

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

$$p_0(z) = z^{21} + z^{20} + z^{19} + z^{18} + z^{17} + z^{14} + z^{12} + z^9 + z^5 + z^4 + z + 1,$$

$$p_1(z) = z^{26} + z^{24} + z^{23} + z^{20} + z^{17} + z^{14} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z$$

,

$$p_2(z) = z^{28} + z^{18} + z^{16} + z^{14} + z^{12} + z^6 + z^4 + z^2,$$

$$p_3(z) = z^{26} + z^{24} + z^{23} + z^{20} + z^{17} + z^{14} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z$$

,

$$p_4(z) = z^{24} + z^{21} + z^{19} + z^{17} + z^{12} + z^9 + z^8 + z^6 + z^5 + z^2 + z,$$

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

$$p_0(z) = z^{21} + z^{19} + z^{18} + z^{17} + z^{16} + z^{14} + z^9 + z^5 + z,$$

$$p_1(z) = z^{26} + z^{24} + z^{23} + z^{20} + z^{17} + z^{14} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z$$

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$$p_2(z) = z^{28} + z^{18} + z^{16} + z^{14} + z^{12} + z^6 + z^4 + z^2,$$

$$p_3(z) = z^{26} + z^{24} + z^{23} + z^{20} + z^{17} + z^{14} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z$$

,

$$p_4(z) = z^{24} + z^{21} + z^{20} + z^{19} + z^{17} + z^{16} + z^9 + z^8 + z^6 + z^5 + z^4 + z^2 + z + 1.$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

$$(175, 175, 175, 175, 175)$$

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

is an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We use Padé-Hermite approximation to find a candidate for the minimal polynomial of $W_{0,0}^o M_{0,0}^o$, that will be called $\phi_0(x, y)$. To prove that $\phi_0(x, y)$ is indeed the minimal polynomial, it suffices to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and that $Q(x, y) := P(x, y)/\phi_0(x, y)^m$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We verify the first point directly. For the second point, we truncate $W_{0,0}^o M_{0,0}^o$ to order 630 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 630, which proves that $Q(x, y)$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We find the minimal polynomial $\phi_1(x, y)$ of $W_{0,1}^o M_{1,0}^o$ in a similar way.

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

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

is an annihilating of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. We verify that $\phi(M^e, 0, 0)$ is an irreducible factor of $S(x, y)$ of multiplicity μ , and that $Q(x, y) := S(x, y)/\phi(M^e, 0, 0)^\mu$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. To see the last point, we truncate $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$ to order 770 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 770, and therefore $Q(x, y)$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$.

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

Define

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

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

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

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

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

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

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

$$\begin{aligned}
T[:14u] &= T[:7u] + x^uT[:6u] + x^{4u}T[:3u] + x^{6u}T[:u] + x^uT[:7u] + x^{2u}T[:6u] \\
& + x^{5u}T[:3u] + x^{7u}T[:u] + x^{2u}T[:7u] + x^{3u}T[:6u] + x^{6u}T[:3u] \\
& + x^{8u}T[:u] + x^{3u}T[:7u] + x^{4u}T[:6u] + x^{7u}T[:3u] + x^{9u}T[:u]
\end{aligned}$$

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

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

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

which can be rewritten as

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

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

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

$$(2.19) \quad \begin{aligned} 0 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] \\ &\quad + T[[110w]_2] + T[[1100w]_2], \end{aligned}$$

$$(2.20) \quad \begin{aligned} 0 &= T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[110w]_2] \\ &\quad + T[[1101w]_2], \end{aligned}$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 10749 states; its transition function and output function can be found in the annex. Let $A(s, w)$ denote the state reached after reading w from right to left starting from the state s , and τ the output function. Define

$$E_{2k} = \{A(i, w) : |w| = 2k, w \neq 0^{2k}\}.$$

Identities (2.7) through (2.20) can be written as

$$(2.21) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 110)) + \tau(A(s, 111)),$$

$$(2.22) \quad \begin{aligned} 0 &= \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 110)) + \tau(A(s, 1000)), \end{aligned}$$

$$(2.23) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 110)) + \tau(A(s, 1001)), \end{aligned}$$

$$(2.24) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.25) \quad \begin{aligned} 0 &= \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 110)) + \tau(A(s, 1011)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \end{aligned}$$

$$(2.26) \quad \begin{aligned} &\quad + \tau(A(s, 110)) + \tau(A(s, 1100)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) \end{aligned}$$

$$(2.27) \quad \quad + \tau(A(s, 110)) + \tau(A(s, 1101)),$$

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

$$(2.28) \quad \begin{aligned} 0 &= \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 110)) + \tau(A(s, 111)), \\ 0 &= \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \end{aligned}$$

$$(2.29) \quad \begin{aligned} &\quad + \tau(A(s, 110)) + \tau(A(s, 1000)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \end{aligned}$$

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

$$(2.31) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.32) \quad \begin{aligned} 0 &= \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 110)) + \tau(A(s, 1011)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \end{aligned}$$

$$(2.33) \quad \begin{aligned} &\quad + \tau(A(s, 110)) + \tau(A(s, 1100)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) \end{aligned}$$

$$(2.34) \quad \quad + \tau(A(s, 110)) + \tau(A(s, 1101)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{74}), E_{74}) = (A(i, 0^{26}), E_{26})$, so that we only have to verify that identities (2.21) through (2.34) hold for $2 \leq k \leq 37$, which turns out to be true. $\square$

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

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

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

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

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

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

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

We give the proof of

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

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

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

Call this expression *lhs*. Note that both sides of identity M_{2k+1} have the same term of highest degree $x^{14v} R^o$. Therefore we only need to prove that their difference is $O(x^{14v})$. Using Lemma 2.1 it can be seen that the right side of identity M_{2k+1} is congruent, modulo x^{14v} , to

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

For all $n \leq 14$, replace the occurrences of $W^e[:n \cdot v]$ and $M^e[:n \cdot v]$ in the above expression by the reduction modulo $x^{n \cdot v}$ of the right side of the corresponding identity in Lemma 2.2 and get a new expression, which we call *rhs*. Define

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

Using the notation introduced above, we can represent the expressions *lhs* (2.35) and *rhs* as polynomials in $\mathbb{F}_2[a_1, \dots, a_{14}, b_1, \dots, b_{14}, c][X]$. Note that it is not a problem that a_j commutes with b_k while W^e does not commute with M^e , because in the expressions concerned, the products of W^e -terms and M^e -terms are always in the same order. We let the computer do the simplification and check that the difference between these two polynomials is indeed $O(X^{14})$, which completes the proof. $\square$

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

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

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

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

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

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

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

Define

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

where

$$\begin{aligned}q_0(x) &= x^{28} + x^{27} + x^{24} + x^{23} + x^{19} + x^{16} + x^{14} + x^{11} + x^{10} + x^9 + x^8 + x^7, \\ q_1(x) &= x^{27} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{19} + x^{17} + x^{14} + x^{11} + x^8 + x^5 \\ &\quad + x^4 + x^2, \\ q_2(x) &= x^{26} + x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^{10} + 1, \\ q_3(x) &= x^{27} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{19} + x^{17} + x^{14} + x^{11} + x^8 + x^5 \\ &\quad + x^4 + x^2, \\ q_4(x) &= x^{27} + x^{26} + x^{23} + x^{22} + x^{20} + x^{19} + x^{16} + x^{11} + x^9 + x^7 + x^4.\end{aligned}$$

The polynomial $Q(x, y)$ is the candidate for the minimal polynomial of $f(x)$ found by Padé-Hermite approximation. To prove that it is indeed the minimal polynomial of $f(x)$, we only need to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and $R(x, y) := P(x, y)/Q(x, y)^m$ is not an annihilating polynomial of $f(x)$. We verify the first point directly. For the second point, we find that when we truncate $f(x)$ to order 216, and substitute it for y in $R(z, y)$, we get a series with valuation smaller than 216, which proves that $R(z, y)$ is not an annihilating polynomial of $f(x)$. Finally, $z^{12}Q(1/z, y)$ is the minimal polynomial of $\text{CF}(a, b) = f(1/z)$. $\square$

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$p_0(x) = x^{138} + x^{134} + x^{128} + x^{120} + x^{112} + x^{104} + x^{102} + x^{82} + x^{76} + x^{74}$$

