

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

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

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

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

$$p_0(z) = z^{20} + z^{18} + z^{15} + z^{13} + z^{11} + z^{10} + z^8 + z^7 + z^6 + z^4 + z^3 + z^2 + 1,$$

$$p_1(z) = z^{23} + z^{22} + z^{17} + z^{10} + z^9 + z^7 + z^4 + z^3,$$

$$p_2(z) = z^{24} + z^{22} + z^{20} + z^{18} + z^{16} + z^{12} + z^6 + 1,$$

$$p_3(z) = z^{23} + z^{22} + z^{17} + z^{10} + z^9 + z^7 + z^4 + z^3,$$

$$p_4(z) = z^{22} + z^{20} + z^{15} + z^{13} + z^{12} + z^{11} + z^{10} + z^7 + z^4 + z^3 + z^2 + 1,$$

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

$$p_0(z) = z^{18} + z^{16} + z^{15} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^6 + z^4 + z^3 + z^2 + 1$$

$$p_1(z) = z^{23} + z^{22} + z^{17} + z^{10} + z^9 + z^7 + z^4 + z^3,$$

$$p_2(z) = z^{24} + z^{22} + z^{20} + z^{18} + z^{16} + z^{12} + z^6 + 1,$$

$$p_3(z) = z^{23} + z^{22} + z^{17} + z^{10} + z^9 + z^7 + z^4 + z^3,$$

$$p_4(z) = z^{22} + z^{16} + z^{15} + z^{13} + z^{11} + z^{10} + z^7 + z^4 + z^3 + z^2 + 1.$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

$$M_{n+1}(x) = W_n(x) \cdot M_n(x),$$

$$W_{n+1}(x) = M_n(x) \cdot W_n(x).$$

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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 $u = 2^{2k}$,

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

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

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

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

which can be rewritten as

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

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

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

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8121 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

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

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

$$(2.25) \quad \begin{aligned} 1 &= \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 110)), \end{aligned}$$

$$(2.26) \quad \begin{aligned} 0 &= \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) \\ &\quad + \tau(A(s, 111)), \end{aligned}$$

$$(2.27) \quad 1 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

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

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

$$(2.30) \quad \begin{aligned} 1 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 1011)), \end{aligned}$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{72}), E_{72}) = (A(i, 0^{16}), E_{16})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 36$, which turns out to be true. $\square$

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

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

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

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

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

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

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

We give the proof of

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

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

$$(2.31) \quad \begin{aligned} W_{2k} M_{2k} &= (W^e[:6v] + x^{2v} W^e[:4v] + x^{3v} W^e[:3v] + x^{4v} W^e[:2v] + x^{5v} W^e[:v] \\ &\quad + x^{6v} R^e) \times (M^e[:6v] + x^{2v} M^e[:4v] + x^{3v} M^e[:3v] + x^{4v} M^e[:2v] \\ &\quad + x^{5v} M^e[:v] + x^{6v} R^e); \end{aligned}$$

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

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

For all $n \leq 12$, replace the occurrences of $W^e[:n \cdot v]$ and $M^e[:n \cdot v]$ in the above expression by the reduction modulo $x^{n \cdot v}$ of the right side of the corresponding identity in Lemma 2.2 and get a new expression, which we call *rhs*. Define

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

Using the notation introduced above, we can represent the expressions *lhs* (2.31) and *rhs* as polynomials in $\mathbb{F}_2[a_1, \dots, a_{12}, b_1, \dots, b_{12}, c][X]$. Note that it is not a problem that a_j commutes with b_k while W^e does not commute with M^e , because in the expressions concerned, the products of W^e -terms and M^e -terms are always in the same order. We let the computer do the simplification and check that the difference between these two polynomials is indeed $O(X^{12})$, which completes the proof. $\square$

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

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

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

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

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

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

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

Define

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

where

$$\begin{aligned} q_0(x) &= x^{24} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} + x^{16} + x^{14} + x^{13} + x^{11} + x^9 + x^6 \\ &\quad + x^4, \\ q_1(x) &= x^{21} + x^{20} + x^{17} + x^{15} + x^{14} + x^7 + x^2 + x, \end{aligned}$$

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

The polynomial $Q(x, y)$ is the candidate for the minimal polynomial of $f(x)$ found by Padé-Hermite approximation. To prove that it is indeed the minimal polynomial of $f(x)$, we only need to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and $R(x, y) := P(x, y)/Q(x, y)^m$ is not an annihilating polynomial of $f(x)$. We verify the first point directly. For the second point, we find that when we truncate $f(x)$ to order 186, and substitute it for y in $R(z, y)$, we get a series with valuation smaller than 186, which proves that $R(z, y)$ is not an annihilating polynomial of $f(x)$. Finally, $z^{12}Q(1/z, y)$ is the minimal polynomial of $\text{CF}(a, b) = f(1/z)$. $\square$

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{136} + x^{134} + x^{128} + x^{126} + x^{122} + x^{120} + x^{118} + x^{112} + x^{110} \\
&\quad + x^{108} + x^{104} + x^{102} + x^{100} + x^{96} + x^{94} + x^{90} + x^{86} + x^{84} + x^{80} \\
&\quad + x^{76} + x^{74} + x^{66} + x^{64} + x^{62} + x^{60} + x^{54} + x^{52} + x^{48} + x^{46} + x^{40} \\
&\quad + x^{38} + x^{30} + x^{28} + x^{26} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_3(x) &= x^{132} + x^{126} + x^{120} + x^{114} + x^{108} + x^{106} + x^{96} + x^{94} + x^{84} + x^{82} \\
&\quad + x^{80} + x^{66} + x^{64} + x^{60} + x^{58} + x^{56} + x^{44} + x^{34} + x^{32} + x^{28} + x^{26} \\
&\quad + x^{24} + x^{22} + x^{20} + x^{16} + x^{14} + x^{10} + x^8, \\
p_6(x) &= x^{134} + x^{124} + x^{122} + x^{114} + x^{110} + x^{106} + x^{104} + x^{100} + x^{98} + x^{94} \\
&\quad + x^{92} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{74} + x^{70} + x^{68} + x^{66} + x^{64} \\
&\quad + x^{60} + x^{56} + x^{54} + x^{50} + x^{48} + x^{42} + x^{40} + x^{38} + x^{36} + x^{24} + x^{16} \\
&\quad + x^{10} + x^6 + x^4 + 1, \\
p_9(x) &= x^{132} + x^{128} + x^{126} + x^{124} + x^{120} + x^{118} + x^{114} + x^{110} + x^{108} + x^{106} \\
&\quad + x^{98} + x^{90} + x^{88} + x^{84} + x^{82} + x^{80} + x^{78} + x^{74} + x^{72} + x^{70} + x^{68} \\
&\quad + x^{66} + x^{64} + x^{58} + x^{56} + x^{54} + x^{52} + x^{48} + x^{38} + x^{36} + x^{34} + x^{32} \\
&\quad + x^{26} + x^{24} + x^{20} + x^{18} + x^{16} + x^{12} + x^4 + x^2, \\
p_{12}(x) &= x^{138} + x^{136} + x^{130} + x^{128} + x^{114} + x^{112} + x^{82} + x^{80} + x^{58} + x^{56} \\
&\quad + x^{34} + x^{32} + x^{26} + x^{24} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{126} + x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{111}$$

$$\begin{aligned}
& + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{101} + x^{98} + x^{97} + x^{96} \\
& + x^{95} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{82} + x^{79} + x^{78} + x^{75} + x^{74} \\
& + x^{71} + x^{69} + x^{65} + x^{64} + x^{63} + x^{59} + x^{58} + x^{56} + x^{53} + x^{50} + x^{48} \\
& + x^{47} + x^{45} + x^{43} + x^{41} + x^{40} + x^{36} + x^{33} + x^{31} + x^{28} + x^{27} + x^{26} \\
& + x^{24} + x^{23} + x^{21} + x^{18}, \\
p_3(x) &= x^{99} + x^{98} + x^{97} + x^{93} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{84} + x^{82} \\
& + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{72} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} \\
& + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} + x^{54} + x^{52} + x^{51} + x^{45} + x^{44} \\
& + x^{43} + x^{39} + x^{38} + x^{37} + x^{33} + x^{32} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} \\
& + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} + x^9, \\
p_6(x) &= x^{108} + x^{105} + x^{103} + x^{102} + x^{101} + x^{99} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{86} + x^{82} + x^{79} + x^{77} + x^{75} + x^{74} + x^{69} + x^{68} + x^{67} \\
& + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{50} \\
& + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{31} \\
& + x^{30} + x^{29} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{20} + x^{18} + x^{15} + x^{13} \\
& + x^{12} + x^{11} + x^9 + x^8 + x^6, \\
p_9(x) &= x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{103} + x^{102} + x^{101} \\
& + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} + x^{82} + x^{81} \\
& + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} \\
& + x^{63} + x^{62} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{48} + x^{47} \\
& + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} \\
& + x^{28} + x^{27} + x^{23} + x^{22} + x^{21} + x^{15} + x^{14} + x^{12} + x^{11} + x^5 + x^4 + x^3, \\
p_{12}(x) &= x^{126} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{114} + x^{111} + x^{108} \\
& + x^{102} + x^{100} + x^{99} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} + x^{86} + x^{84} + x^{83} \\
& + x^{82} + x^{79} + x^{76} + x^{70} + x^{68} + x^{67} + x^{64} + x^{62} + x^{60} + x^{59} + x^{56} \\
& + x^{54} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{40} + x^{34} + x^{32} + x^{31} \\
& + x^{30} + x^{27} + x^{24} + x^{18} + x^{16} + x^{15} + x^{12} + x^6 + x^4 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{111} \\
& + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{101} + x^{98} + x^{97} + x^{96} \\
& + x^{95} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{82} + x^{79} + x^{78} + x^{75} + x^{74} \\
& + x^{71} + x^{69} + x^{65} + x^{64} + x^{63} + x^{59} + x^{58} + x^{56} + x^{53} + x^{50} + x^{48} \\
& + x^{47} + x^{45} + x^{43} + x^{41} + x^{40} + x^{36} + x^{33} + x^{31} + x^{28} + x^{27} + x^{26} \\
& + x^{24} + x^{23} + x^{21} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{99} + x^{98} + x^{97} + x^{93} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{84} + x^{82} \\
&\quad + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{72} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} \\
&\quad + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} + x^{54} + x^{52} + x^{51} + x^{45} + x^{44} \\
&\quad + x^{43} + x^{39} + x^{38} + x^{37} + x^{33} + x^{32} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} \\
&\quad + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} + x^9, \\
p_6(x) &= x^{108} + x^{105} + x^{103} + x^{102} + x^{101} + x^{99} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} \\
&\quad + x^{89} + x^{88} + x^{86} + x^{82} + x^{79} + x^{77} + x^{75} + x^{74} + x^{69} + x^{68} + x^{67} \\
&\quad + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{50} \\
&\quad + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{31} \\
&\quad + x^{30} + x^{29} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{20} + x^{18} + x^{15} + x^{13} \\
&\quad + x^{12} + x^{11} + x^9 + x^8 + x^6, \\
p_9(x) &= x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{103} + x^{102} + x^{101} \\
&\quad + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} + x^{82} + x^{81} \\
&\quad + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} \\
&\quad + x^{63} + x^{62} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{48} + x^{47} \\
&\quad + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} \\
&\quad + x^{28} + x^{27} + x^{23} + x^{22} + x^{21} + x^{15} + x^{14} + x^{12} + x^{11} + x^5 + x^4 + x^3, \\
p_{12}(x) &= x^{126} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{114} + x^{111} + x^{108} \\
&\quad + x^{102} + x^{100} + x^{99} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} + x^{86} + x^{84} + x^{83} \\
&\quad + x^{82} + x^{79} + x^{76} + x^{70} + x^{68} + x^{67} + x^{64} + x^{62} + x^{60} + x^{59} + x^{56} \\
&\quad + x^{54} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{40} + x^{34} + x^{32} + x^{31} \\
&\quad + x^{30} + x^{27} + x^{24} + x^{18} + x^{16} + x^{15} + x^{12} + x^6 + x^4 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{96} + x^{90} + x^{88} + x^{84} \\
&\quad + x^{82} + x^{74} + x^{70} + x^{62} + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} + x^{50} + x^{46} \\
&\quad + x^{38} + x^{30} + x^{26} + x^{24}, \\
p_3(x) &= x^{108} + x^{98} + x^{94} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{76} + x^{68} + x^{66} \\
&\quad + x^{60} + x^{58} + x^{56} + x^{52} + x^{48} + x^{46} + x^{44} + x^{40} + x^{36} + x^{34} + x^{32} \\
&\quad + x^{26} + x^{20} + x^{16} + x^{14} + x^8 + x^6, \\
p_6(x) &= x^{110} + x^{104} + x^{102} + x^{100} + x^{98} + x^{92} + x^{90} + x^{86} + x^{84} + x^{82} + x^{74} \\
&\quad + x^{72} + x^{70} + x^{66} + x^{64} + x^{60} + x^{58} + x^{54} + x^{40} + x^{38} + x^{36} + x^{26} \\
&\quad + x^{18} + x^{14} + x^{12} + x^{10} + x^4 + 1, \\
p_9(x) &= x^{108} + x^{104} + x^{100} + x^{96} + x^{92} + x^{88} + x^{84} + x^{82} + x^{80} + x^{72} + x^{68} \\
&\quad + x^{66} + x^{62} + x^{54} + x^{52} + x^{48} + x^{46} + x^{42} + x^{38} + x^{36} + x^{30} + x^{28}
\end{aligned}$$

$$\begin{aligned}
& + x^{20} + x^{18} + x^{10} + x^6 + x^4 + x^2, \\
p_{12}(x) = & x^{114} + x^{112} + x^{108} + x^{100} + x^{98} + x^{96} + x^{82} + x^{80} + x^{76} + x^{68} + x^{66} \\
& + x^{64} + x^{50} + x^{48} + x^{44} + x^{36} + x^{28} + x^{20} + x^{12} + x^4 + x^2 + 1,
\end{aligned}$$

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

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

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

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{111} \\
& + x^{110} + x^{107} + x^{106} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{95} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{83} + x^{80} + x^{79} + x^{77} + x^{71} + x^{69} \\
& + x^{66} + x^{64} + x^{62} + x^{61} + x^{59} + x^{57} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} \\
& + x^{48} + x^{47} + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} \\
& + x^{26} + x^{24}, \\
p_3(x) = & x^{99} + x^{98} + x^{97} + x^{93} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{84} + x^{82} \\
& + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{72} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} \\
& + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} + x^{54} + x^{52} + x^{51} + x^{45} + x^{44} \\
& + x^{43} + x^{39} + x^{38} + x^{37} + x^{33} + x^{32} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} \\
& + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} + x^9, \\
p_6(x) = & x^{108} + x^{105} + x^{103} + x^{102} + x^{101} + x^{99} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{86} + x^{82} + x^{79} + x^{77} + x^{75} + x^{74} + x^{69} + x^{68} + x^{67} \\
& + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{50}
\end{aligned}$$

$$\begin{aligned}
& + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{31} \\
& + x^{30} + x^{29} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{20} + x^{18} + x^{15} + x^{13} \\
& + x^{12} + x^{11} + x^9 + x^8 + x^6, \\
p_9(x) &= x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{103} + x^{102} + x^{101} \\
& + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} + x^{82} + x^{81} \\
& + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} \\
& + x^{63} + x^{62} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{48} + x^{47} \\
& + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} \\
& + x^{28} + x^{27} + x^{23} + x^{22} + x^{21} + x^{15} + x^{14} + x^{12} + x^{11} + x^5 + x^4 + x^3, \\
p_{12}(x) &= x^{126} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{114} + x^{111} + x^{108} \\
& + x^{102} + x^{100} + x^{99} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} + x^{86} + x^{84} + x^{83} \\
& + x^{82} + x^{79} + x^{76} + x^{70} + x^{68} + x^{67} + x^{64} + x^{62} + x^{60} + x^{59} + x^{56} \\
& + x^{54} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{40} + x^{34} + x^{32} + x^{31} \\
& + x^{30} + x^{27} + x^{24} + x^{18} + x^{16} + x^{15} + x^{12} + x^6 + x^4 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{111} \\
& + x^{110} + x^{107} + x^{106} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{95} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{83} + x^{80} + x^{79} + x^{77} + x^{71} + x^{69} \\
& + x^{66} + x^{64} + x^{62} + x^{61} + x^{59} + x^{57} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} \\
& + x^{48} + x^{47} + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} \\
& + x^{26} + x^{24}, \\
p_3(x) &= x^{99} + x^{98} + x^{97} + x^{93} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{84} + x^{82} \\
& + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{72} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} \\
& + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} + x^{54} + x^{52} + x^{51} + x^{45} + x^{44} \\
& + x^{43} + x^{39} + x^{38} + x^{37} + x^{33} + x^{32} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} \\
& + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} + x^9, \\
p_6(x) &= x^{108} + x^{105} + x^{103} + x^{102} + x^{101} + x^{99} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{86} + x^{82} + x^{79} + x^{77} + x^{75} + x^{74} + x^{69} + x^{68} + x^{67} \\
& + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{50} \\
& + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{31} \\
& + x^{30} + x^{29} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{20} + x^{18} + x^{15} + x^{13} \\
& + x^{12} + x^{11} + x^9 + x^8 + x^6, \\
p_9(x) &= x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{103} + x^{102} + x^{101} \\
& + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} + x^{82} + x^{81}
\end{aligned}$$

$$\begin{aligned}
& + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} \\
& + x^{63} + x^{62} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{48} + x^{47} \\
& + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} \\
& + x^{28} + x^{27} + x^{23} + x^{22} + x^{21} + x^{15} + x^{14} + x^{12} + x^{11} + x^5 + x^4 + x^3, \\
p_{12}(x) = & x^{126} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{114} + x^{111} + x^{108} \\
& + x^{102} + x^{100} + x^{99} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} + x^{86} + x^{84} + x^{83} \\
& + x^{82} + x^{79} + x^{76} + x^{70} + x^{68} + x^{67} + x^{64} + x^{62} + x^{60} + x^{59} + x^{56} \\
& + x^{54} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{40} + x^{34} + x^{32} + x^{31} \\
& + x^{30} + x^{27} + x^{24} + x^{18} + x^{16} + x^{15} + x^{12} + x^6 + x^4 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{136} + x^{134} + x^{128} + x^{124} + x^{118} + x^{112} + x^{108} + x^{106} + x^{104} \\
& + x^{102} + x^{94} + x^{92} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{76} + x^{72} + x^{68} \\
& + x^{64} + x^{60} + x^{58} + x^{54} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{40} + x^{38} \\
& + x^{36}, \\
p_3(x) = & x^{132} + x^{126} + x^{114} + x^{112} + x^{110} + x^{104} + x^{102} + x^{100} + x^{96} + x^{94} \\
& + x^{92} + x^{86} + x^{84} + x^{80} + x^{78} + x^{72} + x^{66} + x^{62} + x^{56} + x^{54} + x^{52} \\
& + x^{48} + x^{46} + x^{44} + x^{42} + x^{36} + x^{28} + x^{24} + x^{22} + x^{18} + x^{16} + x^{14} \\
& + x^8 + x^6, \\
p_6(x) = & x^{134} + x^{126} + x^{118} + x^{116} + x^{110} + x^{100} + x^{98} + x^{94} + x^{88} + x^{84} \\
& + x^{82} + x^{78} + x^{64} + x^{62} + x^{52} + x^{48} + x^{46} + x^{42} + x^{38} + x^{34} + x^{32} \\
& + x^{30} + x^{28} + x^{22} + x^{14} + x^{12} + x^{10} + x^8 + x^6 + 1, \\
p_9(x) = & x^{132} + x^{128} + x^{126} + x^{124} + x^{120} + x^{118} + x^{114} + x^{110} + x^{108} + x^{106} \\
& + x^{98} + x^{90} + x^{88} + x^{84} + x^{82} + x^{80} + x^{78} + x^{74} + x^{72} + x^{70} + x^{68} \\
& + x^{66} + x^{64} + x^{58} + x^{56} + x^{54} + x^{52} + x^{48} + x^{38} + x^{36} + x^{34} + x^{32} \\
& + x^{26} + x^{24} + x^{20} + x^{18} + x^{16} + x^{12} + x^4 + x^2, \\
p_{12}(x) = & x^{138} + x^{136} + x^{130} + x^{128} + x^{114} + x^{112} + x^{82} + x^{80} + x^{58} + x^{56} \\
& + x^{34} + x^{32} + x^{26} + x^{24} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{110} + x^{109} \\
& + x^{107} + x^{106} + x^{104} + x^{103} + x^{99} + x^{98} + x^{97} + x^{95} + x^{93} + x^{86} \\
& + x^{85} + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{75} + x^{74} + x^{70} + x^{67} + x^{65} \\
& + x^{60} + x^{59} + x^{53} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{43} + x^{39} + x^{37} \\
& + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{27} + x^{26} + x^{24} + x^{22} + x^{21}
\end{aligned}$$

$$\begin{aligned}
& + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{12}, \\
p_3(x) = & x^{114} + x^{112} + x^{111} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{93} \\
& + x^{92} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{80} + x^{79} + x^{75} + x^{74} \\
& + x^{73} + x^{71} + x^{70} + x^{67} + x^{66} + x^{64} + x^{62} + x^{58} + x^{57} + x^{56} + x^{55} \\
& + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} \\
& + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} + x^{19} + x^{17} \\
& + x^{16} + x^{13} + x^{12} + x^{11} + x^{10} + x^8, \\
p_6(x) = & x^{122} + x^{119} + x^{117} + x^{115} + x^{112} + x^{107} + x^{106} + x^{104} + x^{103} + x^{100} \\
& + x^{98} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{84} + x^{81} + x^{80} + x^{74} \\
& + x^{71} + x^{70} + x^{68} + x^{66} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} \\
& + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{43} + x^{32} + x^{31} + x^{29} + x^{23} + x^{22} \\
& + x^{21} + x^{19} + x^{16} + x^{13} + x^9 + x^8 + x^7 + x^3 + 1, \\
p_9(x) = & x^{114} + x^{112} + x^{111} + x^{110} + x^{107} + x^{106} + x^{103} + x^{100} + x^{82} + x^{80} \\
& + x^{79} + x^{78} + x^{75} + x^{74} + x^{71} + x^{68} + x^{50} + x^{48} + x^{47} + x^{46} + x^{43} \\
& + x^{42} + x^{39} + x^{36} + x^{34} + x^{32} + x^{31} + x^{30} + x^{27} + x^{26} + x^{23} + x^{20} \\
& + x^{18} + x^{16} + x^{15} + x^{14} + x^{11} + x^{10} + x^7 + x^4, \\
p_{12}(x) = & x^{126} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{112} + x^{110} + x^{108} \\
& + x^{107} + x^{106} + x^{103} + x^{102} + x^{99} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} \\
& + x^{86} + x^{84} + x^{83} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{71} + x^{70} + x^{67} \\
& + x^{64} + x^{62} + x^{60} + x^{59} + x^{56} + x^{54} + x^{52} + x^{51} + x^{48} + x^{42} + x^{40} \\
& + x^{39} + x^{36} + x^{26} + x^{24} + x^{23} + x^{20} + x^{14} + x^{12} + x^{11} + x^{10} + x^7 \\
& + x^6 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{124} + x^{115} + x^{113} + x^{112} + x^{110} + x^{106} + x^{104} + x^{103} + x^{102} + x^{101} \\
& + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} + x^{91} + x^{89} + x^{85} + x^{84} + x^{83} \\
& + x^{78} + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} + x^{59} \\
& + x^{55} + x^{54} + x^{52} + x^{48} + x^{46} + x^{40} + x^{36} + x^{35} + x^{34} + x^{33} + x^{29} \\
& + x^{28} + x^{27} + x^{24} + x^{23} + x^{20} + x^{18}, \\
p_3(x) = & x^{97} + x^{96} + x^{92} + x^{89} + x^{87} + x^{81} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} \\
& + x^{73} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{60} + x^{57} + x^{56} \\
& + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} + x^{44} + x^{40} + x^{39} + x^{36} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{20} + x^{17} + x^{16} + x^{14} + x^{13} \\
& + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{106} + x^{104} + x^{98} + x^{90} + x^{88} + x^{86} + x^{80} + x^{78} + x^{74} + x^{72} + x^{70}
\end{aligned}$$

$$\begin{aligned}
& + x^{68} + x^{66} + x^{62} + x^{52} + x^{48} + x^{42} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} \\
& + x^{28} + x^{24} + x^{22} + x^{20} + x^{16} + x^{14} + x^8 + x^6, \\
p_9(x) = & x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{105} + x^{104} + x^{103} \\
& + x^{100} + x^{99} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} \\
& + x^{71} + x^{68} + x^{67} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} + x^{44} + x^{43} + x^{41} \\
& + x^{40} + x^{39} + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} \\
& + x^{23} + x^{20} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12} + x^{11} + x^9 + x^8 + x^7 + x^4 \\
& + x^3, \\
p_{12}(x) = & x^{124} + x^{120} + x^{116} + x^{112} + x^{108} + x^{96} + x^{92} + x^{88} + x^{84} + x^{80} + x^{76} \\
& + x^{64} + x^{60} + x^{56} + x^{52} + x^{48} + x^{40} + x^{36} + x^{24} + x^{20} + x^{12} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{140} + x^{131} + x^{129} + x^{126} + x^{120} + x^{118} + x^{113} + x^{110} + x^{107} + x^{105} \\
& + x^{104} + x^{103} + x^{101} + x^{97} + x^{93} + x^{89} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} \\
& + x^{78} + x^{76} + x^{72} + x^{71} + x^{69} + x^{67} + x^{65} + x^{64} + x^{62} + x^{60} + x^{54} \\
& + x^{53} + x^{49} + x^{46} + x^{45} + x^{41} + x^{39} + x^{38} + x^{37} + x^{34} + x^{32} + x^{27} \\
& + x^{24}, \\
p_3(x) = & x^{113} + x^{112} + x^{108} + x^{105} + x^{103} + x^{101} + x^{100} + x^{97} + x^{96} + x^{95} \\
& + x^{94} + x^{93} + x^{92} + x^{90} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{76} + x^{72} \\
& + x^{69} + x^{67} + x^{60} + x^{59} + x^{58} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{49} \\
& + x^{48} + x^{46} + x^{42} + x^{39} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{29} + x^{27} \\
& + x^{25} + x^{24} + x^{19} + x^{18} + x^{16} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{122} + x^{120} + x^{114} + x^{110} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} \\
& + x^{70} + x^{68} + x^{60} + x^{52} + x^{48} + x^{46} + x^{40} + x^{36} + x^{30} + x^{18} + x^8 \\
& + x^6, \\
p_9(x) = & x^{131} + x^{130} + x^{129} + x^{128} + x^{126} + x^{124} + x^{123} + x^{121} + x^{120} + x^{118} \\
& + x^{117} + x^{115} + x^{114} + x^{112} + x^{110} + x^{105} + x^{104} + x^{103} + x^{100} \\
& + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{89} + x^{88} + x^{86} + x^{85} + x^{83} \\
& + x^{82} + x^{80} + x^{78} + x^{73} + x^{72} + x^{71} + x^{68} + x^{66} + x^{65} + x^{64} + x^{62} \\
& + x^{60} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{49} + x^{44} + x^{43} + x^{39} + x^{38} \\
& + x^{37} + x^{36} + x^{35} + x^{33} + x^{28} + x^{27} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} \\
& + x^{16} + x^{14} + x^9 + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) = & x^{140} + x^{136} + x^{132} + x^{116} + x^{112} + x^{108} + x^{100} + x^{96} + x^{84} + x^{80} \\
& + x^{76} + x^{68} + x^{64} + x^{60} + x^{56} + x^{48} + x^{44} + x^{24} + x^{20} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{112} \\
&\quad + x^{111} + x^{109} + x^{108} + x^{106} + x^{105} + x^{101} + x^{99} + x^{98} + x^{95} + x^{93} \\
&\quad + x^{91} + x^{89} + x^{88} + x^{85} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} \\
&\quad + x^{67} + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{51} + x^{47} \\
&\quad + x^{45} + x^{44} + x^{42} + x^{35} + x^{30}, \\
p_3(x) &= x^{114} + x^{112} + x^{111} + x^{105} + x^{103} + x^{101} + x^{99} + x^{98} + x^{91} + x^{89} \\
&\quad + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{70} + x^{64} + x^{63} + x^{60} + x^{59} + x^{58} \\
&\quad + x^{54} + x^{51} + x^{50} + x^{49} + x^{44} + x^{43} + x^{39} + x^{31} + x^{30} + x^{29} + x^{28} \\
&\quad + x^{27} + x^{26} + x^{25} + x^{24} + x^{20} + x^{15} + x^{14} + x^{12}, \\
p_6(x) &= x^{122} + x^{119} + x^{117} + x^{115} + x^{114} + x^{111} + x^{110} + x^{108} + x^{105} + x^{104} \\
&\quad + x^{103} + x^{101} + x^{100} + x^{98} + x^{95} + x^{93} + x^{92} + x^{89} + x^{86} + x^{84} + x^{82} \\
&\quad + x^{81} + x^{80} + x^{79} + x^{77} + x^{75} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{64} \\
&\quad + x^{63} + x^{62} + x^{60} + x^{59} + x^{58} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} \\
&\quad + x^{46} + x^{45} + x^{44} + x^{42} + x^{38} + x^{37} + x^{32} + x^{28} + x^{27} + x^{25} + x^{24} \\
&\quad + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{12} + x^{11} + x^{10} + x^8 + x^6 + x^4 \\
&\quad + x^3 + 1, \\
p_9(x) &= x^{114} + x^{112} + x^{111} + x^{110} + x^{107} + x^{106} + x^{103} + x^{100} + x^{82} + x^{80} \\
&\quad + x^{79} + x^{78} + x^{75} + x^{74} + x^{71} + x^{68} + x^{50} + x^{48} + x^{47} + x^{46} + x^{43} \\
&\quad + x^{42} + x^{39} + x^{36} + x^{34} + x^{32} + x^{31} + x^{30} + x^{27} + x^{26} + x^{23} + x^{20} \\
&\quad + x^{18} + x^{16} + x^{15} + x^{14} + x^{11} + x^{10} + x^7 + x^4, \\
p_{12}(x) &= x^{126} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{112} + x^{110} + x^{108} \\
&\quad + x^{107} + x^{106} + x^{103} + x^{102} + x^{99} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} \\
&\quad + x^{86} + x^{84} + x^{83} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{71} + x^{70} + x^{67} \\
&\quad + x^{64} + x^{62} + x^{60} + x^{59} + x^{56} + x^{54} + x^{52} + x^{51} + x^{48} + x^{42} + x^{40} \\
&\quad + x^{39} + x^{36} + x^{26} + x^{24} + x^{23} + x^{20} + x^{14} + x^{12} + x^{11} + x^{10} + x^7 \\
&\quad + x^6 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{110} + x^{109} \\
&\quad + x^{107} + x^{106} + x^{104} + x^{103} + x^{99} + x^{98} + x^{97} + x^{95} + x^{93} + x^{86} \\
&\quad + x^{85} + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{75} + x^{74} + x^{70} + x^{67} + x^{65} \\
&\quad + x^{60} + x^{59} + x^{53} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{43} + x^{39} + x^{37} \\
&\quad + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{27} + x^{26} + x^{24} + x^{22} + x^{21} \\
&\quad + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{114} + x^{112} + x^{111} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{93} \\
&\quad + x^{92} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{80} + x^{79} + x^{75} + x^{74} \\
&\quad + x^{73} + x^{71} + x^{70} + x^{67} + x^{66} + x^{64} + x^{62} + x^{58} + x^{57} + x^{56} + x^{55} \\
&\quad + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} \\
&\quad + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} + x^{19} + x^{17} \\
&\quad + x^{16} + x^{13} + x^{12} + x^{11} + x^{10} + x^8, \\
p_6(x) &= x^{122} + x^{119} + x^{117} + x^{115} + x^{112} + x^{107} + x^{106} + x^{104} + x^{103} + x^{100} \\
&\quad + x^{98} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{84} + x^{81} + x^{80} + x^{74} \\
&\quad + x^{71} + x^{70} + x^{68} + x^{66} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} \\
&\quad + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{43} + x^{32} + x^{31} + x^{29} + x^{23} + x^{22} \\
&\quad + x^{21} + x^{19} + x^{16} + x^{13} + x^9 + x^8 + x^7 + x^3 + 1, \\
p_9(x) &= x^{114} + x^{112} + x^{111} + x^{110} + x^{107} + x^{106} + x^{103} + x^{100} + x^{82} + x^{80} \\
&\quad + x^{79} + x^{78} + x^{75} + x^{74} + x^{71} + x^{68} + x^{50} + x^{48} + x^{47} + x^{46} + x^{43} \\
&\quad + x^{42} + x^{39} + x^{36} + x^{34} + x^{32} + x^{31} + x^{30} + x^{27} + x^{26} + x^{23} + x^{20} \\
&\quad + x^{18} + x^{16} + x^{15} + x^{14} + x^{11} + x^{10} + x^7 + x^4, \\
p_{12}(x) &= x^{126} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{112} + x^{110} + x^{108} \\
&\quad + x^{107} + x^{106} + x^{103} + x^{102} + x^{99} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} \\
&\quad + x^{86} + x^{84} + x^{83} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{71} + x^{70} + x^{67} \\
&\quad + x^{64} + x^{62} + x^{60} + x^{59} + x^{56} + x^{54} + x^{52} + x^{51} + x^{48} + x^{42} + x^{40} \\
&\quad + x^{39} + x^{36} + x^{26} + x^{24} + x^{23} + x^{20} + x^{14} + x^{12} + x^{11} + x^{10} + x^7 \\
&\quad + x^6 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{140} + x^{131} + x^{129} + x^{126} + x^{120} + x^{118} + x^{113} + x^{110} + x^{107} + x^{105} \\
&\quad + x^{104} + x^{103} + x^{101} + x^{97} + x^{93} + x^{89} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} \\
&\quad + x^{78} + x^{76} + x^{72} + x^{71} + x^{69} + x^{67} + x^{65} + x^{64} + x^{62} + x^{60} + x^{54} \\
&\quad + x^{53} + x^{49} + x^{46} + x^{45} + x^{41} + x^{39} + x^{38} + x^{37} + x^{34} + x^{32} + x^{27} \\
&\quad + x^{24}, \\
p_3(x) &= x^{113} + x^{112} + x^{108} + x^{105} + x^{103} + x^{101} + x^{100} + x^{97} + x^{96} + x^{95} \\
&\quad + x^{94} + x^{93} + x^{92} + x^{90} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{76} + x^{72} \\
&\quad + x^{69} + x^{67} + x^{60} + x^{59} + x^{58} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{49} \\
&\quad + x^{48} + x^{46} + x^{42} + x^{39} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{29} + x^{27} \\
&\quad + x^{25} + x^{24} + x^{19} + x^{18} + x^{16} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{122} + x^{120} + x^{114} + x^{110} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} \\
&\quad + x^{70} + x^{68} + x^{60} + x^{52} + x^{48} + x^{46} + x^{40} + x^{36} + x^{30} + x^{18} + x^8
\end{aligned}$$

$$\begin{aligned}
& + x^6, \\
p_9(x) &= x^{131} + x^{130} + x^{129} + x^{128} + x^{126} + x^{124} + x^{123} + x^{121} + x^{120} + x^{118} \\
& + x^{117} + x^{115} + x^{114} + x^{112} + x^{110} + x^{105} + x^{104} + x^{103} + x^{100} \\
& + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{89} + x^{88} + x^{86} + x^{85} + x^{83} \\
& + x^{82} + x^{80} + x^{78} + x^{73} + x^{72} + x^{71} + x^{68} + x^{66} + x^{65} + x^{64} + x^{62} \\
& + x^{60} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{49} + x^{44} + x^{43} + x^{39} + x^{38} \\
& + x^{37} + x^{36} + x^{35} + x^{33} + x^{28} + x^{27} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} \\
& + x^{16} + x^{14} + x^9 + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{140} + x^{136} + x^{132} + x^{116} + x^{112} + x^{108} + x^{100} + x^{96} + x^{84} + x^{80} \\
& + x^{76} + x^{68} + x^{64} + x^{60} + x^{56} + x^{48} + x^{44} + x^{24} + x^{20} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{115} + x^{113} + x^{112} + x^{110} + x^{106} + x^{104} + x^{103} + x^{102} + x^{101} \\
& + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} + x^{91} + x^{89} + x^{85} + x^{84} + x^{83} \\
& + x^{78} + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} + x^{59} \\
& + x^{55} + x^{54} + x^{52} + x^{48} + x^{46} + x^{40} + x^{36} + x^{35} + x^{34} + x^{33} + x^{29} \\
& + x^{28} + x^{27} + x^{24} + x^{23} + x^{20} + x^{18}, \\
p_3(x) &= x^{97} + x^{96} + x^{92} + x^{89} + x^{87} + x^{81} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} \\
& + x^{73} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{60} + x^{57} + x^{56} \\
& + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} + x^{44} + x^{40} + x^{39} + x^{36} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{20} + x^{17} + x^{16} + x^{14} + x^{13} \\
& + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{106} + x^{104} + x^{98} + x^{90} + x^{88} + x^{86} + x^{80} + x^{78} + x^{74} + x^{72} + x^{70} \\
& + x^{68} + x^{66} + x^{62} + x^{52} + x^{48} + x^{42} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} \\
& + x^{28} + x^{24} + x^{22} + x^{20} + x^{16} + x^{14} + x^8 + x^6, \\
p_9(x) &= x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{105} + x^{104} + x^{103} \\
& + x^{100} + x^{99} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} \\
& + x^{71} + x^{68} + x^{67} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} + x^{44} + x^{43} + x^{41} \\
& + x^{40} + x^{39} + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} \\
& + x^{23} + x^{20} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12} + x^{11} + x^9 + x^8 + x^7 + x^4 \\
& + x^3, \\
p_{12}(x) &= x^{124} + x^{120} + x^{116} + x^{112} + x^{108} + x^{96} + x^{92} + x^{88} + x^{84} + x^{80} + x^{76} \\
& + x^{64} + x^{60} + x^{56} + x^{52} + x^{48} + x^{40} + x^{36} + x^{24} + x^{20} + x^{12} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{112} \\
&\quad + x^{111} + x^{109} + x^{108} + x^{106} + x^{105} + x^{101} + x^{99} + x^{98} + x^{95} + x^{93} \\
&\quad + x^{91} + x^{89} + x^{88} + x^{85} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} \\
&\quad + x^{67} + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{51} + x^{47} \\
&\quad + x^{45} + x^{44} + x^{42} + x^{35} + x^{30}, \\
p_3(x) &= x^{114} + x^{112} + x^{111} + x^{105} + x^{103} + x^{101} + x^{99} + x^{98} + x^{91} + x^{89} \\
&\quad + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{70} + x^{64} + x^{63} + x^{60} + x^{59} + x^{58} \\
&\quad + x^{54} + x^{51} + x^{50} + x^{49} + x^{44} + x^{43} + x^{39} + x^{31} + x^{30} + x^{29} + x^{28} \\
&\quad + x^{27} + x^{26} + x^{25} + x^{24} + x^{20} + x^{15} + x^{14} + x^{12}, \\
p_6(x) &= x^{122} + x^{119} + x^{117} + x^{115} + x^{114} + x^{111} + x^{110} + x^{108} + x^{105} + x^{104} \\
&\quad + x^{103} + x^{101} + x^{100} + x^{98} + x^{95} + x^{93} + x^{92} + x^{89} + x^{86} + x^{84} + x^{82} \\
&\quad + x^{81} + x^{80} + x^{79} + x^{77} + x^{75} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{64} \\
&\quad + x^{63} + x^{62} + x^{60} + x^{59} + x^{58} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} \\
&\quad + x^{46} + x^{45} + x^{44} + x^{42} + x^{38} + x^{37} + x^{32} + x^{28} + x^{27} + x^{25} + x^{24} \\
&\quad + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{12} + x^{11} + x^{10} + x^8 + x^6 + x^4 \\
&\quad + x^3 + 1, \\
p_9(x) &= x^{114} + x^{112} + x^{111} + x^{110} + x^{107} + x^{106} + x^{103} + x^{100} + x^{82} + x^{80} \\
&\quad + x^{79} + x^{78} + x^{75} + x^{74} + x^{71} + x^{68} + x^{50} + x^{48} + x^{47} + x^{46} + x^{43} \\
&\quad + x^{42} + x^{39} + x^{36} + x^{34} + x^{32} + x^{31} + x^{30} + x^{27} + x^{26} + x^{23} + x^{20} \\
&\quad + x^{18} + x^{16} + x^{15} + x^{14} + x^{11} + x^{10} + x^7 + x^4, \\
p_{12}(x) &= x^{126} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{112} + x^{110} + x^{108} \\
&\quad + x^{107} + x^{106} + x^{103} + x^{102} + x^{99} + x^{96} + x^{94} + x^{92} + x^{91} + x^{88} \\
&\quad + x^{86} + x^{84} + x^{83} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{71} + x^{70} + x^{67} \\
&\quad + x^{64} + x^{62} + x^{60} + x^{59} + x^{56} + x^{54} + x^{52} + x^{51} + x^{48} + x^{42} + x^{40} \\
&\quad + x^{39} + x^{36} + x^{26} + x^{24} + x^{23} + x^{20} + x^{14} + x^{12} + x^{11} + x^{10} + x^7 \\
&\quad + x^6 + x^3 + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2031	[1618, 1217]	4062	[4981, 5210]	6093	[7595, 6924]
1	[3, 4]	2032	[3510, 3286]	4063	[5927, 3145]	6094	[3267, 4890]
2	[5, 6]	2033	[3511, 3512]	4064	[2955, 6058]	6095	[4208, 6918]
3	[7, 8]	2034	[3513, 3514]	4065	[2020, 2471]	6096	[7573, 7596]

