	8073	0
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1252	0	2618	0	3984	1	5350	0	6716	1	8082	1
1253	0	2619	0	3985	0	5351	1	6717	0	8083	1
1254	0	2620	0	3986	0	5352	0	6718	1	8084	0
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