$$\begin{aligned}
& + x^{70} + x^{66} + x^{64} + x^{56} + x^{54} + x^{48} + x^{44} + x^{40} + x^{34} + x^{32} + x^{28} \\
& + x^{26} + x^{24}, \\
p_3(x) &= x^{130} + x^{128} + x^{126} + x^{118} + x^{116} + x^{112} + x^{110} + x^{106} + x^{104} + x^{100} \\
& + x^{94} + x^{88} + x^{86} + x^{84} + x^{80} + x^{78} + x^{72} + x^{66} + x^{62} + x^{58} + x^{56} \\
& + x^{52} + x^{48} + x^{44} + x^{40} + x^{36} + x^{30} + x^{16}, \\
p_6(x) &= x^{134} + x^{128} + x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{96} + x^{92} \\
& + x^{88} + x^{86} + x^{80} + x^{76} + x^{74} + x^{66} + x^{62} + x^{58} + x^{56} + x^{54} + x^{48} \\
& + x^{44} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{22} + x^2 + 1, \\
p_9(x) &= x^{136} + x^{132} + x^{124} + x^{122} + x^{120} + x^{116} + x^{106} + x^{102} + x^{100} + x^{98} \\
& + x^{96} + x^{90} + x^{86} + x^{84} + x^{82} + x^{80} + x^{76} + x^{72} + x^{66} + x^{62} + x^{58} \\
& + x^{54} + x^{52} + x^{50} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} + x^{30} + x^{28} + x^{26} \\
& + x^{24} + x^{22} + x^{20} + x^{18} + x^{12} + x^8 + x^6 + x^4, \\
p_{12}(x) &= x^{136} + x^{134} + x^{132} + x^{130} + x^{128} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} \\
& + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^8 + x^6 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{146} + x^{145} + x^{144} + x^{142} + x^{141} + x^{139} + x^{138} + x^{135} + x^{134} \\
& + x^{133} + x^{132} + x^{129} + x^{128} + x^{127} + x^{124} + x^{123} + x^{121} + x^{118} \\
& + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{101} + x^{96} + x^{95} + x^{92} + x^{90} + x^{89} + x^{88} \\
& + x^{87} + x^{86} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} + x^{72} + x^{71} + x^{70} \\
& + x^{69} + x^{68} + x^{65} + x^{62} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} \\
& + x^{46} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{36} + x^{35} + x^{33}, \\
p_3(x) &= x^{145} + x^{144} + x^{143} + x^{140} + x^{139} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} \\
& + x^{128} + x^{127} + x^{126} + x^{123} + x^{122} + x^{120} + x^{116} + x^{112} + x^{108} \\
& + x^{105} + x^{103} + x^{99} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} \\
& + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{69} + x^{67} + x^{63} \\
& + x^{61} + x^{57} + x^{54} + x^{52} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} \\
& + x^{41} + x^{40} + x^{37} + x^{36} + x^{35} + x^{32} + x^{31} + x^{29} + x^{28} + x^{23} + x^{22} \\
& + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{144} + x^{143} + x^{139} + x^{137} + x^{133} + x^{131} + x^{130} + x^{129} + x^{128} + x^{116} \\
& + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{105} \\
& + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{96} + x^{93} + x^{92} + x^{90} + x^{89} \\
& + x^{86} + x^{84} + x^{82} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{69} \\
& + x^{68} + x^{67} + x^{65} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{44} + x^{43}
\end{aligned}$$

$$\begin{aligned}
& + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{17} + x^{13} + x^{12}, \\
p_9(x) = & x^{143} + x^{142} + x^{141} + x^{139} + x^{137} + x^{136} + x^{135} + x^{134} + x^{132} + x^{131} \\
& + x^{130} + x^{125} + x^{124} + x^{122} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} \\
& + x^{112} + x^{108} + x^{107} + x^{106} + x^{103} + x^{102} + x^{100} + x^{97} + x^{94} + x^{93} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{83} + x^{82} + x^{65} + x^{64} + x^{62} \\
& + x^{59} + x^{56} + x^{54} + x^{53} + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} + x^{37} + x^{34} \\
& + x^{33} + x^{28} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{20} + x^{18} + x^{16} + x^{14} \\
& + x^{13} + x^8 + x^7 + x^6, \\
p_{12}(x) = & x^{142} + x^{141} + x^{138} + x^{136} + x^{133} + x^{132} + x^{122} + x^{121} + x^{118} + x^{116} \\
& + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{104} + x^{101} + x^{100} + x^{94} + x^{93} \\
& + x^{89} + x^{88} + x^{86} + x^{85} + x^{81} + x^{80} + x^{78} + x^{77} + x^{73} + x^{72} + x^{70} \\
& + x^{69} + x^{65} + x^{64} + x^{62} + x^{61} + x^{57} + x^{56} + x^{54} + x^{53} + x^{49} + x^{48} \\
& + x^{46} + x^{45} + x^{41} + x^{40} + x^{38} + x^{37} + x^{33} + x^{32} + x^{30} + x^{29} + x^{25} \\
& + x^{24} + x^{22} + x^{21} + x^{17} + x^{16} + x^{10} + x^9 + x^6 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{146} + x^{145} + x^{144} + x^{142} + x^{141} + x^{139} + x^{138} + x^{135} + x^{134} \\
& + x^{133} + x^{132} + x^{129} + x^{128} + x^{127} + x^{124} + x^{123} + x^{121} + x^{118} \\
& + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{101} + x^{96} + x^{95} + x^{92} + x^{90} + x^{89} + x^{88} \\
& + x^{87} + x^{86} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} + x^{72} + x^{71} + x^{70} \\
& + x^{69} + x^{68} + x^{65} + x^{62} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} \\
& + x^{46} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{36} + x^{35} + x^{33}, \\
p_3(x) = & x^{145} + x^{144} + x^{143} + x^{140} + x^{139} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} \\
& + x^{128} + x^{127} + x^{126} + x^{123} + x^{122} + x^{120} + x^{116} + x^{112} + x^{108} \\
& + x^{105} + x^{103} + x^{99} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} \\
& + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{69} + x^{67} + x^{63} \\
& + x^{61} + x^{57} + x^{54} + x^{52} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} \\
& + x^{41} + x^{40} + x^{37} + x^{36} + x^{35} + x^{32} + x^{31} + x^{29} + x^{28} + x^{23} + x^{22} \\
& + x^{20} + x^{19} + x^{18}, \\
p_6(x) = & x^{144} + x^{143} + x^{139} + x^{137} + x^{133} + x^{131} + x^{130} + x^{129} + x^{128} + x^{116} \\
& + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{105} \\
& + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{96} + x^{93} + x^{92} + x^{90} + x^{89} \\
& + x^{86} + x^{84} + x^{82} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{69}
\end{aligned}$$

$$\begin{aligned}
& + x^{68} + x^{67} + x^{65} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{44} + x^{43} \\
& + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{17} + x^{13} + x^{12}, \\
p_9(x) = & x^{143} + x^{142} + x^{141} + x^{139} + x^{137} + x^{136} + x^{135} + x^{134} + x^{132} + x^{131} \\
& + x^{130} + x^{125} + x^{124} + x^{122} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} \\
& + x^{112} + x^{108} + x^{107} + x^{106} + x^{103} + x^{102} + x^{100} + x^{97} + x^{94} + x^{93} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{83} + x^{82} + x^{65} + x^{64} + x^{62} \\
& + x^{59} + x^{56} + x^{54} + x^{53} + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} + x^{37} + x^{34} \\
& + x^{33} + x^{28} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{20} + x^{18} + x^{16} + x^{14} \\
& + x^{13} + x^8 + x^7 + x^6, \\
p_{12}(x) = & x^{142} + x^{141} + x^{138} + x^{136} + x^{133} + x^{132} + x^{122} + x^{121} + x^{118} + x^{116} \\
& + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{104} + x^{101} + x^{100} + x^{94} + x^{93} \\
& + x^{89} + x^{88} + x^{86} + x^{85} + x^{81} + x^{80} + x^{78} + x^{77} + x^{73} + x^{72} + x^{70} \\
& + x^{69} + x^{65} + x^{64} + x^{62} + x^{61} + x^{57} + x^{56} + x^{54} + x^{53} + x^{49} + x^{48} \\
& + x^{46} + x^{45} + x^{41} + x^{40} + x^{38} + x^{37} + x^{33} + x^{32} + x^{30} + x^{29} + x^{25} \\
& + x^{24} + x^{22} + x^{21} + x^{17} + x^{16} + x^{10} + x^9 + x^6 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{156} + x^{154} + x^{140} + x^{132} + x^{130} + x^{128} + x^{124} + x^{122} + x^{120} + x^{114} \\
& + x^{108} + x^{106} + x^{102} + x^{100} + x^{94} + x^{92} + x^{88} + x^{86} + x^{84} + x^{82} \\
& + x^{80} + x^{78} + x^{68} + x^{66} + x^{58} + x^{56} + x^{50} + x^{48} + x^{46} + x^{44} + x^{42}, \\
p_3(x) = & x^{150} + x^{144} + x^{136} + x^{134} + x^{132} + x^{130} + x^{128} + x^{122} + x^{120} + x^{114} \\
& + x^{112} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} + x^{90} + x^{84} \\
& + x^{82} + x^{72} + x^{62} + x^{60} + x^{58} + x^{52} + x^{50} + x^{48} + x^{44} + x^{34} + x^{28} \\
& + x^{26} + x^{24} + x^{20} + x^{16} + x^{12}, \\
p_6(x) = & x^{150} + x^{148} + x^{146} + x^{140} + x^{138} + x^{136} + x^{134} + x^{132} + x^{128} + x^{124} \\
& + x^{122} + x^{120} + x^{114} + x^{112} + x^{108} + x^{106} + x^{102} + x^{100} + x^{94} + x^{92} \\
& + x^{90} + x^{88} + x^{84} + x^{82} + x^{80} + x^{74} + x^{64} + x^{62} + x^{56} + x^{50} + x^{48} \\
& + x^{32} + x^{24} + x^{20} + x^{18} + x^{10} + x^8 + 1, \\
p_9(x) = & x^{148} + x^{146} + x^{138} + x^{128} + x^{120} + x^{116} + x^{112} + x^{110} + x^{106} + x^{98} \\
& + x^{96} + x^{94} + x^{92} + x^{90} + x^{86} + x^{80} + x^{78} + x^{74} + x^{64} + x^{62} + x^{60} \\
& + x^{48} + x^{46} + x^{40} + x^{38} + x^{34} + x^{30} + x^{22} + x^{14} + x^{10} + x^8 + x^4, \\
p_{12}(x) = & x^{148} + x^{144} + x^{140} + x^{136} + x^{132} + x^{128} + x^{124} + x^{120} + x^{108} + x^{104} \\
& + x^{84} + x^{80} + x^{68} + x^{64} + x^{52} + x^{48} + x^{36} + x^{32} + x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{156} + x^{154} + x^{152} + x^{148} + x^{146} + x^{142} + x^{138} + x^{136} + x^{134} + x^{132} \\
&\quad + x^{128} + x^{126} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{104} \\
&\quad + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} \\
&\quad + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{58} + x^{50} + x^{44} + x^{32} + x^{30} \\
&\quad + x^{28} + x^{24}, \\
p_3(x) &= x^{150} + x^{146} + x^{144} + x^{142} + x^{140} + x^{134} + x^{124} + x^{122} + x^{114} + x^{112} \\
&\quad + x^{102} + x^{96} + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{62} + x^{58} \\
&\quad + x^{54} + x^{52} + x^{48} + x^{46} + x^{34} + x^{32} + x^{26} + x^{24} + x^{22} + x^{18} + x^{16}, \\
p_6(x) &= x^{150} + x^{148} + x^{144} + x^{142} + x^{140} + x^{138} + x^{134} + x^{132} + x^{130} + x^{124} \\
&\quad + x^{122} + x^{114} + x^{108} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} \\
&\quad + x^{88} + x^{86} + x^{84} + x^{82} + x^{74} + x^{62} + x^{56} + x^{54} + x^{48} + x^{46} + x^{22} \\
&\quad + x^{20} + x^{10} + 1, \\
p_9(x) &= x^{148} + x^{146} + x^{138} + x^{128} + x^{120} + x^{116} + x^{112} + x^{110} + x^{106} + x^{98} \\
&\quad + x^{96} + x^{94} + x^{92} + x^{90} + x^{86} + x^{80} + x^{78} + x^{74} + x^{64} + x^{62} + x^{60} \\
&\quad + x^{48} + x^{46} + x^{40} + x^{38} + x^{34} + x^{30} + x^{22} + x^{14} + x^{10} + x^8 + x^4, \\
p_{12}(x) &= x^{148} + x^{144} + x^{140} + x^{136} + x^{132} + x^{128} + x^{124} + x^{120} + x^{108} + x^{104} \\
&\quad + x^{84} + x^{80} + x^{68} + x^{64} + x^{52} + x^{48} + x^{36} + x^{32} + x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{145} + x^{144} + x^{141} + x^{140} + x^{138} + x^{136} + x^{135} + x^{134} + x^{131} \\
&\quad + x^{129} + x^{126} + x^{121} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{111} \\
&\quad + x^{109} + x^{103} + x^{102} + x^{97} + x^{96} + x^{89} + x^{88} + x^{87} + x^{84} + x^{82} + x^{77} \\
&\quad + x^{76} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{60} + x^{55} \\
&\quad + x^{54} + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{36} \\
&\quad + x^{35} + x^{34} + x^{33}, \\
p_3(x) &= x^{145} + x^{144} + x^{143} + x^{140} + x^{139} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} \\
&\quad + x^{128} + x^{127} + x^{126} + x^{123} + x^{122} + x^{120} + x^{116} + x^{112} + x^{108} \\
&\quad + x^{105} + x^{103} + x^{99} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} \\
&\quad + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{69} + x^{67} + x^{63} \\
&\quad + x^{61} + x^{57} + x^{54} + x^{52} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} \\
&\quad + x^{41} + x^{40} + x^{37} + x^{36} + x^{35} + x^{32} + x^{31} + x^{29} + x^{28} + x^{23} + x^{22} \\
&\quad + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{144} + x^{143} + x^{139} + x^{137} + x^{133} + x^{131} + x^{130} + x^{129} + x^{128} + x^{116} \\
&\quad + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{105}
\end{aligned}$$