4	[9, 10]	2035	[3515, 3516]	4066	[2459, 5753]	6097	[7597, 1009]
5	[11, 12]	2036	[3517, 3518]	4067	[6059, 5908]	6098	[6939, 7598]
6	[13, 14]	2037	[3361, 3519]	4068	[6060, 5909]	6099	[7599, 7600]
7	[15, 16]	2038	[3520, 3521]	4069	[5776, 5911]	6100	[4046, 3733]
8	[17, 18]	2039	[1104, 1072]	4070	[6061, 5913]	6101	[7601, 7602]
9	[19, 20]	2040	[3522, 1256]	4071	[5169, 6062]	6102	[4330, 7603]
10	[21, 22]	2041	[3523, 3524]	4072	[5910, 5030]	6103	[7231, 3477]
11	[23, 24]	2042	[3422, 3217]	4073	[2942, 6063]	6104	[7604, 1575]
12	[25, 26]	2043	[3525, 3526]	4074	[6064, 6065]	6105	[7605, 1577]
13	[27, 28]	2044	[3328, 3527]	4075	[5432, 5748]	6106	[3293, 1277]
14	[29, 30]	2045	[3528, 3529]	4076	[5292, 2363]	6107	[7363, 4283]
15	[31, 32]	2046	[3530, 3531]	4077	[6066, 2516]	6108	[7162, 6859]
16	[33, 34]	2047	[372, 3532]	4078	[5998, 860]	6109	[3237, 4391]
17	[35, 36]	2048	[3533, 3534]	4079	[6067, 5991]	6110	[4159, 3255]
18	[37, 38]	2049	[3535, 3536]	4080	[6068, 571]	6111	[7135, 7462]
19	[39, 40]	2050	[3537, 3538]	4081	[6069, 5741]	6112	[7606, 6985]
20	[41, 42]	2051	[3539, 3540]	4082	[6070, 2851]	6113	[7607, 7214]
21	[43, 44]	2052	[3541, 1493]	4083	[5805, 53]	6114	[7608, 3979]
22	[45, 46]	2053	[3542, 3543]	4084	[2744, 6071]	6115	[1029, 117]
23	[47, 48]	2054	[3544, 3545]	4085	[6072, 2070]	6116	[7311, 1090]
24	[49, 50]	2055	[106, 3458]	4086	[6073, 1962]	6117	[7609, 1547]
25	[51, 52]	2056	[3546, 3461]	4087	[6074, 6075]	6118	[3519, 4494]
26	[53, 54]	2057	[314, 3547]	4088	[6076, 6077]	6119	[6927, 4476]
27	[55, 56]	2058	[3548, 3426]	4089	[2090, 5606]	6120	[7527, 6876]
28	[57, 58]	2059	[3549, 3550]	4090	[2194, 6078]	6121	[7382, 7061]
29	[59, 60]	2060	[3551, 425]	4091	[6079, 5929]	6122	[4894, 7450]
30	[61, 62]	2061	[3552, 3553]	4092	[2981, 2033]	6123	[990, 1345]
31	[63, 64]	2062	[3554, 3555]	4093	[2412, 5989]	6124	[7235, 7387]
32	[65, 66]	2063	[3556, 3510]	4094	[6080, 6081]	6125	[3312, 7513]
33	[67, 68]	2064	[3557, 3558]	4095	[6082, 6083]	6126	[7451, 7610]
34	[69, 70]	2065	[3559, 1099]	4096	[6084, 6085]	6127	[1490, 7275]
35	[71, 72]	2066	[3560, 3561]	4097	[6086, 6056]	6128	[7611, 3681]
36	[73, 74]	2067	[3562, 3563]	4098	[6087, 963]	6129	[7612, 7613]
37	[75, 76]	2068	[3564, 3565]	4099	[703, 6088]	6130	[4534, 365]
38	[77, 78]	2069	[3566, 3567]	4100	[6089, 6090]	6131	[7614, 7615]
39	[79, 80]	2070	[3568, 254]	4101	[6091, 5987]	6132	[7616, 7442]
40	[81, 82]	2071	[3569, 3570]	4102	[6092, 6093]	6133	[1606, 7617]
41	[83, 84]	2072	[1576, 87]	4103	[2865, 6094]	6134	[7575, 7618]
42	[85, 86]	2073	[3571, 3572]	4104	[5831, 3075]	6135	[92, 1263]
43	[87, 88]	2074	[1763, 3573]	4105	[1996, 6095]	6136	[7128, 4757]
44	[89, 90]	2075	[1365, 3574]	4106	[6045, 6096]	6137	[7557, 4842]
45	[91, 92]	2076	[3575, 3576]	4107	[5153, 1984]	6138	[1781, 7619]
46	[93, 94]	2077	[1711, 1586]	4108	[6097, 6098]	6139	[7204, 6937]
47	[95, 96]	2078	[1707, 3577]	4109	[6099, 6100]	6140	[3250, 7620]

48	[97, 98]	2079	[20, 3578]	4110	[2406, 2857]	6141	[7543, 3664]
49	[99, 100]	2080	[3579, 1736]	4111	[6101, 2468]	6142	[7517, 4137]
50	[101, 102]	2081	[3580, 3581]	4112	[6102, 6103]	6143	[6808, 7163]
51	[103, 104]	2082	[3582, 3583]	4113	[6104, 6105]	6144	[88, 6839]
52	[105, 106]	2083	[3584, 3585]	4114	[6106, 6107]	6145	[7372, 7360]
53	[107, 108]	2084	[3586, 3587]	4115	[6108, 5070]	6146	[7621, 7437]
54	[109, 110]	2085	[3588, 3589]	4116	[6109, 6110]	6147	[4551, 7091]
55	[111, 112]	2086	[3590, 3591]	4117	[6111, 6112]	6148	[400, 7114]
56	[113, 114]	2087	[3592, 3593]	4118	[6113, 6114]	6149	[3398, 7020]
57	[115, 116]	2088	[3594, 3595]	4119	[6115, 6116]	6150	[7445, 7024]
58	[117, 118]	2089	[3596, 3597]	4120	[5213, 6117]	6151	[7259, 6813]
59	[119, 120]	2090	[3435, 3598]	4121	[6118, 6119]	6152	[1548, 7622]
60	[121, 122]	2091	[3599, 3600]	4122	[558, 6120]	6153	[6843, 7490]
61	[123, 124]	2092	[3601, 1636]	4123	[5945, 6121]	6154	[4955, 4147]
62	[125, 126]	2093	[3602, 3401]	4124	[5295, 2623]	6155	[4385, 1378]
63	[127, 128]	2094	[3603, 1688]	4125	[6088, 3167]	6156	[7140, 4745]
64	[129, 130]	2095	[3604, 3605]	4126	[5443, 5802]	6157	[7496, 1558]
65	[131, 132]	2096	[3433, 3606]	4127	[6122, 6123]	6158	[7623, 7112]
66	[133, 134]	2097	[1307, 3607]	4128	[6038, 6124]	6159	[6759, 7624]
67	[135, 136]	2098	[1283, 3608]	4129	[5399, 5530]	6160	[7090, 7301]
68	[137, 138]	2099	[3609, 421]	4130	[5819, 6125]	6161	[3824, 7107]
69	[139, 140]	2100	[3610, 3586]	4131	[5821, 6126]	6162	[6987, 281]
70	[141, 142]	2101	[3611, 3612]	4132	[6127, 6128]	6163	[7625, 7033]
71	[143, 144]	2102	[3613, 3614]	4133	[6129, 2523]	6164	[6840, 7559]
72	[145, 146]	2103	[3615, 983]	4134	[6130, 2368]	6165	[282, 7216]
73	[147, 148]	2104	[3616, 3617]	4135	[6131, 5473]	6166	[1027, 3323]
74	[149, 150]	2105	[3618, 3619]	4136	[6132, 2782]	6167	[7626, 4202]
75	[151, 152]	2106	[3620, 3621]	4137	[3102, 6133]	6168	[7023, 3460]
76	[153, 154]	2107	[3622, 3623]	4138	[6134, 6135]	6169	[7627, 7194]
77	[155, 156]	2108	[3624, 3625]	4139	[6041, 194]	6170	[4665, 109]
78	[157, 158]	2109	[3626, 3627]	4140	[6136, 6137]	6171	[7628, 3985]
79	[159, 160]	2110	[3628, 3629]	4141	[6138, 6039]	6172	[7629, 7630]
80	[161, 162]	2111	[3529, 3630]	4142	[6139, 6140]	6173	[7427, 4293]
81	[163, 164]	2112	[3631, 3632]	4143	[6141, 149]	6174	[3193, 1474]
82	[165, 166]	2113	[3633, 3634]	4144	[6142, 6143]	6175	[7631, 7508]
83	[167, 168]	2114	[3455, 309]	4145	[606, 6144]	6176	[7632, 7633]
84	[169, 170]	2115	[3635, 3636]	4146	[2284, 5940]	6177	[7572, 4575]
85	[171, 172]	2116	[3540, 3296]	4147	[6145, 6146]	6178	[1253, 7634]
86	[173, 174]	2117	[3637, 3638]	4148	[6147, 6148]	6179	[4667, 7635]
87	[175, 176]	2118	[3639, 1302]	4149	[6149, 1903]	6180	[449, 7192]
88	[177, 178]	2119	[3640, 3641]	4150	[6150, 6151]	6181	[7636, 4278]
89	[179, 180]	2120	[1017, 3642]	4151	[6152, 3058]	6182	[7153, 4378]
90	[181, 182]	2121	[3643, 3644]	4152	[5082, 6153]	6183	[3383, 7510]
91	[183, 45]	2122	[3645, 3646]	4153	[5390, 5917]	6184	[7637, 3313]

92	[184, 185]	2123	[3647, 3648]	4154	[6154, 6155]	6185	[1507, 4742]
93	[186, 187]	2124	[3649, 3650]	4155	[6156, 6157]	6186	[7208, 6841]
94	[188, 189]	2125	[3651, 3652]	4156	[6158, 6159]	6187	[4184, 7086]
95	[190, 191]	2126	[3653, 1419]	4157	[5402, 2784]	6188	[1276, 7638]
96	[192, 193]	2127	[3654, 3655]	4158	[6160, 2966]	6189	[7313, 4279]
97	[194, 195]	2128	[3656, 468]	4159	[2853, 181]	6190	[1635, 4401]
98	[196, 197]	2129	[108, 3657]	4160	[771, 2834]	6191	[4574, 1619]
99	[198, 199]	2130	[3658, 454]	4161	[6161, 3125]	6192	[4758, 7373]
100	[200, 201]	2131	[3659, 3660]	4162	[5520, 6162]	6193	[6956, 4605]
101	[202, 203]	2132	[3661, 3449]	4163	[6163, 641]	6194	[7109, 7056]
102	[204, 205]	2133	[3662, 3663]	4164	[148, 5706]	6195	[7594, 7639]
103	[206, 207]	2134	[3664, 3665]	4165	[6015, 5733]	6196	[7640, 7362]
104	[208, 209]	2135	[3666, 3366]	4166	[5880, 6136]	6197	[7641, 1197]
105	[210, 211]	2136	[1342, 3667]	4167	[6164, 6165]	6198	[3482, 4472]
106	[212, 213]	2137	[342, 3668]	4168	[612, 6166]	6199	[4948, 4474]
107	[214, 215]	2138	[3669, 3670]	4169	[6167, 2450]	6200	[4860, 1809]
108	[216, 217]	2139	[3671, 3579]	4170	[6168, 6169]	6201	[6824, 4871]
109	[218, 219]	2140	[3672, 3673]	4171	[6128, 6170]	6202	[7148, 3853]
110	[220, 221]	2141	[1257, 3674]	4172	[6171, 2858]	6203	[7642, 7643]
111	[222, 223]	2142	[3675, 3676]	4173	[2695, 6172]	6204	[7474, 7588]
112	[224, 225]	2143	[3677, 3678]	4174	[6173, 6174]	6205	[7516, 7632]
113	[226, 227]	2144	[3679, 3680]	4175	[3056, 6175]	6206	[7302, 7530]
114	[203, 228]	2145	[3681, 3635]	4176	[3002, 6176]	6207	[7402, 4702]
115	[229, 230]	2146	[3682, 1720]	4177	[6177, 6178]	6208	[6875, 4270]
116	[231, 232]	2147	[3683, 3684]	4178	[6179, 6180]	6209	[1585, 3909]
117	[233, 234]	2148	[3685, 3686]	4179	[6181, 6182]	6210	[3676, 3920]
118	[235, 236]	2149	[3687, 3688]	4180	[1952, 6183]	6211	[4247, 7071]
119	[237, 238]	2150	[1381, 3689]	4181	[6184, 2818]	6212	[7644, 3604]
120	[239, 240]	2151	[3690, 3691]	4182	[5977, 6185]	6213	[7645, 3633]
121	[241, 242]	2152	[3692, 1248]	4183	[6186, 2852]	6214	[7502, 423]
122	[243, 244]	2153	[3693, 3694]	4184	[6187, 5142]	6215	[7535, 4809]
123	[245, 246]	2154	[3695, 3696]	4185	[6188, 5739]	6216	[322, 7579]
124	[247, 248]	2155	[1371, 3697]	4186	[6189, 6190]	6217	[4839, 7646]
125	[249, 250]	2156	[3698, 3699]	4187	[6191, 6192]	6218	[7306, 3810]
126	[251, 252]	2157	[3700, 3701]	4188	[6193, 6194]	6219	[4025, 4797]
127	[253, 254]	2158	[3702, 3703]	4189	[6195, 1945]	6220	[1650, 7571]
128	[255, 256]	2159	[316, 3704]	4190	[6196, 6197]	6221	[4606, 3499]
129	[257, 258]	2160	[469, 3705]	4191	[5428, 5199]	6222	[7185, 7647]
130	[259, 260]	2161	[3706, 3707]	4192	[6198, 6199]	6223	[1102, 1137]
131	[261, 262]	2162	[3708, 3709]	4193	[6200, 2522]	6224	[7171, 3484]
132	[263, 264]	2163	[3710, 3711]	4194	[6201, 6202]	6225	[7648, 1107]
133	[265, 266]	2164	[3712, 3713]	4195	[6203, 6204]	6226	[6989, 337]
134	[267, 268]	2165	[3714, 3715]	4196	[2649, 2921]	6227	[7649, 7650]
135	[269, 270]	2166	[3716, 115]	4197	[6205, 6206]	6228	[7651, 413]

136	[271, 272]	2167	[3717, 3718]	4198	[6207, 6208]	6229	[6908, 7196]
137	[273, 274]	2168	[3719, 3720]	4199	[5875, 6209]	6230	[7478, 4655]
138	[275, 276]	2169	[3721, 3722]	4200	[2770, 2615]	6231	[6902, 4903]
139	[277, 278]	2170	[3723, 3724]	4201	[5861, 5832]	6232	[377, 7629]
140	[279, 280]	2171	[3181, 1070]	4202	[6210, 6211]	6233	[7652, 7653]
141	[281, 282]	2172	[3725, 3726]	4203	[5677, 2917]	6234	[7654, 4847]
142	[283, 284]	2173	[3727, 3728]	4204	[6212, 6068]	6235	[445, 4627]
143	[285, 286]	2174	[3729, 3730]	4205	[6213, 5923]	6236	[4772, 3357]
144	[287, 288]	2175	[3646, 3731]	4206	[2408, 3151]	6237	[4264, 6899]
145	[289, 290]	2176	[1705, 3732]	4207	[5585, 6214]	6238	[3950, 7655]
146	[291, 292]	2177	[3733, 3734]	4208	[6215, 728]	6239	[7215, 7578]
147	[293, 294]	2178	[3735, 3736]	4209	[2457, 3021]	6240	[412, 1014]
148	[295, 296]	2179	[3737, 3738]	4210	[162, 6216]	6241	[3791, 7273]
149	[297, 298]	2180	[3739, 3173]	4211	[2656, 5344]	6242	[7603, 3317]
150	[299, 300]	2181	[3740, 3741]	4212	[3049, 2411]	6243	[7656, 7404]
151	[301, 302]	2182	[3742, 3743]	4213	[6217, 6218]	6244	[7657, 6923]
152	[303, 304]	2183	[3744, 3745]	4214	[6219, 2378]	6245	[1664, 6779]
153	[305, 306]	2184	[3746, 3747]	4215	[594, 6220]	6246	[1214, 7658]
154	[307, 308]	2185	[3748, 3327]	4216	[2820, 6221]	6247	[7401, 7011]
155	[309, 310]	2186	[3749, 1603]	4217	[6222, 5638]	6248	[6818, 3602]
156	[311, 312]	2187	[3750, 1589]	4218	[568, 6223]	6249	[7272, 7569]
157	[313, 314]	2188	[3751, 1776]	4219	[5415, 6224]	6250	[3372, 7659]
158	[315, 316]	2189	[3752, 1282]	4220	[2360, 6150]	6251	[7546, 1355]
159	[317, 318]	2190	[3753, 3754]	4221	[3088, 5948]	6252	[7660, 7661]
160	[319, 320]	2191	[3755, 3756]	4222	[6225, 6226]	6253	[3437, 3978]
161	[321, 322]	2192	[3757, 3758]	4223	[6227, 6228]	6254	[3893, 4581]
162	[323, 324]	2193	[3759, 3760]	4224	[6229, 5438]	6255	[6967, 7534]
163	[325, 326]	2194	[3761, 3762]	4225	[6230, 5962]	6256	[6877, 3956]
164	[327, 328]	2195	[3621, 3763]	4226	[5110, 6231]	6257	[3655, 7554]
165	[329, 330]	2196	[3764, 3765]	4227	[2190, 6232]	6258	[1204, 4054]
166	[331, 332]	2197	[3766, 3767]	4228	[2727, 5840]	6259	[7662, 1213]
167	[333, 334]	2198	[3768, 3769]	4229	[6233, 145]	6260	[3516, 4023]
168	[335, 336]	2199	[3770, 3771]	4230	[6234, 5674]	6261	[4793, 7663]
169	[337, 338]	2200	[3772, 3183]	4231	[6235, 6236]	6262	[4188, 7664]
170	[339, 340]	2201	[3773, 3774]	4232	[5795, 5936]	6263	[7198, 7286]
171	[341, 342]	2202	[3775, 3776]	4233	[6237, 6073]	6264	[7665, 1800]
172	[343, 344]	2203	[3777, 3778]	4234	[6238, 2958]	6265	[3597, 7621]
173	[345, 346]	2204	[3779, 3780]	4235	[5907, 5493]	6266	[4143, 7179]
174	[347, 348]	2205	[3258, 3781]	4236	[176, 2983]	6267	[7310, 7666]
175	[349, 350]	2206	[3585, 3782]	4237	[6078, 6239]	6268	[4050, 7667]
176	[351, 352]	2207	[3783, 3784]	4238	[5373, 6240]	6269	[1701, 4956]
177	[353, 354]	2208	[3785, 3786]	4239	[6241, 5751]	6270	[7565, 3278]
178	[355, 356]	2209	[3787, 3788]	4240	[6242, 1911]	6271	[4009, 7172]
179	[357, 358]	2210	[471, 3789]	4241	[6243, 6244]	6272	[398, 1497]

180	[359, 360]	2211	[3790, 3791]	4242	[6245, 5921]	6273	[4011, 3785]
181	[361, 362]	2212	[3792, 3690]	4243	[6246, 6247]	6274	[4461, 6887]
182	[363, 364]	2213	[3793, 3794]	4244	[6248, 6010]	6275	[7576, 7547]
183	[365, 366]	2214	[3795, 3796]	4245	[3168, 6249]	6276	[1106, 7085]
184	[367, 368]	2215	[3797, 3798]	4246	[5969, 553]	6277	[7354, 7333]
185	[369, 370]	2216	[3191, 261]	4247	[5186, 1839]	6278	[7610, 7668]
186	[371, 372]	2217	[3799, 3800]	4248	[6250, 6251]	6279	[6936, 6938]
187	[373, 374]	2218	[1004, 1374]	4249	[6252, 6253]	6280	[7669, 378]
188	[375, 79]	2219	[1616, 460]	4250	[6254, 6255]	6281	[3780, 7670]
189	[376, 377]	2220	[3801, 3772]	4251	[5572, 3089]	6282	[3403, 4075]
190	[378, 379]	2221	[3391, 3797]	4252	[6256, 6257]	6283	[387, 3671]
191	[380, 381]	2222	[3802, 3803]	4253	[6258, 6259]	6284	[7671, 3792]
192	[382, 383]	2223	[1766, 3804]	4254	[5642, 2953]	6285	[6952, 4810]
193	[384, 385]	2224	[3242, 438]	4255	[6260, 543]	6286	[7392, 305]
194	[386, 387]	2225	[3805, 3345]	4256	[6261, 755]	6287	[7602, 7342]
195	[388, 389]	2226	[3806, 3807]	4257	[5426, 6262]	6288	[7624, 7521]
196	[112, 390]	2227	[3808, 343]	4258	[6263, 5565]	6289	[7672, 7359]
197	[391, 392]	2228	[1463, 3809]	4259	[1963, 6264]	6290	[7673, 7674]
198	[393, 394]	2229	[3810, 3811]	4260	[2173, 6265]	6291	[7643, 7590]
199	[395, 396]	2230	[3812, 3520]	4261	[6266, 2907]	6292	[3707, 7675]
200	[397, 398]	2231	[3813, 3814]	4262	[765, 5137]	6293	[7552, 4854]
201	[399, 400]	2232	[3385, 3815]	4263	[6267, 746]	6294	[7676, 7515]
202	[401, 402]	2233	[1679, 3816]	4264	[6268, 6187]	6295	[4455, 3742]
203	[403, 404]	2234	[3817, 3818]	4265	[3059, 6055]	6296	[4257, 7574]
204	[405, 406]	2235	[3598, 3819]	4266	[6269, 5949]	6297	[7320, 4792]
205	[407, 408]	2236	[3820, 1757]	4267	[185, 229]	6298	[7295, 3481]
206	[409, 410]	2237	[3821, 3822]	4268	[6270, 2303]	6299	[7368, 7645]
207	[411, 412]	2238	[3224, 985]	4269	[2358, 6271]	6300	[4961, 3596]
208	[413, 414]	2239	[16, 1647]	4270	[2407, 884]	6301	[6812, 7677]
209	[415, 416]	2240	[3823, 3824]	4271	[6272, 2751]	6302	[7425, 6801]
210	[417, 418]	2241	[3825, 3826]	4272	[2322, 6238]	6303	[1176, 7678]
211	[419, 420]	2242	[3827, 3828]	4273	[1834, 6273]	6304	[7539, 1325]
212	[421, 422]	2243	[3829, 3830]	4274	[6274, 2902]	6305	[7668, 7679]
213	[423, 424]	2244	[3831, 3832]	4275	[6275, 5992]	6306	[6860, 4670]
214	[425, 426]	2245	[3833, 3834]	4276	[5160, 6276]	6307	[7567, 7027]
215	[427, 428]	2246	[3835, 1746]	4277	[5670, 6277]	6308	[4817, 4966]
216	[429, 430]	2247	[3836, 3837]	4278	[6116, 5470]	6309	[7349, 7274]
217	[431, 432]	2248	[3838, 3839]	4279	[6278, 5855]	6310	[3281, 1310]
218	[433, 313]	2249	[3840, 3841]	4280	[6279, 5145]	6311	[4723, 7258]
219	[434, 435]	2250	[3842, 3843]	4281	[3027, 5710]	6312	[1426, 6861]
220	[436, 437]	2251	[3271, 3844]	4282	[6280, 2962]	6313	[4442, 7538]
221	[438, 439]	2252	[3845, 3846]	4283	[6281, 5391]	6314	[7021, 7234]
222	[440, 441]	2253	[3847, 3848]	4284	[1887, 581]	6315	[7680, 1567]
223	[442, 443]	2254	[3849, 3850]	4285	[5800, 6282]	6316	[6773, 7221]

224	[444, 445]	2255	[3851, 3852]	4286	[6283, 2739]	6317	[3927, 7681]
225	[446, 447]	2256	[3853, 3854]	4287	[6284, 1949]	6318	[7682, 3479]
226	[448, 449]	2257	[3251, 3855]	4288	[6151, 6285]	6319	[3583, 6972]
227	[450, 451]	2258	[3856, 3802]	4289	[6286, 6207]	6320	[7434, 7318]
228	[452, 453]	2259	[3857, 3858]	4290	[5754, 5310]	6321	[1810, 4746]
229	[454, 455]	2260	[3859, 3860]	4291	[6287, 6288]	6322	[7040, 7226]
230	[456, 457]	2261	[3861, 3862]	4292	[6289, 1920]	6323	[7683, 1051]
231	[458, 459]	2262	[3863, 3864]	4293	[6290, 5268]	6324	[7337, 7281]
232	[460, 461]	2263	[1391, 3865]	4294	[6291, 6074]	6325	[3660, 7684]
233	[462, 463]	2264	[3866, 3867]	4295	[2162, 6292]	6326	[4324, 1396]
234	[464, 465]	2265	[3868, 3869]	4296	[248, 6293]	6327	[4140, 7685]
235	[466, 467]	2266	[3870, 3871]	4297	[853, 505]	6328	[1412, 1623]
236	[468, 469]	2267	[3872, 3873]	4298	[6294, 5644]	6329	[1414, 4684]
237	[470, 471]	2268	[3743, 3620]	4299	[6295, 6026]	6330	[4508, 7562]
238	[472, 473]	2269	[3667, 3874]	4300	[6296, 6044]	6331	[7319, 7686]
239	[463, 474]	2270	[1778, 3444]	4301	[6297, 2985]	6332	[4451, 7526]
240	[475, 476]	2271	[1344, 3875]	4302	[596, 2764]	6333	[3641, 6838]
241	[477, 478]	2272	[284, 3876]	4303	[6298, 5749]	6334	[1612, 7687]
242	[479, 480]	2273	[3877, 3878]	4304	[5854, 2895]	6335	[4920, 351]
243	[481, 482]	2274	[3879, 450]	4305	[4979, 684]	6336	[3491, 3508]
244	[483, 484]	2275	[3880, 3881]	4306	[6299, 6233]	6337	[7688, 1560]
245	[485, 486]	2276	[3882, 3883]	4307	[2075, 5806]	6338	[3957, 4031]
246	[487, 488]	2277	[3884, 3885]	4308	[6300, 5630]	6339	[6869, 407]
247	[489, 490]	2278	[3587, 3886]	4309	[6301, 6302]	6340	[3600, 7400]
248	[491, 492]	2279	[3887, 3735]	4310	[6303, 6013]	6341	[1804, 4331]
249	[493, 494]	2280	[3888, 3889]	4311	[5287, 6304]	6342	[7250, 1767]
250	[495, 496]	2281	[3890, 3891]	4312	[6305, 6306]	6343	[7054, 4597]
251	[497, 498]	2282	[1245, 1272]	4313	[6307, 8]	6344	[368, 27]
252	[499, 500]	2283	[1747, 1649]	4314	[6308, 5890]	6345	[7689, 7440]
253	[501, 502]	2284	[3892, 3893]	4315	[756, 6309]	6346	[3910, 7489]
254	[503, 504]	2285	[3894, 3490]	4316	[5835, 6258]	6347	[4682, 7690]
255	[505, 506]	2286	[3353, 333]	4317	[6310, 678]	6348	[4317, 345]
256	[507, 508]	2287	[1449, 3895]	4318	[2915, 6311]	6349	[7691, 4248]
257	[509, 510]	2288	[3896, 3897]	4319	[136, 6312]	6350	[7371, 3362]
258	[511, 512]	2289	[3898, 3899]	4320	[6094, 3077]	6351	[7228, 497]
259	[513, 514]	2290	[1087, 3900]	4321	[6313, 6314]	6352	[4799, 4570]
260	[515, 516]	2291	[1739, 3901]	4322	[659, 5188]	6353	[1015, 4686]
261	[517, 518]	2292	[1625, 3902]	4323	[6315, 5881]	6354	[7283, 7692]
262	[519, 520]	2293	[3903, 3904]	4324	[2124, 3047]	6355	[7693, 3471]
263	[521, 522]	2294	[3905, 3906]	4325	[5229, 4982]	6356	[3709, 7312]
264	[523, 524]	2295	[3907, 3908]	4326	[6316, 57]	6357	[7694, 7695]
265	[525, 526]	2296	[3909, 3910]	4327	[2100, 5582]	6358	[4673, 1405]
266	[527, 528]	2297	[3911, 411]	4328	[6317, 6318]	6359	[4604, 7560]
267	[529, 530]	2298	[3912, 3913]	4329	[5963, 6319]	6360	[7505, 6912]

268	[531, 532]	2299	[3914, 3915]	4330	[2957, 5180]	6361	[7696, 7466]
269	[234, 239]	2300	[3916, 3917]	4331	[3020, 5951]	6362	[1054, 71]
270	[62, 533]	2301	[3918, 3919]	4332	[5842, 6320]	6363	[473, 6905]
271	[238, 534]	2302	[3920, 3921]	4333	[5668, 5931]	6364	[7164, 7152]
272	[535, 536]	2303	[3452, 3922]	4334	[968, 6321]	6365	[7580, 7498]
273	[537, 538]	2304	[3665, 3923]	4335	[900, 2979]	6366	[4287, 1091]
274	[539, 540]	2305	[3924, 3925]	4336	[2783, 5659]	6367	[7697, 7649]
275	[541, 542]	2306	[3926, 3927]	4337	[5259, 6322]	6368	[7664, 3542]
276	[543, 544]	2307	[3928, 3929]	4338	[2155, 5436]	6369	[7350, 4338]
277	[545, 546]	2308	[3919, 3930]	4339	[6323, 879]	6370	[7218, 7698]
278	[547, 548]	2309	[3931, 3932]	4340	[5003, 2613]	6371	[7699, 4299]
279	[549, 550]	2310	[3933, 3934]	4341	[6224, 6324]	6372	[6919, 7700]
280	[551, 552]	2311	[3935, 3936]	4342	[5683, 623]	6373	[7701, 1742]
281	[553, 554]	2312	[3937, 317]	4343	[844, 6325]	6374	[3804, 7564]
282	[555, 556]	2313	[1654, 3938]	4344	[6326, 6327]	6375	[4538, 7139]
283	[557, 558]	2314	[3939, 3940]	4345	[6328, 6329]	6376	[7702, 7384]
284	[559, 560]	2315	[3941, 3942]	4346	[5704, 776]	6377	[7703, 1454]
285	[561, 562]	2316	[3943, 3944]	4347	[152, 5484]	6378	[7291, 6778]
286	[563, 564]	2317	[3308, 3945]	4348	[2856, 6310]	6379	[4921, 3294]
287	[565, 566]	2318	[3946, 3947]	4349	[6330, 5132]	6380	[360, 7704]
288	[567, 568]	2319	[3940, 3948]	4350	[6331, 2937]	6381	[1346, 4599]
289	[569, 570]	2320	[366, 3333]	4351	[846, 6332]	6382	[370, 7122]
290	[571, 572]	2321	[3949, 3950]	4352	[6333, 5720]	6383	[7304, 4496]
291	[573, 574]	2322	[3951, 3952]	4353	[6334, 6335]	6384	[7183, 1644]
292	[575, 576]	2323	[3235, 3953]	4354	[2149, 6336]	6385	[7598, 1370]
293	[577, 578]	2324	[3574, 3954]	4355	[5782, 5508]	6386	[7217, 7705]
294	[579, 580]	2325	[3955, 3645]	4356	[564, 5845]	6387	[6848, 1175]
295	[581, 582]	2326	[3956, 3957]	4357	[2333, 6337]	6388	[6849, 1177]
296	[583, 584]	2327	[3958, 3959]	4358	[6338, 700]	6389	[7687, 7656]
297	[585, 586]	2328	[3960, 3961]	4359	[6339, 5620]	6390	[3316, 3263]
298	[587, 588]	2329	[3962, 3963]	4360	[6340, 6341]	6391	[4529, 7468]
299	[589, 590]	2330	[3964, 3965]	4361	[5560, 6342]	6392	[7443, 3451]
300	[591, 592]	2331	[3966, 3967]	4362	[2800, 509]	6393	[490, 4911]
301	[593, 594]	2332	[3968, 1084]	4363	[5280, 6343]	6394	[4693, 7706]
302	[595, 596]	2333	[3969, 3949]	4364	[6344, 6345]	6395	[7707, 7587]
303	[597, 598]	2334	[441, 3970]	4365	[2483, 5824]	6396	[4004, 3371]
304	[599, 600]	2335	[3971, 3972]	4366	[6346, 6308]	6397	[4964, 7708]
305	[601, 602]	2336	[3973, 3974]	4367	[2046, 5616]	6398	[7224, 7407]
306	[603, 604]	2337	[3975, 3976]	4368	[5903, 6156]	6399	[7134, 7606]
307	[605, 606]	2338	[276, 3977]	4369	[6347, 6348]	6400	[4637, 1458]
308	[607, 608]	2339	[3978, 3775]	4370	[5365, 3129]	6401	[3472, 4840]
309	[609, 610]	2340	[3979, 3980]	4371	[6349, 6350]	6402	[1643, 4398]
310	[611, 612]	2341	[3981, 3982]	4372	[6351, 6352]	6403	[4034, 1121]
311	[613, 614]	2342	[1502, 3983]	4373	[180, 2572]	6404	[7532, 7455]