$$\begin{aligned}
& + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{96} + x^{93} + x^{92} + x^{90} + x^{89} \\
& + x^{86} + x^{84} + x^{82} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{69} \\
& + x^{68} + x^{67} + x^{65} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{44} + x^{43} \\
& + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{17} + x^{13} + x^{12}, \\
p_9(x) = & x^{143} + x^{142} + x^{141} + x^{139} + x^{137} + x^{136} + x^{135} + x^{134} + x^{132} + x^{131} \\
& + x^{130} + x^{125} + x^{124} + x^{122} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} \\
& + x^{112} + x^{108} + x^{107} + x^{106} + x^{103} + x^{102} + x^{100} + x^{97} + x^{94} + x^{93} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{83} + x^{82} + x^{65} + x^{64} + x^{62} \\
& + x^{59} + x^{56} + x^{54} + x^{53} + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} + x^{37} + x^{34} \\
& + x^{33} + x^{28} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{20} + x^{18} + x^{16} + x^{14} \\
& + x^{13} + x^8 + x^7 + x^6, \\
p_{12}(x) = & x^{142} + x^{141} + x^{138} + x^{136} + x^{133} + x^{132} + x^{122} + x^{121} + x^{118} + x^{116} \\
& + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{104} + x^{101} + x^{100} + x^{94} + x^{93} \\
& + x^{89} + x^{88} + x^{86} + x^{85} + x^{81} + x^{80} + x^{78} + x^{77} + x^{73} + x^{72} + x^{70} \\
& + x^{69} + x^{65} + x^{64} + x^{62} + x^{61} + x^{57} + x^{56} + x^{54} + x^{53} + x^{49} + x^{48} \\
& + x^{46} + x^{45} + x^{41} + x^{40} + x^{38} + x^{37} + x^{33} + x^{32} + x^{30} + x^{29} + x^{25} \\
& + x^{24} + x^{22} + x^{21} + x^{17} + x^{16} + x^{10} + x^9 + x^6 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{145} + x^{144} + x^{141} + x^{140} + x^{138} + x^{136} + x^{135} + x^{134} + x^{131} \\
& + x^{129} + x^{126} + x^{121} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{111} \\
& + x^{109} + x^{103} + x^{102} + x^{97} + x^{96} + x^{89} + x^{88} + x^{87} + x^{84} + x^{82} + x^{77} \\
& + x^{76} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{60} + x^{55} \\
& + x^{54} + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{36} \\
& + x^{35} + x^{34} + x^{33}, \\
p_3(x) = & x^{145} + x^{144} + x^{143} + x^{140} + x^{139} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} \\
& + x^{128} + x^{127} + x^{126} + x^{123} + x^{122} + x^{120} + x^{116} + x^{112} + x^{108} \\
& + x^{105} + x^{103} + x^{99} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} \\
& + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{69} + x^{67} + x^{63} \\
& + x^{61} + x^{57} + x^{54} + x^{52} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} \\
& + x^{41} + x^{40} + x^{37} + x^{36} + x^{35} + x^{32} + x^{31} + x^{29} + x^{28} + x^{23} + x^{22} \\
& + x^{20} + x^{19} + x^{18}, \\
p_6(x) = & x^{144} + x^{143} + x^{139} + x^{137} + x^{133} + x^{131} + x^{130} + x^{129} + x^{128} + x^{116} \\
& + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{105}
\end{aligned}$$

$$\begin{aligned}
& + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{96} + x^{93} + x^{92} + x^{90} + x^{89} \\
& + x^{86} + x^{84} + x^{82} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{69} \\
& + x^{68} + x^{67} + x^{65} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{44} + x^{43} \\
& + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{17} + x^{13} + x^{12}, \\
p_9(x) = & x^{143} + x^{142} + x^{141} + x^{139} + x^{137} + x^{136} + x^{135} + x^{134} + x^{132} + x^{131} \\
& + x^{130} + x^{125} + x^{124} + x^{122} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} \\
& + x^{112} + x^{108} + x^{107} + x^{106} + x^{103} + x^{102} + x^{100} + x^{97} + x^{94} + x^{93} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{83} + x^{82} + x^{65} + x^{64} + x^{62} \\
& + x^{59} + x^{56} + x^{54} + x^{53} + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} + x^{37} + x^{34} \\
& + x^{33} + x^{28} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{20} + x^{18} + x^{16} + x^{14} \\
& + x^{13} + x^8 + x^7 + x^6, \\
p_{12}(x) = & x^{142} + x^{141} + x^{138} + x^{136} + x^{133} + x^{132} + x^{122} + x^{121} + x^{118} + x^{116} \\
& + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{104} + x^{101} + x^{100} + x^{94} + x^{93} \\
& + x^{89} + x^{88} + x^{86} + x^{85} + x^{81} + x^{80} + x^{78} + x^{77} + x^{73} + x^{72} + x^{70} \\
& + x^{69} + x^{65} + x^{64} + x^{62} + x^{61} + x^{57} + x^{56} + x^{54} + x^{53} + x^{49} + x^{48} \\
& + x^{46} + x^{45} + x^{41} + x^{40} + x^{38} + x^{37} + x^{33} + x^{32} + x^{30} + x^{29} + x^{25} \\
& + x^{24} + x^{22} + x^{21} + x^{17} + x^{16} + x^{10} + x^9 + x^6 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{136} + x^{134} + x^{132} + x^{130} + x^{122} + x^{120} + x^{118} + x^{116} + x^{108} \\
& + x^{106} + x^{100} + x^{94} + x^{92} + x^{82} + x^{80} + x^{78} + x^{74} + x^{64} + x^{62} + x^{60} \\
& + x^{58} + x^{56} + x^{54} + x^{48} + x^{44} + x^{42}, \\
p_3(x) = & x^{134} + x^{132} + x^{128} + x^{116} + x^{114} + x^{112} + x^{108} + x^{102} + x^{100} + x^{98} \\
& + x^{92} + x^{88} + x^{78} + x^{74} + x^{72} + x^{70} + x^{66} + x^{56} + x^{52} + x^{50} + x^{48} \\
& + x^{46} + x^{44} + x^{42} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{22} + x^{18} + x^{16} \\
& + x^{14} + x^{12}, \\
p_6(x) = & x^{122} + x^{120} + x^{114} + x^{112} + x^{108} + x^{106} + x^{104} + x^{100} + x^{96} + x^{92} \\
& + x^{90} + x^{82} + x^{58} + x^{56} + x^{50} + x^{48} + x^{44} + x^{32} + x^{26} + x^{24} + x^{10} \\
& + x^8 + x^2 + 1, \\
p_9(x) = & x^{136} + x^{132} + x^{124} + x^{122} + x^{120} + x^{116} + x^{106} + x^{102} + x^{100} + x^{98} \\
& + x^{96} + x^{90} + x^{86} + x^{84} + x^{82} + x^{80} + x^{76} + x^{72} + x^{66} + x^{62} + x^{58} \\
& + x^{54} + x^{52} + x^{50} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} + x^{30} + x^{28} + x^{26} \\
& + x^{24} + x^{22} + x^{20} + x^{18} + x^{12} + x^8 + x^6 + x^4, \\
p_{12}(x) = & x^{136} + x^{134} + x^{132} + x^{130} + x^{128} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112}
\end{aligned}$$

$$+ x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^8 + x^6 + x^4 + x^2 + 1,$$

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

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

$$\begin{aligned} p_0(x) = & x^{147} + x^{146} + x^{144} + x^{140} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} \\ & + x^{131} + x^{129} + x^{128} + x^{125} + x^{123} + x^{121} + x^{117} + x^{114} + x^{112} \\ & + x^{109} + x^{104} + x^{103} + x^{101} + x^{98} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} \\ & + x^{88} + x^{84} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} + x^{73} + x^{72} + x^{71} \\ & + x^{68} + x^{66} + x^{65} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{52} + x^{51} + x^{50} \\ & + x^{49} + x^{46} + x^{43} + x^{41} + x^{34} + x^{33} + x^{32} + x^{29} + x^{25} + x^{24}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{146} + x^{144} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{135} + x^{132} + x^{131} \\ & + x^{129} + x^{127} + x^{126} + x^{125} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} \\ & + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{101} \\ & + x^{99} + x^{97} + x^{95} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{82} + x^{76} + x^{73} \\ & + x^{72} + x^{68} + x^{67} + x^{63} + x^{62} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} \\ & + x^{50} + x^{48} + x^{44} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{31} + x^{28} + x^{26} \\ & + x^{21} + x^{17} + x^{16}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{146} + x^{144} + x^{141} + x^{139} + x^{137} + x^{136} + x^{134} + x^{132} + x^{130} + x^{129} \\ & + x^{126} + x^{124} + x^{120} + x^{119} + x^{118} + x^{116} + x^{114} + x^{109} + x^{108} \\ & + x^{107} + x^{106} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{94} + x^{92} \\ & + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{81} + x^{79} + x^{78} + x^{75} + x^{70} \\ & + x^{69} + x^{68} + x^{65} + x^{63} + x^{62} + x^{59} + x^{57} + x^{54} + x^{50} + x^{49} + x^{45} \\ & + x^{43} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{31} + x^{29} + x^{28} \\ & + x^{27} + x^{25} + x^{23} + x^{22} + x^{18} + x^{17} + x^{16} + x^{13} + x^{10} + x^8 + x^6 + x^4 \\ & + x + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{146} + x^{145} + x^{142} + x^{140} + x^{137} + x^{136} + x^{134} + x^{133} + x^{130} + x^{128} \\ & + x^{126} + x^{124} + x^{121} + x^{120} + x^{114} + x^{113} + x^{110} + x^{108} + x^{105} \\ & + x^{104} + x^{102} + x^{101} + x^{97} + x^{96} + x^{86} + x^{85} + x^{81} + x^{80} + x^{70} + x^{69} \\ & + x^{65} + x^{64} + x^{54} + x^{53} + x^{49} + x^{48} + x^{38} + x^{37} + x^{33} + x^{32} + x^{22} \\ & + x^{21} + x^{18} + x^{16} + x^{14} + x^{12} + x^9 + x^8, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{146} + x^{145} + x^{141} + x^{140} + x^{138} + x^{137} + x^{134} + x^{132} + x^{130} + x^{128} \\ & + x^{126} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{109} \\ & + x^{108} + x^{106} + x^{105} + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{89} \\ & + x^{88} + x^{78} + x^{77} + x^{73} + x^{72} + x^{62} + x^{61} + x^{57} + x^{56} + x^{46} + x^{45} \\ & + x^{41} + x^{40} + x^{30} + x^{29} + x^{25} + x^{24} + x^{18} + x^{17} + x^{14} + x^{12} + x^{10} \\ & + x^8 + x^6 + x^4 + x + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{160} + x^{157} + x^{154} + x^{152} + x^{149} + x^{146} + x^{145} + x^{143} + x^{142} + x^{138} \\ & + x^{134} + x^{133} + x^{131} + x^{127} + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} \\ & + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{109} \\ & + x^{108} + x^{107} + x^{100} + x^{99} + x^{98} + x^{95} + x^{89} + x^{87} + x^{85} + x^{84} + x^{82} \\ & + x^{79} + x^{76} + x^{73} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} \\ & + x^{61} + x^{58} + x^{57} + x^{56} + x^{54} + x^{52} + x^{51} + x^{50} + x^{45} + x^{39} + x^{37} \\ & + x^{36} + x^{34} + x^{33}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{153} + x^{150} + x^{147} + x^{146} + x^{145} + x^{144} + x^{143} + x^{142} + x^{140} + x^{139} \\ & + x^{138} + x^{135} + x^{133} + x^{132} + x^{131} + x^{126} + x^{125} + x^{120} + x^{118} \\ & + x^{116} + x^{114} + x^{113} + x^{112} + x^{108} + x^{107} + x^{105} + x^{103} + x^{99} + x^{97} \\ & + x^{96} + x^{95} + x^{93} + x^{87} + x^{85} + x^{82} + x^{80} + x^{77} + x^{75} + x^{73} + x^{72} \\ & + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{46} \\ & + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{38} + x^{36} + x^{31} + x^{30} + x^{28} + x^{27} \\ & + x^{24} + x^{21} + x^{20} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{154} + x^{150} + x^{148} + x^{146} + x^{144} + x^{138} + x^{136} + x^{134} + x^{116} + x^{114} \\ & + x^{110} + x^{108} + x^{100} + x^{96} + x^{94} + x^{92} + x^{84} + x^{82} + x^{78} + x^{74} + x^{70} \\ & + x^{66} + x^{64} + x^{60} + x^{54} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} + x^{38} + x^{32} \\ & + x^{28} + x^{18} + x^{16} + x^{12}, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{155} + x^{152} + x^{148} + x^{145} + x^{141} + x^{136} + x^{135} + x^{134} + x^{130} + x^{126} \\ & + x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{118} + x^{116} + x^{113} + x^{109} \\ & + x^{107} + x^{103} + x^{102} + x^{100} + x^{98} + x^{97} + x^{94} + x^{92} + x^{91} + x^{90} \\ & + x^{89} + x^{88} + x^{87} + x^{84} + x^{82} + x^{81} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} \\ & + x^{72} + x^{71} + x^{68} + x^{66} + x^{65} + x^{62} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} \\ & + x^{55} + x^{52} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} \\ & + x^{36} + x^{34} + x^{33} + x^{30} + x^{28} + x^{26} + x^{25} + x^{23} + x^{18} + x^{14} + x^{13} \\ & + x^{12} + x^{10} + x^9 + x^8 + x^6, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{156} + x^{152} + x^{144} + x^{132} + x^{128} + x^{124} + x^{108} + x^{104} + x^{100} + x^{92} \\ & + x^{84} + x^{80} + x^{76} + x^{68} + x^{64} + x^{60} + x^{52} + x^{48} + x^{44} + x^{36} + x^{32} \\ & + x^{24} + x^{20} + x^8 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{146} + x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{137} + x^{136} \\ & + x^{135} + x^{134} + x^{133} + x^{132} + x^{129} + x^{126} + x^{120} + x^{119} + x^{117} \end{aligned}$$