312	[615, 616]	2343	[3984, 1642]	4374	[6353, 2285]	6405	[7709, 3559]
313	[617, 618]	2344	[3985, 3986]	4375	[1871, 6354]	6406	[4544, 3683]
314	[619, 55]	2345	[1447, 3987]	4376	[6355, 2701]	6407	[7710, 4639]
315	[620, 621]	2346	[3988, 3989]	4377	[6014, 5775]	6408	[6998, 7563]
316	[622, 129]	2347	[3990, 3991]	4378	[6356, 6357]	6409	[6771, 1579]
317	[623, 624]	2348	[3992, 3993]	4379	[6358, 5687]	6410	[4941, 4525]
318	[625, 626]	2349	[3994, 3995]	4380	[6359, 918]	6411	[4756, 7711]
319	[627, 628]	2350	[3996, 3997]	4381	[5914, 6360]	6412	[7712, 4922]
320	[629, 630]	2351	[3998, 3999]	4382	[6361, 6362]	6413	[3830, 7052]
321	[631, 632]	2352	[4000, 4001]	4383	[6363, 6212]	6414	[3503, 7713]
322	[633, 634]	2353	[4002, 3322]	4384	[5449, 6364]	6415	[3696, 1648]
323	[635, 636]	2354	[4003, 4004]	4385	[6365, 6366]	6416	[7658, 6761]
324	[637, 638]	2355	[3736, 4005]	4386	[6367, 6368]	6417	[1533, 7714]
325	[639, 640]	2356	[4006, 4007]	4387	[5721, 6369]	6418	[4282, 7059]
326	[641, 642]	2357	[4008, 4009]	4388	[862, 5081]	6419	[424, 7127]
327	[574, 643]	2358	[4010, 4011]	4389	[2463, 5012]	6420	[6904, 4450]
328	[223, 644]	2359	[4012, 4013]	4390	[2205, 6106]	6421	[4094, 4603]
329	[645, 646]	2360	[1369, 4014]	4391	[6370, 6371]	6422	[7715, 6868]
330	[647, 648]	2361	[3769, 4015]	4392	[2214, 6372]	6423	[1709, 89]
331	[649, 650]	2362	[3754, 4016]	4393	[5516, 6373]	6424	[7716, 6807]
332	[651, 652]	2363	[4017, 3227]	4394	[5985, 6374]	6425	[1668, 4629]
333	[653, 654]	2364	[4018, 4019]	4395	[5958, 5783]	6426	[4493, 7672]
334	[655, 587]	2365	[3674, 4020]	4396	[5072, 6070]	6427	[7653, 7607]
335	[656, 657]	2366	[4021, 4022]	4397	[5916, 6375]	6428	[7377, 4624]
336	[658, 659]	2367	[4023, 3759]	4398	[2922, 1831]	6429	[3466, 7717]
337	[660, 661]	2368	[4024, 1044]	4399	[6376, 5713]	6430	[3786, 1685]
338	[662, 663]	2369	[3176, 4025]	4400	[5613, 6377]	6431	[3425, 3517]
339	[664, 665]	2370	[1064, 4026]	4401	[6378, 2603]	6432	[1227, 6920]
340	[666, 667]	2371	[3901, 4027]	4402	[6379, 6353]	6433	[7718, 6866]
341	[668, 669]	2372	[3411, 4028]	4403	[6380, 6381]	6434	[7719, 3682]
342	[670, 671]	2373	[4029, 4030]	4404	[6144, 2296]	6435	[4109, 7720]
343	[672, 673]	2374	[4031, 3501]	4405	[5672, 6188]	6436	[6790, 7219]
344	[674, 675]	2375	[1453, 4032]	4406	[6382, 5357]	6437	[7463, 6973]
345	[676, 677]	2376	[4033, 4034]	4407	[5406, 841]	6438	[7145, 4254]
346	[678, 679]	2377	[4035, 4036]	4408	[5392, 6383]	6439	[7721, 7124]
347	[680, 681]	2378	[4037, 1748]	4409	[6384, 3164]	6440	[7722, 7537]
348	[682, 683]	2379	[4038, 4039]	4410	[6385, 843]	6441	[7469, 7117]
349	[684, 685]	2380	[4040, 1684]	4411	[5141, 6386]	6442	[6852, 7682]
350	[686, 687]	2381	[1678, 4041]	4412	[2269, 2106]	6443	[1733, 7642]
351	[688, 689]	2382	[4042, 4043]	4413	[6387, 6388]	6444	[3206, 7549]
352	[690, 691]	2383	[4044, 4045]	4414	[6389, 1859]	6445	[7414, 7581]
353	[692, 693]	2384	[3262, 4046]	4415	[5087, 6256]	6446	[7723, 4737]
354	[694, 695]	2385	[4047, 3334]	4416	[5482, 2530]	6447	[4367, 4314]
355	[696, 697]	2386	[4048, 4049]	4417	[1912, 6390]	6448	[7043, 1032]

356	[698, 699]	2387	[3715, 4050]	4418	[6391, 5421]	6449	[3841, 7724]
357	[700, 701]	2388	[4051, 3721]	4419	[6392, 6393]	6450	[1496, 7725]
358	[702, 703]	2389	[4052, 4053]	4420	[6394, 5761]	6451	[4789, 7726]
359	[704, 9]	2390	[4054, 386]	4421	[2447, 5118]	6452	[7370, 1620]
360	[705, 706]	2391	[4055, 4056]	4422	[5604, 6395]	6453	[7727, 7676]
361	[707, 708]	2392	[4057, 4058]	4423	[552, 6396]	6454	[1455, 7584]
362	[709, 710]	2393	[4059, 4060]	4424	[3160, 6061]	6455	[7728, 7729]
363	[711, 712]	2394	[4061, 4062]	4425	[3162, 6397]	6456	[4728, 3637]
364	[713, 714]	2395	[4063, 4064]	4426	[1924, 6398]	6457	[4753, 388]
365	[715, 716]	2396	[4065, 4066]	4427	[5376, 6399]	6458	[4970, 4]
366	[717, 718]	2397	[4067, 4068]	4428	[3039, 6400]	6459	[7679, 3884]
367	[719, 720]	2398	[4069, 4070]	4429	[6401, 6025]	6460	[4482, 4612]
368	[721, 722]	2399	[4071, 4072]	4430	[6402, 5656]	6461	[1420, 4681]
369	[598, 723]	2400	[4073, 4074]	4431	[2377, 6403]	6462	[4843, 7730]
370	[724, 725]	2401	[4075, 4076]	4432	[851, 635]	6463	[3408, 7731]
371	[726, 727]	2402	[4077, 4078]	4433	[6404, 5769]	6464	[6816, 987]
372	[728, 729]	2403	[3365, 4079]	4434	[2455, 61]	6465	[7464, 3847]
373	[730, 731]	2404	[4080, 4081]	4435	[5080, 6339]	6466	[1725, 3654]
374	[732, 733]	2405	[4082, 4083]	4436	[2291, 6164]	6467	[7585, 4798]
375	[734, 735]	2406	[1379, 3677]	4437	[6405, 6097]	6468	[356, 7732]
376	[736, 737]	2407	[4084, 4085]	4438	[6406, 2146]	6469	[3283, 7733]
377	[738, 739]	2408	[3837, 3943]	4439	[6407, 6298]	6470	[4628, 7223]
378	[740, 741]	2409	[986, 1805]	4440	[2009, 6408]	6471	[6907, 7491]
379	[742, 743]	2410	[4086, 4087]	4441	[6409, 6410]	6472	[4417, 3838]
380	[744, 745]	2411	[4088, 4089]	4442	[6411, 5900]	6473	[7055, 4301]
381	[746, 747]	2412	[4090, 4091]	4443	[5394, 6181]	6474	[7734, 1055]
382	[221, 748]	2413	[4092, 1519]	4444	[6412, 6413]	6475	[4015, 4323]
383	[749, 750]	2414	[4093, 3245]	4445	[6414, 6415]	6476	[7589, 4457]
384	[751, 752]	2415	[1749, 4094]	4446	[2840, 6416]	6477	[3505, 3751]
385	[753, 754]	2416	[4095, 4096]	4447	[6417, 6418]	6478	[4152, 7735]
386	[755, 756]	2417	[4097, 4098]	4448	[6247, 6419]	6479	[3815, 1097]
387	[757, 758]	2418	[4099, 4100]	4449	[6420, 2683]	6480	[7736, 7657]
388	[759, 760]	2419	[4101, 4102]	4450	[2418, 3147]	6481	[4595, 4694]
389	[761, 762]	2420	[4103, 4104]	4451	[6421, 5242]	6482	[4962, 6831]
390	[763, 188]	2421	[4105, 4106]	4452	[818, 6422]	6483	[7737, 4195]
391	[764, 765]	2422	[4107, 3528]	4453	[5422, 6423]	6484	[1075, 1744]
392	[766, 767]	2423	[4108, 4109]	4454	[5993, 6424]	6485	[1367, 4549]
393	[768, 769]	2424	[4110, 4111]	4455	[960, 6425]	6486	[7633, 1074]
394	[770, 771]	2425	[4112, 4113]	4456	[2167, 939]	6487	[3612, 6803]
395	[772, 773]	2426	[1220, 4114]	4457	[6426, 1934]	6488	[7132, 7149]
396	[774, 775]	2427	[4115, 4116]	4458	[6427, 6428]	6489	[7242, 4357]
397	[776, 777]	2428	[4117, 1677]	4459	[911, 6429]	6490	[7003, 4837]
398	[778, 779]	2429	[3952, 4118]	4460	[160, 6430]	6491	[3980, 4329]
399	[780, 781]	2430	[4119, 4120]	4461	[6431, 2538]	6492	[3416, 4112]

400	[782, 783]	2431	[3303, 4006]	4462	[6271, 6432]	6493	[7174, 6980]
401	[636, 784]	2432	[4121, 4122]	4463	[6433, 2074]	6494	[1402, 7738]
402	[785, 786]	2433	[4123, 4124]	4464	[2772, 6434]	6495	[7435, 4848]
403	[787, 788]	2434	[1229, 4125]	4465	[5435, 5661]	6496	[7706, 1450]
404	[789, 633]	2435	[4126, 4127]	4466	[2064, 6315]	6497	[4971, 1059]
405	[790, 791]	2436	[4128, 4129]	4467	[6435, 2905]	6498	[3982, 7739]
406	[792, 793]	2437	[4130, 4131]	4468	[6388, 607]	6499	[1071, 7727]
407	[794, 795]	2438	[1081, 4132]	4469	[1830, 2271]	6500	[7555, 1675]
408	[796, 797]	2439	[4133, 4134]	4470	[6436, 5463]	6501	[4005, 7740]
409	[798, 799]	2440	[1730, 4135]	4471	[2498, 6437]	6502	[7741, 3971]
410	[800, 801]	2441	[4136, 1049]	4472	[5883, 2425]	6503	[3222, 3727]
411	[802, 803]	2442	[4137, 4138]	4473	[5386, 6438]	6504	[7742, 4519]
412	[804, 805]	2443	[3915, 3783]	4474	[6439, 6440]	6505	[7743, 7398]
413	[806, 807]	2444	[3309, 1047]	4475	[6441, 6442]	6506	[4081, 3898]
414	[808, 37]	2445	[396, 3894]	4476	[2431, 2355]	6507	[4707, 6996]
415	[809, 810]	2446	[4139, 4140]	4477	[6443, 6444]	6508	[3246, 1462]
416	[811, 812]	2447	[4141, 3556]	4478	[6445, 6446]	6509	[7744, 1773]
417	[813, 814]	2448	[4043, 3624]	4479	[743, 2786]	6510	[1602, 3379]
418	[815, 816]	2449	[4142, 4143]	4480	[6425, 2771]	6511	[7151, 7665]
419	[817, 818]	2450	[4144, 4145]	4481	[5304, 6447]	6512	[7745, 3962]
420	[819, 820]	2451	[1795, 4146]	4482	[6017, 6448]	6513	[3904, 4631]
421	[821, 822]	2452	[4147, 4148]	4483	[6022, 6449]	6514	[3774, 6925]
422	[823, 824]	2453	[4149, 4150]	4484	[2712, 6450]	6515	[7439, 1211]
423	[825, 826]	2454	[4151, 4152]	4485	[6451, 6452]	6516	[3389, 285]
424	[827, 828]	2455	[3917, 4153]	4486	[5873, 6453]	6517	[7088, 7746]
425	[829, 830]	2456	[4154, 4155]	4487	[6454, 5416]	6518	[7747, 291]
426	[831, 832]	2457	[4156, 4157]	4488	[5778, 5596]	6519	[7347, 3964]
427	[833, 834]	2458	[4158, 4159]	4489	[5651, 3121]	6520	[7711, 3639]
428	[835, 836]	2459	[4160, 4161]	4490	[6455, 6456]	6521	[4501, 6988]
429	[837, 838]	2460	[4162, 265]	4491	[6457, 6458]	6522	[3279, 6975]
430	[839, 840]	2461	[996, 4163]	4492	[2925, 2673]	6523	[7536, 6842]
431	[841, 842]	2462	[4164, 3213]	4493	[2586, 931]	6524	[3745, 7485]
432	[843, 844]	2463	[4165, 3768]	4494	[6459, 6460]	6525	[4899, 3554]
433	[845, 846]	2464	[4166, 4167]	4495	[2183, 2057]	6526	[3376, 3265]
434	[516, 847]	2465	[4168, 4169]	4496	[2672, 222]	6527	[4633, 7432]
435	[848, 849]	2466	[4170, 3568]	4497	[2761, 6461]	6528	[7592, 7703]
436	[850, 851]	2467	[3828, 4171]	4498	[710, 6462]	6529	[7593, 4225]
437	[852, 853]	2468	[4172, 25]	4499	[5483, 6463]	6530	[1267, 4231]
438	[854, 855]	2469	[3431, 4173]	4500	[6464, 507]	6531	[1500, 4690]
439	[856, 857]	2470	[3561, 3749]	4501	[2842, 6465]	6532	[6886, 7143]
440	[858, 859]	2471	[3494, 3336]	4502	[2218, 6466]	6533	[4351, 7166]
441	[860, 861]	2472	[4174, 4175]	4503	[5051, 2493]	6534	[7556, 1770]
442	[217, 862]	2473	[4176, 4177]	4504	[6236, 5033]	6535	[7748, 4160]
443	[863, 864]	2474	[4178, 4179]	4505	[5096, 6467]	6536	[4701, 7453]

444	[748, 865]	2475	[1045, 4180]	4506	[6468, 1861]	6537	[4916, 3180]
445	[866, 867]	2476	[3650, 1807]	4507	[6469, 5892]	6538	[1424, 7749]
446	[868, 869]	2477	[4181, 1569]	4508	[6419, 2914]	6539	[7053, 4108]
447	[870, 798]	2478	[4182, 4183]	4509	[5488, 4992]	6540	[3502, 1337]
448	[871, 872]	2479	[982, 4184]	4510	[6470, 6471]	6541	[1094, 279]
449	[873, 874]	2480	[3344, 4185]	4511	[5779, 6472]	6542	[4503, 3272]
450	[875, 876]	2481	[4186, 4187]	4512	[5106, 1982]	6543	[3938, 3695]
451	[877, 878]	2482	[1505, 4188]	4513	[6473, 2943]	6544	[4187, 4683]
452	[879, 880]	2483	[4189, 4190]	4514	[1864, 595]	6545	[7615, 6878]
453	[881, 247]	2484	[4191, 3813]	4515	[6259, 5005]	6546	[4889, 7750]
454	[882, 883]	2485	[4192, 4193]	4516	[6474, 6475]	6547	[3200, 7751]
455	[884, 885]	2486	[4194, 3716]	4517	[6075, 6476]	6548	[6947, 3820]
456	[886, 887]	2487	[3572, 4181]	4518	[2500, 6477]	6549	[4271, 4852]
457	[888, 889]	2488	[4195, 4196]	4519	[6292, 6478]	6550	[1443, 6884]
458	[890, 891]	2489	[4197, 1270]	4520	[6479, 6480]	6551	[7738, 7426]
459	[178, 892]	2490	[4198, 3546]	4521	[2616, 2051]	6552	[3689, 6915]
460	[893, 894]	2491	[4199, 3672]	4522	[2813, 6481]	6553	[7001, 3489]
461	[895, 896]	2492	[4200, 1438]	4523	[2229, 2716]	6554	[7752, 6791]
462	[897, 898]	2493	[1353, 3609]	4524	[6482, 5042]	6555	[7666, 283]
463	[899, 900]	2494	[4201, 3515]	4525	[6483, 6139]	6556	[3418, 7753]
464	[901, 902]	2495	[4202, 3209]	4526	[6484, 925]	6557	[3434, 3475]
465	[903, 904]	2496	[1146, 4203]	4527	[5439, 6485]	6558	[7503, 1165]
466	[905, 906]	2497	[298, 73]	4528	[6486, 5352]	6559	[3959, 7326]
467	[907, 908]	2498	[4204, 4205]	4529	[2102, 6487]	6560	[4026, 7289]
468	[909, 856]	2499	[1315, 4206]	4530	[6488, 6489]	6561	[7497, 7184]
469	[910, 911]	2500	[4207, 3631]	4531	[883, 5363]	6562	[7591, 7545]
470	[912, 913]	2501	[3784, 1057]	4532	[6264, 6490]	6563	[3722, 7696]
471	[914, 915]	2502	[1737, 4208]	4533	[2341, 6491]	6564	[1397, 7570]
472	[916, 917]	2503	[4209, 999]	4534	[6492, 5227]	6565	[7733, 7146]
473	[918, 919]	2504	[4210, 4211]	4535	[1926, 1835]	6566	[7724, 7457]
474	[898, 920]	2505	[3462, 4212]	4536	[6493, 5191]	6567	[7754, 4084]
475	[921, 922]	2506	[4213, 4214]	4537	[6494, 2924]	6568	[7446, 7709]
476	[923, 924]	2507	[4215, 3790]	4538	[5514, 6495]	6569	[7755, 7597]
477	[925, 926]	2508	[4216, 4217]	4539	[6496, 751]	6570	[7141, 3571]
478	[927, 928]	2509	[4218, 4219]	4540	[5628, 6497]	6571	[4557, 3912]
479	[929, 930]	2510	[4220, 4221]	4541	[6341, 5466]	6572	[4437, 6794]
480	[931, 932]	2511	[4222, 4223]	4542	[2388, 6268]	6573	[7756, 7475]
481	[933, 934]	2512	[1514, 4224]	4543	[5338, 2323]	6574	[7757, 7324]
482	[935, 936]	2513	[1640, 4088]	4544	[3149, 5631]	6575	[4161, 4281]
483	[937, 938]	2514	[4225, 3615]	4545	[958, 159]	6576	[4135, 4040]
484	[939, 940]	2515	[3266, 4226]	4546	[2725, 5981]	6577	[7009, 7758]
485	[941, 942]	2516	[4227, 4228]	4547	[6498, 1820]	6578	[3277, 6763]
486	[943, 944]	2517	[4229, 1016]	4548	[6499, 171]	6579	[3889, 7736]
487	[945, 946]	2518	[4167, 1653]	4549	[1862, 2452]	6580	[7759, 7271]

488	[947, 948]	2519	[4145, 4230]	4550	[6500, 882]	6581	[1486, 7680]
489	[949, 950]	2520	[4231, 3350]	4551	[2904, 5440]	6582	[7160, 7476]
490	[951, 952]	2521	[4232, 4233]	4552	[964, 6340]	6583	[7617, 1199]
491	[953, 954]	2522	[4234, 4235]	4553	[6501, 792]	6584	[7663, 7605]
492	[955, 956]	2523	[3630, 1123]	4554	[6375, 5791]	6585	[7760, 7662]
493	[957, 958]	2524	[4236, 4237]	4555	[6400, 6502]	6586	[7600, 1314]
494	[959, 960]	2525	[4066, 4238]	4556	[5039, 5752]	6587	[1231, 7742]
495	[961, 962]	2526	[4239, 3787]	4557	[6503, 6504]	6588	[4306, 349]
496	[963, 964]	2527	[4240, 4241]	4558	[3018, 5286]	6589	[262, 1429]
497	[965, 966]	2528	[3703, 4242]	4559	[5662, 6505]	6590	[4486, 7743]
498	[967, 968]	2529	[3550, 4243]	4560	[6192, 6506]	6591	[7374, 3187]
499	[969, 970]	2530	[4244, 4245]	4561	[5575, 5532]	6592	[7761, 3592]
500	[971, 972]	2531	[296, 4246]	4562	[2253, 4975]	6593	[7762, 7519]
501	[973, 974]	2532	[1504, 391]	4563	[6119, 2723]	6594	[4241, 1022]
502	[975, 976]	2533	[3324, 4247]	4564	[6120, 5084]	6595	[4245, 4021]
503	[977, 978]	2534	[4248, 1238]	4565	[6507, 6508]	6596	[6900, 4380]
504	[979, 980]	2535	[4249, 4250]	4566	[6444, 2753]	6597	[492, 1203]
505	[981, 982]	2536	[4251, 4252]	4567	[570, 6509]	6598	[7714, 993]
506	[983, 984]	2537	[4253, 3714]	4568	[5887, 2602]	6599	[7470, 7718]
507	[985, 986]	2538	[4254, 3861]	4569	[5348, 721]	6600	[3741, 81]
508	[987, 988]	2539	[1098, 4255]	4570	[6510, 6284]	6601	[1743, 4577]
509	[989, 990]	2540	[4256, 4257]	4571	[6511, 2263]	6602	[7582, 6981]
510	[991, 992]	2541	[6, 4258]	4572	[2339, 5115]	6603	[4148, 7471]
511	[993, 994]	2542	[4259, 113]	4573	[6512, 5175]	6604	[7566, 1318]
512	[995, 996]	2543	[4260, 4261]	4574	[250, 5567]	6605	[4967, 7763]
513	[997, 998]	2544	[3318, 4262]	4575	[6513, 5471]	6606	[280, 3958]
514	[999, 1000]	2545	[4263, 3347]	4576	[6514, 5134]	6607	[78, 6796]
515	[1001, 1002]	2546	[3459, 4264]	4577	[6515, 6129]	6608	[6836, 7764]
516	[1003, 1004]	2547	[4265, 4059]	4578	[6477, 2187]	6609	[7618, 7765]
517	[1005, 1006]	2548	[4266, 4267]	4579	[2862, 6516]	6610	[7730, 7693]
518	[1007, 1008]	2549	[4268, 1366]	4580	[6517, 6518]	6611	[1089, 4646]
519	[1009, 299]	2550	[1691, 4269]	4581	[6519, 790]	6612	[4397, 3601]
520	[1010, 1011]	2551	[4270, 4271]	4582	[6029, 6520]	6613	[1340, 7766]
521	[1012, 1013]	2552	[1264, 4272]	4583	[6521, 6036]	6614	[7767, 4896]
522	[1014, 1015]	2553	[4273, 4274]	4584	[6522, 734]	6615	[4858, 1651]
523	[1016, 1017]	2554	[4275, 4276]	4585	[6523, 649]	6616	[254, 3988]
524	[1018, 1019]	2555	[4277, 3467]	4586	[6485, 6524]	6617	[3961, 7232]
525	[1020, 1021]	2556	[4278, 4097]	4587	[602, 5380]	6618	[6966, 3582]
526	[1022, 1023]	2557	[4279, 4121]	4588	[5990, 6141]	6619	[7768, 4423]
527	[1024, 1025]	2558	[24, 4280]	4589	[6525, 5579]	6620	[6931, 7608]
528	[1026, 1027]	2559	[4281, 4282]	4590	[3074, 6230]	6621	[1033, 7487]
529	[1028, 1029]	2560	[4283, 1246]	4591	[1948, 6526]	6622	[7635, 4107]
530	[1030, 1031]	2561	[4284, 4285]	4592	[6527, 688]	6623	[1787, 7769]
531	[1032, 1033]	2562	[4286, 4287]	4593	[6083, 6528]	6624	[7142, 3522]

532	[1034, 1035]	2563	[4288, 4289]	4594	[6085, 6529]	6625	[4598, 7770]
533	[1036, 1037]	2564	[4290, 64]	4595	[5626, 6530]	6626	[7031, 3744]
534	[1038, 1039]	2565	[4291, 4292]	4596	[6153, 5258]	6627	[4511, 1702]
535	[1040, 1041]	2566	[4293, 4294]	4597	[6531, 3073]	6628	[3264, 4253]
536	[1042, 1043]	2567	[4295, 4296]	4598	[6133, 1986]	6629	[7339, 7771]
537	[1044, 1045]	2568	[4297, 4298]	4599	[590, 5322]	6630	[3563, 7752]
538	[1046, 275]	2569	[4299, 4300]	4600	[2779, 6080]	6631	[3478, 4653]
539	[1047, 1048]	2570	[4301, 4302]	4601	[2362, 3093]	6632	[4586, 7631]
540	[1049, 1050]	2571	[3844, 4303]	4602	[5231, 6040]	6633	[6898, 4172]
541	[1051, 1052]	2572	[4304, 1333]	4603	[3069, 5018]	6634	[7772, 7248]
542	[1053, 1054]	2573	[4305, 4306]	4604	[6532, 5994]	6635	[3807, 1024]
543	[1055, 1056]	2574	[4307, 4308]	4605	[6533, 5407]	6636	[4106, 7759]
544	[1057, 1058]	2575	[4309, 4310]	4606	[6534, 5731]	6637	[4942, 7482]
545	[1059, 1060]	2576	[1430, 4311]	4607	[2115, 666]	6638	[7199, 1053]
546	[1061, 1062]	2577	[4312, 4313]	4608	[2759, 5389]	6639	[3906, 7465]
547	[1063, 1064]	2578	[4314, 4315]	4609	[6535, 2458]	6640	[3908, 7671]
548	[1065, 1066]	2579	[4316, 4317]	4610	[2835, 6470]	6641	[7773, 4309]
549	[1067, 1068]	2580	[1652, 1258]	4611	[6536, 6537]	6642	[3480, 7755]
550	[432, 1069]	2581	[4318, 1067]	4612	[6538, 6539]	6643	[1389, 3739]
551	[1070, 1071]	2582	[1309, 3821]	4613	[6448, 2669]	6644	[7774, 979]
552	[1072, 1073]	2583	[352, 1479]	4614	[572, 698]	6645	[7769, 7775]
553	[1074, 1075]	2584	[4319, 4082]	4615	[6540, 2393]	6646	[4711, 7776]
554	[1076, 1077]	2585	[4320, 1753]	4616	[6541, 139]	6647	[7638, 7777]
555	[1078, 1079]	2586	[4321, 4322]	4617	[6112, 5614]	6648	[4171, 7129]
556	[1080, 1081]	2587	[4323, 4324]	4618	[654, 5164]	6649	[3713, 3687]
557	[1082, 1083]	2588	[4325, 4326]	4619	[201, 6272]	6650	[7523, 7673]
558	[1084, 1085]	2589	[4327, 4328]	4620	[6542, 2152]	6651	[7415, 3740]
559	[1086, 1087]	2590	[4329, 4330]	4621	[6543, 2153]	6652	[4944, 3430]
560	[1088, 1089]	2591	[4331, 4332]	4622	[6544, 3150]	6653	[7675, 4731]
561	[1090, 417]	2592	[3711, 4333]	4623	[6383, 955]	6654	[1578, 7473]
562	[1091, 1092]	2593	[4334, 3432]	4624	[5046, 6545]	6655	[278, 4071]
563	[1093, 1094]	2594	[4335, 1682]	4625	[6546, 6547]	6656	[3623, 3440]
564	[1095, 1096]	2595	[3524, 4336]	4626	[6548, 6549]	6657	[3534, 4507]
565	[1097, 1098]	2596	[3378, 4337]	4627	[865, 6550]	6658	[6820, 7413]
566	[1099, 1100]	2597	[3701, 277]	4628	[6366, 631]	6659	[3509, 7568]
567	[1101, 1102]	2598	[4338, 1423]	4629	[5935, 6551]	6660	[7726, 3757]
568	[1103, 1104]	2599	[4339, 4340]	4630	[5965, 6552]	6661	[7778, 1565]
569	[1105, 1106]	2600	[1218, 4341]	4631	[5886, 6553]	6662	[3932, 7176]
570	[1107, 121]	2601	[1799, 4342]	4632	[6537, 5537]	6663	[7661, 4037]
571	[1108, 1109]	2602	[4340, 4200]	4633	[6554, 6555]	6664	[7042, 1028]
572	[1110, 1111]	2603	[4343, 4344]	4634	[661, 49]	6665	[3212, 4139]
573	[1112, 1113]	2604	[4345, 4346]	4635	[6556, 6557]	6666	[4826, 1296]
574	[1114, 1115]	2605	[4347, 4348]	4636	[6019, 6227]	6667	[7336, 7768]
575	[1116, 1117]	2606	[4349, 4350]	4637	[6520, 6307]	6668	[7779, 7265]

576	[1118, 1119]	2607	[1262, 4351]	4638	[906, 6525]	6669	[3500, 7419]
577	[1002, 1120]	2608	[4352, 4353]	4639	[6558, 6433]	6670	[7753, 3261]
578	[1121, 1122]	2609	[4354, 3304]	4640	[6559, 5905]	6671	[1641, 3951]
579	[1123, 1124]	2610	[4355, 3584]	4641	[6560, 967]	6672	[7780, 7637]
580	[1125, 1126]	2611	[1465, 4356]	4642	[2492, 6267]	6673	[7731, 7625]
581	[1127, 1128]	2612	[4357, 4358]	4643	[6561, 2657]	6674	[7551, 4038]
582	[1129, 1130]	2613	[4045, 4095]	4644	[2188, 835]	6675	[4432, 7616]
583	[1131, 1132]	2614	[4359, 4360]	4645	[673, 5196]	6676	[4468, 307]
584	[1133, 1134]	2615	[4361, 3933]	4646	[6562, 216]	6677	[4607, 4738]
585	[1135, 1136]	2616	[4362, 4363]	4647	[6563, 5359]	6678	[4913, 7762]
586	[1137, 1138]	2617	[4364, 4365]	4648	[5637, 2261]	6679	[3995, 7781]
587	[118, 269]	2618	[4366, 4367]	4649	[5499, 2837]	6680	[1126, 7609]
588	[1139, 1140]	2619	[3822, 3257]	4650	[725, 6564]	6681	[7782, 7074]
589	[1141, 1142]	2620	[4368, 4154]	4651	[2297, 6346]	6682	[7700, 7744]
590	[1143, 1144]	2621	[4369, 4370]	4652	[5004, 6565]	6683	[7553, 7716]
591	[1145, 1146]	2622	[443, 1242]	4653	[6065, 6566]	6684	[7655, 4609]
592	[1147, 1148]	2623	[4371, 4372]	4654	[6528, 6567]	6685	[7403, 7449]
593	[1149, 1150]	2624	[1583, 4373]	4655	[904, 5767]	6686	[4600, 7410]
594	[1151, 1152]	2625	[4374, 4375]	4656	[6458, 6445]	6687	[7749, 4875]
595	[1153, 1154]	2626	[4376, 4377]	4657	[2225, 1928]	6688	[7783, 4881]
596	[1155, 1156]	2627	[4378, 4379]	4658	[2006, 6401]	6689	[3668, 7741]
597	[1157, 1158]	2628	[4380, 1768]	4659	[2007, 6402]	6690	[3369, 7737]
598	[1159, 1160]	2629	[4381, 4316]	4660	[6568, 6569]	6691	[6979, 3375]
599	[1161, 1162]	2630	[4382, 4383]	4661	[6438, 2340]	6692	[1695, 3513]
600	[1163, 327]	2631	[4384, 436]	4662	[3116, 6546]	6693	[7115, 7757]
601	[451, 1164]	2632	[4102, 4385]	4663	[6570, 2881]	6694	[7763, 7784]
602	[1165, 1166]	2633	[4386, 4387]	4664	[840, 6571]	6695	[478, 401]
603	[1167, 1168]	2634	[1305, 3916]	4665	[5846, 2056]	6696	[3697, 7424]
604	[1169, 1170]	2635	[4375, 4388]	4666	[6572, 2536]	6697	[3363, 4445]
605	[1171, 1172]	2636	[4389, 4390]	4667	[2931, 2245]	6698	[3419, 7627]
606	[1173, 1174]	2637	[4391, 4392]	4668	[6573, 6574]	6699	[1600, 1540]
607	[1175, 1176]	2638	[4393, 4394]	4669	[3016, 6575]	6700	[4237, 1687]
608	[1177, 1178]	2639	[4395, 4396]	4670	[6576, 6577]	6701	[4014, 371]
609	[1179, 1180]	2640	[1784, 997]	4671	[5241, 6578]	6702	[4720, 7785]
610	[1181, 1182]	2641	[4085, 97]	4672	[2791, 2561]	6703	[6885, 7002]
611	[1183, 1184]	2642	[3387, 4397]	4673	[6579, 6580]	6704	[346, 3653]
612	[1185, 1186]	2643	[4398, 1394]	4674	[6581, 2031]	6705	[1348, 4273]
613	[1187, 1188]	2644	[4399, 4400]	4675	[2946, 3085]	6706	[7686, 3511]
614	[1189, 1190]	2645	[4401, 4402]	4676	[6240, 521]	6707	[4276, 4003]
615	[1191, 1192]	2646	[4353, 4403]	4677	[1946, 6582]	6708	[7681, 4381]
616	[1193, 1194]	2647	[336, 4321]	4678	[5615, 6583]	6709	[4704, 4384]
617	[1195, 1196]	2648	[1144, 3442]	4679	[5666, 757]	6710	[7740, 7786]
618	[1197, 1198]	2649	[4404, 4405]	4680	[6584, 6299]	6711	[7787, 6913]
619	[1199, 1200]	2650	[1301, 4406]	4681	[2002, 6585]	6712	[4819, 7648]

620	[1201, 1202]	2651	[4407, 4408]	4682	[6586, 680]	6713	[4049, 7512]
621	[1203, 1204]	2652	[1703, 1368]	4683	[6587, 2343]	6714	[4644, 7076]
622	[1194, 1205]	2653	[4409, 4410]	4684	[2574, 6588]	6715	[3967, 6910]
623	[1206, 1207]	2654	[4411, 4010]	4685	[2576, 5031]	6716	[7103, 1464]
624	[1208, 321]	2655	[3632, 4275]	4686	[5952, 5573]	6717	[4377, 1380]
625	[1209, 1210]	2656	[4412, 4186]	4687	[3064, 2994]	6718	[4821, 7118]
626	[1211, 1212]	2657	[1793, 1714]	4688	[5839, 6589]	6719	[3684, 4126]
627	[1213, 1214]	2658	[4413, 4414]	4689	[663, 6507]	6720	[7788, 7065]
628	[1215, 1216]	2659	[4415, 4416]	4690	[2715, 6590]	6721	[390, 7284]
629	[1217, 1218]	2660	[1023, 4417]	4691	[6591, 5729]	6722	[1437, 1335]
630	[1219, 1220]	2661	[3756, 4418]	4692	[6592, 2752]	6723	[7030, 7789]
631	[1221, 1222]	2662	[4419, 4420]	4693	[6312, 5063]	6724	[1779, 7256]
632	[1223, 1224]	2663	[4421, 1718]	4694	[5358, 2441]	6725	[7472, 1813]
633	[1225, 1226]	2664	[3874, 4422]	4695	[6530, 3169]	6726	[6995, 3753]
634	[1122, 1227]	2665	[4423, 431]	4696	[5529, 6593]	6727	[1592, 6768]
635	[1228, 1229]	2666	[4424, 4425]	4697	[2528, 6594]	6728	[3485, 7699]
636	[1230, 1231]	2667	[3738, 4426]	4698	[5502, 1855]	6729	[7650, 415]
637	[1232, 1233]	2668	[4427, 4428]	4699	[2529, 6556]	6730	[7037, 7767]
638	[1234, 1076]	2669	[4429, 4430]	4700	[2531, 6595]	6731	[7630, 1183]
639	[1235, 1236]	2670	[4431, 4432]	4701	[6051, 5924]	6732	[7685, 4393]
640	[18, 1237]	2671	[4433, 1155]	4702	[896, 953]	6733	[394, 3552]
641	[1238, 1239]	2672	[3809, 1268]	4703	[6182, 6596]	6734	[4776, 4660]
642	[1240, 1241]	2673	[4434, 4435]	4704	[6597, 6355]	6735	[7211, 3364]
643	[1242, 1243]	2674	[4436, 4437]	4705	[2589, 6598]	6736	[6863, 4928]
644	[1244, 1245]	2675	[4438, 4433]	4706	[5413, 2101]	6737	[7220, 1456]
645	[1246, 1247]	2676	[4439, 1382]	4707	[5867, 2025]	6738	[7704, 7790]
646	[1248, 1249]	2677	[4440, 1696]	4708	[5709, 2718]	6739	[7331, 7760]
647	[1250, 1251]	2678	[4441, 4442]	4709	[2141, 2364]	6740	[7525, 1530]
648	[1252, 1253]	2679	[3758, 4443]	4710	[5858, 6599]	6741	[7386, 4750]
649	[1254, 1255]	2680	[1471, 4444]	4711	[6600, 39]	6742	[1259, 7791]
650	[1256, 1257]	2681	[4445, 3469]	4712	[6601, 6602]	6743	[379, 7780]
651	[1258, 1259]	2682	[4446, 4447]	4713	[6603, 6604]	6744	[4695, 7046]
652	[1019, 1260]	2683	[4448, 4449]	4714	[6605, 6606]	6745	[7448, 4236]
653	[1261, 1262]	2684	[4450, 4451]	4715	[6607, 3133]	6746	[3987, 7722]
654	[1263, 1264]	2685	[1328, 3493]	4716	[6545, 6608]	6747	[4458, 7728]
655	[1265, 1139]	2686	[1050, 4452]	4717	[5549, 6149]	6748	[7225, 7481]
656	[1266, 1267]	2687	[4453, 4454]	4718	[2711, 6609]	6749	[7792, 4239]
657	[1268, 1269]	2688	[3782, 4455]	4719	[6610, 5316]	6750	[3321, 1179]
658	[1270, 1271]	2689	[1168, 1425]	4720	[1950, 5248]	6751	[3902, 7393]
659	[1272, 1273]	2690	[1170, 4456]	4721	[2098, 2080]	6752	[1555, 4411]
660	[1048, 1274]	2691	[4457, 4458]	4722	[6325, 2278]	6753	[4640, 1802]
661	[1275, 1276]	2692	[4459, 3702]	4723	[5451, 6611]	6754	[1672, 7038]
662	[1277, 1278]	2693	[4460, 4461]	4724	[2868, 5067]	6755	[7323, 7484]
663	[1279, 1153]	2694	[3881, 4462]	4725	[6413, 6612]	6756	[4763, 1280]