$$\begin{aligned}
& + x^{116} + x^{113} + x^{111} + x^{108} + x^{105} + x^{104} + x^{101} + x^{100} + x^{94} + x^{87} \\
& + x^{82} + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{71} + x^{70} + x^{67} + x^{65} + x^{64} \\
& + x^{63} + x^{62} + x^{61} + x^{60} + x^{53} + x^{52} + x^{51} + x^{50} + x^{45} + x^{44} + x^{39} \\
& + x^{38} + x^{37} + x^{35} + x^{33}, \\
p_3(x) &= x^{145} + x^{142} + x^{141} + x^{139} + x^{136} + x^{134} + x^{131} + x^{129} + x^{126} + x^{125} \\
& + x^{124} + x^{122} + x^{105} + x^{102} + x^{101} + x^{99} + x^{96} + x^{94} + x^{91} + x^{84} \\
& + x^{83} + x^{82} + x^{81} + x^{80} + x^{77} + x^{72} + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{40} \\
& + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} \\
& + x^{21} + x^{20} + x^{18}, \\
p_6(x) &= x^{146} + x^{140} + x^{138} + x^{134} + x^{130} + x^{128} + x^{118} + x^{116} + x^{110} + x^{106} \\
& + x^{104} + x^{98} + x^{96} + x^{88} + x^{82} + x^{80} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} \\
& + x^{54} + x^{46} + x^{42} + x^{32} + x^{30} + x^{26} + x^{22} + x^{18} + x^{12}, \\
p_9(x) &= x^{147} + x^{144} + x^{143} + x^{139} + x^{137} + x^{135} + x^{126} + x^{121} + x^{120} + x^{118} \\
& + x^{115} + x^{112} + x^{111} + x^{107} + x^{105} + x^{103} + x^{99} + x^{96} + x^{95} + x^{94} \\
& + x^{91} + x^{88} + x^{87} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} \\
& + x^{70} + x^{67} + x^{64} + x^{63} + x^{62} + x^{59} + x^{56} + x^{55} + x^{54} + x^{51} + x^{48} \\
& + x^{47} + x^{46} + x^{43} + x^{40} + x^{39} + x^{38} + x^{35} + x^{32} + x^{31} + x^{30} + x^{27} \\
& + x^{24} + x^{23} + x^{22} + x^{14} + x^9 + x^8 + x^6, \\
p_{12}(x) &= x^{148} + x^{136} + x^{112} + x^{104} + x^{100} + x^{88} + x^{80} + x^{72} + x^{64} + x^{56} + x^{48} \\
& + x^{40} + x^{32} + x^{24} + x^{20} + x^{16} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{142} + x^{138} + x^{137} + x^{136} + x^{135} + x^{133} + x^{131} + x^{129} + x^{128} \\
& + x^{127} + x^{126} + x^{124} + x^{123} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} \\
& + x^{113} + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{101} \\
& + x^{100} + x^{98} + x^{97} + x^{95} + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{86} \\
& + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{73} + x^{69} + x^{59} \\
& + x^{56} + x^{54} + x^{51} + x^{50} + x^{46} + x^{45} + x^{42}, \\
p_3(x) &= x^{146} + x^{143} + x^{142} + x^{141} + x^{139} + x^{136} + x^{135} + x^{134} + x^{132} + x^{127} \\
& + x^{126} + x^{124} + x^{117} + x^{115} + x^{113} + x^{104} + x^{103} + x^{99} + x^{96} + x^{95} \\
& + x^{92} + x^{91} + x^{90} + x^{88} + x^{85} + x^{79} + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} \\
& + x^{68} + x^{65} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} \\
& + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} + x^{38} \\
& + x^{37} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{22},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{146} + x^{143} + x^{142} + x^{137} + x^{134} + x^{133} + x^{132} + x^{131} + x^{128} + x^{125} \\
& + x^{124} + x^{121} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{100} + x^{98} + x^{96} + x^{94} \\
& + x^{93} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{83} + x^{77} + x^{71} + x^{70} + x^{67} \\
& + x^{66} + x^{65} + x^{63} + x^{61} + x^{60} + x^{56} + x^{55} + x^{54} + x^{53} + x^{49} + x^{48} \\
& + x^{41} + x^{38} + x^{35} + x^{34} + x^{31} + x^{30} + x^{23} + x^{19} + x^{17} + x^{16} + x^{14} \\
& + x^{10} + x^9 + x^6 + x^4 + x + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{146} + x^{145} + x^{142} + x^{140} + x^{137} + x^{136} + x^{134} + x^{133} + x^{130} + x^{128} \\
& + x^{126} + x^{124} + x^{121} + x^{120} + x^{114} + x^{113} + x^{110} + x^{108} + x^{105} \\
& + x^{104} + x^{102} + x^{101} + x^{97} + x^{96} + x^{86} + x^{85} + x^{81} + x^{80} + x^{70} + x^{69} \\
& + x^{65} + x^{64} + x^{54} + x^{53} + x^{49} + x^{48} + x^{38} + x^{37} + x^{33} + x^{32} + x^{22} \\
& + x^{21} + x^{18} + x^{16} + x^{14} + x^{12} + x^9 + x^8,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{146} + x^{145} + x^{141} + x^{140} + x^{138} + x^{137} + x^{134} + x^{132} + x^{130} + x^{128} \\
& + x^{126} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{109} \\
& + x^{108} + x^{106} + x^{105} + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{89} \\
& + x^{88} + x^{78} + x^{77} + x^{73} + x^{72} + x^{62} + x^{61} + x^{57} + x^{56} + x^{46} + x^{45} \\
& + x^{41} + x^{40} + x^{30} + x^{29} + x^{25} + x^{24} + x^{18} + x^{17} + x^{14} + x^{12} + x^{10} \\
& + x^8 + x^6 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{146} + x^{144} + x^{140} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} \\
& + x^{131} + x^{129} + x^{128} + x^{125} + x^{123} + x^{121} + x^{117} + x^{114} + x^{112} \\
& + x^{109} + x^{104} + x^{103} + x^{101} + x^{98} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} \\
& + x^{88} + x^{84} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} + x^{73} + x^{72} + x^{71} \\
& + x^{68} + x^{66} + x^{65} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{52} + x^{51} + x^{50} \\
& + x^{49} + x^{46} + x^{43} + x^{41} + x^{34} + x^{33} + x^{32} + x^{29} + x^{25} + x^{24},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{146} + x^{144} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{135} + x^{132} + x^{131} \\
& + x^{129} + x^{127} + x^{126} + x^{125} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} \\
& + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{101} \\
& + x^{99} + x^{97} + x^{95} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{82} + x^{76} + x^{73} \\
& + x^{72} + x^{68} + x^{67} + x^{63} + x^{62} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} \\
& + x^{50} + x^{48} + x^{44} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{31} + x^{28} + x^{26} \\
& + x^{21} + x^{17} + x^{16},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{146} + x^{144} + x^{141} + x^{139} + x^{137} + x^{136} + x^{134} + x^{132} + x^{130} + x^{129} \\
& + x^{126} + x^{124} + x^{120} + x^{119} + x^{118} + x^{116} + x^{114} + x^{109} + x^{108}
\end{aligned}$$

$$\begin{aligned}
& + x^{107} + x^{106} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{94} + x^{92} \\
& + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{81} + x^{79} + x^{78} + x^{75} + x^{70} \\
& + x^{69} + x^{68} + x^{65} + x^{63} + x^{62} + x^{59} + x^{57} + x^{54} + x^{50} + x^{49} + x^{45} \\
& + x^{43} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{31} + x^{29} + x^{28} \\
& + x^{27} + x^{25} + x^{23} + x^{22} + x^{18} + x^{17} + x^{16} + x^{13} + x^{10} + x^8 + x^6 + x^4 \\
& + x + 1, \\
p_9(x) &= x^{146} + x^{145} + x^{142} + x^{140} + x^{137} + x^{136} + x^{134} + x^{133} + x^{130} + x^{128} \\
& + x^{126} + x^{124} + x^{121} + x^{120} + x^{114} + x^{113} + x^{110} + x^{108} + x^{105} \\
& + x^{104} + x^{102} + x^{101} + x^{97} + x^{96} + x^{86} + x^{85} + x^{81} + x^{80} + x^{70} + x^{69} \\
& + x^{65} + x^{64} + x^{54} + x^{53} + x^{49} + x^{48} + x^{38} + x^{37} + x^{33} + x^{32} + x^{22} \\
& + x^{21} + x^{18} + x^{16} + x^{14} + x^{12} + x^9 + x^8, \\
p_{12}(x) &= x^{146} + x^{145} + x^{141} + x^{140} + x^{138} + x^{137} + x^{134} + x^{132} + x^{130} + x^{128} \\
& + x^{126} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{109} \\
& + x^{108} + x^{106} + x^{105} + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{89} \\
& + x^{88} + x^{78} + x^{77} + x^{73} + x^{72} + x^{62} + x^{61} + x^{57} + x^{56} + x^{46} + x^{45} \\
& + x^{41} + x^{40} + x^{30} + x^{29} + x^{25} + x^{24} + x^{18} + x^{17} + x^{14} + x^{12} + x^{10} \\
& + x^8 + x^6 + x^4 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{146} + x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{137} + x^{136} \\
& + x^{135} + x^{134} + x^{133} + x^{132} + x^{129} + x^{126} + x^{120} + x^{119} + x^{117} \\
& + x^{116} + x^{113} + x^{111} + x^{108} + x^{105} + x^{104} + x^{101} + x^{100} + x^{94} + x^{87} \\
& + x^{82} + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{71} + x^{70} + x^{67} + x^{65} + x^{64} \\
& + x^{63} + x^{62} + x^{61} + x^{60} + x^{53} + x^{52} + x^{51} + x^{50} + x^{45} + x^{44} + x^{39} \\
& + x^{38} + x^{37} + x^{35} + x^{33}, \\
p_3(x) &= x^{145} + x^{142} + x^{141} + x^{139} + x^{136} + x^{134} + x^{131} + x^{129} + x^{126} + x^{125} \\
& + x^{124} + x^{122} + x^{105} + x^{102} + x^{101} + x^{99} + x^{96} + x^{94} + x^{91} + x^{84} \\
& + x^{83} + x^{82} + x^{81} + x^{80} + x^{77} + x^{72} + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{40} \\
& + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} \\
& + x^{21} + x^{20} + x^{18}, \\
p_6(x) &= x^{146} + x^{140} + x^{138} + x^{134} + x^{130} + x^{128} + x^{118} + x^{116} + x^{110} + x^{106} \\
& + x^{104} + x^{98} + x^{96} + x^{88} + x^{82} + x^{80} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} \\
& + x^{54} + x^{46} + x^{42} + x^{32} + x^{30} + x^{26} + x^{22} + x^{18} + x^{12}, \\
p_9(x) &= x^{147} + x^{144} + x^{143} + x^{139} + x^{137} + x^{135} + x^{126} + x^{121} + x^{120} + x^{118}
\end{aligned}$$

$$\begin{aligned}
& + x^{115} + x^{112} + x^{111} + x^{107} + x^{105} + x^{103} + x^{99} + x^{96} + x^{95} + x^{94} \\
& + x^{91} + x^{88} + x^{87} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} \\
& + x^{70} + x^{67} + x^{64} + x^{63} + x^{62} + x^{59} + x^{56} + x^{55} + x^{54} + x^{51} + x^{48} \\
& + x^{47} + x^{46} + x^{43} + x^{40} + x^{39} + x^{38} + x^{35} + x^{32} + x^{31} + x^{30} + x^{27} \\
& + x^{24} + x^{23} + x^{22} + x^{14} + x^9 + x^8 + x^6, \\
p_{12}(x) = & x^{148} + x^{136} + x^{112} + x^{104} + x^{100} + x^{88} + x^{80} + x^{72} + x^{64} + x^{56} + x^{48} \\
& + x^{40} + x^{32} + x^{24} + x^{20} + x^{16} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{160} + x^{157} + x^{154} + x^{152} + x^{149} + x^{146} + x^{145} + x^{143} + x^{142} + x^{138} \\
& + x^{134} + x^{133} + x^{131} + x^{127} + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} \\
& + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{109} \\
& + x^{108} + x^{107} + x^{100} + x^{99} + x^{98} + x^{95} + x^{89} + x^{87} + x^{85} + x^{84} + x^{82} \\
& + x^{79} + x^{76} + x^{73} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} \\
& + x^{61} + x^{58} + x^{57} + x^{56} + x^{54} + x^{52} + x^{51} + x^{50} + x^{45} + x^{39} + x^{37} \\
& + x^{36} + x^{34} + x^{33}, \\
p_3(x) = & x^{153} + x^{150} + x^{147} + x^{146} + x^{145} + x^{144} + x^{143} + x^{142} + x^{140} + x^{139} \\
& + x^{138} + x^{135} + x^{133} + x^{132} + x^{131} + x^{126} + x^{125} + x^{120} + x^{118} \\
& + x^{116} + x^{114} + x^{113} + x^{112} + x^{108} + x^{107} + x^{105} + x^{103} + x^{99} + x^{97} \\
& + x^{96} + x^{95} + x^{93} + x^{87} + x^{85} + x^{82} + x^{80} + x^{77} + x^{75} + x^{73} + x^{72} \\
& + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{46} \\
& + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{38} + x^{36} + x^{31} + x^{30} + x^{28} + x^{27} \\
& + x^{24} + x^{21} + x^{20} + x^{18}, \\
p_6(x) = & x^{154} + x^{150} + x^{148} + x^{146} + x^{144} + x^{138} + x^{136} + x^{134} + x^{116} + x^{114} \\
& + x^{110} + x^{108} + x^{100} + x^{96} + x^{94} + x^{92} + x^{84} + x^{82} + x^{78} + x^{74} + x^{70} \\
& + x^{66} + x^{64} + x^{60} + x^{54} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} + x^{38} + x^{32} \\
& + x^{28} + x^{18} + x^{16} + x^{12}, \\
p_9(x) = & x^{155} + x^{152} + x^{148} + x^{145} + x^{141} + x^{136} + x^{135} + x^{134} + x^{130} + x^{126} \\
& + x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{118} + x^{116} + x^{113} + x^{109} \\
& + x^{107} + x^{103} + x^{102} + x^{100} + x^{98} + x^{97} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{87} + x^{84} + x^{82} + x^{81} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} \\
& + x^{72} + x^{71} + x^{68} + x^{66} + x^{65} + x^{62} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} \\
& + x^{55} + x^{52} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} \\
& + x^{36} + x^{34} + x^{33} + x^{30} + x^{28} + x^{26} + x^{25} + x^{23} + x^{18} + x^{14} + x^{13} \\
& + x^{12} + x^{10} + x^9 + x^8 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{156} + x^{152} + x^{144} + x^{132} + x^{128} + x^{124} + x^{108} + x^{104} + x^{100} + x^{92} \\
& + x^{84} + x^{80} + x^{76} + x^{68} + x^{64} + x^{60} + x^{52} + x^{48} + x^{44} + x^{36} + x^{32} \\
& + x^{24} + x^{20} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{142} + x^{138} + x^{137} + x^{136} + x^{135} + x^{133} + x^{131} + x^{129} + x^{128} \\
& + x^{127} + x^{126} + x^{124} + x^{123} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} \\
& + x^{113} + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{101} \\
& + x^{100} + x^{98} + x^{97} + x^{95} + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{86} \\
& + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{73} + x^{69} + x^{59} \\
& + x^{56} + x^{54} + x^{51} + x^{50} + x^{46} + x^{45} + x^{42},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{146} + x^{143} + x^{142} + x^{141} + x^{139} + x^{136} + x^{135} + x^{134} + x^{132} + x^{127} \\
& + x^{126} + x^{124} + x^{117} + x^{115} + x^{113} + x^{104} + x^{103} + x^{99} + x^{96} + x^{95} \\
& + x^{92} + x^{91} + x^{90} + x^{88} + x^{85} + x^{79} + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} \\
& + x^{68} + x^{65} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} \\
& + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} + x^{38} \\
& + x^{37} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{22},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{146} + x^{143} + x^{142} + x^{137} + x^{134} + x^{133} + x^{132} + x^{131} + x^{128} + x^{125} \\
& + x^{124} + x^{121} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{100} + x^{98} + x^{96} + x^{94} \\
& + x^{93} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{83} + x^{77} + x^{71} + x^{70} + x^{67} \\
& + x^{66} + x^{65} + x^{63} + x^{61} + x^{60} + x^{56} + x^{55} + x^{54} + x^{53} + x^{49} + x^{48} \\
& + x^{41} + x^{38} + x^{35} + x^{34} + x^{31} + x^{30} + x^{23} + x^{19} + x^{17} + x^{16} + x^{14} \\
& + x^{10} + x^9 + x^6 + x^4 + x + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{146} + x^{145} + x^{142} + x^{140} + x^{137} + x^{136} + x^{134} + x^{133} + x^{130} + x^{128} \\
& + x^{126} + x^{124} + x^{121} + x^{120} + x^{114} + x^{113} + x^{110} + x^{108} + x^{105} \\
& + x^{104} + x^{102} + x^{101} + x^{97} + x^{96} + x^{86} + x^{85} + x^{81} + x^{80} + x^{70} + x^{69} \\
& + x^{65} + x^{64} + x^{54} + x^{53} + x^{49} + x^{48} + x^{38} + x^{37} + x^{33} + x^{32} + x^{22} \\
& + x^{21} + x^{18} + x^{16} + x^{14} + x^{12} + x^9 + x^8,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{146} + x^{145} + x^{141} + x^{140} + x^{138} + x^{137} + x^{134} + x^{132} + x^{130} + x^{128} \\
& + x^{126} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{109} \\
& + x^{108} + x^{106} + x^{105} + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{89} \\
& + x^{88} + x^{78} + x^{77} + x^{73} + x^{72} + x^{62} + x^{61} + x^{57} + x^{56} + x^{46} + x^{45} \\
& + x^{41} + x^{40} + x^{30} + x^{29} + x^{25} + x^{24} + x^{18} + x^{17} + x^{14} + x^{12} + x^{10} \\
& + x^8 + x^6 + x^4 + x + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2688	[4218, 4328]	5376	[7068, 3913]	8064	[1635, 9208]
1	[3, 4]	2689	[4329, 3752]	5377	[7069, 7070]	8065	[9209, 3140]
2	[5, 6]	2690	[4330, 4331]	5378	[7071, 1115]	8066	[9175, 9210]
3	[7, 8]	2691	[4332, 438]	5379	[7072, 3440]	8067	[9211, 9212]
4	[9, 10]	2692	[3, 120]	5380	[1585, 7073]	8068	[4156, 9212]
5	[11, 12]	2693	[4333, 4334]	5381	[7074, 7075]	8069	[1273, 6335]
6	[13, 14]	2694	[4335, 4195]	5382	[7076, 7077]	8070	[9213, 3201]
7	[15, 16]	2695	[4336, 3027]	5383	[7078, 7079]	8071	[9214, 9215]
8	[17, 18]	2696	[4337, 4338]	5384	[7080, 7081]	8072	[3856, 1357]
9	[19, 20]	2697	[4339, 943]	5385	[6755, 7082]	8073	[9216, 9217]
10	[21, 22]	2698	[21, 3160]	5386	[7083, 2815]	8074	[4151, 9218]
11	[23, 24]	2699	[4340, 3225]	5387	[7084, 1283]	8075	[9219, 6107]
12	[25, 26]	2700	[4341, 4342]	5388	[6488, 7085]	8076	[9220, 3787]
13	[27, 28]	2701	[4343, 4344]	5389	[7086, 1333]	8077	[9221, 6024]
14	[29, 30]	2702	[118, 3404]	5390	[7087, 7088]	8078	[9222, 9223]
15	[31, 32]	2703	[1574, 4345]	5391	[7089, 4304]	8079	[1507, 6358]
16	[33, 34]	2704	[4346, 4347]	5392	[1180, 93]	8080	[2854, 9224]
17	[35, 36]	2705	[4348, 4349]	5393	[7090, 7091]	8081	[9225, 9226]
18	[37, 38]	2706	[4154, 4350]	5394	[7092, 1255]	8082	[9227, 4467]
19	[39, 40]	2707	[978, 4351]	5395	[7093, 7094]	8083	[1061, 3879]
20	[41, 42]	2708	[4352, 4353]	5396	[7095, 6432]	8084	[9228, 9229]
21	[43, 44]	2709	[936, 4354]	5397	[7096, 7097]	8085	[472, 6715]
22	[45, 46]	2710	[4355, 1672]	5398	[7098, 6155]	8086	[9230, 4396]
23	[47, 48]	2711	[1389, 3438]	5399	[1584, 7099]	8087	[7674, 9224]
24	[49, 50]	2712	[4356, 4357]	5400	[3709, 7100]	8088	[7594, 1406]
25	[51, 52]	2713	[1271, 4358]	5401	[7101, 7102]	8089	[9231, 4455]
26	[53, 54]	2714	[4359, 435]	5402	[358, 3801]	8090	[9232, 934]
27	[55, 56]	2715	[4360, 4077]	5403	[3483, 7103]	8091	[9233, 7177]
28	[57, 58]	2716	[4361, 3133]	5404	[3422, 4423]	8092	[9234, 4115]
29	[59, 60]	2717	[4362, 4363]	5405	[1382, 3204]	8093	[3698, 2979]
30	[61, 62]	2718	[4364, 2916]	5406	[7104, 7105]	8094	[4422, 4184]
31	[63, 64]	2719	[4365, 3418]	5407	[7106, 6510]	8095	[953, 3418]
32	[65, 66]	2720	[305, 4366]	5408	[7107, 7108]	8096	[9235, 3764]
33	[67, 68]	2721	[4367, 4368]	5409	[7109, 3241]	8097	[9236, 3566]
34	[69, 70]	2722	[3662, 4369]	5410	[7110, 1527]	8098	[6322, 9237]
35	[71, 72]	2723	[4370, 4371]	5411	[6451, 256]	8099	[9238, 7428]
36	[73, 74]	2724	[4372, 4373]	5412	[7030, 7111]	8100	[936, 1171]
37	[75, 76]	2725	[4374, 4375]	5413	[7112, 304]	8101	[1481, 2903]
38	[77, 78]	2726	[4376, 4377]	5414	[6686, 6021]	8102	[9239, 6330]