664	[1280, 1281]	2695	[4463, 4464]	4726	[2166, 6316]	6757	[4392, 3221]
665	[1282, 1283]	2696	[4336, 4465]	4727	[5562, 6064]	6758	[7793, 6584]
666	[1284, 1285]	2697	[1631, 4466]	4728	[6613, 6614]	6759	[2785, 6414]
667	[1286, 1287]	2698	[4467, 1534]	4729	[5647, 6443]	6760	[2316, 5100]
668	[1288, 1289]	2699	[4414, 4468]	4730	[6175, 6263]	6761	[7794, 2423]
669	[1290, 1291]	2700	[3638, 4469]	4731	[2777, 5002]	6762	[5282, 7795]
670	[1292, 1293]	2701	[4470, 3549]	4732	[6569, 6405]	6763	[6453, 6163]
671	[1294, 1295]	2702	[4471, 3842]	4733	[6162, 6615]	6764	[5785, 6473]
672	[1296, 1297]	2703	[4472, 4473]	4734	[128, 6616]	6765	[6006, 2826]
673	[1298, 1299]	2704	[4474, 4475]	4735	[6617, 6618]	6766	[6169, 1888]
674	[1300, 1301]	2705	[4476, 4477]	4736	[5850, 6203]	6767	[2134, 7796]
675	[1302, 1303]	2706	[1629, 4478]	4737	[6377, 6619]	6768	[1995, 183]
676	[1304, 1305]	2707	[1119, 4229]	4738	[6123, 5816]	6769	[5455, 585]
677	[1306, 1307]	2708	[4465, 3706]	4739	[5701, 6620]	6770	[5143, 5610]
678	[1308, 1309]	2709	[4479, 4480]	4740	[5740, 2119]	6771	[7797, 2832]
679	[1310, 1311]	2710	[4481, 4482]	4741	[5198, 6281]	6772	[6009, 6493]
680	[1312, 1313]	2711	[4483, 1065]	4742	[667, 6621]	6773	[6232, 7798]
681	[1314, 1315]	2712	[1494, 1785]	4743	[6622, 4997]	6774	[7799, 6370]
682	[1316, 1317]	2713	[1498, 4484]	4744	[6623, 6624]	6775	[5486, 6007]
683	[1318, 1319]	2714	[4485, 4486]	4745	[195, 5685]	6776	[6047, 5862]
684	[1320, 1219]	2715	[4487, 4128]	4746	[3157, 6482]	6777	[7800, 7801]
685	[1321, 1322]	2716	[3852, 1401]	4747	[2903, 2839]	6778	[6732, 6278]
686	[1323, 1324]	2717	[3811, 4488]	4748	[5934, 6625]	6779	[2949, 1918]
687	[1325, 1326]	2718	[3699, 4489]	4749	[2096, 2934]	6780	[2991, 6351]
688	[1327, 1328]	2719	[4490, 3651]	4750	[5586, 1907]	6781	[7802, 7803]
689	[1329, 1330]	2720	[4223, 4491]	4751	[2736, 2952]	6782	[5583, 4999]
690	[1331, 1332]	2721	[4492, 1472]	4752	[2775, 6626]	6783	[6721, 7804]
691	[1333, 1334]	2722	[1422, 4493]	4753	[6314, 6627]	6784	[2810, 7805]
692	[1335, 1336]	2723	[4494, 1762]	4754	[2588, 2650]	6785	[7806, 6417]
693	[1337, 1338]	2724	[1073, 974]	4755	[2277, 6628]	6786	[2300, 7807]
694	[1339, 1340]	2725	[3913, 4495]	4756	[2054, 6629]	6787	[7808, 7809]
695	[1341, 1342]	2726	[4496, 4497]	4757	[6630, 5780]	6788	[5925, 6131]
696	[1343, 1344]	2727	[4169, 4498]	4758	[3007, 6631]	6789	[5750, 7810]
697	[1345, 1346]	2728	[3565, 4499]	4759	[6632, 2172]	6790	[6748, 7811]
698	[1347, 1348]	2729	[4500, 255]	4760	[6633, 6101]	6791	[5089, 6411]
699	[1111, 1349]	2730	[3762, 4501]	4761	[6634, 5501]	6792	[7812, 6499]
700	[1350, 1351]	2731	[1614, 4502]	4762	[2426, 6060]	6793	[5512, 2010]
701	[1352, 1353]	2732	[264, 4503]	4763	[6114, 6635]	6794	[7813, 2654]
702	[392, 1354]	2733	[4504, 3580]	4764	[6611, 6186]	6795	[6539, 6687]
703	[1355, 1356]	2734	[3507, 4218]	4765	[6636, 6579]	6796	[156, 7814]
704	[1357, 1358]	2735	[4505, 4506]	4766	[3138, 6637]	6797	[880, 6498]
705	[1359, 1360]	2736	[4507, 4508]	4767	[5066, 6638]	6798	[5717, 848]
706	[1361, 981]	2737	[3875, 4509]	4768	[6577, 214]	6799	[6282, 5736]
707	[1362, 1363]	2738	[4510, 989]	4769	[6639, 6640]	6800	[2606, 2849]

708	[1364, 1365]	2739	[4488, 4511]	4770	[6502, 2334]	6801	[6487, 1872]
709	[1366, 1367]	2740	[4512, 4513]	4771	[6641, 611]	6802	[7815, 7816]
710	[1368, 1369]	2741	[1723, 1234]	4772	[132, 6269]	6803	[5538, 7817]
711	[1370, 1371]	2742	[1777, 3436]	4773	[2262, 969]	6804	[2920, 6548]
712	[1372, 1373]	2743	[4514, 4471]	4774	[5976, 5902]	6805	[7818, 6376]
713	[1374, 1375]	2744	[4515, 4240]	4775	[6642, 6568]	6806	[2738, 7819]
714	[1376, 1377]	2745	[4516, 4517]	4776	[6107, 6297]	6807	[5211, 5065]
715	[1378, 1379]	2746	[430, 4518]	4777	[6643, 6644]	6808	[7820, 6201]
716	[1380, 1381]	2747	[4519, 4520]	4778	[6645, 6646]	6809	[2168, 5853]
717	[1382, 1383]	2748	[4521, 3438]	4779	[6593, 5214]	6810	[6001, 7821]
718	[1384, 1385]	2749	[1637, 4318]	4780	[6369, 6647]	6811	[5825, 7822]
719	[1386, 1387]	2750	[1568, 4522]	4781	[6648, 6455]	6812	[6635, 5101]
720	[1388, 1389]	2751	[4523, 1499]	4782	[522, 3120]	6813	[2789, 5577]
721	[1390, 1391]	2752	[4522, 4524]	4783	[6306, 6459]	6814	[7823, 7824]
722	[1392, 1393]	2753	[4525, 1116]	4784	[5271, 6385]	6815	[7825, 2548]
723	[1394, 1395]	2754	[4526, 4527]	4785	[6490, 6649]	6816	[3094, 1847]
724	[1396, 1397]	2755	[4233, 3384]	4786	[6650, 759]	6817	[38, 7826]
725	[461, 1398]	2756	[4528, 3622]	4787	[6651, 2180]	6818	[681, 5289]
726	[1399, 1400]	2757	[1130, 4529]	4788	[2476, 6234]	6819	[2641, 7827]
727	[1401, 1402]	2758	[4530, 4531]	4789	[6652, 5719]	6820	[5417, 2559]
728	[1403, 1404]	2759	[102, 4532]	4790	[5019, 5592]	6821	[2997, 6127]
729	[1405, 1406]	2760	[4533, 4534]	4791	[5091, 6534]	6822	[6302, 7828]
730	[1407, 1408]	2761	[4535, 3903]	4792	[5784, 5001]	6823	[5496, 7829]
731	[1409, 1410]	2762	[4303, 429]	4793	[6653, 6654]	6824	[6678, 6275]
732	[1411, 1412]	2763	[4536, 3748]	4794	[6655, 6656]	6825	[6549, 5161]
733	[1413, 1414]	2764	[488, 1232]	4795	[2867, 5162]	6826	[6304, 921]
734	[1415, 1416]	2765	[4537, 4538]	4796	[6657, 6658]	6827	[6526, 2596]
735	[1417, 1418]	2766	[4539, 4540]	4797	[6422, 569]	6828	[2281, 2045]
736	[1419, 1420]	2767	[4342, 4541]	4798	[6640, 6510]	6829	[7830, 2509]
737	[1421, 1422]	2768	[4542, 1659]	4799	[2717, 6283]	6830	[6644, 7831]
738	[1423, 1424]	2769	[1373, 1005]	4800	[6659, 831]	6831	[2295, 6639]
739	[1425, 1426]	2770	[3394, 4362]	4801	[5372, 2473]	6832	[6751, 6513]
740	[1427, 1428]	2771	[4543, 4266]	4802	[5370, 6488]	6833	[6691, 6641]
741	[1429, 1430]	2772	[4308, 4544]	4803	[5371, 6279]	6834	[7832, 5589]
742	[1431, 1432]	2773	[4545, 4546]	4804	[5988, 573]	6835	[7833, 6468]
743	[1416, 1433]	2774	[4547, 4548]	4805	[6660, 6661]	6836	[6589, 5809]
744	[1434, 1435]	2775	[4549, 4550]	4806	[5869, 3053]	6837	[1960, 2427]
745	[1436, 1437]	2776	[1109, 4551]	4807	[3130, 2721]	6838	[793, 2780]
746	[1438, 1439]	2777	[4435, 4552]	4808	[6209, 5877]	6839	[7834, 7835]
747	[1440, 1441]	2778	[4387, 4553]	4809	[2310, 6662]	6840	[6677, 7836]
748	[1442, 1443]	2779	[4554, 4555]	4810	[6663, 6219]	6841	[7837, 5423]
749	[1444, 1445]	2780	[4556, 4557]	4811	[1983, 6243]	6842	[6185, 5571]
750	[1446, 1447]	2781	[1699, 4558]	4812	[6664, 6665]	6843	[7838, 690]
751	[1448, 1449]	2782	[4559, 3896]	4813	[6574, 5864]	6844	[6718, 5088]

752	[1450, 1451]	2783	[4560, 4561]	4814	[6575, 6666]	6845	[2978, 5746]
753	[1452, 1453]	2784	[4562, 1312]	4815	[6352, 2790]	6846	[5060, 7839]
754	[1454, 1455]	2785	[4563, 4564]	4816	[6360, 5279]	6847	[5396, 749]
755	[1456, 1457]	2786	[4261, 4565]	4817	[2383, 5526]	6848	[6081, 2178]
756	[1458, 1459]	2787	[4315, 123]	4818	[2422, 6636]	6849	[6626, 2182]
757	[1460, 1461]	2788	[4566, 335]	4819	[2424, 6435]	6850	[6571, 7840]
758	[1462, 1463]	2789	[4567, 4568]	4820	[5566, 951]	6851	[5261, 7841]
759	[1464, 1465]	2790	[4230, 4569]	4821	[5901, 6667]	6852	[5971, 7842]
760	[1466, 1388]	2791	[4570, 4286]	4822	[693, 6668]	6853	[7843, 6382]
761	[1120, 1191]	2792	[4571, 4572]	4823	[5151, 6669]	6854	[7844, 226]
762	[1467, 1193]	2793	[4573, 4198]	4824	[783, 5786]	6855	[7845, 7846]
763	[1468, 1469]	2794	[3414, 4574]	4825	[6285, 5023]	6856	[2970, 6733]
764	[1470, 1471]	2795	[4575, 3766]	4826	[6670, 6671]	6857	[6206, 2288]
765	[1472, 1473]	2796	[4576, 3282]	4827	[6585, 3123]	6858	[6337, 2321]
766	[1474, 1475]	2797	[1686, 4168]	4828	[6672, 6673]	6859	[5225, 6576]
767	[256, 1476]	2798	[3172, 1611]	4829	[6265, 899]	6860	[7847, 6067]
768	[1477, 1478]	2799	[4577, 4170]	4830	[6674, 6469]	6861	[6524, 6740]
769	[1479, 1480]	2800	[1524, 4578]	4831	[3041, 6089]	6862	[7848, 6511]
770	[1481, 1482]	2801	[4579, 3831]	4832	[6654, 6331]	6863	[7849, 6645]
771	[1483, 1484]	2802	[100, 4580]	4833	[6675, 233]	6864	[5347, 6171]
772	[1485, 1486]	2803	[3253, 3388]	4834	[6676, 153]	6865	[7850, 3036]
773	[1487, 1488]	2804	[4581, 4582]	4835	[6221, 6677]	6866	[7851, 6274]
774	[1489, 1490]	2805	[4583, 4584]	4836	[2927, 6678]	6867	[3146, 909]
775	[1491, 1492]	2806	[4585, 4586]	4837	[2270, 6532]	6868	[1883, 794]
776	[1493, 1494]	2807	[306, 4587]	4838	[6100, 2176]	6869	[5017, 7852]
777	[1495, 1496]	2808	[4588, 4142]	4839	[2350, 6679]	6870	[5823, 6755]
778	[1497, 1498]	2809	[4589, 4590]	4840	[5374, 6680]	6871	[7853, 1978]
779	[1499, 1500]	2810	[4591, 4592]	4841	[6681, 6682]	6872	[7854, 7855]
780	[1501, 1502]	2811	[4593, 4594]	4842	[6683, 6250]	6873	[697, 7856]
781	[1503, 1504]	2812	[3457, 4595]	4843	[6684, 5600]	6874	[5410, 2268]
782	[1404, 1308]	2813	[4596, 1185]	4844	[6685, 5814]	6875	[5531, 3099]
783	[1186, 1505]	2814	[4597, 4598]	4845	[2171, 6674]	6876	[7841, 5026]
784	[1506, 1507]	2815	[4599, 4600]	4846	[1938, 6686]	6877	[2986, 7857]
785	[274, 1508]	2816	[4601, 4602]	4847	[6687, 6688]	6878	[5950, 5447]
786	[1509, 1510]	2817	[4603, 4604]	4848	[6689, 6254]	6879	[2217, 7858]
787	[1511, 1512]	2818	[1432, 3314]	4849	[5437, 6349]	6880	[6547, 6695]
788	[1513, 1514]	2819	[4605, 4606]	4850	[6690, 6691]	6881	[2595, 5069]
789	[1515, 1516]	2820	[4127, 4607]	4851	[6692, 6693]	6882	[5608, 6634]
790	[1517, 1518]	2821	[1546, 4608]	4852	[5599, 5822]	6883	[5036, 5224]
791	[1519, 1520]	2822	[4609, 1341]	4853	[6686, 6694]	6884	[2622, 5301]
792	[1521, 1522]	2823	[4610, 4611]	4854	[6695, 3057]	6885	[5920, 7859]
793	[1523, 1524]	2824	[4612, 4613]	4855	[6336, 2029]	6886	[2348, 249]
794	[270, 1470]	2825	[4614, 355]	4856	[769, 6696]	6887	[6430, 7860]
795	[1525, 1526]	2826	[1531, 3928]	4857	[6697, 6313]	6888	[6476, 6317]

796	[422, 1527]	2827	[4615, 4616]	4858	[2900, 800]	6889	[2758, 6173]
797	[1528, 397]	2828	[4617, 4618]	4859	[646, 3156]	6890	[6125, 6213]
798	[1529, 295]	2829	[4580, 4619]	4860	[2058, 6698]	6891	[7861, 5509]
799	[1530, 1531]	2830	[4620, 4621]	4861	[6699, 6700]	6892	[2601, 2454]
800	[1532, 1533]	2831	[4622, 4623]	4862	[6701, 6702]	6893	[5420, 5314]
801	[1534, 319]	2832	[4624, 4625]	4863	[6703, 5116]	6894	[6450, 7862]
802	[1535, 1536]	2833	[4626, 1108]	4864	[5726, 6079]	6895	[938, 6333]
803	[992, 1537]	2834	[4627, 4628]	4865	[6174, 2566]	6896	[6745, 7863]
804	[1538, 1539]	2835	[4629, 4630]	4866	[5959, 6527]	6897	[2804, 2766]
805	[1540, 1541]	2836	[4631, 4632]	4867	[6704, 2125]	6898	[7864, 51]
806	[1542, 1543]	2837	[3526, 4633]	4868	[6354, 6705]	6899	[7852, 6479]
807	[1544, 1545]	2838	[4634, 4635]	4869	[6594, 6008]	6900	[1836, 3095]
808	[1488, 1546]	2839	[4636, 4637]	4870	[5412, 653]	6901	[6649, 593]
809	[1547, 1548]	2840	[3731, 4638]	4871	[6024, 2960]	6902	[7865, 674]
810	[1549, 1529]	2841	[4639, 1010]	4872	[5043, 5793]	6903	[7803, 6196]
811	[1550, 1036]	2842	[1789, 4640]	4873	[5187, 5697]	6904	[2416, 6421]
812	[1551, 1552]	2843	[68, 4641]	4874	[6180, 2330]	6905	[2626, 5841]
813	[447, 1553]	2844	[4642, 4643]	4875	[2591, 6102]	6906	[7866, 5690]
814	[1554, 1555]	2845	[1180, 1663]	4876	[6491, 2495]	6907	[7867, 5245]
815	[1556, 1557]	2846	[1182, 4644]	4877	[3104, 5518]	6908	[5464, 5460]
816	[1558, 1559]	2847	[1418, 1298]	4878	[6706, 5293]	6909	[5544, 5022]
817	[1560, 1561]	2848	[344, 4645]	4879	[6707, 2816]	6910	[1897, 5711]
818	[1476, 1562]	2849	[4569, 367]	4880	[6318, 6708]	6911	[7868, 7869]
819	[1563, 1564]	2850	[3652, 369]	4881	[1967, 2371]	6912	[7870, 5684]
820	[1565, 1566]	2851	[3789, 3996]	4882	[6709, 5844]	6913	[5119, 2762]
821	[1567, 1568]	2852	[4646, 1515]	4883	[6710, 5763]	6914	[3090, 3083]
822	[1569, 1570]	2853	[4647, 4648]	4884	[168, 6572]	6915	[230, 7871]
823	[1134, 1571]	2854	[4517, 4649]	4885	[2713, 6531]	6916	[5403, 6683]
824	[324, 1572]	2855	[4650, 1127]	4886	[2961, 5966]	6917	[747, 5826]
825	[1573, 111]	2856	[1156, 3669]	4887	[1970, 5590]	6918	[5578, 2]
826	[1574, 353]	2857	[4469, 4012]	4888	[6424, 2805]	6919	[6005, 561]
827	[1575, 1576]	2858	[4651, 3859]	4889	[6711, 6407]	6920	[7872, 7873]
828	[1577, 1578]	2859	[4652, 1815]	4890	[6712, 6300]	6921	[2443, 6735]
829	[1579, 1580]	2860	[4653, 4055]	4891	[5114, 6420]	6922	[2644, 6069]
830	[1581, 1582]	2861	[3410, 4654]	4892	[2537, 2778]	6923	[6708, 875]
831	[328, 1583]	2862	[4655, 4656]	4893	[6625, 6713]	6924	[5655, 2292]
832	[1584, 1585]	2863	[3636, 4657]	4894	[2989, 5762]	6925	[7874, 5184]
833	[1586, 1587]	2864	[4658, 4659]	4895	[6714, 2928]	6926	[5361, 7844]
834	[1588, 1409]	2865	[4660, 4661]	4896	[2891, 6715]	6927	[6590, 5999]
835	[1589, 1590]	2866	[4662, 4663]	4897	[1858, 6716]	6928	[7875, 6142]
836	[1591, 1592]	2867	[3728, 4664]	4898	[6717, 6718]	6929	[7876, 6082]
837	[1593, 1594]	2868	[3249, 4415]	4899	[5020, 6087]	6930	[6739, 7877]
838	[1595, 1596]	2869	[1152, 4665]	4900	[5847, 6719]	6931	[7878, 1899]
839	[1597, 1598]	2870	[4666, 4667]	4901	[5611, 2366]	6932	[5155, 2083]

840	[1599, 1600]	2871	[4668, 4669]	4902	[6720, 2581]	6933	[3084, 6361]
841	[1601, 1602]	2872	[4670, 4671]	4903	[197, 6721]	6934	[7879, 6286]
842	[1603, 1604]	2873	[4672, 4673]	4904	[6722, 6723]	6935	[6727, 7880]
843	[1605, 1606]	2874	[4674, 4259]	4905	[6724, 5494]	6936	[6393, 5524]
844	[1607, 1608]	2875	[4675, 4676]	4906	[1900, 3028]	6937	[6159, 6562]
845	[1609, 1610]	2876	[4677, 4678]	4907	[6725, 5222]	6938	[7880, 4985]
846	[1611, 1612]	2877	[4679, 4680]	4908	[40, 5515]	6939	[2264, 5318]
847	[1613, 1614]	2878	[4681, 4682]	4909	[5933, 6726]	6940	[6253, 6663]
848	[1615, 1616]	2879	[1136, 4579]	4910	[3106, 613]	6941	[7881, 2570]
849	[1617, 1618]	2880	[4683, 3537]	4911	[6628, 2259]	6942	[6197, 5682]
850	[1619, 1235]	2881	[4684, 4685]	4912	[528, 5179]	6943	[6003, 6392]
851	[1620, 483]	2882	[4686, 4539]	4913	[5223, 6727]	6944	[3096, 7882]
852	[1621, 1622]	2883	[4687, 1694]	4914	[5192, 5758]	6945	[5961, 881]
853	[1623, 1624]	2884	[4688, 4689]	4915	[5728, 6652]	6946	[723, 7883]
854	[22, 1625]	2885	[3558, 462]	4916	[6728, 6600]	6947	[2972, 1975]
855	[1626, 1627]	2886	[4690, 4691]	4917	[6228, 6729]	6948	[788, 4980]
856	[1628, 1629]	2887	[4692, 1549]	4918	[6730, 787]	6949	[578, 761]
857	[1630, 1631]	2888	[3834, 4693]	4919	[650, 5972]	6950	[7884, 7848]
858	[1632, 1633]	2889	[4694, 4695]	4920	[2551, 5954]	6951	[5860, 7885]
859	[1634, 1635]	2890	[4150, 1698]	4921	[5997, 2142]	6952	[5593, 6217]
860	[1636, 1637]	2891	[4696, 4697]	4922	[2742, 6731]	6953	[733, 6328]
861	[1457, 1638]	2892	[4030, 405]	4923	[6669, 6091]	6954	[6553, 5550]
862	[1639, 1640]	2893	[4311, 4698]	4924	[2831, 5922]	6955	[6608, 6205]
863	[410, 1641]	2894	[4302, 1689]	4925	[584, 2019]	6956	[6090, 2211]
864	[1642, 1643]	2895	[4699, 4700]	4926	[6126, 6732]	6957	[6673, 6147]
865	[1644, 1645]	2896	[4058, 4701]	4927	[2196, 2964]	6958	[6509, 943]
866	[1480, 1646]	2897	[4702, 4703]	4928	[6733, 6734]	6959	[6121, 5928]
867	[1647, 1286]	2898	[70, 4704]	4929	[6399, 6111]	6960	[3136, 6728]
868	[1648, 1628]	2899	[4705, 4530]	4930	[6735, 5083]	6961	[7886, 7887]
869	[1649, 1650]	2900	[1608, 4706]	4931	[6736, 6737]	6962	[3122, 622]
870	[1651, 1652]	2901	[3577, 4707]	4932	[2948, 2607]	6963	[5122, 6632]
871	[1653, 1654]	2902	[4582, 4636]	4933	[1942, 2159]	6964	[2494, 2099]
872	[1655, 119]	2903	[4708, 4709]	4934	[6374, 575]	6965	[7795, 557]
873	[1656, 1657]	2904	[3878, 4710]	4935	[6738, 6739]	6966	[7888, 7889]
874	[1658, 311]	2905	[3543, 4711]	4936	[6398, 4988]	6967	[3009, 6681]
875	[1659, 1660]	2906	[4710, 4712]	4937	[6740, 2579]	6968	[2345, 6703]
876	[1661, 1662]	2907	[4713, 4714]	4938	[6741, 5283]	6969	[7890, 2391]
877	[1663, 1664]	2908	[3228, 4715]	4939	[1987, 6484]	6970	[227, 5291]
878	[1665, 1666]	2909	[4716, 4717]	4940	[614, 3137]	6971	[7891, 7820]
879	[1667, 1668]	2910	[3999, 4718]	4941	[652, 6742]	6972	[5505, 3115]
880	[1669, 1670]	2911	[4719, 4720]	4942	[2199, 2361]	6973	[5055, 5765]
881	[1671, 1672]	2912	[383, 4721]	4943	[5136, 6743]	6974	[7892, 2309]
882	[1673, 1674]	2913	[4722, 1221]	4944	[966, 5323]	6975	[5874, 837]
883	[1675, 1676]	2914	[1435, 4723]	4945	[6744, 6745]	6976	[5197, 5290]

884	[1677, 1678]	2915	[4724, 1323]	4946	[1958, 2405]	6977	[2335, 7893]
885	[980, 1679]	2916	[4480, 4725]	4947	[6746, 6439]	6978	[5205, 6191]
886	[1680, 1681]	2917	[4726, 4325]	4948	[5062, 6441]	6979	[6429, 1930]
887	[1682, 1683]	2918	[3629, 4727]	4949	[236, 5968]	6980	[6508, 7894]
888	[1684, 1038]	2919	[4572, 4728]	4950	[5049, 6050]	6981	[6309, 5056]
889	[1685, 1686]	2920	[4729, 4730]	4951	[5356, 823]	6982	[2375, 6454]
890	[1687, 1223]	2921	[4731, 3190]	4952	[6117, 3033]	6983	[885, 3051]
891	[1688, 1467]	2922	[3634, 4674]	4953	[6747, 6648]	6984	[5034, 2275]
892	[1689, 1690]	2923	[4027, 93]	4954	[6505, 941]	6985	[7895, 5495]
893	[1285, 1691]	2924	[3244, 4434]	4955	[691, 2233]	6986	[7819, 5207]
894	[1492, 1692]	2925	[4732, 4436]	4956	[2060, 6685]	6987	[5171, 6020]
895	[1140, 1693]	2926	[3260, 4733]	4957	[6666, 6748]	6988	[2633, 2573]
896	[1694, 1695]	2927	[64, 4734]	4958	[6749, 6229]	6989	[6465, 6753]
897	[1696, 1697]	2928	[3953, 4735]	4959	[2255, 6222]	6990	[6249, 6030]
898	[1698, 1699]	2929	[4016, 4736]	4960	[5810, 6750]	6991	[6324, 6032]
899	[1700, 1701]	2930	[4418, 4133]	4961	[5645, 5521]	6992	[7893, 1882]
900	[1702, 1703]	2931	[4737, 4642]	4962	[2293, 6751]	6993	[7896, 6643]
901	[1704, 1705]	2932	[4738, 301]	4963	[6665, 6752]	6994	[6321, 5974]
902	[1706, 1707]	2933	[3930, 4739]	4964	[6753, 2980]	6995	[6368, 5715]
903	[1708, 1709]	2934	[4740, 4589]	4965	[242, 6586]	6996	[6475, 7897]
904	[1178, 1710]	2935	[4741, 4446]	4966	[6754, 2138]	6997	[2682, 6610]
905	[1349, 1711]	2936	[4742, 4743]	4967	[6609, 6747]	6998	[3070, 5047]
906	[1712, 1713]	2937	[1260, 4744]	4968	[6755, 2130]	6999	[6580, 5306]
907	[1714, 1715]	2938	[4745, 470]	4969	[6756, 6059]	7000	[6202, 5397]
908	[428, 1716]	2939	[3686, 4526]	4970	[2995, 2326]	7001	[6705, 7898]
909	[340, 1717]	2940	[4746, 3424]	4971	[2038, 6756]	7002	[6218, 6189]
910	[1718, 1719]	2941	[4477, 1284]	4972	[3082, 6757]	7003	[7899, 6323]
911	[1720, 1721]	2942	[4478, 4747]	4973	[5848, 1922]	7004	[6460, 2823]
912	[1722, 1723]	2943	[4748, 4749]	4974	[6758, 4679]	7005	[6555, 141]
913	[1724, 393]	2944	[4750, 1599]	4975	[3846, 4130]	7006	[5956, 7900]
914	[1594, 1725]	2945	[1100, 4751]	4976	[4285, 6759]	7007	[7901, 1884]
915	[1726, 1483]	2946	[3346, 1665]	4977	[6760, 3693]	7008	[5277, 7902]
916	[1727, 1728]	2947	[4752, 4753]	4978	[4587, 3420]	7009	[6190, 6496]
917	[1729, 329]	2948	[4754, 4312]	4979	[6761, 1321]	7010	[3034, 6086]
918	[1552, 1730]	2949	[3747, 4708]	4980	[1512, 3717]	7011	[7903, 7904]
919	[1731, 1732]	2950	[4755, 4756]	4981	[3627, 6762]	7012	[6244, 3132]
920	[1697, 1733]	2951	[4757, 4758]	4982	[6763, 6764]	7013	[7905, 7906]
921	[1734, 1735]	2952	[4553, 1343]	4983	[1142, 6765]	7014	[5032, 5284]
922	[1736, 1737]	2953	[4759, 4760]	4984	[6766, 6767]	7015	[6627, 6690]
923	[1738, 1739]	2954	[4761, 4504]	4985	[6768, 3453]	7016	[2594, 886]
924	[1740, 1741]	2955	[1324, 4762]	4986	[6769, 4617]	7017	[7907, 949]
925	[1742, 1743]	2956	[4751, 4763]	4987	[4832, 4833]	7018	[7908, 3019]
926	[1744, 1745]	2957	[4764, 4182]	4988	[3338, 6770]	7019	[6199, 2703]
927	[1746, 1747]	2958	[4765, 4672]	4989	[3512, 6771]	7020	[5766, 7909]

928	[1748, 1749]	2959	[4238, 4675]	4990	[6772, 6773]	7021	[5872, 5044]
929	[1750, 1751]	2960	[3450, 4404]	4991	[6774, 6775]	7022	[5324, 3105]
930	[1752, 1265]	2961	[4766, 4767]	4992	[6776, 6777]	7023	[540, 660]
931	[1753, 1754]	2962	[3536, 1506]	4993	[6778, 3417]	7024	[7910, 7911]
932	[1755, 1756]	2963	[498, 4768]	4994	[6779, 6780]	7025	[6447, 5895]
933	[1757, 1758]	2964	[4769, 4291]	4995	[4410, 6781]	7026	[5894, 5523]
934	[1759, 65]	2965	[3765, 3618]	4996	[6782, 3188]	7027	[7912, 2675]
935	[1760, 1761]	2966	[4770, 4197]	4997	[4425, 6783]	7028	[5557, 6394]
936	[1762, 1763]	2967	[4771, 4772]	4998	[6784, 6785]	7029	[791, 5957]
937	[1764, 1731]	2968	[3605, 3215]	4999	[3527, 3487]	7030	[7906, 7913]
938	[374, 1765]	2969	[4773, 4774]	5000	[6786, 6787]	7031	[2420, 5707]
939	[1148, 1766]	2970	[4775, 4776]	5001	[6788, 4765]	7032	[6598, 5345]
940	[1767, 1517]	2971	[3718, 3421]	5002	[1200, 3463]	7033	[5941, 5228]
941	[1768, 1769]	2972	[381, 4777]	5003	[4552, 4359]	7034	[5829, 888]
942	[1770, 1771]	2973	[4778, 4779]	5004	[6789, 6790]	7035	[6471, 7914]
943	[1066, 1772]	2974	[3567, 4528]	5005	[6791, 4441]	7036	[6529, 7915]
944	[1773, 1621]	2975	[4780, 3315]	5006	[3553, 6792]	7037	[6624, 7867]
945	[1774, 1775]	2976	[4781, 4265]	5007	[3767, 6793]	7038	[6440, 1927]
946	[1776, 1777]	2977	[3226, 4782]	5008	[6794, 4151]	7039	[6396, 6195]
947	[1537, 1778]	2978	[4783, 1266]	5009	[4613, 6795]	7040	[7877, 7916]
948	[1433, 1779]	2979	[4784, 4409]	5010	[6796, 6797]	7041	[6327, 6503]
949	[1780, 1781]	2980	[3803, 4785]	5011	[6798, 1007]	7042	[5967, 2222]
950	[1756, 1782]	2981	[4786, 4787]	5012	[6799, 3770]	7043	[5574, 5257]
951	[1783, 1784]	2982	[4788, 4789]	5013	[4794, 6800]	7044	[6320, 7917]
952	[1785, 1656]	2983	[465, 3773]	5014	[6801, 6802]	7045	[7918, 5777]
953	[1769, 1786]	2984	[3204, 4790]	5015	[6803, 6804]	7046	[4996, 1829]
954	[1079, 1787]	2985	[1792, 4791]	5016	[6805, 6806]	7047	[5135, 5240]
955	[1788, 1789]	2986	[4792, 4793]	5017	[6807, 6808]	7048	[6211, 6290]
956	[1790, 1729]	2987	[3538, 4794]	5018	[4456, 6809]	7049	[5204, 5601]
957	[1791, 1792]	2988	[4795, 4796]	5019	[4076, 6810]	7050	[5266, 2490]
958	[1410, 1793]	2989	[3798, 1145]	5020	[1210, 1093]	7051	[2111, 2918]
959	[1794, 1795]	2990	[4797, 4244]	5021	[6811, 6812]	7052	[6446, 6152]
960	[1796, 1797]	2991	[4798, 4799]	5022	[4868, 1655]	7053	[5801, 6651]
961	[1798, 1799]	2992	[4800, 1542]	5023	[6813, 6814]	7054	[6667, 7919]
962	[1800, 1801]	2993	[1400, 4335]	5024	[4735, 6815]	7055	[1895, 5465]
963	[1802, 1803]	2994	[3470, 4801]	5025	[1408, 6816]	7056	[7887, 6037]
964	[1713, 1804]	2995	[4802, 4803]	5026	[3944, 6817]	7057	[7920, 6378]
965	[1805, 1806]	2996	[1692, 4804]	5027	[4185, 493]	7058	[5619, 1925]
966	[1807, 1808]	2997	[4777, 3700]	5028	[3732, 6818]	7059	[7921, 7922]
967	[1809, 1810]	2998	[4805, 3835]	5029	[6819, 6820]	7060	[7923, 5054]
968	[496, 29]	2999	[4806, 3377]	5030	[3921, 6821]	7061	[2560, 897]
969	[1811, 1812]	3000	[1666, 4807]	5031	[4310, 6822]	7062	[7924, 2460]
970	[1813, 1814]	3001	[1816, 4808]	5032	[266, 6823]	7063	[2506, 6260]
971	[1815, 1816]	3002	[4809, 4596]	5033	[1482, 6824]	7064	[7925, 6363]

972	[1817, 1818]	3003	[1541, 452]	5034	[1775, 975]	7065	[7926, 7927]
973	[1819, 1820]	3004	[4810, 4213]	5035	[4132, 6825]	7066	[6148, 3065]
974	[1821, 1822]	3005	[4811, 3192]	5036	[4698, 6826]	7067	[7928, 2876]
975	[1823, 1824]	3006	[4812, 3178]	5037	[4280, 3290]	7068	[5843, 2373]
976	[1825, 1826]	3007	[4669, 4813]	5038	[4592, 6827]	7069	[6348, 7929]
977	[1827, 1828]	3008	[4814, 4815]	5039	[1041, 3833]	7070	[7930, 2280]
978	[1829, 1830]	3009	[4816, 4817]	5040	[6806, 6828]	7071	[3080, 7924]
979	[1831, 1832]	3010	[4818, 4819]	5041	[4430, 4867]	7072	[14, 6412]
980	[1833, 1834]	3011	[4820, 4821]	5042	[6829, 6830]	7073	[7811, 5871]
981	[1835, 1836]	3012	[4709, 1288]	5043	[6831, 6832]	7074	[536, 7931]
982	[1837, 1838]	3013	[4689, 4822]	5044	[6833, 6834]	7075	[5462, 7799]
983	[542, 912]	3014	[4823, 4824]	5045	[6835, 1544]	7076	[5327, 7908]
984	[1839, 1840]	3015	[4289, 4825]	5046	[354, 6836]	7077	[3155, 5678]
985	[1841, 1842]	3016	[385, 4826]	5047	[420, 6837]	7078	[2898, 7932]
986	[1843, 1844]	3017	[4827, 4828]	5048	[4680, 6776]	7079	[7933, 6104]
987	[1845, 1846]	3018	[1428, 1294]	5049	[6838, 4748]	7080	[2913, 6559]
988	[1847, 1848]	3019	[4822, 4829]	5050	[6839, 6840]	7081	[6698, 7896]
989	[510, 1849]	3020	[4830, 466]	5051	[6841, 4201]	7082	[6731, 6084]
990	[1850, 1851]	3021	[358, 4831]	5052	[6842, 6843]	7083	[7839, 7934]
991	[240, 1852]	3022	[1561, 4832]	5053	[6844, 3817]	7084	[2678, 6697]
992	[1853, 1854]	3023	[4833, 4834]	5054	[30, 6845]	7085	[648, 6177]
993	[1855, 1856]	3024	[4835, 458]	5055	[6846, 6847]	7086	[842, 916]
994	[1857, 1858]	3025	[4836, 1817]	5056	[4838, 6848]	7087	[2670, 7935]
995	[1859, 1860]	3026	[4837, 4838]	5057	[4787, 6849]	7088	[5889, 7936]
996	[1861, 1862]	3027	[1281, 4839]	5058	[1387, 6850]	7089	[5815, 7912]
997	[1863, 1864]	3028	[4840, 4841]	5059	[1812, 4424]	7090	[6057, 6560]
998	[1865, 1866]	3029	[3778, 1595]	5060	[1728, 3495]	7091	[5334, 5194]
999	[514, 1867]	3030	[4842, 325]	5061	[6851, 6805]	7092	[6680, 742]
1000	[1868, 1869]	3031	[3724, 4843]	5062	[3986, 6852]	7093	[2746, 5176]
1001	[1870, 1871]	3032	[4844, 3840]	5063	[6853, 4816]	7094	[5321, 6517]
1002	[1872, 1873]	3033	[4845, 4846]	5064	[4931, 6854]	7095	[7937, 6389]
1003	[1874, 1875]	3034	[4847, 1740]	5065	[6855, 6856]	7096	[6682, 2351]
1004	[1876, 1877]	3035	[4848, 4849]	5066	[6857, 4144]	7097	[2160, 6384]
1005	[1878, 1879]	3036	[4850, 4800]	5067	[4134, 3808]	7098	[1889, 6347]
1006	[1880, 1881]	3037	[3818, 4851]	5068	[1021, 4419]	7099	[5944, 7879]
1007	[1882, 1883]	3038	[4852, 1528]	5069	[4111, 1593]	7100	[6737, 6261]
1008	[1884, 1885]	3039	[4853, 3343]	5070	[4358, 6858]	7101	[2489, 5771]
1009	[1886, 1887]	3040	[4854, 4855]	5071	[6859, 6860]	7102	[2073, 43]
1010	[1888, 1889]	3041	[4856, 4857]	5072	[6861, 6862]	7103	[526, 2659]
1011	[1890, 1891]	3042	[4664, 4858]	5073	[84, 4850]	7104	[6629, 7808]
1012	[1892, 1893]	3043	[4859, 4860]	5074	[6856, 6863]	7105	[7929, 173]
1013	[1894, 1895]	3044	[3781, 1252]	5075	[6864, 6865]	7106	[6612, 5278]
1014	[1896, 1897]	3045	[4861, 3368]	5076	[6866, 1632]	7107	[5792, 2609]
1015	[805, 1898]	3046	[4801, 1350]	5077	[6867, 3594]	7108	[6489, 2611]

1016	[1899, 1900]	3047	[3883, 3857]	5078	[4632, 3666]	7109	[5570, 7920]
1017	[1901, 1902]	3048	[4862, 4863]	5079	[6868, 6869]	7110	[6345, 5799]
1018	[1903, 1904]	3049	[4864, 4090]	5080	[6870, 6871]	7111	[5545, 905]
1019	[1905, 1906]	3050	[4175, 4865]	5081	[6872, 6873]	7112	[5568, 2542]
1020	[1907, 1908]	3051	[4866, 4719]	5082	[4498, 6874]	7113	[7897, 2661]
1021	[1909, 1910]	3052	[4402, 3307]	5083	[1510, 6875]	7114	[5773, 7938]
1022	[1911, 1912]	3053	[3355, 3523]	5084	[1085, 4065]	7115	[7939, 5919]
1023	[1913, 1914]	3054	[4867, 1141]	5085	[6876, 3710]	7116	[6726, 2189]
1024	[781, 1915]	3055	[1751, 4868]	5086	[3197, 6877]	7117	[2016, 7940]
1025	[1916, 1917]	3056	[4869, 1026]	5087	[6878, 6879]	7118	[7941, 7797]
1026	[1918, 1919]	3057	[1395, 4870]	5088	[6880, 6881]	7119	[6662, 5201]
1027	[1920, 1921]	3058	[4871, 4820]	5089	[6882, 6883]	7120	[6567, 7942]
1028	[1922, 151]	3059	[4872, 3823]	5090	[6884, 6885]	7121	[7873, 1959]
1029	[1923, 1924]	3060	[1782, 4873]	5091	[4341, 6886]	7122	[5303, 5625]
1030	[1925, 1926]	3061	[80, 4874]	5092	[6887, 1208]	7123	[7913, 2421]
1031	[1927, 957]	3062	[3595, 442]	5093	[4855, 1088]	7124	[3029, 5326]
1032	[1928, 1929]	3063	[4875, 4876]	5094	[6888, 3698]	7125	[2504, 6501]
1033	[1930, 1931]	3064	[3468, 4802]	5095	[6889, 6890]	7126	[2515, 2655]
1034	[1932, 1933]	3065	[4877, 1615]	5096	[3349, 6789]	7127	[6257, 6109]
1035	[1934, 1935]	3066	[4878, 1738]	5097	[6891, 6892]	7128	[1988, 5692]
1036	[1936, 198]	3067	[484, 4879]	5098	[4068, 3924]	7129	[5764, 6676]
1037	[1937, 1938]	3068	[1077, 4658]	5099	[4070, 3926]	7130	[246, 5703]
1038	[1939, 1940]	3069	[4880, 3270]	5100	[3942, 3877]	7131	[219, 7943]
1039	[1941, 1942]	3070	[4881, 1292]	5101	[6893, 4937]	7132	[7858, 6280]
1040	[1943, 1944]	3071	[4882, 4883]	5102	[6894, 6893]	7133	[7911, 6542]
1041	[1945, 1946]	3072	[4884, 456]	5103	[6895, 6896]	7134	[7798, 7895]
1042	[1947, 1948]	3073	[4484, 4885]	5104	[4028, 4481]	7135	[2034, 6002]
1043	[1949, 1950]	3074	[4475, 4886]	5105	[6897, 6898]	7136	[2279, 7944]
1044	[1951, 1952]	3075	[4887, 3647]	5106	[6899, 6900]	7137	[7945, 5052]
1045	[506, 1953]	3076	[4888, 4889]	5107	[6901, 339]	7138	[7807, 47]
1046	[1954, 1955]	3077	[4661, 4732]	5108	[4828, 4440]	7139	[2036, 7865]
1047	[797, 1956]	3078	[4890, 4891]	5109	[98, 6902]	7140	[5912, 5528]
1048	[1957, 1958]	3079	[4892, 4505]	5110	[74, 4164]	7141	[878, 6245]
1049	[1959, 1960]	3080	[3208, 3656]	5111	[1287, 1669]	7142	[4994, 6623]
1050	[1961, 707]	3081	[1553, 4893]	5112	[6903, 4189]	7143	[7946, 2252]
1051	[1962, 1963]	3082	[4502, 4894]	5113	[1319, 6904]	7144	[5336, 7947]
1052	[1964, 1965]	3083	[4520, 4421]	5114	[4891, 4448]	7145	[5640, 7926]
1053	[1966, 1967]	3084	[3858, 4895]	5115	[6905, 6906]	7146	[2680, 6179]
1054	[1968, 1901]	3085	[3359, 1147]	5116	[1622, 6907]	7147	[205, 7948]
1055	[1969, 1970]	3086	[4896, 4897]	5117	[1115, 6908]	7148	[7949, 5830]
1056	[1971, 1972]	3087	[4444, 4898]	5118	[6909, 6835]	7149	[7943, 3127]
1057	[1973, 1974]	3088	[4790, 4899]	5119	[6910, 4536]	7150	[2179, 5995]
1058	[1975, 1976]	3089	[4900, 4467]	5120	[3871, 1101]	7151	[7904, 6659]
1059	[532, 1977]	3090	[1190, 4901]	5121	[6911, 3201]	7152	[7950, 6356]

1060	[1978, 1979]	3091	[4499, 4902]	5122	[6912, 3725]	7153	[7951, 6358]
1061	[1980, 1981]	3092	[4903, 4069]	5123	[6913, 1535]	7154	[6596, 2627]
1062	[1982, 1983]	3093	[3763, 4904]	5124	[6914, 6914]	7155	[7952, 2631]
1063	[1984, 1985]	3094	[4524, 3219]	5125	[6915, 3341]	7156	[7919, 2899]
1064	[1986, 1987]	3095	[4905, 4514]	5126	[272, 6916]	7157	[4984, 6664]
1065	[608, 1988]	3096	[3199, 1187]	5127	[1439, 6917]	7158	[6372, 2023]
1066	[1989, 1990]	3097	[4328, 4906]	5128	[6918, 6919]	7159	[2404, 7953]
1067	[1991, 736]	3098	[4907, 4908]	5129	[6920, 6921]	7160	[2367, 5978]
1068	[1992, 1993]	3099	[1150, 3404]	5130	[1000, 3280]	7161	[7954, 7955]
1069	[1838, 965]	3100	[4909, 4910]	5131	[6922, 4080]	7162	[7956, 7847]
1070	[1994, 1995]	3101	[4911, 1452]	5132	[3179, 23]	7163	[820, 5246]
1071	[1879, 1996]	3102	[3413, 4002]	5133	[6923, 1110]	7164	[2873, 7951]
1072	[1997, 1998]	3103	[300, 4389]	5134	[6924, 3486]	7165	[533, 6436]
1073	[1999, 2000]	3104	[4912, 4913]	5135	[6925, 16]	7166	[2320, 5818]
1074	[2001, 2002]	3105	[4914, 3329]	5136	[6926, 6927]	7167	[6332, 6334]
1075	[2003, 2004]	3106	[3591, 4915]	5137	[6928, 6929]	7168	[3134, 5796]
1076	[2005, 2006]	3107	[1377, 4916]	5138	[3573, 1759]	7169	[6595, 3117]
1077	[864, 2007]	3108	[4917, 4918]	5139	[1035, 323]	7170	[7957, 5398]
1078	[2008, 2009]	3109	[4390, 3198]	5140	[6930, 6931]	7171	[7958, 2294]
1079	[2010, 2011]	3110	[330, 4859]	5141	[6932, 4374]	7172	[6000, 7899]
1080	[2012, 2013]	3111	[332, 4919]	5142	[76, 6933]	7173	[5730, 7806]
1081	[2014, 2015]	3112	[474, 4920]	5143	[3867, 6934]	7174	[6408, 6018]
1082	[130, 2016]	3113	[4007, 4921]	5144	[6935, 6936]	7175	[7959, 7878]
1083	[2017, 2018]	3114	[4922, 4923]	5145	[6937, 3496]	7176	[5918, 7960]
1084	[2019, 2020]	3115	[4924, 3649]	5146	[6938, 3599]	7177	[5591, 870]
1085	[2021, 2022]	3116	[3895, 1613]	5147	[4125, 6939]	7178	[932, 7961]
1086	[2023, 2024]	3117	[4246, 4925]	5148	[6940, 3712]	7179	[6693, 2969]
1087	[2025, 2026]	3118	[3518, 4926]	5149	[6941, 6942]	7180	[588, 7962]
1088	[2027, 2028]	3119	[4927, 3247]	5150	[6943, 6944]	7181	[5013, 3097]
1089	[2029, 2030]	3120	[4928, 4537]	5151	[3760, 6945]	7182	[6231, 7905]
1090	[2031, 2032]	3121	[4428, 4929]	5152	[4654, 6946]	7183	[5932, 531]
1091	[2033, 2034]	3122	[4930, 4000]	5153	[4041, 6947]	7184	[6293, 6597]
1092	[2035, 2036]	3123	[1326, 4931]	5154	[404, 6948]	7185	[7846, 7963]
1093	[2037, 2038]	3124	[4703, 4932]	5155	[6949, 6950]	7186	[7942, 5983]
1094	[2039, 551]	3125	[3826, 4232]	5156	[6951, 4256]	7187	[7856, 5028]
1095	[2040, 2041]	3126	[4685, 4933]	5157	[4656, 991]	7188	[5249, 5851]
1096	[1976, 2042]	3127	[435, 1201]	5158	[4540, 384]	7189	[7938, 7888]
1097	[2043, 2044]	3128	[4934, 4470]	5159	[459, 1509]	7190	[6472, 6622]
1098	[2045, 2046]	3129	[4935, 4936]	5160	[3976, 3801]	7191	[7964, 7875]
1099	[2047, 2048]	3130	[1154, 3348]	5161	[304, 6952]	7192	[6194, 6741]
1100	[2049, 2050]	3131	[1062, 3225]	5162	[6953, 6954]	7193	[5536, 7965]
1101	[2051, 2052]	3132	[4937, 3685]	5163	[6955, 3960]	7194	[7947, 672]
1102	[2053, 2054]	3133	[3800, 4284]	5164	[3989, 6956]	7195	[5691, 6451]
1103	[2055, 1997]	3134	[4938, 4939]	5165	[1351, 6957]	7196	[3165, 7966]

1104	[2056, 1999]	3135	[4940, 3473]	5166	[1741, 6958]	7197	[5297, 2629]
1105	[2057, 2058]	3136	[4919, 4941]	5167	[4013, 4722]	7198	[6723, 7954]
1106	[2059, 2060]	3137	[1188, 4942]	5168	[6959, 6960]	7199	[199, 7967]
1107	[2061, 2062]	3138	[3367, 4943]	5169	[6787, 6961]	7200	[2337, 5221]
1108	[2063, 2064]	3139	[4243, 4307]	5170	[4420, 1118]	7201	[7953, 850]
1109	[2015, 2065]	3140	[4671, 4944]	5171	[6962, 6963]	7202	[5071, 6305]
1110	[2066, 2067]	3141	[4945, 4946]	5172	[1363, 6964]	7203	[7968, 6592]
1111	[2068, 2069]	3142	[4947, 4948]	5173	[6965, 6966]	7204	[7796, 639]
1112	[2070, 2071]	3143	[4422, 1163]	5174	[3983, 3805]	7205	[6220, 545]
1113	[2072, 2073]	3144	[4949, 3454]	5175	[3673, 6967]	7206	[7969, 2063]
1114	[2074, 2075]	3145	[4950, 4610]	5176	[4272, 6968]	7207	[7824, 7837]
1115	[2076, 732]	3146	[3680, 4951]	5177	[4791, 1195]	7208	[6614, 877]
1116	[2077, 1878]	3147	[4098, 4061]	5178	[6969, 1304]	7209	[6504, 5333]
1117	[2078, 2079]	3148	[4952, 4533]	5179	[1025, 1386]	7210	[6606, 5485]
1118	[2080, 686]	3149	[4953, 4954]	5180	[6970, 3386]	7211	[46, 7907]
1119	[2081, 2082]	3150	[1184, 4955]	5181	[6971, 1046]	7212	[2145, 6248]
1120	[2083, 2084]	3151	[500, 3230]	5182	[6972, 3448]	7213	[182, 1905]
1121	[2085, 2086]	3152	[4956, 4957]	5183	[4087, 4516]	7214	[7970, 2389]
1122	[2087, 2088]	3153	[3934, 1588]	5184	[6973, 6974]	7215	[7948, 3017]
1123	[2089, 2090]	3154	[4958, 4959]	5185	[318, 3203]	7216	[2846, 6210]
1124	[2091, 2092]	3155	[4960, 4961]	5186	[6975, 5]	7217	[2026, 6048]
1125	[2093, 2094]	3156	[1247, 4962]	5187	[3332, 6976]	7218	[6350, 7949]
1126	[2095, 2096]	3157	[1249, 4651]	5188	[1271, 6977]	7219	[7909, 6746]
1127	[2097, 2098]	3158	[1717, 1581]	5189	[6767, 293]	7220	[5708, 2647]
1128	[2099, 2100]	3159	[1393, 4963]	5190	[6770, 6978]	7221	[5953, 6132]
1129	[2101, 2102]	3160	[3233, 3890]	5191	[3335, 6979]	7222	[6176, 6160]
1130	[2103, 2104]	3161	[4337, 4964]	5192	[6980, 4029]	7223	[6550, 7971]
1131	[669, 2105]	3162	[1564, 4965]	5193	[3299, 6932]	7224	[7860, 3023]
1132	[2106, 2107]	3163	[4966, 4784]	5194	[6981, 3679]	7225	[1974, 3079]
1133	[2108, 2109]	3164	[96, 3172]	5195	[6780, 4371]	7226	[6381, 6738]
1134	[2110, 2111]	3165	[439, 4967]	5196	[1297, 6982]	7227	[7916, 7972]
1135	[2112, 2113]	3166	[4968, 4969]	5197	[6983, 6984]	7228	[5525, 5128]
1136	[2114, 2115]	3167	[4180, 4970]	5198	[6985, 1086]	7229	[7831, 5481]
1137	[2052, 2116]	3168	[3447, 4971]	5199	[6986, 446]	7230	[2734, 7830]
1138	[2117, 2118]	3169	[4972, 4973]	5200	[3850, 3298]	7231	[7973, 2687]
1139	[2119, 2120]	3170	[4224, 3525]	5201	[3186, 6987]	7232	[2512, 2519]
1140	[2121, 2122]	3171	[4974, 2876]	5202	[4060, 3616]	7233	[6742, 7974]
1141	[2123, 2124]	3172	[4975, 2878]	5203	[6988, 6989]	7234	[7810, 5898]
1142	[2125, 2126]	3173	[2963, 4976]	5204	[6990, 6991]	7235	[6371, 5724]
1143	[2127, 2128]	3174	[4977, 2923]	5205	[6837, 3234]	7236	[2704, 2078]
1144	[54, 2129]	3175	[4978, 4979]	5206	[6992, 6798]	7237	[5878, 2242]
1145	[2130, 529]	3176	[4980, 709]	5207	[6993, 3423]	7238	[7804, 2231]
1146	[2131, 705]	3177	[244, 4981]	5208	[6994, 6995]	7239	[5458, 523]
1147	[2132, 2133]	3178	[4982, 4983]	5209	[6996, 3575]	7240	[7975, 7890]

1148	[520, 2134]	3179	[2541, 4984]	5210	[6997, 1254]	7241	[5609, 5970]
1149	[2135, 2136]	3180	[4985, 1994]	5211	[4388, 6998]	7242	[3046, 6338]
1150	[56, 2137]	3181	[4986, 4987]	5212	[6999, 3955]	7243	[643, 6519]
1151	[2138, 2139]	3182	[4988, 4989]	5213	[6948, 4523]	7244	[6416, 6617]
1152	[2140, 2141]	3183	[4990, 3055]	5214	[6775, 1574]	7245	[7972, 6486]
1153	[2142, 2143]	3184	[4991, 3119]	5215	[7000, 7001]	7246	[7829, 7845]
1154	[2144, 2145]	3185	[4992, 1957]	5216	[7002, 7003]	7247	[6564, 6379]
1155	[2146, 2147]	3186	[4993, 4994]	5217	[4146, 4766]	7248	[5807, 6118]
1156	[2148, 2149]	3187	[4995, 4996]	5218	[4491, 4917]	7249	[7976, 2484]
1157	[2150, 2151]	3188	[4997, 4998]	5219	[4252, 7004]	7250	[6557, 6670]
1158	[504, 175]	3189	[4999, 5000]	5220	[4616, 7005]	7251	[6588, 7957]
1159	[2152, 1880]	3190	[5001, 2110]	5221	[3974, 7006]	7252	[6646, 7977]
1160	[2153, 2154]	3191	[5002, 5003]	5222	[1096, 4453]	7253	[6694, 7978]
1161	[712, 2155]	3192	[4983, 5004]	5223	[3864, 1532]	7254	[5057, 6387]
1162	[887, 2156]	3193	[5005, 2677]	5224	[7007, 434]	7255	[922, 6704]
1163	[2157, 763]	3194	[5006, 5007]	5225	[7008, 7009]	7256	[5787, 133]
1164	[2158, 2127]	3195	[2824, 5008]	5226	[1559, 433]	7257	[5319, 2035]
1165	[2159, 2160]	3196	[5008, 5009]	5227	[7010, 403]	7258	[2608, 6533]
1166	[2161, 2162]	3197	[5010, 5011]	5228	[7011, 7012]	7259	[7979, 7823]
1167	[2163, 2164]	3198	[5012, 2198]	5229	[7013, 7014]	7260	[5433, 6492]
1168	[2165, 2166]	3199	[2246, 5013]	5230	[7015, 7016]	7261	[7980, 7918]
1169	[592, 2167]	3200	[5014, 5015]	5231	[7017, 7018]	7262	[5388, 2374]
1170	[718, 2168]	3201	[5016, 5017]	5232	[7019, 1491]	7263	[6343, 2068]
1171	[2169, 2170]	3202	[5018, 903]	5233	[7020, 7021]	7264	[2062, 5500]
1172	[1826, 2171]	3203	[2143, 5019]	5234	[1758, 4900]	7265	[5450, 3153]
1173	[2172, 2173]	3204	[626, 5020]	5235	[4173, 7022]	7266	[5838, 6494]
1174	[2174, 2175]	3205	[5021, 2821]	5236	[1508, 7023]	7267	[6618, 6587]
1175	[2176, 2177]	3206	[5022, 513]	5237	[1803, 4805]	7268	[2646, 6601]
1176	[2178, 2179]	3207	[5023, 3004]	5238	[7024, 7025]	7269	[6621, 7813]
1177	[2180, 2181]	3208	[5024, 5025]	5239	[7026, 3352]	7270	[7894, 7861]
1178	[2182, 2183]	3209	[5026, 2975]	5240	[4936, 3320]	7271	[6096, 6134]
1179	[2184, 2185]	3210	[2331, 5027]	5241	[7027, 7028]	7272	[6716, 6650]
1180	[671, 2186]	3211	[5028, 5029]	5242	[4096, 4593]	7273	[6461, 7981]
1181	[2187, 2188]	3212	[5030, 2935]	5243	[7029, 3973]	7274	[2394, 3161]
1182	[2189, 2190]	3213	[5031, 5024]	5244	[3578, 3544]	7275	[7982, 7983]
1183	[2191, 2192]	3214	[2365, 5032]	5245	[3405, 4123]	7276	[5448, 6724]
1184	[2193, 2194]	3215	[5033, 5034]	5246	[4939, 7030]	7277	[6277, 5341]
1185	[2195, 2196]	3216	[5035, 5036]	5247	[1289, 7031]	7278	[5285, 7984]
1186	[2197, 2072]	3217	[5037, 3010]	5248	[4298, 4620]	7279	[5546, 6457]
1187	[2198, 2199]	3218	[5038, 5039]	5249	[455, 7032]	7280	[3043, 7985]
1188	[2200, 2201]	3219	[5040, 5041]	5250	[3963, 3232]	7281	[5561, 7986]
1189	[2202, 2203]	3220	[5042, 5043]	5251	[3441, 6769]	7282	[5980, 7892]
1190	[2147, 2204]	3221	[5044, 914]	5252	[7033, 3354]	7283	[2974, 7987]
1191	[1873, 2205]	3222	[5045, 5046]	5253	[1587, 3402]	7284	[225, 6235]

1192	[2084, 2206]	3223	[5047, 670]	5254	[7034, 7035]	7285	[6016, 6722]
1193	[2207, 1923]	3224	[5048, 5049]	5255	[7036, 7037]	7286	[5208, 5964]
1194	[2208, 2209]	3225	[5050, 5051]	5256	[7038, 4892]	7287	[7960, 5050]
1195	[889, 2210]	3226	[5052, 5053]	5257	[7039, 6903]	7288	[6551, 6515]
1196	[2211, 2212]	3227	[5054, 5055]	5258	[4403, 7040]	7289	[7965, 6266]
1197	[2213, 2214]	3228	[5056, 5057]	5259	[1303, 7041]	7290	[7917, 5612]
1198	[2215, 204]	3229	[2550, 5058]	5260	[94, 7042]	7291	[7885, 1823]
1199	[1893, 2163]	3230	[970, 5059]	5261	[482, 4209]	7292	[3144, 5381]
1200	[2216, 2217]	3231	[3050, 5060]	5262	[4657, 7043]	7293	[3012, 7988]
1201	[847, 2218]	3232	[5061, 5062]	5263	[7044, 7045]	7294	[2558, 7930]
1202	[849, 2219]	3233	[5063, 5064]	5264	[1459, 101]	7295	[5803, 782]
1203	[954, 1971]	3234	[5065, 5066]	5265	[3210, 6819]	7296	[2598, 7800]
1204	[2220, 2221]	3235	[5067, 5068]	5266	[7046, 977]	7297	[7989, 6252]
1205	[2222, 2223]	3236	[2079, 2822]	5267	[4527, 477]	7298	[6702, 6706]
1206	[2224, 2225]	3237	[5069, 2696]	5268	[4365, 3793]	7299	[6442, 5354]
1207	[2226, 2227]	3238	[5070, 5071]	5269	[4584, 4047]	7300	[6456, 7950]
1208	[2228, 2229]	3239	[3124, 5072]	5270	[1562, 7047]	7301	[7971, 539]
1209	[2230, 2037]	3240	[2342, 5073]	5271	[998, 1605]	7302	[2854, 7990]
1210	[2231, 2232]	3241	[5074, 5075]	5272	[1383, 4696]	7303	[644, 2998]
1211	[2233, 2234]	3242	[5076, 5077]	5273	[1058, 1095]	7304	[2041, 7959]
1212	[2235, 2236]	3243	[2965, 5078]	5274	[7048, 3984]	7305	[5623, 3143]
1213	[2237, 2238]	3244	[5079, 5080]	5275	[7049, 3659]	7306	[5588, 7901]
1214	[915, 1833]	3245	[5081, 5082]	5276	[7050, 1359]	7307	[6140, 2950]
1215	[8, 2239]	3246	[5083, 2694]	5277	[1571, 7051]	7308	[5474, 7991]
1216	[2240, 2241]	3247	[5084, 5085]	5278	[7052, 7053]	7309	[836, 7973]
1217	[2242, 2243]	3248	[5086, 5087]	5279	[4885, 7054]	7310	[830, 5504]
1218	[2244, 2144]	3249	[5088, 5089]	5280	[4473, 7055]	7311	[7992, 2556]
1219	[2245, 2246]	3250	[2445, 5090]	5281	[4906, 4880]	7312	[6462, 2003]
1220	[2247, 2112]	3251	[5009, 5091]	5282	[1646, 1082]	7313	[6719, 5387]
1221	[2248, 2249]	3252	[5092, 5093]	5283	[7056, 7057]	7314	[6658, 2959]
1222	[2250, 2251]	3253	[5094, 806]	5284	[4020, 7058]	7315	[7993, 7933]
1223	[2252, 2253]	3254	[5095, 5096]	5285	[6823, 4912]	7316	[5576, 6154]
1224	[2254, 2255]	3255	[5085, 2395]	5286	[7059, 3931]	7317	[2944, 5479]
1225	[2256, 945]	3256	[3014, 5097]	5287	[1406, 1734]	7318	[855, 7994]
1226	[2257, 2258]	3257	[5098, 5099]	5288	[3287, 481]	7319	[2882, 6744]
1227	[2259, 2260]	3258	[5100, 2503]	5289	[4258, 4207]	7320	[828, 6653]
1228	[2261, 2262]	3259	[5101, 527]	5290	[6982, 4431]	7321	[546, 6115]
1229	[2263, 2264]	3260	[5102, 5095]	5291	[7060, 4017]	7322	[5602, 3131]
1230	[2265, 2266]	3261	[5103, 5104]	5292	[1761, 4347]	7323	[5234, 5320]
1231	[2181, 2267]	3262	[5105, 5106]	5293	[4255, 4361]	7324	[7922, 5434]
1232	[2268, 2269]	3263	[5107, 676]	5294	[4785, 4677]	7325	[7994, 5996]
1233	[948, 2270]	3264	[5108, 719]	5295	[7061, 7062]	7326	[5294, 5355]
1234	[2271, 2272]	3265	[5109, 5110]	5296	[7063, 1661]	7327	[2568, 1966]
1235	[2273, 2274]	3266	[5111, 5112]	5297	[7064, 4382]	7328	[5598, 6035]

1236	[2275, 627]	3267	[5113, 5114]	5298	[7065, 7066]	7329	[6239, 169]
1237	[2276, 2277]	3268	[5115, 3005]	5299	[4895, 7067]	7330	[7995, 6657]
1238	[2278, 2279]	3269	[5116, 5117]	5300	[3619, 7068]	7331	[5808, 7872]
1239	[2280, 2281]	3270	[5118, 5119]	5301	[4370, 7069]	7332	[3142, 6198]
1240	[745, 2282]	3271	[5120, 2527]	5302	[1113, 7070]	7333	[5190, 6409]
1241	[2283, 2284]	3272	[5121, 5122]	5303	[4807, 4439]	7334	[7996, 6633]
1242	[2285, 2286]	3273	[5117, 2283]	5304	[7071, 6909]	7335	[6155, 971]
1243	[2272, 2287]	3274	[5123, 2884]	5305	[4744, 3849]	7336	[7997, 5946]
1244	[2288, 2289]	3275	[861, 2749]	5306	[4157, 4692]	7337	[1993, 6270]
1245	[2290, 2291]	3276	[5124, 5125]	5307	[7072, 6888]	7338	[6390, 1874]
1246	[2292, 2293]	3277	[5126, 5127]	5308	[7073, 4947]	7339	[6062, 5897]
1247	[2294, 2295]	3278	[5128, 5129]	5309	[7074, 7075]	7340	[7974, 7998]
1248	[2296, 2297]	3279	[928, 664]	5310	[1322, 4818]	7341	[6223, 2039]
1249	[2298, 2299]	3280	[1867, 5130]	5311	[7076, 7077]	7342	[5472, 7999]
1250	[1842, 2300]	3281	[5131, 2403]	5312	[7078, 1316]	7343	[6208, 2399]
1251	[2301, 2302]	3282	[5132, 5133]	5313	[7079, 7080]	7344	[6656, 2352]
1252	[2303, 2304]	3283	[5134, 5135]	5314	[7081, 1573]	7345	[8000, 8001]
1253	[2305, 2306]	3284	[2258, 5136]	5315	[7082, 7083]	7346	[6619, 5876]
1254	[2307, 2308]	3285	[5137, 2540]	5316	[7084, 4856]	7347	[6395, 7980]
1255	[2309, 2310]	3286	[5138, 933]	5317	[7085, 4176]	7348	[3001, 2076]
1256	[1906, 2191]	3287	[5139, 5140]	5318	[3865, 3610]	7349	[6506, 5694]
1257	[2311, 2312]	3288	[556, 5141]	5319	[7086, 3562]	7350	[6058, 8002]
1258	[2313, 2314]	3289	[5142, 5143]	5320	[7087, 7088]	7351	[7940, 7992]
1259	[2315, 2316]	3290	[801, 5144]	5321	[4242, 7089]	7352	[5680, 8003]
1260	[1904, 2317]	3291	[5145, 5146]	5322	[86, 7090]	7353	[2637, 3109]
1261	[2318, 619]	3292	[2435, 5147]	5323	[7091, 4914]	7354	[5189, 5539]
1262	[2319, 2320]	3293	[2018, 5148]	5324	[1808, 427]	7355	[7944, 11]
1263	[2321, 2322]	3294	[5149, 5150]	5325	[3302, 1448]	7356	[5772, 6391]
1264	[2323, 2324]	3295	[2976, 5151]	5326	[4841, 7092]	7357	[8004, 5882]
1265	[2325, 2121]	3296	[5152, 5153]	5327	[7093, 6891]	7358	[8005, 6289]
1266	[2326, 2327]	3297	[228, 5154]	5328	[7094, 7095]	7359	[8006, 5884]
1267	[2328, 2329]	3298	[2610, 5155]	5329	[4513, 4556]	7360	[7871, 7945]
1268	[2330, 2331]	3299	[5156, 5157]	5330	[3848, 7096]	7361	[3078, 3158]
1269	[2332, 2333]	3300	[2767, 5158]	5331	[7097, 7098]	7362	[7988, 668]
1270	[2334, 2335]	3301	[5159, 5160]	5332	[4965, 7099]	7363	[7805, 5038]
1271	[2336, 2337]	3302	[5161, 3038]	5333	[4863, 1783]	7364	[2386, 5634]
1272	[2338, 2339]	3303	[5162, 5163]	5334	[7100, 6951]	7365	[2906, 5828]
1273	[2340, 2341]	3304	[5164, 2552]	5335	[7101, 6766]	7366	[2604, 147]
1274	[1956, 200]	3305	[5165, 5166]	5336	[7070, 7102]	7367	[6054, 2091]
1275	[784, 2342]	3306	[5167, 2912]	5337	[3576, 7103]	7368	[6432, 2273]
1276	[2343, 2344]	3307	[2577, 5168]	5338	[6814, 7104]	7369	[6481, 2888]
1277	[621, 2345]	3308	[5157, 5169]	5339	[7105, 85]	7370	[5939, 2910]
1278	[2346, 2347]	3309	[5170, 5171]	5340	[7106, 4668]	7371	[2889, 5639]
1279	[1824, 2348]	3310	[708, 5172]	5341	[4969, 1403]	7372	[172, 2847]