39	[79, 80]	2727	[4378, 3665]	5415	[6677, 3590]	8103	[9240, 957]
40	[81, 82]	2728	[4379, 1647]	5416	[24, 1237]	8104	[9241, 9242]
41	[83, 84]	2729	[4380, 4381]	5417	[2894, 4140]	8105	[9243, 9244]
42	[85, 86]	2730	[4382, 4383]	5418	[7113, 7114]	8106	[7211, 1024]
43	[87, 88]	2731	[4384, 4385]	5419	[7115, 7116]	8107	[9245, 9246]
44	[89, 90]	2732	[1040, 1034]	5420	[6539, 7117]	8108	[9247, 3091]
45	[91, 92]	2733	[4386, 4387]	5421	[7118, 7119]	8109	[9055, 9248]
46	[93, 94]	2734	[4388, 4389]	5422	[7120, 1280]	8110	[9249, 6074]
47	[95, 96]	2735	[4390, 3578]	5423	[7121, 2835]	8111	[9250, 6003]
48	[97, 98]	2736	[4391, 4392]	5424	[7122, 3735]	8112	[9251, 7037]
49	[99, 100]	2737	[4393, 3002]	5425	[7123, 3214]	8113	[9252, 913]
50	[84, 101]	2738	[4394, 4395]	5426	[7124, 1088]	8114	[9253, 411]
51	[102, 103]	2739	[4396, 4397]	5427	[7125, 6402]	8115	[6591, 9254]
52	[104, 105]	2740	[4398, 252]	5428	[4012, 7126]	8116	[9255, 9256]
53	[106, 107]	2741	[4399, 1357]	5429	[7127, 7128]	8117	[6570, 7065]
54	[30, 108]	2742	[3270, 1358]	5430	[7129, 1333]	8118	[9257, 6090]
55	[109, 110]	2743	[443, 1468]	5431	[6693, 4013]	8119	[3658, 3892]
56	[111, 112]	2744	[4400, 4401]	5432	[7130, 6521]	8120	[9258, 9259]
57	[113, 114]	2745	[4402, 4403]	5433	[7131, 996]	8121	[1450, 2914]
58	[115, 116]	2746	[4404, 4405]	5434	[7132, 3315]	8122	[1333, 4265]
59	[117, 118]	2747	[277, 1385]	5435	[7133, 1510]	8123	[9260, 9261]
60	[119, 120]	2748	[924, 3840]	5436	[7134, 3700]	8124	[9262, 4167]
61	[121, 122]	2749	[4406, 4407]	5437	[7135, 3742]	8125	[7219, 3556]
62	[123, 124]	2750	[4408, 4409]	5438	[7136, 7137]	8126	[1326, 6661]
63	[125, 126]	2751	[4410, 4411]	5439	[7138, 6020]	8127	[9263, 9264]
64	[127, 128]	2752	[4412, 4413]	5440	[7139, 7140]	8128	[6024, 1660]
65	[129, 130]	2753	[4414, 4415]	5441	[7141, 6794]	8129	[1477, 6891]
66	[131, 132]	2754	[3069, 4416]	5442	[7142, 7143]	8130	[9265, 3748]
67	[133, 134]	2755	[4417, 1490]	5443	[7144, 967]	8131	[9266, 3970]
68	[135, 38]	2756	[4418, 4419]	5444	[7145, 3626]	8132	[2828, 9109]
69	[136, 137]	2757	[1016, 4420]	5445	[7146, 3056]	8133	[7056, 3181]
70	[138, 139]	2758	[4421, 1233]	5446	[7147, 7148]	8134	[9267, 9211]
71	[140, 141]	2759	[1193, 4422]	5447	[7149, 7150]	8135	[9268, 4350]
72	[142, 143]	2760	[4423, 4424]	5448	[4376, 7151]	8136	[4124, 9269]
73	[144, 145]	2761	[1125, 4425]	5449	[7152, 7153]	8137	[3622, 1337]
74	[146, 147]	2762	[3105, 1340]	5450	[3977, 7154]	8138	[9270, 9271]
75	[148, 149]	2763	[4426, 4427]	5451	[7155, 3926]	8139	[1036, 7291]
76	[150, 151]	2764	[4428, 4008]	5452	[7156, 7157]	8140	[9272, 963]
77	[152, 153]	2765	[4429, 4430]	5453	[7158, 1075]	8141	[274, 1215]
78	[154, 155]	2766	[4431, 4432]	5454	[3253, 6757]	8142	[4311, 9273]
79	[156, 157]	2767	[4041, 4433]	5455	[7159, 453]	8143	[6600, 9274]
80	[158, 159]	2768	[4434, 4435]	5456	[7099, 7160]	8144	[6127, 3344]
81	[160, 161]	2769	[4436, 4437]	5457	[7161, 3247]	8145	[9275, 4385]
82	[162, 163]	2770	[4438, 4439]	5458	[7162, 1664]	8146	[6153, 9276]

83	[164, 165]	2771	[3540, 4440]	5459	[7163, 7164]	8147	[6105, 3320]
84	[166, 167]	2772	[4441, 3960]	5460	[7165, 3018]	8148	[9277, 3797]
85	[168, 169]	2773	[4442, 4443]	5461	[7166, 6080]	8149	[9278, 1629]
86	[170, 171]	2774	[1594, 1663]	5462	[7167, 1179]	8150	[9279, 6465]
87	[172, 173]	2775	[1321, 4444]	5463	[6512, 7168]	8151	[9280, 1156]
88	[174, 175]	2776	[4445, 4446]	5464	[7169, 3225]	8152	[9281, 2972]
89	[176, 177]	2777	[3794, 2899]	5465	[1271, 4235]	8153	[481, 9282]
90	[178, 179]	2778	[4447, 4166]	5466	[7170, 7171]	8154	[6356, 1179]
91	[180, 181]	2779	[3711, 4128]	5467	[7172, 7173]	8155	[6299, 2860]
92	[182, 183]	2780	[4448, 3955]	5468	[7174, 7175]	8156	[9283, 4015]
93	[184, 185]	2781	[4449, 4450]	5469	[435, 4379]	8157	[9284, 3063]
94	[186, 187]	2782	[4451, 4452]	5470	[7176, 7177]	8158	[9285, 2827]
95	[188, 189]	2783	[4453, 3725]	5471	[7178, 3421]	8159	[6189, 9037]
96	[190, 191]	2784	[4454, 4455]	5472	[3556, 7179]	8160	[6178, 966]
97	[192, 193]	2785	[4456, 4457]	5473	[7180, 3293]	8161	[6859, 353]
98	[194, 195]	2786	[4458, 1661]	5474	[7181, 7182]	8162	[9286, 3237]
99	[196, 197]	2787	[4459, 4342]	5475	[7183, 1573]	8163	[9103, 4132]
100	[198, 199]	2788	[4460, 4461]	5476	[7184, 7185]	8164	[9287, 3936]
101	[200, 201]	2789	[3104, 4462]	5477	[3988, 7186]	8165	[9288, 2939]
102	[202, 203]	2790	[4463, 4464]	5478	[7187, 7188]	8166	[9148, 9289]
103	[204, 205]	2791	[4465, 4466]	5479	[7189, 7190]	8167	[9290, 333]
104	[206, 207]	2792	[317, 4467]	5480	[7191, 3039]	8168	[9291, 6762]
105	[208, 209]	2793	[4468, 1486]	5481	[7192, 6301]	8169	[4430, 111]
106	[210, 211]	2794	[4469, 1252]	5482	[3213, 3728]	8170	[9292, 4154]
107	[212, 213]	2795	[4470, 4471]	5483	[7193, 3737]	8171	[9293, 9294]
108	[60, 214]	2796	[4472, 4473]	5484	[7194, 6271]	8172	[9295, 1449]
109	[215, 216]	2797	[4474, 4475]	5485	[247, 7195]	8173	[7048, 7703]
110	[217, 35]	2798	[3124, 4476]	5486	[7196, 7197]	8174	[7536, 1550]
111	[218, 219]	2799	[692, 2161]	5487	[7198, 357]	8175	[6930, 9296]
112	[220, 221]	2800	[4477, 4478]	5488	[7199, 2820]	8176	[7356, 9297]
113	[222, 223]	2801	[4479, 4480]	5489	[7200, 7201]	8177	[970, 9201]
114	[224, 225]	2802	[4481, 867]	5490	[3868, 1225]	8178	[1517, 3259]
115	[226, 227]	2803	[2090, 4482]	5491	[7202, 7203]	8179	[9238, 9298]
116	[228, 229]	2804	[229, 1926]	5492	[915, 7204]	8180	[3398, 7692]
117	[230, 231]	2805	[4483, 2487]	5493	[7205, 7206]	8181	[7158, 1187]
118	[232, 233]	2806	[4484, 228]	5494	[2867, 6832]	8182	[2825, 9042]
119	[234, 235]	2807	[4485, 4486]	5495	[7207, 7208]	8183	[9299, 7079]
120	[236, 237]	2808	[4487, 1698]	5496	[7209, 4400]	8184	[7282, 9300]
121	[238, 239]	2809	[4488, 4489]	5497	[7210, 7211]	8185	[9301, 3178]
122	[240, 241]	2810	[4490, 154]	5498	[6080, 1004]	8186	[9302, 1041]
123	[242, 243]	2811	[4491, 2556]	5499	[6614, 7212]	8187	[425, 6731]
124	[244, 245]	2812	[4492, 2270]	5500	[7213, 6950]	8188	[9303, 1038]
125	[246, 247]	2813	[4493, 173]	5501	[28, 7214]	8189	[1125, 3948]
126	[248, 249]	2814	[4494, 4495]	5502	[7215, 7216]	8190	[9304, 9305]