1280	[2349, 2350]	3311	[2807, 5173]	5342	[7107, 7108]	7373	[2354, 7812]
1281	[2351, 2338]	3312	[5174, 2224]	5343	[1543, 4368]	7374	[6631, 5986]
1282	[2352, 2353]	3313	[5175, 220]	5344	[1052, 7109]	7375	[1981, 6287]
1283	[741, 2354]	3314	[5176, 5177]	5345	[4602, 4812]	7376	[6638, 6701]
1284	[2355, 2356]	3315	[5178, 5107]	5346	[1624, 7110]	7377	[6357, 5603]
1285	[2357, 2358]	3316	[5179, 5108]	5347	[3617, 7111]	7378	[524, 651]
1286	[2359, 2360]	3317	[5180, 2478]	5348	[7112, 1392]	7379	[7999, 8007]
1287	[2361, 2362]	3318	[5181, 5182]	5349	[3648, 7113]	7380	[6170, 7881]
1288	[2363, 2247]	3319	[3008, 2973]	5350	[7047, 3566]	7381	[1846, 901]
1289	[2364, 2365]	3320	[2763, 2184]	5351	[7114, 7115]	7382	[6750, 7833]
1290	[2366, 2367]	3321	[1990, 5183]	5352	[1676, 1503]	7383	[5688, 8008]
1291	[2368, 1951]	3322	[5184, 1821]	5353	[7116, 1181]	7384	[8009, 5332]
1292	[2369, 2370]	3323	[5185, 5186]	5354	[7117, 359]	7385	[8010, 1989]
1293	[2371, 2372]	3324	[1921, 5187]	5355	[7118, 6894]	7386	[5735, 7993]
1294	[2373, 2005]	3325	[5188, 5189]	5356	[7119, 7120]	7387	[8011, 8012]
1295	[2374, 206]	3326	[4989, 5190]	5357	[7121, 4136]	7388	[5007, 8013]
1296	[754, 2375]	3327	[5191, 5192]	5358	[7122, 4650]	7389	[2612, 6108]
1297	[2376, 2377]	3328	[5193, 768]	5359	[4333, 4277]	7390	[8014, 196]
1298	[2378, 2379]	3329	[5194, 5156]	5360	[7123, 1440]	7391	[562, 6193]
1299	[2380, 2381]	3330	[544, 5195]	5361	[7124, 7125]	7392	[2584, 6692]
1300	[2382, 2383]	3331	[5196, 5197]	5362	[4155, 7126]	7393	[2897, 6536]
1301	[2384, 2385]	3332	[2204, 5198]	5363	[7127, 6986]	7394	[5943, 6052]
1302	[1929, 2386]	3333	[5199, 5200]	5364	[4426, 4935]	7395	[4987, 7925]
1303	[2387, 2388]	3334	[5201, 5202]	5365	[4898, 1550]	7396	[7983, 2866]
1304	[2389, 2390]	3335	[5203, 2276]	5366	[3734, 7128]	7397	[2860, 6092]
1305	[2391, 2392]	3336	[2107, 2195]	5367	[7129, 4349]	7398	[5125, 7996]
1306	[2393, 2394]	3337	[534, 5204]	5368	[4464, 7130]	7399	[7990, 6709]
1307	[2395, 2396]	3338	[2794, 5205]	5369	[7131, 7132]	7400	[8015, 6427]
1308	[2397, 2398]	3339	[5206, 5010]	5370	[4743, 7133]	7401	[2836, 1913]
1309	[2399, 2400]	3340	[5207, 5208]	5371	[4739, 3661]	7402	[5698, 6431]
1310	[2401, 2402]	3341	[5209, 555]	5372	[4443, 4178]	7403	[6434, 6406]
1311	[2403, 2404]	3342	[5210, 5211]	5373	[3885, 1012]	7404	[7882, 5092]
1312	[2405, 2406]	3343	[5212, 5213]	5374	[4568, 1431]	7405	[7977, 8016]
1313	[191, 2407]	3344	[5214, 5215]	5375	[4177, 7134]	7406	[7857, 6076]
1314	[252, 2408]	3345	[5216, 2349]	5376	[6817, 7135]	7407	[174, 5563]
1315	[2409, 2410]	3346	[5217, 5218]	5377	[7136, 4399]	7408	[7809, 7843]
1316	[2411, 2412]	3347	[5219, 1841]	5378	[7137, 7138]	7409	[5896, 6754]
1317	[2413, 2414]	3348	[624, 5220]	5379	[7139, 7140]	7410	[6578, 7832]
1318	[2415, 2416]	3349	[5221, 3141]	5380	[1164, 7141]	7411	[8017, 5378]
1319	[2417, 2418]	3350	[5222, 5223]	5381	[4925, 7142]	7412	[5833, 7997]
1320	[2419, 2420]	3351	[5224, 5225]	5382	[7143, 7144]	7413	[6467, 5960]
1321	[2421, 2422]	3352	[5226, 525]	5383	[26, 1143]	7414	[8018, 5834]
1322	[2423, 2424]	3353	[58, 655]	5384	[66, 1384]	7415	[917, 5702]
1323	[2425, 2426]	3354	[5227, 3025]	5385	[3691, 7145]	7416	[2524, 6699]

1324	[2427, 2428]	3355	[5228, 5229]	5386	[7146, 4386]	7417	[7934, 6573]
1325	[2429, 961]	3356	[5230, 5231]	5387	[3295, 1352]	7418	[5148, 6712]
1326	[2430, 2431]	3357	[5232, 774]	5388	[1198, 1487]	7419	[6031, 7958]
1327	[2432, 2433]	3358	[5233, 5234]	5389	[6874, 3992]	7420	[6172, 6630]
1328	[2434, 2435]	3359	[5235, 2599]	5390	[4532, 7147]	7421	[6273, 605]
1329	[1944, 2436]	3360	[5236, 2207]	5391	[4902, 7148]	7422	[2929, 8019]
1330	[2437, 2438]	3361	[5237, 2328]	5392	[7149, 1788]	7423	[7998, 6301]
1331	[2439, 2440]	3362	[2461, 5238]	5393	[7150, 7151]	7424	[5947, 5275]
1332	[2441, 2012]	3363	[5239, 3042]	5394	[7152, 7153]	7425	[7978, 7815]
1333	[2126, 2228]	3364	[5240, 5241]	5395	[7154, 1444]	7426	[8020, 6749]
1334	[2442, 2443]	3365	[5242, 5243]	5396	[7155, 1446]	7427	[6204, 6291]
1335	[2444, 2445]	3366	[2933, 5244]	5397	[7156, 1442]	7428	[7987, 8021]
1336	[2446, 2447]	3367	[5245, 2432]	5398	[978, 4560]	7429	[5522, 6225]
1337	[2448, 2449]	3368	[5246, 5247]	5399	[4635, 7157]	7430	[2011, 7818]
1338	[2450, 2451]	3369	[5248, 5249]	5400	[3794, 7158]	7431	[8022, 237]
1339	[2452, 2453]	3370	[5250, 5251]	5401	[3370, 7159]	7432	[5635, 5663]
1340	[2454, 2455]	3371	[2042, 5252]	5402	[4122, 4563]	7433	[5597, 6535]
1341	[2456, 2457]	3372	[5253, 5105]	5403	[1291, 7160]	7434	[7986, 6344]
1342	[2458, 2459]	3373	[5220, 5254]	5404	[7161, 7162]	7435	[5360, 6554]
1343	[2460, 2461]	3374	[5255, 5256]	5405	[7163, 7164]	7436	[3024, 6581]
1344	[2462, 502]	3375	[36, 5109]	5406	[6795, 7165]	7437	[2908, 5506]
1345	[2, 2463]	3376	[5257, 5111]	5407	[4712, 3535]	7438	[5768, 1954]
1346	[2464, 2465]	3377	[5258, 5259]	5408	[7166, 7167]	7439	[3072, 5906]
1347	[2466, 2467]	3378	[5260, 662]	5409	[7168, 83]	7440	[786, 5236]
1348	[2468, 2469]	3379	[2113, 5261]	5410	[7169, 4601]	7441	[8023, 8024]
1349	[2067, 2470]	3380	[2864, 5262]	5411	[6783, 1001]	7442	[1933, 5006]
1350	[2471, 2472]	3381	[799, 2625]	5412	[4322, 7170]	7443	[5510, 5556]
1351	[2473, 2474]	3382	[5263, 5264]	5413	[326, 3613]	7444	[7955, 517]
1352	[2475, 2476]	3383	[5265, 5266]	5414	[4608, 7171]	7445	[6734, 6538]
1353	[2477, 821]	3384	[5267, 537]	5415	[4138, 7156]	7446	[683, 5477]
1354	[2478, 2479]	3385	[5268, 5094]	5416	[7172, 7173]	7447	[5865, 7834]
1355	[2480, 2481]	3386	[5269, 5270]	5417	[1657, 7174]	7448	[8025, 7995]
1356	[2482, 2483]	3387	[2841, 5271]	5418	[6921, 7121]	7449	[5745, 6404]
1357	[2484, 2485]	3388	[832, 5272]	5419	[7175, 6930]	7450	[6466, 713]
1358	[2486, 2487]	3389	[5273, 563]	5420	[4118, 3777]	7451	[6582, 8026]
1359	[2488, 2489]	3390	[5274, 2081]	5421	[4408, 4622]	7452	[7991, 5511]
1360	[2490, 503]	3391	[5275, 5276]	5422	[7176, 7177]	7453	[6053, 6365]
1361	[2491, 2492]	3392	[824, 5277]	5423	[7178, 440]	7454	[902, 7939]
1362	[2493, 2494]	3393	[5278, 617]	5424	[7179, 7180]	7455	[6216, 8027]
1363	[2495, 2496]	3394	[5279, 5280]	5425	[7181, 472]	7456	[8028, 8029]
1364	[2497, 2498]	3395	[5281, 738]	5426	[4825, 7182]	7457	[5657, 7946]
1365	[2499, 2500]	3396	[3126, 5282]	5427	[1092, 7183]	7458	[8030, 6711]
1366	[2501, 2502]	3397	[5283, 4990]	5428	[7184, 7185]	7459	[3114, 8028]
1367	[2503, 2504]	3398	[5284, 5285]	5429	[6944, 3845]	7460	[7931, 5554]

1368	[2505, 2506]	3399	[5286, 5287]	5430	[7186, 3994]	7461	[7817, 5467]
1369	[2507, 2508]	3400	[1891, 5288]	5431	[7187, 7188]	7462	[7826, 6607]
1370	[2509, 2510]	3401	[5289, 2499]	5432	[7189, 3588]	7463	[6386, 6541]
1371	[2511, 2512]	3402	[5290, 2311]	5433	[3269, 7190]	7464	[2487, 5756]
1372	[2209, 2513]	3403	[5291, 5292]	5434	[4064, 7191]	7465	[5888, 2043]
1373	[2514, 1932]	3404	[5293, 5294]	5435	[7192, 7193]	7466	[3037, 2446]
1374	[1875, 2384]	3405	[5195, 5295]	5436	[7194, 1290]	7467	[8002, 7989]
1375	[1877, 2515]	3406	[5296, 5297]	5437	[1478, 7195]	7468	[7889, 6158]
1376	[2516, 2517]	3407	[5298, 5299]	5438	[1226, 6922]	7469	[8016, 704]
1377	[2048, 2518]	3408	[891, 5300]	5439	[7196, 3548]	7470	[2693, 7851]
1378	[2519, 2520]	3409	[5301, 5302]	5440	[7197, 7155]	7471	[6146, 5679]
1379	[867, 2521]	3410	[2580, 5303]	5441	[7012, 7198]	7472	[2139, 7802]
1380	[2522, 890]	3411	[2618, 5304]	5442	[7095, 7199]	7473	[2827, 2307]
1381	[2523, 2524]	3412	[5305, 2809]	5443	[7200, 7201]	7474	[2686, 8031]
1382	[2525, 2526]	3413	[193, 32]	5444	[3843, 4479]	7475	[1844, 6689]
1383	[2527, 2528]	3414	[5306, 2886]	5445	[7202, 4754]	7476	[2287, 5445]
1384	[1972, 2529]	3415	[3063, 2237]	5446	[7203, 7204]	7477	[5254, 5738]
1385	[2530, 2531]	3416	[3098, 5281]	5447	[4714, 4827]	7478	[5256, 6730]
1386	[1915, 2532]	3417	[3108, 5307]	5448	[350, 7205]	7479	[767, 7964]
1387	[1917, 2533]	3418	[2372, 5103]	5449	[1598, 4092]	7480	[5302, 5335]
1388	[2534, 2535]	3419	[5308, 5309]	5450	[3972, 7206]	7481	[576, 2879]
1389	[2536, 2537]	3420	[604, 2689]	5451	[7207, 7208]	7482	[2201, 1827]
1390	[2538, 711]	3421	[5310, 5037]	5452	[3854, 4103]	7483	[2731, 8032]
1391	[2260, 2539]	3422	[5311, 5312]	5453	[4831, 4099]	7484	[5535, 2200]
1392	[2540, 2541]	3423	[5313, 5265]	5454	[1662, 491]	7485	[7967, 5617]
1393	[2542, 2543]	3424	[5314, 5315]	5455	[7209, 1129]	7486	[6757, 6122]
1394	[2544, 817]	3425	[2815, 2415]	5456	[7210, 7211]	7487	[8033, 210]
1395	[2545, 2546]	3426	[5316, 3040]	5457	[7201, 7212]	7488	[6214, 212]
1396	[2024, 2547]	3427	[2210, 5317]	5458	[7213, 1018]	7489	[5893, 5226]
1397	[2548, 2549]	3428	[5318, 5319]	5459	[3531, 7063]	7490	[8034, 5431]
1398	[894, 2550]	3429	[5320, 5321]	5460	[7214, 7215]	7491	[8035, 6027]
1399	[2206, 2551]	3430	[5322, 2812]	5461	[7216, 7217]	7492	[2286, 8036]
1400	[2552, 2553]	3431	[5323, 5324]	5462	[6777, 7218]	7493	[6415, 6138]
1401	[2554, 2555]	3432	[5325, 2792]	5463	[1037, 99]	7494	[150, 2648]
1402	[2556, 2369]	3433	[5326, 5327]	5464	[7219, 7073]	7495	[1820, 2798]
1403	[2557, 2558]	3434	[5328, 5329]	5465	[3897, 7220]	7496	[1822, 6072]
1404	[2559, 2560]	3435	[5330, 5331]	5466	[1269, 7048]	7497	[2267, 7849]
1405	[2561, 2562]	3436	[5332, 696]	5467	[1522, 4755]	7498	[8037, 5811]
1406	[2563, 2564]	3437	[5333, 5334]	5468	[6826, 6889]	7499	[6423, 2486]
1407	[1885, 2565]	3438	[5335, 5336]	5469	[124, 1114]	7500	[8027, 7866]
1408	[2566, 766]	3439	[5337, 5338]	5470	[7221, 7222]	7501	[6103, 6242]
1409	[2567, 2568]	3440	[677, 5339]	5471	[7223, 7224]	7502	[6105, 827]
1410	[2569, 1868]	3441	[5340, 2971]	5472	[4489, 6943]	7503	[2909, 5235]
1411	[2570, 2571]	3442	[5341, 5342]	5473	[3300, 7225]	7504	[4998, 7870]

1412	[2572, 2442]	3443	[2521, 5343]	5474	[1681, 1279]	7505	[675, 6326]
1413	[2573, 2574]	3444	[2765, 637]	5475	[7041, 4542]	7506	[5073, 5174]
1414	[2575, 2576]	3445	[803, 2578]	5476	[7226, 7227]	7507	[5075, 6736]
1415	[1935, 2577]	3446	[5344, 549]	5477	[1317, 4093]	7508	[2592, 6563]
1416	[2578, 947]	3447	[5345, 511]	5478	[268, 257]	7509	[6362, 7952]
1417	[2579, 2580]	3448	[5346, 5347]	5479	[4497, 6993]	7510	[5264, 5569]
1418	[2581, 2480]	3449	[5133, 5348]	5480	[7222, 4930]	7511	[5041, 2429]
1419	[679, 2582]	3450	[5349, 5350]	5481	[4373, 7228]	7512	[2535, 6294]
1420	[2583, 2584]	3451	[2151, 5351]	5482	[7067, 3412]	7513	[5173, 4978]
1421	[2585, 2586]	3452	[5352, 780]	5483	[7229, 7181]	7514	[6093, 6514]
1422	[2587, 2588]	3453	[2850, 184]	5484	[418, 1607]	7515	[6671, 2544]
1423	[2481, 2589]	3454	[5353, 609]	5485	[4078, 7230]	7516	[8021, 6167]
1424	[2590, 2591]	3455	[5354, 5232]	5486	[4803, 7231]	7517	[2639, 8038]
1425	[2164, 2592]	3456	[5355, 5356]	5487	[7232, 7233]	7518	[3111, 3135]
1426	[2593, 2594]	3457	[5357, 5358]	5488	[7234, 7235]	7519	[750, 2197]
1427	[920, 2595]	3458	[5359, 2945]	5489	[4001, 7236]	7520	[7814, 5681]
1428	[2596, 1876]	3459	[213, 796]	5490	[3899, 7237]	7521	[5238, 3000]
1429	[2597, 2598]	3460	[5150, 5360]	5491	[3614, 6788]	7522	[5097, 3163]
1430	[2599, 135]	3461	[144, 5361]	5492	[6802, 7238]	7523	[6668, 7928]
1431	[2600, 2601]	3462	[5362, 5296]	5493	[7239, 263]	7524	[5078, 658]
1432	[2602, 2491]	3463	[5363, 2140]	5494	[7205, 1667]	7525	[7963, 863]
1433	[2603, 2604]	3464	[5364, 5365]	5495	[7240, 4117]	7526	[8039, 6033]
1434	[2605, 2606]	3465	[5366, 5367]	5496	[7241, 7242]	7527	[2737, 5667]
1435	[2607, 2608]	3466	[2470, 5368]	5497	[7243, 4485]	7528	[7816, 7886]
1436	[2609, 2610]	3467	[5369, 5370]	5498	[7244, 3918]	7529	[8040, 2892]
1437	[2611, 2612]	3468	[5144, 5371]	5499	[7245, 6970]	7530	[3086, 8041]
1438	[2613, 2614]	3469	[5317, 5372]	5500	[3351, 7246]	7531	[7836, 2325]
1439	[2615, 2616]	3470	[3048, 5373]	5501	[7247, 7079]	7532	[6637, 7937]
1440	[2617, 2618]	3471	[580, 5374]	5502	[7248, 7249]	7533	[2013, 6237]
1441	[2619, 2620]	3472	[2699, 2135]	5503	[7157, 7250]	7534	[6497, 5330]
1442	[2621, 2622]	3473	[5375, 5376]	5504	[1580, 4924]	7535	[2308, 8014]
1443	[2623, 2624]	3474	[5377, 2691]	5505	[7251, 4752]	7536	[7981, 2047]
1444	[2625, 2626]	3475	[2658, 2698]	5506	[7252, 7253]	7537	[5975, 245]
1445	[2627, 2628]	3476	[5378, 5170]	5507	[4715, 7254]	7538	[6410, 829]
1446	[2629, 2630]	3477	[48, 5379]	5508	[7068, 6880]	7539	[6715, 7969]
1447	[2631, 2621]	3478	[5380, 3107]	5509	[1336, 7255]	7540	[5852, 5016]
1448	[2632, 2633]	3479	[5381, 5382]	5510	[7256, 7257]	7541	[6004, 8018]
1449	[2634, 2635]	3480	[3054, 5383]	5511	[1313, 1173]	7542	[5172, 5076]
1450	[2636, 2637]	3481	[5384, 186]	5512	[7249, 3483]	7543	[6077, 740]
1451	[2638, 2639]	3482	[5385, 5386]	5513	[3608, 3812]	7544	[5794, 2507]
1452	[952, 2640]	3483	[5387, 5388]	5514	[7258, 4764]	7545	[8019, 2380]
1453	[2086, 2641]	3484	[5389, 5390]	5515	[3965, 7259]	7546	[5112, 2482]
1454	[2356, 2642]	3485	[5391, 5392]	5516	[82, 3504]	7547	[5797, 6522]
1455	[2643, 2644]	3486	[5393, 5394]	5517	[4638, 6997]	7548	[7936, 7864]

1456	[2645, 2646]	3487	[2347, 854]	5518	[7260, 1722]	7549	[8032, 5622]
1457	[2647, 2585]	3488	[5395, 5396]	5519	[4332, 7261]	7550	[5300, 868]
1458	[2648, 2649]	3489	[5397, 2256]	5520	[4348, 6853]	7551	[6478, 6042]
1459	[2650, 2651]	3490	[5398, 5399]	5521	[3492, 1063]	7552	[2513, 5165]
1460	[60, 2049]	3491	[5129, 5400]	5522	[7262, 1003]	7553	[2223, 6021]
1461	[2652, 2653]	3492	[2436, 5401]	5523	[1801, 6867]	7554	[5693, 5048]
1462	[2654, 2202]	3493	[2433, 5402]	5524	[3663, 3306]	7555	[737, 2968]
1463	[2655, 2656]	3494	[2105, 5403]	5525	[7263, 3879]	7556	[6518, 8015]
1464	[2657, 2658]	3495	[701, 5404]	5526	[416, 4490]	7557	[6165, 5405]
1465	[2659, 2660]	3496	[5405, 2464]	5527	[6890, 4204]	7558	[814, 825]
1466	[2661, 2662]	3497	[2028, 5406]	5528	[3776, 4844]	7559	[6124, 5716]
1467	[2526, 2208]	3498	[5059, 2665]	5529	[4179, 4460]	7560	[7869, 2095]
1468	[2663, 2664]	3499	[5407, 5408]	5530	[7264, 4907]	7561	[6276, 2244]
1469	[2665, 2666]	3500	[2175, 3011]	5531	[7083, 3533]	7562	[8003, 7975]
1470	[2667, 2668]	3501	[2808, 2448]	5532	[3977, 3795]	7563	[2414, 2967]
1471	[2669, 2670]	3502	[5409, 5410]	5533	[7182, 3207]	7564	[6311, 5513]
1472	[2671, 2672]	3503	[5411, 5412]	5534	[7120, 375]	7565	[138, 785]
1473	[2673, 2674]	3504	[164, 5413]	5535	[7265, 3640]	7566	[5453, 2417]
1474	[2675, 2676]	3505	[166, 3110]	5536	[3860, 7266]	7567	[6342, 5340]
1475	[2677, 2678]	3506	[3068, 2863]	5537	[3392, 7267]	7568	[5027, 6330]
1476	[2679, 2680]	3507	[5414, 5415]	5538	[7268, 7100]	7569	[8038, 6099]
1477	[2681, 2682]	3508	[5416, 5417]	5539	[6977, 7200]	7570	[2547, 6540]
1478	[2683, 2684]	3509	[5400, 5418]	5540	[7025, 7269]	7571	[7914, 2741]
1479	[689, 2685]	3510	[5419, 5139]	5541	[1236, 1630]	7572	[3061, 5727]
1480	[2192, 2686]	3511	[2170, 5420]	5542	[1239, 7136]	7573	[7828, 5014]
1481	[2687, 2688]	3512	[5421, 2830]	5543	[4326, 4051]	7574	[2221, 8042]
1482	[2689, 2690]	3513	[758, 5422]	5544	[7270, 1658]	7575	[6262, 5533]
1483	[1998, 852]	3514	[1953, 871]	5545	[7018, 1712]	7576	[2071, 6521]
1484	[2691, 547]	3515	[5423, 815]	5546	[7271, 7272]	7577	[6449, 5377]
1485	[2692, 2693]	3516	[2987, 5424]	5547	[7257, 1042]	7578	[7962, 7941]
1486	[2694, 2695]	3517	[5425, 923]	5548	[7273, 4290]	7579	[632, 8037]
1487	[2696, 2697]	3518	[3152, 5426]	5549	[7274, 4512]	7580	[2118, 8030]
1488	[2651, 629]	3519	[2984, 3087]	5550	[7275, 7276]	7581	[5734, 5457]
1489	[2698, 2699]	3520	[5427, 5428]	5551	[1473, 448]	7582	[158, 2097]
1490	[795, 2700]	3521	[5429, 5430]	5552	[3291, 7277]	7583	[1851, 6295]
1491	[2701, 2702]	3522	[5431, 5432]	5553	[7278, 464]	7584	[2642, 3113]
1492	[2703, 2704]	3523	[834, 5433]	5554	[1043, 4591]	7585	[7984, 6591]
1493	[2705, 2706]	3524	[5434, 5435]	5555	[4846, 7279]	7586	[940, 5849]
1494	[2707, 1825]	3525	[5436, 5437]	5556	[7188, 7280]	7587	[7821, 6028]
1495	[2708, 2709]	3526	[5438, 5439]	5557	[1128, 444]	7588	[5252, 6426]
1496	[2710, 2711]	3527	[5440, 5395]	5558	[120, 3856]	7589	[8031, 7903]
1497	[777, 2712]	3528	[5441, 5442]	5559	[7281, 4268]	7590	[8043, 6561]
1498	[779, 2713]	3529	[2438, 5443]	5560	[7282, 4615]	7591	[7827, 6512]
1499	[2714, 2715]	3530	[5312, 5444]	5561	[3816, 7283]	7592	[8044, 2988]

1500	[2716, 2717]	3531	[5445, 2947]	5562	[7284, 7285]	7593	[8045, 5543]
1501	[2718, 2719]	3532	[2299, 2861]	5563	[1735, 1230]	7594	[6696, 866]
1502	[2451, 2720]	3533	[5446, 907]	5564	[3922, 399]	7595	[6364, 5393]
1503	[2721, 764]	3534	[5447, 2681]	5565	[3993, 6844]	7596	[8036, 167]
1504	[2722, 1845]	3535	[5367, 5448]	5566	[7286, 7161]	7597	[5383, 589]
1505	[2723, 2413]	3536	[2781, 5449]	5567	[7287, 7288]	7598	[6565, 2769]
1506	[2700, 2724]	3537	[1828, 5450]	5568	[7289, 4260]	7599	[5000, 2014]
1507	[142, 2725]	3538	[5154, 5451]	5569	[7045, 7290]	7600	[8046, 2409]
1508	[538, 2475]	3539	[2381, 5152]	5570	[4926, 7291]	7601	[2128, 5138]
1509	[2726, 2727]	3540	[5452, 2419]	5571	[7292, 7293]	7602	[8047, 8044]
1510	[2728, 2174]	3541	[3022, 5453]	5572	[6821, 7294]	7603	[6319, 5181]
1511	[2729, 2730]	3542	[872, 4986]	5573	[6781, 7039]	7604	[826, 2825]
1512	[2137, 2731]	3543	[5454, 5455]	5574	[6865, 1538]	7605	[2802, 2828]
1513	[2732, 2733]	3544	[5456, 5414]	5575	[6873, 7295]	7606	[6178, 2795]
1514	[2653, 2590]	3545	[5457, 5458]	5576	[7296, 4305]	7607	[956, 7891]
1515	[2030, 2734]	3546	[5459, 5362]	5577	[3947, 3205]	7608	[6335, 7956]
1516	[2735, 2736]	3547	[3140, 2357]	5578	[1124, 3829]	7609	[2094, 1961]
1517	[752, 2737]	3548	[5460, 5308]	5579	[7266, 7297]	7610	[6583, 1870]
1518	[2565, 2738]	3549	[5461, 5462]	5580	[3274, 7298]	7611	[6012, 8034]
1519	[2212, 2150]	3550	[5463, 5464]	5581	[4625, 4716]	7612	[6137, 5534]
1520	[2739, 2740]	3551	[5465, 2774]	5582	[3819, 1466]	7613	[2402, 7910]
1521	[2741, 2742]	3552	[5466, 4995]	5583	[7104, 6786]	7614	[2232, 7979]
1522	[2743, 2117]	3553	[5467, 5468]	5584	[7299, 3981]	7615	[6288, 5364]
1523	[2239, 2744]	3554	[812, 5469]	5585	[7300, 4861]	7616	[6403, 5868]
1524	[2745, 2746]	3555	[5470, 2477]	5586	[7301, 4319]	7617	[2543, 6184]
1525	[2747, 2748]	3556	[5471, 5472]	5587	[1596, 7302]	7618	[8042, 2215]
1526	[2749, 1991]	3557	[5473, 5474]	5588	[7303, 7213]	7619	[5015, 2643]
1527	[822, 2750]	3558	[5475, 5476]	5589	[4730, 4008]	7620	[3091, 2617]
1528	[2751, 778]	3559	[5477, 5113]	5590	[3514, 7304]	7621	[2546, 8040]
1529	[2752, 2087]	3560	[2392, 5478]	5591	[3415, 4687]	7622	[6602, 5689]
1530	[2753, 726]	3561	[5479, 2819]	5592	[3678, 7305]	7623	[5146, 6241]
1531	[2754, 2755]	3562	[5480, 1937]	5593	[467, 7306]	7624	[6063, 5665]
1532	[2756, 2663]	3563	[5481, 5482]	5594	[7307, 1554]	7625	[8013, 717]
1533	[2757, 2758]	3564	[1965, 5483]	5595	[7308, 4780]	7626	[2533, 5669]
1534	[2370, 2759]	3565	[5484, 2066]	5596	[1716, 7309]	7627	[2859, 7850]
1535	[2760, 2761]	3566	[2806, 5269]	5597	[4363, 3941]	7628	[7855, 6483]
1536	[2762, 2763]	3567	[5485, 5486]	5598	[426, 7310]	7629	[5595, 5618]
1537	[2764, 2765]	3568	[5487, 5488]	5599	[4879, 1790]	7630	[5790, 2230]
1538	[2766, 2767]	3569	[5489, 5490]	5600	[1158, 3194]	7631	[8048, 8004]
1539	[2768, 2040]	3570	[2620, 5491]	5601	[6854, 7311]	7632	[6034, 2916]
1540	[2769, 2770]	3571	[52, 2216]	5602	[6991, 4042]	7633	[2982, 6584]
1541	[2771, 2772]	3572	[5492, 3044]	5603	[7312, 4679]	7634	[2304, 5564]
1542	[729, 2773]	3573	[5493, 131]	5604	[1293, 7313]	7635	[2662, 2021]
1543	[2774, 2775]	3574	[5494, 2563]	5605	[4548, 3870]	7636	[7862, 789]

1544	[2776, 2777]	3575	[5495, 5496]	5606	[3726, 7292]	7637	[5817, 2055]
1545	[2778, 2779]	3576	[5497, 5219]	5607	[7314, 7169]	7638	[7898, 3060]
1546	[2697, 2708]	3577	[5498, 5499]	5608	[7315, 7247]	7639	[657, 5652]
1547	[2780, 2781]	3578	[5500, 535]	5609	[7316, 7251]	7640	[7842, 744]
1548	[2782, 2783]	3579	[2993, 5123]	5610	[6933, 1563]	7641	[6480, 8049]
1549	[2784, 2785]	3580	[5501, 5502]	5611	[7317, 3551]	7642	[5904, 8043]
1550	[2786, 2787]	3581	[5503, 5409]	5612	[7318, 4364]	7643	[972, 8000]
1551	[2788, 2789]	3582	[5504, 5505]	5613	[7309, 4705]	7644	[7835, 8035]
1552	[2790, 2791]	3583	[2104, 5346]	5614	[4269, 7319]	7645	[6226, 5079]
1553	[2792, 2793]	3584	[5506, 5507]	5615	[7058, 3254]	7646	[2289, 5489]
1554	[586, 2794]	3585	[5508, 5263]	5616	[6828, 7320]	7647	[140, 6605]
1555	[2186, 2597]	3586	[5509, 5510]	5617	[3945, 7321]	7648	[5542, 3154]
1556	[2795, 2796]	3587	[874, 155]	5618	[3195, 3339]	7649	[2887, 809]
1557	[2797, 143]	3588	[2479, 5325]	5619	[7322, 3340]	7650	[5747, 811]
1558	[2798, 845]	3589	[5511, 2735]	5620	[6871, 4968]	7651	[8050, 808]
1559	[2799, 2800]	3590	[5251, 5512]	5621	[994, 1372]	7652	[5401, 2220]
1560	[2801, 2802]	3591	[5513, 5514]	5622	[4951, 7323]	7653	[5737, 7970]
1561	[2803, 2804]	3592	[5515, 5516]	5623	[7324, 4726]	7654	[6373, 2027]
1562	[2805, 2806]	3593	[5517, 5250]	5624	[7325, 4688]	7655	[5937, 5836]
1563	[154, 2807]	3594	[5518, 5519]	5625	[1771, 1774]	7656	[6713, 6717]
1564	[209, 2808]	3595	[5025, 2754]	5626	[3869, 4972]	7657	[859, 6720]
1565	[2809, 2810]	3596	[146, 5520]	5627	[7305, 7189]	7658	[2238, 2619]
1566	[2811, 2336]	3597	[5521, 5522]	5628	[7326, 3868]	7659	[6616, 8046]
1567	[2812, 2813]	3598	[5523, 567]	5629	[7327, 4413]	7660	[2844, 6023]
1568	[2814, 2815]	3599	[5524, 3101]	5630	[6804, 1523]	7661	[554, 3067]
1569	[2816, 2817]	3600	[2518, 5525]	5631	[4183, 1347]	7662	[2088, 5984]
1570	[2818, 1909]	3601	[5526, 2001]	5632	[4954, 4781]	7663	[8051, 4993]
1571	[2819, 2820]	3602	[5527, 2497]	5633	[7328, 3719]	7664	[7932, 5454]
1572	[926, 1969]	3603	[5528, 5529]	5634	[1192, 1169]	7665	[5696, 8039]
1573	[2821, 2645]	3604	[5530, 5503]	5635	[7329, 3825]	7666	[5093, 559]
1574	[2822, 694]	3605	[2893, 5035]	5636	[7330, 7331]	7667	[5676, 5607]
1575	[2823, 2824]	3606	[869, 5531]	5637	[6964, 7315]	7668	[8026, 5866]
1576	[2825, 177]	3607	[5532, 2213]	5638	[6793, 1078]	7669	[876, 7853]
1577	[2826, 2827]	3608	[5533, 3031]	5639	[7280, 7332]	7670	[5743, 730]
1578	[2828, 2829]	3609	[5534, 5535]	5640	[7333, 1521]	7671	[5891, 5239]
1579	[2830, 2831]	3610	[2539, 5536]	5641	[7334, 4759]	7672	[7900, 6672]
1580	[2832, 2833]	3611	[5537, 5538]	5642	[7335, 7336]	7673	[5476, 7876]
1581	[2724, 1843]	3612	[5539, 5540]	5643	[3396, 7337]	7674	[5837, 7921]
1582	[2834, 2835]	3613	[640, 5541]	5644	[4250, 6940]	7675	[5660, 8051]
1583	[2684, 2836]	3614	[642, 5542]	5645	[7338, 7262]	7676	[6043, 8009]
1584	[2837, 2838]	3615	[5543, 5544]	5646	[4072, 7339]	7677	[2266, 2803]
1585	[548, 59]	3616	[699, 5545]	5647	[4292, 7060]	7678	[1985, 6145]
1586	[2839, 2840]	3617	[10, 5546]	5648	[1604, 7034]	7679	[6397, 5827]
1587	[892, 2841]	3618	[5547, 2757]	5649	[7340, 4576]	7680	[1977, 6066]

1588	[2624, 2842]	3619	[5548, 5549]	5650	[4219, 7341]	7681	[6495, 6714]
1589	[2843, 2844]	3620	[5550, 5551]	5651	[7342, 3360]	7682	[5973, 6215]
1590	[2845, 2846]	3621	[5552, 5553]	5652	[437, 4487]	7683	[8029, 2315]
1591	[2847, 2848]	3622	[5554, 5555]	5653	[72, 7343]	7684	[5649, 7854]
1592	[2849, 2850]	3623	[5556, 5557]	5654	[7238, 7344]	7685	[6071, 6523]
1593	[2851, 2768]	3624	[5408, 5558]	5655	[7345, 7346]	7686	[5863, 6130]
1594	[2852, 2853]	3625	[5559, 5560]	5656	[3476, 1489]	7687	[2877, 5820]
1595	[2553, 2854]	3626	[2234, 5561]	5657	[292, 7347]	7688	[7859, 5102]
1596	[2855, 2856]	3627	[3118, 5178]	5658	[4212, 7078]	7689	[5058, 8023]
1597	[2857, 1941]	3628	[2485, 5562]	5659	[1166, 7348]	7690	[6604, 682]
1598	[2858, 2859]	3629	[5563, 243]	5660	[4561, 7349]	7691	[2502, 2250]
1599	[2496, 2511]	3630	[5564, 5126]	5661	[7191, 7350]	7692	[5127, 2801]
1600	[2817, 2860]	3631	[5565, 5566]	5662	[7193, 4938]	7693	[7883, 7982]
1601	[2861, 2862]	3632	[1931, 2632]	5663	[4203, 7351]	7694	[1898, 6642]
1602	[2863, 2864]	3633	[5567, 5568]	5664	[4897, 1135]	7695	[8052, 6474]
1603	[2109, 2865]	3634	[5569, 5570]	5665	[1683, 1460]	7696	[5140, 5206]
1604	[44, 1850]	3635	[5571, 5572]	5666	[7352, 3907]	7697	[2562, 1973]
1605	[2866, 2867]	3636	[5573, 5574]	5667	[1451, 7353]	7698	[7801, 7968]
1606	[1866, 2868]	3637	[5053, 5575]	5668	[4509, 4304]	7699	[5899, 6296]
1607	[2869, 2870]	3638	[2302, 5576]	5669	[3326, 7354]	7700	[1849, 3013]
1608	[2838, 2871]	3639	[5577, 5578]	5670	[4360, 259]	7701	[930, 5859]
1609	[2872, 2873]	3640	[5579, 5580]	5671	[7355, 6901]	7702	[8053, 8010]
1610	[2874, 2875]	3641	[5581, 5021]	5672	[7356, 6992]	7703	[8024, 192]
1611	[2876, 2877]	3642	[5582, 5583]	5673	[7357, 4174]	7704	[6183, 5121]
1612	[2878, 2437]	3643	[2092, 5237]	5674	[3202, 7358]	7705	[7840, 8054]
1613	[2879, 2880]	3644	[5584, 5585]	5675	[4700, 7314]	7706	[5700, 2638]
1614	[2881, 2882]	3645	[2440, 5586]	5676	[3771, 3863]	7707	[2449, 2108]
1615	[775, 893]	3646	[5587, 5588]	5677	[3297, 1275]	7708	[6322, 5475]
1616	[2883, 895]	3647	[5589, 5497]	5678	[7359, 7210]	7709	[1832, 7838]
1617	[2884, 802]	3648	[5590, 5591]	5679	[7360, 1591]	7710	[2410, 577]
1618	[1881, 2885]	3649	[2833, 5581]	5680	[3705, 7361]	7711	[950, 8033]
1619	[2886, 2887]	3650	[5182, 241]	5681	[312, 4940]	7712	[5930, 5086]
1620	[2888, 2889]	3651	[5592, 5593]	5682	[7362, 380]	7713	[6661, 819]
1621	[2890, 2891]	3652	[232, 724]	5683	[3625, 4366]	7714	[8055, 1857]
1622	[2892, 2893]	3653	[5555, 2254]	5684	[6785, 7363]	7715	[5812, 8005]
1623	[2571, 2894]	3654	[944, 5527]	5685	[7364, 7365]	7716	[2911, 541]
1624	[2895, 2554]	3655	[5594, 5595]	5686	[4851, 7366]	7717	[6599, 6558]
1625	[2896, 2897]	3656	[5596, 5597]	5687	[7367, 3276]	7718	[1979, 8056]
1626	[2282, 2898]	3657	[215, 5598]	5688	[4190, 6941]	7719	[8007, 3030]
1627	[2899, 2900]	3658	[807, 5599]	5689	[7365, 1417]	7720	[6098, 519]
1628	[2901, 1853]	3659	[5600, 2901]	5690	[7279, 7368]	7721	[6157, 6500]
1629	[2902, 2903]	3660	[5601, 5602]	5691	[7369, 7370]	7722	[6135, 6684]
1630	[2274, 2904]	3661	[5270, 5349]	5692	[6809, 7371]	7723	[5979, 1837]
1631	[2905, 2906]	3662	[5603, 5604]	5693	[4062, 7372]	7724	[5813, 6011]

1632	[2907, 2908]	3663	[5605, 937]	5694	[7373, 7374]	7725	[2709, 2161]
1633	[2469, 2909]	3664	[5606, 2235]	5695	[6896, 4352]	7726	[6143, 6380]
1634	[2910, 2911]	3665	[5607, 5608]	5696	[7288, 7375]	7727	[2848, 2376]
1635	[2912, 2913]	3666	[3092, 5609]	5697	[3606, 4227]	7728	[2154, 5040]
1636	[2914, 2915]	3667	[934, 5167]	5698	[6976, 4741]	7729	[6428, 6113]
1637	[2916, 2605]	3668	[5610, 5611]	5699	[4211, 7376]	7730	[5712, 7884]
1638	[2917, 2587]	3669	[5612, 5613]	5700	[3239, 4395]	7731	[5299, 7825]
1639	[2733, 1943]	3670	[5614, 5615]	5701	[4379, 7377]	7732	[6552, 5124]
1640	[2918, 2919]	3671	[5616, 5260]	5702	[7378, 331]	7733	[6620, 6303]
1641	[2748, 2920]	3672	[5617, 5498]	5703	[3644, 7379]	7734	[638, 6046]
1642	[2921, 2922]	3673	[3166, 753]	5704	[7380, 1040]	7735	[6688, 5328]
1643	[2923, 2319]	3674	[5618, 5619]	5705	[7381, 7278]	7736	[6255, 5120]
1644	[2924, 2925]	3675	[5620, 5621]	5706	[294, 6949]	7737	[8012, 202]
1645	[2926, 625]	3676	[5622, 3148]	5707	[4849, 4869]	7738	[2555, 6707]
1646	[2685, 2017]	3677	[2664, 5623]	5708	[4104, 4320]	7739	[187, 2265]
1647	[32, 2927]	3678	[2129, 5624]	5709	[4747, 3465]	7740	[3066, 2869]
1648	[2928, 2929]	3679	[5625, 5626]	5710	[7343, 7382]	7741	[5183, 5955]
1649	[2930, 2931]	3680	[5627, 2132]	5711	[4449, 1477]	7742	[7822, 6359]
1650	[2932, 2933]	3681	[2885, 5628]	5712	[3406, 7383]	7743	[6452, 6660]
1651	[2532, 2332]	3682	[5629, 5427]	5713	[1241, 6959]	7744	[5272, 2890]
1652	[2934, 1964]	3683	[5630, 2089]	5714	[7384, 7385]	7745	[5804, 8022]
1653	[2935, 2936]	3684	[5631, 5632]	5715	[6906, 7386]	7746	[7935, 6675]
1654	[2937, 2938]	3685	[3159, 5633]	5716	[4558, 7097]	7747	[7863, 5461]
1655	[2474, 2667]	3686	[5634, 5635]	5717	[7387, 3761]	7748	[2241, 6161]
1656	[2939, 2940]	3687	[5350, 5636]	5718	[7388, 7389]	7749	[3026, 715]
1657	[2941, 2942]	3688	[5621, 5637]	5719	[4032, 1680]	7750	[508, 2346]
1658	[762, 615]	3689	[5638, 5209]	5720	[1765, 6953]	7751	[6329, 6570]
1659	[2943, 2944]	3690	[5639, 5640]	5721	[7390, 7391]	7752	[2787, 2743]
1660	[2945, 2946]	3691	[5641, 5642]	5722	[4564, 4927]	7753	[5307, 7868]
1661	[2947, 2948]	3692	[5643, 2930]	5723	[7099, 7392]	7754	[5686, 2799]
1662	[2044, 2301]	3693	[5644, 5645]	5724	[7393, 7394]	7755	[2796, 1886]
1663	[2185, 2949]	3694	[5646, 5647]	5725	[7395, 4878]	7756	[5368, 5742]
1664	[2950, 2951]	3695	[2938, 5305]	5726	[7276, 7396]	7757	[5624, 2593]
1665	[2952, 645]	3696	[5648, 5649]	5727	[110, 7082]	7758	[7902, 8052]
1666	[2953, 2954]	3697	[2510, 5650]	5728	[4874, 4210]	7759	[6095, 2114]
1667	[687, 2955]	3698	[2668, 5651]	5729	[3330, 1511]	7760	[6752, 2992]
1668	[2956, 2957]	3699	[5652, 5653]	5730	[4721, 6935]	7761	[2329, 5517]
1669	[2958, 2872]	3700	[2614, 2956]	5731	[4725, 7397]	7762	[6647, 157]
1670	[2959, 2874]	3701	[5654, 5655]	5732	[7398, 315]	7763	[773, 8050]
1671	[2960, 2961]	3702	[5656, 5492]	5733	[4727, 7264]	7764	[695, 6613]
1672	[2962, 2963]	3703	[5202, 5657]	5734	[7399, 3755]	7765	[2353, 5718]
1673	[2964, 2965]	3704	[5147, 2466]	5735	[7400, 7401]	7766	[2453, 6603]
1674	[2966, 2488]	3705	[5077, 5658]	5736	[7227, 7402]	7767	[7915, 2514]
1675	[2967, 2525]	3706	[5659, 5660]	5737	[4300, 4052]	7768	[6418, 6544]

1676	[2968, 2722]	3707	[5661, 5662]	5738	[7005, 69]	7769	[6679, 8053]
1677	[2969, 2970]	3708	[5663, 5664]	5739	[122, 3311]	7770	[8041, 7874]
1678	[2971, 2972]	3709	[5665, 5666]	5740	[7391, 1112]	7771	[5404, 8011]
1679	[2973, 2974]	3710	[5667, 5668]	5741	[4400, 3752]	7772	[7927, 7976]
1680	[2975, 2169]	3711	[5669, 5670]	5742	[4865, 1407]	7773	[630, 6367]
1681	[2674, 2976]	3712	[5671, 5672]	5743	[7130, 7403]	7774	[1919, 7794]
1682	[2977, 2978]	3713	[600, 5673]	5744	[7404, 7087]	7775	[6110, 2318]
1683	[2979, 2652]	3714	[5674, 5419]	5745	[7253, 7405]	7776	[5339, 41]
1684	[2980, 2981]	3715	[5675, 5676]	5746	[7406, 7380]	7777	[5343, 6464]
1685	[2120, 2843]	3716	[2219, 231]	5747	[4815, 1551]	7778	[5243, 2811]
1686	[1869, 2982]	3717	[2730, 128]	5748	[7407, 7168]	7779	[6700, 8045]
1687	[2983, 2583]	3718	[5658, 5311]	5749	[7408, 3564]	7780	[5714, 5459]
1688	[1840, 2984]	3719	[2719, 5677]	5750	[7409, 3393]	7781	[5982, 8006]
1689	[2985, 2986]	3720	[5678, 2926]	5751	[4100, 4773]	7782	[628, 6246]
1690	[1852, 2987]	3721	[722, 935]	5752	[1013, 4724]	7783	[5382, 8020]
1691	[2988, 2989]	3722	[5029, 5594]	5753	[7410, 3506]	7784	[8001, 5273]
1692	[2702, 2059]	3723	[5679, 5680]	5754	[7411, 3888]	7785	[7966, 6655]
1693	[2990, 2991]	3724	[5681, 3112]	5755	[7412, 7335]	7786	[616, 5675]
1694	[2992, 2993]	3725	[5682, 5683]	5756	[7413, 4067]	7787	[5200, 5298]
1695	[2994, 2995]	3726	[5684, 179]	5757	[4466, 7414]	7788	[6615, 8017]
1696	[2472, 2996]	3727	[5685, 5686]	5758	[3439, 125]	7789	[5633, 8025]
1697	[2940, 2997]	3728	[5687, 5688]	5759	[1445, 7415]	7790	[706, 8048]
1698	[2998, 2999]	3729	[2520, 251]	5760	[7416, 7300]	7791	[2314, 6543]
1699	[3000, 3001]	3730	[5689, 772]	5761	[6792, 3723]	7792	[5244, 839]
1700	[714, 3002]	3731	[5690, 5691]	5762	[6879, 7417]	7793	[8057, 7368]
1701	[3003, 2788]	3732	[5692, 5693]	5763	[7418, 1513]	7794	[4760, 4110]
1702	[3004, 2505]	3733	[5694, 3103]	5764	[1660, 4215]	7795	[7173, 7688]
1703	[3005, 2165]	3734	[5695, 2710]	5765	[7419, 7420]	7796	[4228, 7788]
1704	[3006, 3007]	3735	[2875, 5696]	5766	[7421, 7422]	7797	[7206, 4626]
1705	[2379, 3008]	3736	[735, 2932]	5767	[4350, 7423]	7798	[4929, 7240]
1706	[560, 3009]	3737	[2236, 235]	5768	[7424, 3390]	7799	[3285, 7792]
1707	[3010, 1892]	3738	[5697, 5698]	5769	[7405, 7425]	7800	[7705, 8058]
1708	[3011, 3012]	3739	[5699, 5700]	5770	[7426, 6895]	7801	[4908, 7761]
1709	[3013, 3014]	3740	[2628, 5701]	5771	[4196, 7427]	7802	[7293, 7640]
1710	[3015, 3016]	3741	[5702, 165]	5772	[1566, 7428]	7803	[3607, 7641]
1711	[2069, 2728]	3742	[5703, 5704]	5773	[486, 4158]	7804	[7659, 6911]
1712	[3017, 3018]	3743	[5705, 5552]	5774	[3182, 3325]	7805	[1006, 7395]
1713	[3019, 3020]	3744	[5706, 1968]	5775	[1610, 4194]	7806	[3547, 8059]
1714	[3021, 3022]	3745	[5707, 5708]	5776	[1633, 7429]	7807	[3443, 7745]
1715	[3023, 3024]	3746	[2156, 5709]	5777	[7430, 3569]	7808	[7383, 8060]
1716	[3025, 3026]	3747	[5710, 218]	5778	[1715, 3541]	7809	[7771, 3914]
1717	[665, 3027]	3748	[5711, 5193]	5779	[1056, 4771]	7810	[7765, 8061]
1718	[2396, 2692]	3749	[5478, 2896]	5780	[4546, 7186]	7811	[7102, 8062]
1719	[3028, 3029]	3750	[610, 2845]	5781	[7431, 7000]	7812	[7180, 6969]

1720	[3030, 2226]	3751	[2870, 5712]	5782	[7261, 7044]	7813	[7138, 4811]
1721	[3031, 2714]	3752	[5713, 5714]	5783	[1083, 4156]	7814	[310, 3750]
1722	[2666, 3032]	3753	[2630, 692]	5784	[4623, 1250]	7815	[7784, 7651]
1723	[3033, 3034]	3754	[5715, 2053]	5785	[7432, 1306]	7816	[8063, 6829]
1724	[2324, 3035]	3755	[5716, 5717]	5786	[7433, 4853]	7817	[7267, 7008]
1725	[3036, 3037]	3756	[5718, 5487]	5787	[4718, 7434]	7818	[4946, 4958]
1726	[3038, 3039]	3757	[5719, 1980]	5788	[7096, 6811]	7819	[4074, 6799]
1727	[3040, 3041]	3758	[5720, 5721]	5789	[4019, 7435]	7820	[7528, 7137]
1728	[3042, 3043]	3759	[2306, 5722]	5790	[4056, 7436]	7821	[8064, 7747]
1729	[3044, 647]	3760	[5723, 1890]	5791	[4618, 4354]	7822	[7452, 6965]
1730	[3045, 3046]	3761	[5724, 2569]	5792	[7437, 4355]	7823	[6984, 7697]
1731	[3047, 3048]	3762	[5247, 5725]	5793	[6945, 4463]	7824	[8065, 7178]
1732	[924, 3049]	3763	[5551, 5726]	5794	[6832, 4769]	7825	[7066, 7772]
1733	[2996, 3050]	3764	[582, 5547]	5795	[7006, 7202]	7826	[7667, 7669]
1734	[3051, 3052]	3765	[3052, 5255]	5796	[290, 4510]	7827	[7729, 7369]
1735	[2564, 3015]	3766	[5727, 5728]	5797	[3445, 1415]	7828	[7677, 3259]
1736	[3053, 3054]	3767	[5729, 5730]	5798	[7147, 7438]	7829	[3400, 7296]
1737	[3055, 2387]	3768	[5731, 5732]	5799	[6957, 7439]	7830	[7725, 3358]
1738	[207, 3056]	3769	[5733, 5734]	5800	[7440, 7441]	7831	[3862, 7774]
1739	[2136, 2359]	3770	[5379, 5735]	5801	[4153, 1671]	7832	[7195, 7243]
1740	[3057, 2600]	3771	[5736, 2401]	5802	[7190, 4545]	7833	[3657, 8066]
1741	[3058, 3059]	3772	[5722, 4991]	5803	[7442, 7443]	7834	[4697, 4249]
1742	[3060, 3061]	3773	[5469, 5737]	5804	[7444, 1133]	7835	[1536, 7175]
1743	[3062, 656]	3774	[5738, 33]	5805	[4733, 6772]	7836	[3796, 3643]
1744	[2582, 3063]	3775	[2065, 3139]	5806	[4796, 4634]	7837	[8067, 1556]
1745	[2004, 3064]	3776	[5739, 5740]	5807	[6950, 7015]	7838	[116, 7416]
1746	[1848, 2298]	3777	[5741, 2977]	5808	[302, 7317]	7839	[7695, 7683]
1747	[3065, 3066]	3778	[2050, 1865]	5809	[4915, 7445]	7840	[8061, 4882]
1748	[3067, 3068]	3779	[5742, 5743]	5810	[3319, 7446]	7841	[4405, 4119]
1749	[2690, 3069]	3780	[5744, 5074]	5811	[1224, 4562]	7842	[7108, 1436]
1750	[42, 3070]	3781	[5099, 2305]	5812	[4645, 3356]	7843	[8060, 8068]
1751	[3071, 3072]	3782	[5507, 5745]	5813	[7447, 7448]	7844	[3688, 7197]
1752	[3073, 3074]	3783	[5746, 5747]	5814	[7269, 4166]	7845	[7133, 4500]
1753	[3075, 3076]	3784	[5315, 3081]	5815	[7449, 4438]	7846	[1207, 4251]
1754	[3077, 3078]	3785	[5748, 2990]	5816	[7450, 3799]	7847	[3589, 107]
1755	[3079, 770]	3786	[5653, 5131]	5817	[4406, 3456]	7848	[3545, 1760]
1756	[2635, 3080]	3787	[5749, 5750]	5818	[3948, 4063]	7849	[3593, 7612]
1757	[3081, 3082]	3788	[5751, 5548]	5819	[4808, 289]	7850	[4611, 4567]
1758	[739, 2061]	3789	[5752, 2439]	5820	[4678, 7451]	7851	[7619, 95]
1759	[3083, 1947]	3790	[5753, 5313]	5821	[7028, 4652]	7852	[3694, 7715]
1760	[566, 3084]	3791	[685, 5754]	5822	[6960, 7263]	7853	[7786, 7558]
1761	[3085, 3086]	3792	[5755, 5641]	5823	[4550, 3658]	7854	[6916, 7773]
1762	[3087, 3088]	3793	[2894, 5045]	5824	[6762, 7452]	7855	[7167, 8064]
1763	[3089, 3090]	3794	[5756, 5757]	5825	[1375, 7412]	7856	[4531, 7544]

1764	[2750, 3091]	3795	[5758, 5759]	5826	[7453, 3998]	7857	[4518, 7754]
1765	[2390, 3092]	3796	[5760, 5584]	5827	[7454, 4823]	7858	[7500, 6955]
1766	[2133, 1992]	3797	[5761, 2557]	5828	[7455, 7456]	7859	[7159, 7356]
1767	[3093, 3094]	3798	[5276, 2131]	5829	[7457, 6990]	7860	[320, 7782]
1768	[3095, 3096]	3799	[5762, 591]	5830	[6834, 4887]	7861	[7522, 4288]
1769	[3097, 3098]	3800	[5763, 5764]	5831	[7458, 4888]	7862	[3788, 3373]
1770	[3099, 3100]	3801	[5765, 5766]	5832	[7212, 4376]	7863	[7080, 3395]
1771	[3101, 3102]	3802	[5767, 5768]	5833	[3429, 7459]	7864	[7488, 105]
1772	[3103, 3104]	3803	[5769, 5770]	5834	[4555, 4149]	7865	[3305, 7787]
1773	[3105, 3106]	3804	[5771, 5772]	5835	[7379, 7072]	7866	[6942, 4343]
1774	[3107, 3108]	3805	[2720, 5217]	5836	[7460, 6774]	7867	[3873, 8069]
1775	[3109, 2939]	3806	[2122, 5773]	5837	[3891, 7381]	7868	[4918, 8070]
1776	[3110, 3111]	3807	[5774, 1916]	5838	[7098, 1151]	7869	[7674, 3746]
1777	[3112, 2103]	3808	[5775, 5776]	5839	[7290, 1189]	7870	[8062, 357]
1778	[1854, 1896]	3809	[5777, 2313]	5840	[4749, 409]	7871	[4356, 7007]
1779	[3113, 3114]	3810	[908, 5778]	5841	[3720, 267]	7872	[7014, 3397]
1780	[3115, 3116]	3811	[2660, 5779]	5842	[1216, 7461]	7873	[1011, 3399]
1781	[3117, 599]	3812	[5780, 5429]	5843	[6892, 17]	7874	[1797, 3872]
1782	[3035, 3118]	3813	[5781, 5782]	5844	[7462, 7463]	7875	[4262, 3935]
1783	[3119, 1863]	3814	[716, 5643]	5845	[4346, 7464]	7876	[7720, 4339]
1784	[3120, 2855]	3815	[5783, 5784]	5846	[7465, 3252]	7877	[7698, 8071]
1785	[2706, 2941]	3816	[2467, 5785]	5847	[7466, 7388]	7878	[7366, 7307]
1786	[3121, 3122]	3817	[2549, 603]	5848	[1356, 7467]	7879	[8068, 4077]
1787	[3123, 3124]	3818	[5786, 5787]	5849	[3521, 7328]	7880	[7246, 7444]
1788	[3125, 3126]	3819	[5331, 5788]	5850	[1243, 4024]	7881	[3832, 7628]
1789	[3127, 3128]	3820	[5789, 5790]	5851	[7468, 7469]	7882	[4565, 8072]
1790	[3129, 3130]	3821	[2398, 5098]	5852	[3997, 4585]	7883	[7507, 3177]
1791	[3131, 2382]	3822	[2400, 5646]	5853	[1385, 4699]	7884	[6862, 7636]
1792	[3132, 3003]	3823	[5791, 5792]	5854	[4267, 7431]	7885	[7428, 6857]
1793	[3133, 3134]	3824	[5793, 5794]	5855	[7376, 6983]	7886	[1172, 4945]
1794	[3135, 3136]	3825	[5309, 5795]	5856	[6858, 21]	7887	[7092, 6870]
1795	[3137, 3138]	3826	[5796, 5797]	5857	[1060, 7470]	7888	[7321, 3692]
1796	[3139, 3140]	3827	[5798, 5159]	5858	[1031, 4535]	7889	[8073, 7614]
1797	[3141, 3142]	3828	[5799, 5800]	5859	[7471, 7411]	7890	[7394, 4057]
1798	[3143, 3144]	3829	[2919, 5366]	5860	[104, 7064]	7891	[4372, 3880]
1799	[3145, 515]	3830	[5759, 5801]	5861	[6934, 7472]	7892	[4804, 3539]
1800	[170, 3146]	3831	[5802, 5803]	5862	[7473, 4740]	7893	[3970, 3275]
1801	[3147, 2883]	3832	[5757, 5804]	5863	[4734, 7474]	7894	[7785, 7779]
1802	[3128, 620]	3833	[2793, 5805]	5864	[7475, 3779]	7895	[4462, 7433]
1803	[3148, 3149]	3834	[5770, 4977]	5865	[7236, 4588]	7896	[4649, 7719]
1804	[2999, 2756]	3835	[5806, 5807]	5866	[7476, 3990]	7897	[4214, 3409]
1805	[3150, 2707]	3836	[211, 5808]	5867	[7477, 7478]	7898	[7639, 4327]
1806	[3151, 3152]	3837	[5809, 5369]	5868	[4036, 4483]	7899	[7550, 4115]
1807	[3153, 833]	3838	[1914, 5810]	5869	[7479, 1798]	7900	[7298, 1617]

1808	[3154, 3155]	3839	[5811, 5812]	5870	[7480, 4521]	7901	[7764, 1228]
1809	[3156, 3157]	3840	[2829, 5813]	5871	[7481, 1755]	7902	[1572, 7734]
1810	[3158, 3159]	3841	[5814, 5815]	5872	[7077, 4044]	7903	[4452, 361]
1811	[1860, 3160]	3842	[5816, 5817]	5873	[1274, 4845]	7904	[1039, 7316]
1812	[3161, 3162]	3843	[5818, 5705]	5874	[4910, 7093]	7905	[7670, 1225]
1813	[3163, 2257]	3844	[5166, 13]	5875	[3532, 6833]	7906	[4053, 4105]
1814	[3164, 3165]	3845	[1908, 5819]	5876	[1205, 4048]	7907	[7596, 3628]
1815	[1910, 3166]	3846	[5820, 5821]	5877	[7110, 3827]	7908	[7111, 4830]
1816	[3167, 3168]	3847	[5822, 5823]	5878	[1174, 4165]	7909	[1719, 7721]
1817	[3169, 3170]	3848	[5824, 5825]	5879	[4131, 475]	7910	[7766, 7524]
1818	[2688, 2534]	3849	[2317, 2444]	5880	[4736, 7187]	7911	[7436, 7623]
1819	[3171, 3172]	3850	[5826, 2729]	5881	[4235, 4220]	7912	[7613, 4788]
1820	[1670, 1609]	3851	[5827, 5798]	5882	[7482, 4836]	7913	[7692, 6784]
1821	[3173, 3174]	3852	[634, 813]	5883	[7483, 7081]	7914	[7790, 7378]
1822	[3175, 3176]	3853	[5828, 5829]	5884	[3216, 4862]	7915	[4447, 499]
1823	[3177, 495]	3854	[5830, 5831]	5885	[4396, 273]	7916	[4221, 4770]
1824	[3178, 3179]	3855	[5832, 5833]	5886	[7484, 7229]	7917	[7461, 7748]
1825	[3180, 3181]	3856	[5834, 2148]	5887	[7485, 4199]	7918	[1710, 7409]
1826	[1772, 3182]	3857	[5090, 5835]	5888	[4973, 7486]	7919	[8072, 4073]
1827	[3183, 3184]	3858	[5836, 5837]	5889	[7487, 7488]	7920	[7634, 4018]
1828	[3185, 3186]	3859	[727, 5838]	5890	[7489, 7026]	7921	[8074, 4459]
1829	[3187, 1331]	3860	[5558, 5839]	5891	[4824, 3248]	7922	[4959, 1639]
1830	[3188, 3189]	3861	[5840, 5185]	5892	[6963, 7334]	7923	[3488, 6846]
1831	[3190, 3191]	3862	[5218, 2545]	5893	[1570, 1020]	7924	[4957, 1796]
1832	[3192, 3193]	3863	[5841, 5842]	5894	[4870, 4162]	7925	[4129, 7644]
1833	[3194, 3195]	3864	[5130, 5843]	5895	[7490, 3968]	7926	[7332, 8075]
1834	[976, 1171]	3865	[5844, 35]	5896	[7491, 7241]	7927	[8066, 4191]
1835	[3196, 3197]	3866	[936, 601]	5897	[6961, 7408]	7928	[1338, 7707]
1836	[3198, 3199]	3867	[5845, 5846]	5898	[7035, 4666]	7929	[7690, 347]
1837	[1358, 3200]	3868	[5650, 5847]	5899	[6822, 7492]	7930	[8069, 7504]
1838	[3201, 3202]	3869	[2385, 5848]	5900	[6883, 4761]	7931	[7561, 7611]
1839	[3203, 3204]	3870	[2000, 5337]	5901	[7493, 6926]	7932	[4706, 7209]
1840	[3205, 3206]	3871	[5849, 5850]	5902	[7494, 4222]	7933	[7770, 7652]
1841	[3207, 3208]	3872	[618, 2434]	5903	[7495, 7496]	7934	[7511, 4775]
1842	[3209, 3210]	3873	[5851, 5852]	5904	[4296, 7497]	7935	[3925, 1584]
1843	[3211, 3212]	3874	[2022, 2157]	5905	[7498, 7499]	7936	[8070, 103]
1844	[3213, 3214]	3875	[5853, 5854]	5906	[4676, 7239]	7937	[4943, 1327]
1845	[3215, 3216]	3876	[5855, 5856]	5907	[3220, 7500]	7938	[1557, 7783]
1846	[3217, 1706]	3877	[5857, 5858]	5908	[4630, 6872]	7939	[7750, 8076]
1847	[3218, 1061]	3878	[5859, 5860]	5909	[7351, 7268]	7940	[1237, 7712]
1848	[3219, 3220]	3879	[2517, 5861]	5910	[7501, 7502]	7941	[4383, 7357]
1849	[3221, 3222]	3880	[5862, 5863]	5911	[7177, 7322]	7942	[8077, 1750]
1850	[3223, 3224]	3881	[5864, 910]	5912	[7429, 7503]	7943	[7165, 4934]
1851	[3225, 3226]	3882	[5490, 5865]	5913	[7504, 7505]	7944	[3886, 77]

1852	[3227, 3228]	3883	[5491, 2456]	5914	[7506, 7507]	7945	[7126, 1485]
1853	[114, 3229]	3884	[5866, 5867]	5915	[3954, 6999]	7946	[7297, 4778]
1854	[1278, 1724]	3885	[2116, 1894]	5916	[1138, 3851]	7947	[3342, 4033]
1855	[3230, 3231]	3886	[5868, 5869]	5917	[7508, 7509]	7948	[406, 7029]
1856	[3232, 3233]	3887	[2880, 161]	5918	[7237, 3911]	7949	[4454, 7458]
1857	[3234, 3235]	3888	[5468, 5671]	5919	[7510, 3243]	7950	[7758, 7694]
1858	[3236, 3237]	3889	[5329, 5870]	5920	[7456, 7511]	7951	[7732, 7367]
1859	[3238, 3239]	3890	[5871, 5411]	5921	[7512, 4297]	7952	[3464, 4369]
1860	[3240, 3241]	3891	[2251, 5872]	5922	[4621, 1159]	7953	[4079, 7778]
1861	[3231, 3242]	3892	[2227, 5873]	5923	[7513, 1206]	7954	[6968, 6882]
1862	[3243, 3244]	3893	[134, 5789]	5924	[7514, 7340]	7955	[7789, 7123]
1863	[3245, 3246]	3894	[857, 5874]	5925	[4768, 4334]	7956	[7069, 7586]
1864	[3247, 1673]	3895	[5725, 5605]	5926	[1582, 4950]	7957	[7361, 7483]
1865	[3248, 3249]	3896	[2465, 5875]	5927	[7515, 1261]	7958	[4782, 3268]
1866	[476, 3250]	3897	[5876, 224]	5928	[1469, 3729]	7959	[6825, 3301]
1867	[1690, 3251]	3898	[5877, 5878]	5929	[7396, 4905]	7960	[7509, 4647]
1868	[3252, 3253]	3899	[5879, 5880]	5930	[6929, 7516]	7961	[1754, 8074]
1869	[308, 1244]	3900	[5881, 5480]	5931	[7353, 7517]	7962	[7022, 1708]
1870	[3254, 1030]	3901	[5882, 5883]	5932	[7385, 7518]	7963	[1441, 6851]
1871	[3255, 3256]	3902	[5884, 5885]	5933	[4313, 4783]	7964	[1475, 3937]
1872	[3257, 3258]	3903	[5215, 5886]	5934	[7144, 7329]	7965	[7647, 4713]
1873	[3259, 3260]	3904	[5177, 5887]	5935	[260, 3866]	7966	[7739, 3764]
1874	[3261, 3262]	3905	[3170, 5888]	5936	[7075, 7460]	7967	[4774, 7244]
1875	[3263, 3264]	3906	[5788, 5889]	5937	[3876, 3530]	7968	[8058, 8077]
1876	[3265, 3266]	3907	[5890, 5891]	5938	[4217, 4835]	7969	[7708, 3557]
1877	[1461, 3267]	3908	[5892, 5755]	5939	[6917, 7036]	7970	[7542, 8078]
1878	[3268, 3269]	3909	[816, 5893]	5940	[7519, 4806]	7971	[1645, 4492]
1879	[3270, 3271]	3910	[962, 5894]	5941	[3214, 7013]	7972	[8071, 7203]
1880	[3272, 1362]	3911	[5895, 1939]	5942	[90, 7303]	7973	[1590, 7660]
1881	[494, 3273]	3912	[913, 5896]	5943	[6797, 7520]	7974	[4226, 4573]
1882	[3184, 3274]	3913	[2871, 3006]	5944	[3900, 3288]	7975	[1484, 7595]
1883	[3275, 1525]	3914	[5897, 5353]	5945	[1068, 376]	7976	[8075, 4192]
1884	[3276, 3277]	3915	[5898, 5425]	5946	[7459, 7094]	7977	[7775, 7702]
1885	[3278, 3279]	3916	[731, 5899]	5947	[1674, 7050]	7978	[7230, 8063]
1886	[3280, 3281]	3917	[5900, 5901]	5948	[7521, 7522]	7979	[480, 8065]
1887	[3282, 3283]	3918	[5902, 5903]	5949	[7486, 3946]	7980	[7646, 7430]
1888	[3284, 3285]	3919	[5068, 163]	5950	[4901, 6864]	7981	[7277, 8079]
1889	[126, 1080]	3920	[5673, 5904]	5951	[4829, 7523]	7982	[7751, 4662]
1890	[3286, 3287]	3921	[5905, 2397]	5952	[7524, 7525]	7983	[457, 1700]
1891	[3288, 3289]	3922	[5351, 5385]	5953	[4963, 4795]	7984	[7341, 8073]
1892	[3290, 3291]	3923	[5906, 5907]	5954	[4594, 7480]	7985	[3923, 4234]
1893	[3292, 3293]	3924	[5908, 5629]	5955	[7285, 3966]	7986	[402, 7689]
1894	[3294, 3295]	3925	[5909, 5910]	5956	[7526, 7017]	7987	[4779, 7252]
1895	[3296, 1320]	3926	[5911, 5912]	5957	[1518, 7527]	7988	[4163, 7691]

1896	[3229, 3297]	3927	[5913, 5914]	5958	[1520, 1157]	7989	[7735, 7390]
1897	[3298, 3299]	3928	[2508, 5915]	5959	[4116, 3238]	7990	[4274, 7421]
1898	[1539, 3300]	3929	[2755, 5267]	5960	[6764, 1811]	7991	[4933, 7494]
1899	[3301, 3302]	3930	[2773, 5916]	5961	[6800, 7528]	7992	[4893, 1329]
1900	[338, 3303]	3931	[5917, 5918]	5962	[4886, 7299]	7993	[7004, 7604]
1901	[3304, 3305]	3932	[5919, 565]	5963	[7438, 6971]	7994	[7344, 7723]
1902	[3306, 1634]	3933	[1955, 5920]	5964	[6815, 1764]	7995	[7062, 7308]
1903	[3307, 3308]	3934	[5921, 2567]	5965	[7529, 4909]	7996	[8079, 7601]
1904	[408, 3309]	3935	[5922, 597]	5966	[7530, 7531]	7997	[7777, 6782]
1905	[362, 3310]	3936	[5923, 190]	5967	[4767, 7532]	7998	[7791, 6760]
1906	[364, 1161]	3937	[2676, 2671]	5968	[6810, 1501]	7999	[3337, 7119]
1907	[1069, 1411]	3938	[5924, 5648]	5969	[7294, 7533]	8000	[4344, 7541]
1908	[3311, 3312]	3939	[4976, 5925]	5970	[7499, 7338]	8001	[1818, 3905]
1909	[3313, 1103]	3940	[5926, 5927]	5971	[7534, 1149]	8002	[4762, 3975]
1910	[3314, 1361]	3941	[530, 5857]	5972	[1255, 7535]	8003	[4205, 3284]
1911	[3315, 3316]	3942	[5928, 3062]	5973	[3704, 7536]	8004	[7422, 995]
1912	[3317, 3318]	3943	[5929, 5930]	5974	[6958, 485]	8005	[4124, 1626]
1913	[348, 3319]	3944	[5931, 5932]	5975	[7537, 7352]	8006	[7540, 7599]
1914	[3320, 3321]	3945	[5168, 5933]	5976	[974, 7495]	8007	[8080, 3806]
1915	[3322, 1726]	3946	[189, 5934]	5977	[7538, 3560]	8008	[3310, 8080]
1916	[3323, 3324]	3947	[5632, 2776]	5978	[4022, 1125]	8009	[7684, 7287]
1917	[3325, 3326]	3948	[5541, 5935]	5979	[1299, 1105]	8010	[7781, 479]
1918	[3327, 3328]	3949	[5936, 5937]	5980	[4114, 7539]	8011	[7158, 8067]
1919	[3329, 3330]	3950	[5938, 5212]	5981	[3189, 7540]	8012	[3381, 1434]
1920	[3331, 3332]	3951	[50, 5939]	5982	[4495, 1704]	8013	[1814, 373]
1921	[3333, 1399]	3952	[5540, 5879]	5983	[7531, 1752]	8014	[3929, 3969]
1922	[3334, 3335]	3953	[5940, 5941]	5984	[6978, 1131]	8015	[7746, 7548]
1923	[3336, 3337]	3954	[838, 5942]	5985	[7541, 7364]	8016	[7776, 19]
1924	[3289, 3338]	3955	[5942, 5587]	5986	[4813, 4814]	8017	[8078, 3498]
1925	[3339, 3196]	3956	[5011, 5943]	5987	[6845, 4949]	8018	[8059, 4566]
1926	[3340, 1791]	3957	[5418, 5944]	5988	[1693, 7542]	8019	[6974, 4866]
1927	[3341, 3342]	3958	[550, 5945]	5989	[4089, 7543]	8020	[4416, 3892]
1928	[3343, 3344]	3959	[5946, 5274]	5990	[334, 297]	8021	[3642, 7701]
1929	[3345, 3346]	3960	[919, 5947]	5991	[7544, 1167]	8022	[1251, 7207]
1930	[3347, 341]	3961	[5948, 2077]	5992	[7545, 7546]	8023	[6847, 382]
1931	[3348, 3349]	3962	[2344, 5061]	5993	[7547, 4583]	8024	[6850, 7626]
1932	[3350, 3351]	3963	[5949, 2636]	5994	[7548, 6897]	8025	[7346, 4953]
1933	[3352, 3353]	3964	[5158, 5950]	5995	[4120, 4571]	8026	[3374, 7477]
1934	[3354, 3355]	3965	[5951, 3045]	5996	[7549, 3675]	8027	[7620, 7447]
1935	[3356, 1780]	3966	[2327, 5952]	5997	[4, 1215]	8028	[1398, 7245]
1936	[3357, 395]	3967	[5553, 5953]	5998	[6954, 4345]	8029	[7622, 7260]
1937	[3358, 3359]	3968	[5954, 5441]	5999	[7389, 7550]	8030	[7717, 7710]
1938	[3360, 3361]	3969	[5915, 5938]	6000	[4663, 3662]	8031	[7678, 4864]
1939	[414, 1339]	3970	[5870, 2747]	6001	[6946, 7049]	8032	[1273, 4952]

1940	[3362, 3363]	3971	[2203, 2430]	6002	[7255, 7551]	8033	[7713, 419]
1941	[3364, 3365]	3972	[5955, 2745]	6003	[1117, 7552]	8034	[4206, 7756]
1942	[3366, 3367]	3973	[5580, 5956]	6004	[7467, 7325]	8035	[4876, 6962]
1943	[3368, 3369]	3974	[5957, 5958]	6005	[7057, 7553]	8036	[258, 4614]
1944	[1311, 3370]	3975	[2428, 5959]	6006	[7397, 7106]	8037	[1222, 4035]
1945	[3371, 3372]	3976	[5960, 5961]	6007	[7554, 7555]	8038	[4394, 7654]
1946	[3373, 3374]	3977	[5962, 5760]	6008	[3670, 7355]	8039	[4883, 363]
1947	[3375, 3376]	3978	[512, 959]	6009	[3936, 303]	8040	[1721, 3175]
1948	[3377, 3378]	3979	[2082, 5963]	6010	[984, 3603]	8041	[7417, 4101]
1949	[3379, 3380]	3980	[5964, 5965]	6011	[4619, 7556]	8042	[1295, 7010]
1950	[1526, 3381]	3981	[5966, 5967]	6012	[7423, 7557]	8043	[4083, 1597]
1951	[3382, 3383]	3982	[5968, 5969]	6013	[1162, 6928]	8044	[7577, 1794]
1952	[3384, 3385]	3983	[5430, 5216]	6014	[7558, 4515]	8045	[389, 7270]
1953	[3386, 3387]	3984	[5970, 5926]	6015	[7559, 7399]	8046	[4294, 4086]
1954	[3388, 3389]	3985	[5342, 5971]	6016	[7560, 7561]	8047	[1545, 4559]
1955	[3390, 3391]	3986	[5972, 5973]	6017	[4659, 4429]	8048	[1360, 7101]
1956	[1527, 3392]	3987	[5974, 5975]	6018	[7562, 4554]	8049	[8076, 7418]
1957	[3393, 3394]	3988	[502, 5976]	6019	[7563, 3223]	8050	[4834, 75]
1958	[3395, 3396]	3989	[2740, 5977]	6020	[7564, 3590]	8051	[7348, 4295]
1959	[3397, 3398]	3990	[5978, 2193]	6021	[4039, 3407]	8052	[7051, 4216]
1960	[3399, 3400]	3991	[5856, 5979]	6022	[3839, 4960]	8053	[7032, 3446]
1961	[3401, 1364]	3992	[5664, 1936]	6023	[4641, 7565]	8054	[7016, 4884]
1962	[3402, 3403]	3993	[946, 5980]	6024	[4643, 4263]	8055	[6881, 3236]
1963	[3404, 3405]	3994	[5981, 5982]	6025	[3474, 4427]	8056	[3427, 1727]
1964	[1627, 3406]	3995	[5983, 929]	6026	[1806, 7566]	8057	[8081, 6226]
1965	[3407, 3408]	3996	[5984, 5985]	6027	[4691, 4141]	8058	[6566, 5456]
1966	[3409, 3410]	3997	[5986, 927]	6028	[1732, 7493]	8059	[720, 6168]
1967	[3380, 3411]	3998	[2936, 5233]	6029	[7089, 7567]	8060	[5636, 2814]
1968	[3412, 3413]	3999	[5987, 2501]	6030	[7568, 7406]	8061	[8049, 6710]
1969	[1332, 3414]	4000	[942, 5988]	6031	[7569, 4786]	8062	[6251, 702]
1970	[1745, 3415]	4001	[5989, 5990]	6032	[7570, 7282]	8063	[7961, 5654]
1971	[1786, 3416]	4002	[5991, 2634]	6033	[3256, 3708]	8064	[6437, 5452]
1972	[3417, 3418]	4003	[5992, 5993]	6034	[4648, 3836]	8065	[1902, 858]
1973	[1196, 3419]	4004	[5994, 5253]	6035	[1008, 4729]	8066	[5519, 5781]
1974	[3420, 1481]	4005	[5995, 5375]	6036	[3570, 3882]	8067	[6516, 2797]
1975	[3421, 3422]	4006	[5996, 5997]	6037	[3581, 67]	8068	[8008, 5149]
1976	[3423, 1240]	4007	[5163, 5998]	6038	[7113, 287]	8069	[6743, 5230]
1977	[3424, 3425]	4008	[5999, 6000]	6039	[1516, 1376]	8070	[6729, 208]
1978	[3426, 3427]	4009	[12, 2008]	6040	[7571, 3611]	8071	[6463, 579]
1979	[3428, 3429]	4010	[518, 6001]	6041	[7375, 7572]	8072	[8056, 6725]
1980	[3430, 3431]	4011	[6002, 6003]	6042	[1202, 3887]	8073	[2243, 7923]
1981	[3432, 3433]	4012	[1940, 6004]	6043	[3555, 7454]	8074	[3076, 2123]
1982	[286, 3434]	4013	[3032, 2248]	6044	[7492, 7573]	8075	[7985, 6200]
1983	[28, 3435]	4014	[5444, 6005]	6045	[7574, 7575]	8076	[2954, 2732]

1984	[3436, 3437]	4015	[5732, 6006]	6046	[1233, 4412]	8077	[8054, 3071]
1985	[3438, 3439]	4016	[6007, 5384]	6047	[7533, 7576]	8078	[2951, 8055]
1986	[3440, 3441]	4017	[6008, 5627]	6048	[3814, 7529]	8079	[6049, 8047]
1987	[3442, 3443]	4018	[5424, 2575]	6049	[7518, 7577]	8080	[6166, 5774]
1988	[3444, 3445]	4019	[5442, 5744]	6050	[7233, 7514]	8081	[8082, 6868]
1989	[3446, 3447]	4020	[2312, 6009]	6051	[7578, 489]	8082	[8083, 5017]
1990	[3448, 3331]	4021	[6010, 2093]	6052	[7579, 7580]	8083	[8084, 3694]
1991	[1638, 1421]	4022	[6011, 6012]	6053	[7520, 4547]	8084	[8085, 5812]
1992	[3449, 3450]	4023	[2032, 5723]	6054	[7581, 271]	8085	[8086, 4124]
1993	[3451, 3452]	4024	[6013, 2679]	6055	[3730, 4543]	8086	[8087, 2282]
1994	[3273, 3382]	4025	[5288, 6014]	6056	[453, 7582]	8087	[8088, 70]
1995	[3453, 91]	4026	[2177, 6015]	6057	[7583, 4407]	8088	[8089, 6597]
1996	[3454, 3455]	4027	[34, 6016]	6058	[7420, 1495]	8089	[8090, 7693]
1997	[3456, 3457]	4028	[5262, 6017]	6059	[7254, 7327]	8090	[8091, 580]
1998	[3458, 3459]	4029	[6018, 6019]	6060	[4113, 7501]	8091	[8092, 4568]
1999	[3460, 1413]	4030	[760, 2462]	6061	[3241, 7506]	8092	[8093, 2600]
2000	[3461, 3462]	4031	[5885, 137]	6062	[4578, 7116]	8093	[8094, 1799]
2001	[3463, 3464]	4032	[2640, 873]	6063	[7584, 487]	8094	[8095, 5683]
2002	[3465, 3466]	4033	[6020, 2085]	6064	[4193, 7019]	8095	[8096, 1206]
2003	[3467, 3468]	4034	[6021, 583]	6065	[3991, 1209]	8096	[8097, 2226]
2004	[3469, 3470]	4035	[2249, 6022]	6066	[7358, 7585]	8097	[8098, 3808]
2005	[3471, 3472]	4036	[5064, 2290]	6067	[7586, 7105]	8098	[8099, 672]
2006	[3473, 3474]	4037	[6023, 6024]	6068	[1334, 1390]	8099	[8100, 1298]
2007	[3475, 3476]	4038	[6025, 2760]	6069	[7170, 4877]	8100	[8101, 2380]
2008	[3477, 3478]	4039	[6026, 2726]	6070	[4932, 7154]	8101	[8102, 1678]
2009	[3479, 3480]	4040	[6027, 804]	6071	[7587, 6855]	8102	[8103, 6028]
2010	[3481, 3482]	4041	[6028, 6029]	6072	[3174, 3939]	8103	[8104, 7089]
2011	[3483, 1357]	4042	[6030, 6031]	6073	[4904, 7150]	8104	[8105, 6342]
2012	[3484, 3485]	4043	[6032, 5559]	6074	[7588, 7589]	8105	[8106, 7106]
2013	[3486, 3218]	4044	[6033, 6034]	6075	[7590, 7345]	8106	[8107, 6573]
2014	[3487, 3488]	4045	[6035, 5446]	6076	[6827, 1427]	8107	[8108, 7757]
2015	[3489, 3240]	4046	[5104, 5695]	6077	[4923, 7131]	8108	[8109, 7922]
2016	[3490, 3491]	4047	[6036, 5203]	6078	[4091, 7330]	8109	[8110, 4064]
2017	[1330, 3492]	4048	[1856, 5699]	6079	[7125, 6994]	8110	[8111, 7964]
2018	[3493, 3292]	4049	[6037, 6038]	6080	[4506, 7591]	8111	[8112, 4262]
2019	[1132, 3494]	4050	[6039, 2158]	6081	[4873, 3737]	8112	[8113, 5922]
2020	[3495, 3211]	4051	[6040, 6041]	6082	[7441, 7592]	8113	[8114, 1157]
2021	[3496, 3497]	4052	[6042, 6043]	6083	[4717, 4872]	8114	[8115, 504]
2022	[3498, 1468]	4053	[6044, 6045]	6084	[4590, 7593]	8115	[8116, 349]
2023	[3499, 3500]	4054	[6046, 6047]	6085	[4541, 7084]	8116	[8117, 686]
2024	[3501, 3502]	4055	[3100, 2705]	6086	[3497, 7583]	8117	[8118, 1325]
2025	[988, 3503]	4056	[6048, 6049]	6087	[1212, 3626]	8118	[8119, 2430]
2026	[1160, 1034]	4057	[6050, 6051]	6088	[1354, 7479]	8119	[8120, 3303]
2027	[3504, 3505]	4058	[6052, 6053]	6089	[3855, 1300]	8120	[1, 5996]

2028	[3506, 1601]	4059	[810, 6054]	6090	[4857, 7594]
2029	[288, 3507]	4060	[6055, 2240]	6091	[6830, 3428]
2030	[3508, 3509]	4061	[6056, 6057]	6092	[6765, 3185]

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	1354	0	2708	0	4062	0	5416	1	6770	1
1	0	1355	0	2709	1	4063	1	5417	1	6771	0
2	0	1356	1	2710	0	4064	0	5418	1	6772	1
3	0	1357	1	2711	1	4065	1	5419	0	6773	1
4	0	1358	0	2712	0	4066	1	5420	1	6774	1
5	0	1359	0	2713	0	4067	0	5421	0	6775	0
6	0	1360	0	2714	0	4068	0	5422	1	6776	1
7	0	1361	1	2715	0	4069	0	5423	0	6777	0
8	0	1362	0	2716	0	4070	0	5424	1	6778	1
9	0	1363	1	2717	0	4071	0	5425	1	6779	0
10	1	1364	1	2718	0	4072	1	5426	0	6780	0
11	0	1365	1	2719	1	4073	1	5427	0	6781	0
12	1	1366	0	2720	0	4074	1	5428	1	6782	0
13	0	1367	1	2721	0	4075	1	5429	0	6783	1
14	1	1368	1	2722	1	4076	1	5430	0	6784	0
15	0	1369	1	2723	1	4077	1	5431	0	6785	1
16	0	1370	0	2724	1	4078	0	5432	1	6786	1
17	0	1371	1	2725	0	4079	1	5433	1	6787	0
18	1	1372	1	2726	1	4080	1	5434	0	6788	0
19	0	1373	0	2727	1	4081	1	5435	0	6789	0
20	1	1374	0	2728	1	4082	1	5436	1	6790	0
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23	0	1377	1	2731	1	4085	1	5439	1	6793	0
24	1	1378	1	2732	1	4086	0	5440	0	6794	1
25	1	1379	1	2733	0	4087	0	5441	1	6795	0
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29	1	1383	0	2737	0	4091	0	5445	0	6799	0
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33	0	1387	0	2741	1	4095	0	5449	1	6803	0
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41	1	1395	1	2749	0	4103	0	5457	1	6811	1
42	1	1396	0	2750	0	4104	0	5458	0	6812	0
43	1	1397	0	2751	0	4105	0	5459	0	6813	1
44	0	1398	1	2752	1	4106	0	5460	1	6814	0
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46	0	1400	1	2754	0	4108	0	5462	0	6816	0
47	0	1401	0	2755	1	4109	1	5463	0	6817	0
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50	1	1404	0	2758	0	4112	0	5466	1	6820	1
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234	0	1588	0	2942	1	4296	0	5650	1	7004	0
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292	1	1646	0	3000	1	4354	1	5708	0	7062	1
293	0	1647	1	3001	1	4355	0	5709	1	7063	1
294	1	1648	1	3002	1	4356	0	5710	0	7064	0
295	1	1649	1	3003	0	4357	0	5711	0	7065	0
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298	1	1652	0	3006	0	4360	0	5714	0	7068	0
299	0	1653	1	3007	0	4361	1	5715	0	7069	0
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304	1	1658	0	3012	0	4366	0	5720	0	7074	0
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307	0	1661	0	3015	0	4369	0	5723	1	7077	0
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309	0	1663	0	3017	1	4371	1	5725	1	7079	1
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311	0	1665	1	3019	0	4373	1	5727	0	7081	1
312	1	1666	1	3020	1	4374	0	5728	1	7082	0
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315	0	1669	0	3023	1	4377	1	5731	0	7085	0
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317	0	1671	1	3025	1	4379	0	5733	1	7087	0
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321	0	1675	0	3029	1	4383	0	5737	0	7091	0
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326	0	1680	0	3034	0	4388	0	5742	0	7096	1
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328	0	1682	1	3036	1	4390	0	5744	1	7098	1
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332	0	1686	1	3040	0	4394	0	5748	1	7102	1
333	1	1687	1	3041	0	4395	1	5749	1	7103	0
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335	1	1689	1	3043	0	4397	0	5751	0	7105	0
336	0	1690	1	3044	0	4398	0	5752	1	7106	0
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345	1	1699	1	3053	0	4407	0	5761	1	7115	1

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354	0	1708	1	3062	1	4416	1	5770	1	7124	1
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360	0	1714	0	3068	0	4422	1	5776	0	7130	1
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364	0	1718	1	3072	1	4426	0	5780	0	7134	0
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366	1	1720	1	3074	0	4428	1	5782	0	7136	1
367	0	1721	1	3075	0	4429	0	5783	1	7137	1
368	1	1722	1	3076	1	4430	1	5784	0	7138	1
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371	0	1725	1	3079	0	4433	1	5787	1	7141	1
372	1	1726	1	3080	0	4434	1	5788	1	7142	0
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384	1	1738	0	3092	1	4446	1	5800	1	7154	0
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386	1	1740	1	3094	0	4448	0	5802	1	7156	1
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389	0	1743	1	3097	0	4451	0	5805	0	7159	1

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392	0	1746	0	3100	1	4454	0	5808	0	7162	0
393	1	1747	0	3101	0	4455	1	5809	1	7163	0
394	1	1748	1	3102	1	4456	1	5810	0	7164	0
395	1	1749	0	3103	1	4457	1	5811	1	7165	0
396	1	1750	1	3104	0	4458	0	5812	1	7166	1
397	0	1751	1	3105	1	4459	1	5813	1	7167	0
398	0	1752	0	3106	1	4460	0	5814	0	7168	1
399	0	1753	0	3107	1	4461	1	5815	0	7169	1
400	0	1754	1	3108	0	4462	1	5816	1	7170	1
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407	1	1761	1	3115	1	4469	1	5823	0	7177	1
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415	1	1769	0	3123	1	4477	1	5831	0	7185	0
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419	0	1773	1	3127	0	4481	0	5835	0	7189	1
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421	0	1775	0	3129	1	4483	1	5837	0	7191	1
422	0	1776	0	3130	0	4484	0	5838	1	7192	0
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430	1	1784	1	3138	0	4492	0	5846	1	7200	0
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440	0	1794	0	3148	1	4502	0	5856	1	7210	1
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445	1	1799	0	3153	0	4507	0	5861	1	7215	1
446	1	1800	0	3154	1	4508	0	5862	1	7216	0
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455	1	1809	0	3163	1	4517	0	5871	1	7225	0
456	0	1810	1	3164	1	4518	0	5872	0	7226	1
457	1	1811	0	3165	1	4519	1	5873	0	7227	1
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459	1	1813	1	3167	1	4521	1	5875	1	7229	0
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465	1	1819	0	3173	0	4527	1	5881	1	7235	0
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472	0	1826	1	3180	0	4534	1	5888	1	7242	0
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474	1	1828	1	3182	0	4536	0	5890	0	7244	1
475	1	1829	0	3183	1	4537	0	5891	0	7245	1
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546	1	1900	1	3254	0	4608	0	5962	0	7316	1
547	1	1901	1	3255	1	4609	0	5963	0	7317	0
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554	0	1908	0	3262	1	4616	0	5970	1	7324	0
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556	1	1910	1	3264	0	4618	0	5972	0	7326	1
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561	0	1915	0	3269	1	4623	0	5977	0	7331	0
562	0	1916	0	3270	1	4624	0	5978	0	7332	0
563	1	1917	0	3271	0	4625	1	5979	1	7333	1
564	0	1918	0	3272	0	4626	0	5980	1	7334	0
565	1	1919	1	3273	1	4627	0	5981	0	7335	1

566	1	1920	0	3274	0	4628	0	5982	1	7336	1
567	0	1921	1	3275	0	4629	0	5983	0	7337	0
568	0	1922	1	3276	0	4630	1	5984	1	7338	0
569	0	1923	1	3277	1	4631	0	5985	0	7339	0
570	1	1924	0	3278	1	4632	0	5986	1	7340	0
571	1	1925	0	3279	1	4633	1	5987	1	7341	0
572	0	1926	1	3280	1	4634	0	5988	1	7342	1
573	1	1927	0	3281	0	4635	0	5989	0	7343	0
574	0	1928	1	3282	0	4636	0	5990	0	7344	1
575	1	1929	0	3283	0	4637	1	5991	1	7345	0
576	1	1930	0	3284	1	4638	1	5992	1	7346	0
577	0	1931	1	3285	1	4639	1	5993	0	7347	1
578	0	1932	1	3286	0	4640	1	5994	0	7348	1
579	1	1933	1	3287	0	4641	1	5995	1	7349	1
580	0	1934	0	3288	1	4642	0	5996	0	7350	0
581	1	1935	1	3289	0	4643	1	5997	0	7351	1
582	0	1936	0	3290	0	4644	1	5998	0	7352	0
583	0	1937	0	3291	0	4645	1	5999	0	7353	0
584	1	1938	1	3292	0	4646	1	6000	1	7354	1
585	0	1939	0	3293	1	4647	1	6001	1	7355	1
586	1	1940	0	3294	1	4648	1	6002	0	7356	1
587	1	1941	1	3295	1	4649	1	6003	1	7357	0
588	1	1942	1	3296	0	4650	1	6004	0	7358	1
589	0	1943	1	3297	1	4651	1	6005	1	7359	1
590	1	1944	0	3298	0	4652	0	6006	1	7360	0
591	1	1945	1	3299	0	4653	1	6007	0	7361	1
592	0	1946	0	3300	1	4654	0	6008	1	7362	1
593	1	1947	0	3301	1	4655	0	6009	1	7363	0
594	1	1948	0	3302	1	4656	1	6010	0	7364	1
595	0	1949	1	3303	0	4657	0	6011	0	7365	0
596	1	1950	0	3304	1	4658	0	6012	1	7366	0
597	1	1951	0	3305	1	4659	0	6013	1	7367	1
598	0	1952	1	3306	0	4660	0	6014	1	7368	1
599	1	1953	1	3307	0	4661	1	6015	0	7369	0
600	0	1954	1	3308	1	4662	1	6016	0	7370	1
601	0	1955	1	3309	1	4663	1	6017	0	7371	0
602	1	1956	0	3310	1	4664	0	6018	1	7372	0
603	0	1957	1	3311	0	4665	1	6019	0	7373	1
604	0	1958	1	3312	0	4666	1	6020	0	7374	1
605	0	1959	0	3313	1	4667	0	6021	1	7375	1
606	1	1960	1	3314	1	4668	0	6022	1	7376	1
607	1	1961	0	3315	0	4669	0	6023	1	7377	1
608	1	1962	0	3316	0	4670	1	6024	1	7378	0
609	0	1963	1	3317	1	4671	1	6025	1	7379	0

610	0	1964	1	3318	1	4672	0	6026	1	7380	1
611	1	1965	0	3319	0	4673	0	6027	1	7381	0
612	0	1966	1	3320	0	4674	1	6028	1	7382	0
613	0	1967	0	3321	0	4675	1	6029	0	7383	0
614	0	1968	1	3322	0	4676	0	6030	1	7384	0
615	1	1969	1	3323	0	4677	0	6031	0	7385	1
616	0	1970	0	3324	1	4678	0	6032	0	7386	1
617	1	1971	1	3325	0	4679	0	6033	1	7387	1
618	1	1972	0	3326	0	4680	1	6034	1	7388	1
619	0	1973	1	3327	0	4681	0	6035	0	7389	0
620	0	1974	0	3328	0	4682	0	6036	0	7390	1
621	1	1975	0	3329	1	4683	1	6037	0	7391	0
622	1	1976	1	3330	1	4684	1	6038	0	7392	0
623	0	1977	1	3331	0	4685	0	6039	1	7393	0
624	1	1978	0	3332	0	4686	0	6040	1	7394	0
625	0	1979	1	3333	1	4687	0	6041	1	7395	1
626	0	1980	1	3334	1	4688	1	6042	1	7396	1
627	0	1981	1	3335	0	4689	1	6043	1	7397	1
628	0	1982	1	3336	1	4690	0	6044	0	7398	0
629	1	1983	1	3337	0	4691	1	6045	0	7399	1
630	0	1984	1	3338	0	4692	0	6046	0	7400	1
631	0	1985	1	3339	0	4693	1	6047	1	7401	0
632	0	1986	0	3340	1	4694	0	6048	0	7402	0
633	0	1987	1	3341	0	4695	1	6049	0	7403	0
634	0	1988	0	3342	1	4696	0	6050	0	7404	1
635	0	1989	1	3343	1	4697	0	6051	1	7405	1
636	1	1990	0	3344	0	4698	1	6052	0	7406	0
637	0	1991	0	3345	0	4699	0	6053	1	7407	1
638	1	1992	1	3346	1	4700	0	6054	1	7408	1
639	0	1993	0	3347	0	4701	1	6055	0	7409	0
640	1	1994	1	3348	1	4702	0	6056	1	7410	1
641	0	1995	0	3349	1	4703	0	6057	0	7411	1
642	1	1996	0	3350	1	4704	1	6058	0	7412	0
643	1	1997	0	3351	1	4705	1	6059	0	7413	0
644	0	1998	1	3352	1	4706	0	6060	0	7414	1
645	0	1999	1	3353	0	4707	1	6061	0	7415	0
646	0	2000	1	3354	0	4708	1	6062	0	7416	0
647	0	2001	1	3355	0	4709	0	6063	1	7417	1
648	0	2002	0	3356	1	4710	0	6064	1	7418	1
649	0	2003	0	3357	0	4711	0	6065	1	7419	0
650	0	2004	0	3358	0	4712	1	6066	1	7420	0
651	0	2005	0	3359	1	4713	0	6067	1	7421	0
652	0	2006	0	3360	1	4714	0	6068	1	7422	0
653	1	2007	0	3361	1	4715	1	6069	1	7423	1

654	0	2008	1	3362	0	4716	1	6070	1	7424	0
655	0	2009	1	3363	1	4717	1	6071	1	7425	0
656	1	2010	1	3364	1	4718	1	6072	1	7426	1
657	1	2011	1	3365	0	4719	1	6073	0	7427	0
658	0	2012	1	3366	1	4720	0	6074	0	7428	1
659	1	2013	1	3367	0	4721	1	6075	0	7429	1
660	1	2014	0	3368	1	4722	1	6076	0	7430	1
661	0	2015	1	3369	1	4723	0	6077	1	7431	0
662	1	2016	0	3370	1	4724	1	6078	0	7432	1
663	1	2017	1	3371	1	4725	0	6079	0	7433	0
664	0	2018	1	3372	1	4726	0	6080	0	7434	0
665	1	2019	0	3373	0	4727	1	6081	0	7435	1
666	0	2020	1	3374	0	4728	0	6082	0	7436	1
667	0	2021	0	3375	0	4729	0	6083	1	7437	0
668	1	2022	0	3376	0	4730	0	6084	0	7438	0
669	0	2023	1	3377	0	4731	0	6085	1	7439	1
670	0	2024	0	3378	1	4732	0	6086	0	7440	1
671	1	2025	1	3379	1	4733	0	6087	0	7441	0
672	0	2026	1	3380	0	4734	1	6088	0	7442	1
673	1	2027	0	3381	1	4735	0	6089	0	7443	1
674	1	2028	0	3382	0	4736	1	6090	1	7444	0
675	0	2029	0	3383	1	4737	0	6091	1	7445	0
676	1	2030	1	3384	1	4738	0	6092	1	7446	0
677	0	2031	0	3385	1	4739	0	6093	0	7447	1
678	0	2032	0	3386	1	4740	0	6094	0	7448	0
679	1	2033	0	3387	1	4741	1	6095	1	7449	0
680	1	2034	0	3388	1	4742	0	6096	1	7450	1
681	0	2035	0	3389	0	4743	1	6097	0	7451	0
682	0	2036	1	3390	1	4744	1	6098	1	7452	1
683	0	2037	1	3391	0	4745	1	6099	1	7453	1
684	1	2038	0	3392	0	4746	0	6100	0	7454	0
685	0	2039	0	3393	1	4747	1	6101	1	7455	0
686	0	2040	0	3394	0	4748	1	6102	0	7456	1
687	1	2041	0	3395	1	4749	0	6103	1	7457	1
688	0	2042	1	3396	0	4750	0	6104	0	7458	0
689	0	2043	1	3397	0	4751	0	6105	0	7459	1
690	1	2044	0	3398	0	4752	0	6106	1	7460	0
691	1	2045	1	3399	1	4753	0	6107	0	7461	1
692	1	2046	1	3400	1	4754	1	6108	0	7462	1
693	0	2047	1	3401	0	4755	1	6109	1	7463	1
694	0	2048	1	3402	0	4756	1	6110	1	7464	1
695	1	2049	1	3403	0	4757	1	6111	0	7465	1
696	1	2050	1	3404	1	4758	0	6112	1	7466	0
697	0	2051	0	3405	0	4759	1	6113	1	7467	0

698	0	2052	1	3406	1	4760	0	6114	1	7468	1
699	0	2053	0	3407	0	4761	0	6115	1	7469	0
700	0	2054	1	3408	1	4762	0	6116	0	7470	0
701	1	2055	0	3409	1	4763	1	6117	1	7471	0
702	0	2056	0	3410	0	4764	0	6118	0	7472	1
703	0	2057	0	3411	0	4765	0	6119	0	7473	1
704	1	2058	1	3412	1	4766	0	6120	0	7474	0
705	0	2059	0	3413	1	4767	0	6121	0	7475	1
706	1	2060	0	3414	0	4768	0	6122	0	7476	1
707	0	2061	1	3415	1	4769	1	6123	0	7477	1
708	1	2062	0	3416	1	4770	0	6124	0	7478	0
709	0	2063	1	3417	0	4771	0	6125	0	7479	1
710	1	2064	1	3418	0	4772	0	6126	0	7480	0
711	0	2065	0	3419	1	4773	1	6127	1	7481	1
712	1	2066	0	3420	0	4774	0	6128	1	7482	1
713	0	2067	1	3421	0	4775	0	6129	1	7483	1
714	0	2068	0	3422	1	4776	0	6130	1	7484	0
715	1	2069	1	3423	1	4777	1	6131	1	7485	0
716	0	2070	1	3424	1	4778	0	6132	1	7486	1
717	1	2071	0	3425	1	4779	1	6133	0	7487	0
718	0	2072	0	3426	0	4780	0	6134	1	7488	0
719	0	2073	1	3427	1	4781	1	6135	0	7489	0
720	1	2074	0	3428	1	4782	1	6136	0	7490	1
721	1	2075	1	3429	0	4783	1	6137	1	7491	0
722	0	2076	1	3430	1	4784	0	6138	1	7492	0
723	1	2077	1	3431	0	4785	1	6139	1	7493	0
724	0	2078	1	3432	1	4786	0	6140	1	7494	0
725	1	2079	1	3433	0	4787	0	6141	1	7495	0
726	0	2080	1	3434	1	4788	1	6142	1	7496	1
727	0	2081	0	3435	0	4789	0	6143	1	7497	1
728	1	2082	0	3436	1	4790	1	6144	1	7498	1
729	0	2083	0	3437	1	4791	1	6145	0	7499	1
730	1	2084	1	3438	1	4792	0	6146	0	7500	0
731	1	2085	0	3439	1	4793	0	6147	0	7501	1
732	0	2086	0	3440	0	4794	1	6148	0	7502	0
733	0	2087	0	3441	0	4795	1	6149	0	7503	1
734	1	2088	1	3442	1	4796	0	6150	0	7504	0
735	0	2089	1	3443	1	4797	1	6151	0	7505	0
736	1	2090	0	3444	0	4798	0	6152	0	7506	1
737	0	2091	1	3445	0	4799	0	6153	1	7507	1
738	1	2092	1	3446	1	4800	0	6154	1	7508	0
739	1	2093	0	3447	1	4801	0	6155	1	7509	1
740	0	2094	1	3448	0	4802	1	6156	1	7510	1
741	1	2095	0	3449	1	4803	0	6157	1	7511	1

742	1	2096	0	3450	1	4804	1	6158	1	7512	0
743	1	2097	1	3451	0	4805	1	6159	0	7513	1
744	1	2098	1	3452	0	4806	1	6160	0	7514	0
745	1	2099	1	3453	0	4807	0	6161	0	7515	1
746	0	2100	1	3454	0	4808	1	6162	0	7516	1
747	1	2101	0	3455	0	4809	1	6163	1	7517	1
748	0	2102	1	3456	0	4810	0	6164	0	7518	0
749	0	2103	1	3457	0	4811	1	6165	1	7519	1
750	1	2104	0	3458	1	4812	0	6166	0	7520	1
751	1	2105	0	3459	0	4813	1	6167	1	7521	0
752	0	2106	0	3460	1	4814	0	6168	0	7522	1
753	0	2107	1	3461	1	4815	0	6169	0	7523	0
754	0	2108	1	3462	1	4816	0	6170	1	7524	0
755	1	2109	0	3463	1	4817	1	6171	0	7525	1
756	1	2110	0	3464	0	4818	1	6172	0	7526	1
757	0	2111	0	3465	0	4819	1	6173	0	7527	0
758	0	2112	0	3466	1	4820	1	6174	0	7528	1
759	1	2113	1	3467	0	4821	0	6175	0	7529	1
760	1	2114	0	3468	0	4822	0	6176	1	7530	0
761	0	2115	0	3469	0	4823	1	6177	0	7531	0
762	0	2116	0	3470	1	4824	0	6178	1	7532	1
763	1	2117	0	3471	0	4825	0	6179	0	7533	1
764	1	2118	1	3472	0	4826	1	6180	1	7534	0
765	1	2119	1	3473	0	4827	1	6181	0	7535	1
766	0	2120	1	3474	1	4828	0	6182	0	7536	1
767	1	2121	1	3475	0	4829	0	6183	1	7537	1
768	1	2122	0	3476	1	4830	1	6184	0	7538	0
769	0	2123	0	3477	1	4831	0	6185	1	7539	1
770	1	2124	0	3478	1	4832	1	6186	1	7540	1
771	1	2125	1	3479	1	4833	1	6187	1	7541	0
772	1	2126	1	3480	0	4834	0	6188	1	7542	1
773	0	2127	1	3481	1	4835	1	6189	1	7543	1
774	1	2128	1	3482	0	4836	1	6190	0	7544	1
775	0	2129	1	3483	1	4837	0	6191	1	7545	1
776	0	2130	1	3484	1	4838	0	6192	0	7546	0
777	0	2131	0	3485	0	4839	1	6193	1	7547	0
778	0	2132	0	3486	1	4840	0	6194	0	7548	0
779	0	2133	1	3487	0	4841	0	6195	1	7549	0
780	0	2134	1	3488	0	4842	1	6196	0	7550	1
781	0	2135	1	3489	1	4843	1	6197	0	7551	1
782	0	2136	0	3490	0	4844	0	6198	0	7552	1
783	0	2137	0	3491	0	4845	1	6199	0	7553	1
784	0	2138	1	3492	0	4846	1	6200	1	7554	0
785	0	2139	1	3493	1	4847	0	6201	0	7555	0

786	1	2140	0	3494	0	4848	0	6202	0	7556	1
787	0	2141	0	3495	1	4849	0	6203	0	7557	1
788	1	2142	0	3496	0	4850	1	6204	0	7558	1
789	1	2143	0	3497	0	4851	1	6205	1	7559	0
790	0	2144	0	3498	0	4852	1	6206	0	7560	0
791	0	2145	0	3499	1	4853	1	6207	0	7561	0
792	1	2146	1	3500	1	4854	0	6208	0	7562	1
793	0	2147	0	3501	0	4855	0	6209	1	7563	0
794	1	2148	1	3502	1	4856	0	6210	1	7564	0
795	1	2149	1	3503	1	4857	1	6211	1	7565	0
796	0	2150	1	3504	0	4858	0	6212	1	7566	0
797	0	2151	0	3505	0	4859	0	6213	1	7567	1
798	1	2152	0	3506	0	4860	1	6214	0	7568	1
799	1	2153	1	3507	0	4861	0	6215	1	7569	0
800	1	2154	1	3508	1	4862	1	6216	0	7570	0
801	0	2155	1	3509	0	4863	1	6217	1	7571	1
802	0	2156	0	3510	0	4864	0	6218	0	7572	0
803	0	2157	0	3511	0	4865	0	6219	0	7573	1
804	0	2158	1	3512	0	4866	1	6220	0	7574	0
805	0	2159	1	3513	0	4867	0	6221	1	7575	1
806	0	2160	1	3514	1	4868	0	6222	0	7576	0
807	1	2161	0	3515	0	4869	0	6223	0	7577	0
808	0	2162	1	3516	1	4870	1	6224	1	7578	1
809	1	2163	0	3517	1	4871	1	6225	1	7579	0
810	0	2164	1	3518	0	4872	0	6226	1	7580	1
811	1	2165	1	3519	0	4873	0	6227	0	7581	1
812	0	2166	0	3520	0	4874	1	6228	0	7582	0
813	1	2167	1	3521	0	4875	1	6229	0	7583	0
814	1	2168	1	3522	0	4876	0	6230	0	7584	1
815	1	2169	0	3523	0	4877	0	6231	1	7585	0
816	0	2170	0	3524	0	4878	1	6232	1	7586	1
817	0	2171	1	3525	1	4879	1	6233	1	7587	1
818	0	2172	1	3526	1	4880	0	6234	0	7588	0
819	0	2173	1	3527	0	4881	0	6235	1	7589	1
820	0	2174	1	3528	1	4882	1	6236	0	7590	0
821	0	2175	1	3529	0	4883	1	6237	1	7591	1
822	0	2176	1	3530	1	4884	1	6238	0	7592	0
823	0	2177	1	3531	0	4885	0	6239	1	7593	0
824	0	2178	1	3532	1	4886	0	6240	0	7594	1
825	0	2179	1	3533	1	4887	0	6241	0	7595	0
826	0	2180	1	3534	0	4888	1	6242	0	7596	1
827	0	2181	1	3535	1	4889	1	6243	0	7597	0
828	0	2182	0	3536	1	4890	1	6244	1	7598	0
829	0	2183	1	3537	1	4891	0	6245	1	7599	1

830	1	2184	0	3538	1	4892	0	6246	1	7600	0
831	0	2185	0	3539	0	4893	0	6247	0	7601	1
832	1	2186	1	3540	0	4894	0	6248	0	7602	1
833	0	2187	0	3541	1	4895	1	6249	0	7603	0
834	0	2188	1	3542	0	4896	0	6250	1	7604	0
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837	1	2191	1	3545	1	4899	0	6253	1	7607	1
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843	1	2197	0	3551	0	4905	1	6259	1	7613	1
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847	0	2201	1	3555	1	4909	1	6263	0	7617	1
848	0	2202	0	3556	1	4910	1	6264	0	7618	0
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851	1	2205	0	3559	0	4913	0	6267	1	7621	0
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853	1	2207	0	3561	1	4915	1	6269	0	7623	1
854	1	2208	1	3562	1	4916	0	6270	0	7624	1
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857	1	2211	1	3565	1	4919	0	6273	0	7627	0
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869	1	2223	1	3577	1	4931	1	6285	0	7639	1
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886	0	2240	0	3594	1	4948	0	6302	0	7656	0
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888	1	2242	1	3596	1	4950	0	6304	1	7658	1
889	1	2243	1	3597	0	4951	1	6305	0	7659	1
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901	0	2255	0	3609	1	4963	1	6317	0	7671	0
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938	0	2292	0	3646	1	5000	1	6354	0	7708	0
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949	1	2303	0	3657	0	5011	1	6365	1	7719	0
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965	1	2319	0	3673	1	5027	1	6381	1	7735	0
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968	1	2322	1	3676	1	5030	1	6384	1	7738	0
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