127	[250, 251]	2815	[1717, 4496]	5503	[7217, 3584]	8191	[446, 1384]
128	[252, 253]	2816	[4497, 4498]	5504	[7218, 1524]	8192	[9306, 6076]
129	[254, 255]	2817	[4499, 4500]	5505	[7219, 106]	8193	[9307, 7635]
130	[256, 257]	2818	[4501, 4502]	5506	[7220, 1037]	8194	[9164, 9136]
131	[258, 259]	2819	[4503, 4504]	5507	[7221, 7222]	8195	[74, 6005]
132	[260, 261]	2820	[207, 2293]	5508	[7223, 4470]	8196	[9308, 9309]
133	[262, 263]	2821	[4505, 2625]	5509	[7224, 1066]	8197	[7700, 7151]
134	[264, 265]	2822	[758, 1723]	5510	[7225, 7226]	8198	[9006, 3310]
135	[266, 267]	2823	[4506, 2377]	5511	[7227, 6540]	8199	[9310, 9311]
136	[268, 269]	2824	[4507, 4508]	5512	[7228, 7229]	8200	[9011, 4347]
137	[270, 271]	2825	[4509, 703]	5513	[7230, 4219]	8201	[9312, 1095]
138	[272, 273]	2826	[4510, 4511]	5514	[7231, 7232]	8202	[9313, 362]
139	[274, 275]	2827	[4512, 4513]	5515	[7233, 3527]	8203	[9314, 9315]
140	[276, 277]	2828	[4514, 4515]	5516	[7234, 7235]	8204	[1261, 2964]
141	[278, 279]	2829	[1751, 2494]	5517	[7236, 6356]	8205	[9127, 290]
142	[280, 281]	2830	[4516, 2446]	5518	[429, 7237]	8206	[9316, 9242]
143	[282, 283]	2831	[4517, 802]	5519	[7238, 1285]	8207	[9317, 1363]
144	[284, 285]	2832	[4518, 4519]	5520	[7239, 7240]	8208	[3456, 1420]
145	[286, 287]	2833	[4520, 4521]	5521	[7241, 7242]	8209	[6072, 6880]
146	[288, 289]	2834	[4522, 226]	5522	[7243, 7244]	8210	[3018, 1041]
147	[290, 291]	2835	[856, 4523]	5523	[7245, 6315]	8211	[9318, 6838]
148	[292, 293]	2836	[4524, 4487]	5524	[3164, 93]	8212	[9319, 9200]
149	[294, 295]	2837	[4525, 611]	5525	[7246, 2893]	8213	[9320, 6214]
150	[296, 297]	2838	[4526, 1974]	5526	[7247, 7248]	8214	[9321, 1669]
151	[298, 299]	2839	[708, 32]	5527	[6335, 6074]	8215	[1551, 991]
152	[300, 301]	2840	[2614, 4527]	5528	[7249, 1617]	8216	[9322, 6740]
153	[302, 303]	2841	[4528, 4529]	5529	[7250, 7251]	8217	[9323, 9324]
154	[304, 305]	2842	[4530, 2430]	5530	[7252, 6645]	8218	[9325, 6559]
155	[306, 307]	2843	[4531, 758]	5531	[3569, 6054]	8219	[429, 7715]
156	[308, 309]	2844	[4532, 4533]	5532	[7253, 379]	8220	[3146, 2859]
157	[310, 311]	2845	[2071, 4534]	5533	[7254, 7255]	8221	[9326, 3928]
158	[312, 313]	2846	[1929, 1963]	5534	[7256, 3428]	8222	[1340, 9327]
159	[314, 315]	2847	[4535, 894]	5535	[7257, 7258]	8223	[7139, 3608]
160	[316, 317]	2848	[4536, 903]	5536	[6302, 7259]	8224	[2933, 9328]
161	[318, 319]	2849	[4537, 4538]	5537	[7260, 1584]	8225	[9329, 6602]
162	[320, 321]	2850	[2270, 2649]	5538	[7261, 3079]	8226	[9330, 3052]
163	[322, 323]	2851	[4539, 2708]	5539	[7262, 4367]	8227	[7481, 9331]
164	[324, 325]	2852	[4540, 628]	5540	[7263, 911]	8228	[9332, 4136]
165	[326, 327]	2853	[4541, 2200]	5541	[7264, 6477]	8229	[4177, 300]
166	[328, 329]	2854	[2429, 521]	5542	[7265, 7266]	8230	[9333, 3611]
167	[330, 331]	2855	[4542, 898]	5543	[7267, 3088]	8231	[6862, 6112]
168	[332, 333]	2856	[4543, 4544]	5544	[7268, 382]	8232	[9334, 959]
169	[334, 268]	2857	[4545, 4546]	5545	[7269, 7270]	8233	[9335, 9336]
170	[335, 336]	2858	[4547, 4548]	5546	[7271, 7272]	8234	[3418, 4296]

171	[337, 338]	2859	[4549, 4550]	5547	[7273, 7274]	8235	[9337, 3454]
172	[339, 340]	2860	[1756, 2247]	5548	[7275, 3823]	8236	[9338, 9199]
173	[341, 342]	2861	[1851, 2362]	5549	[7276, 6459]	8237	[9339, 3723]
174	[343, 344]	2862	[4551, 4552]	5550	[1590, 7277]	8238	[9340, 8941]
175	[345, 346]	2863	[4553, 2649]	5551	[6895, 7278]	8239	[9341, 4429]
176	[347, 348]	2864	[4554, 4555]	5552	[7279, 1448]	8240	[9342, 1044]
177	[349, 350]	2865	[2400, 2619]	5553	[7280, 7281]	8241	[9343, 6845]
178	[351, 352]	2866	[4556, 735]	5554	[7282, 3220]	8242	[3626, 1520]
179	[353, 354]	2867	[2006, 4557]	5555	[7283, 7284]	8243	[3639, 1554]
180	[355, 356]	2868	[2674, 4558]	5556	[7285, 1523]	8244	[9344, 9345]
181	[357, 358]	2869	[4559, 4560]	5557	[7286, 2907]	8245	[9346, 1129]
182	[359, 360]	2870	[4561, 772]	5558	[7287, 7288]	8246	[9347, 7644]
183	[361, 362]	2871	[4562, 4563]	5559	[4189, 7289]	8247	[9348, 3300]
184	[363, 364]	2872	[4564, 2311]	5560	[6297, 277]	8248	[4128, 6018]
185	[365, 366]	2873	[4565, 2249]	5561	[7290, 7291]	8249	[9349, 6033]
186	[367, 368]	2874	[2053, 788]	5562	[7292, 3832]	8250	[9350, 366]
187	[369, 370]	2875	[2565, 4566]	5563	[7293, 345]	8251	[9351, 6928]
188	[371, 372]	2876	[4567, 4568]	5564	[7294, 1605]	8252	[1392, 3800]
189	[373, 374]	2877	[4569, 152]	5565	[7295, 334]	8253	[4080, 9352]
190	[375, 376]	2878	[4570, 2526]	5566	[7296, 7297]	8254	[9353, 6704]
191	[377, 378]	2879	[2140, 778]	5567	[3189, 1327]	8255	[9046, 1251]
192	[379, 380]	2880	[4571, 1884]	5568	[7298, 7299]	8256	[1522, 446]
193	[381, 382]	2881	[756, 4572]	5569	[4075, 7300]	8257	[9354, 1199]
194	[383, 384]	2882	[4573, 4574]	5570	[7000, 3398]	8258	[7209, 7567]
195	[385, 340]	2883	[4575, 1942]	5571	[7301, 7302]	8259	[9355, 1530]
196	[386, 387]	2884	[4576, 2771]	5572	[7303, 2948]	8260	[1617, 3714]
197	[388, 389]	2885	[4577, 4578]	5573	[7304, 7305]	8261	[4287, 3896]
198	[390, 24]	2886	[2333, 4579]	5574	[7306, 7307]	8262	[9356, 6250]
199	[391, 392]	2887	[4580, 4581]	5575	[7308, 946]	8263	[9075, 395]
200	[393, 394]	2888	[4582, 4583]	5576	[7309, 7310]	8264	[9357, 9358]
201	[395, 396]	2889	[4497, 1937]	5577	[7311, 3211]	8265	[9214, 9324]
202	[397, 398]	2890	[4584, 4585]	5578	[1491, 68]	8266	[9359, 9360]
203	[399, 400]	2891	[622, 1811]	5579	[7312, 6902]	8267	[9361, 1355]
204	[401, 402]	2892	[4586, 797]	5580	[7313, 1558]	8268	[2908, 6119]
205	[403, 404]	2893	[4587, 4588]	5581	[7314, 3342]	8269	[7706, 9362]
206	[405, 406]	2894	[4589, 833]	5582	[7315, 2814]	8270	[6703, 1297]
207	[407, 408]	2895	[4590, 4591]	5583	[7316, 3484]	8271	[2984, 3078]
208	[409, 410]	2896	[4592, 2744]	5584	[7317, 6734]	8272	[3033, 4415]
209	[411, 412]	2897	[1840, 4593]	5585	[7318, 7319]	8273	[9363, 7669]
210	[413, 414]	2898	[4594, 4595]	5586	[921, 7320]	8274	[9364, 7451]
211	[415, 416]	2899	[4596, 4495]	5587	[4213, 3464]	8275	[110, 1096]
212	[417, 418]	2900	[901, 4597]	5588	[7321, 6706]	8276	[2857, 4046]
213	[419, 420]	2901	[4598, 2778]	5589	[7322, 1087]	8277	[9365, 1652]
214	[118, 421]	2902	[4599, 4600]	5590	[7323, 7324]	8278	[6916, 4424]

215	[422, 423]	2903	[2441, 4601]	5591	[7325, 6870]	8279	[3987, 6069]
216	[424, 425]	2904	[4602, 4603]	5592	[7326, 6617]	8280	[9366, 4166]
217	[426, 427]	2905	[4604, 667]	5593	[7327, 7328]	8281	[7386, 9367]
218	[428, 429]	2906	[2202, 4605]	5594	[3720, 965]	8282	[3775, 7082]
219	[430, 431]	2907	[4606, 1953]	5595	[6987, 1190]	8283	[9368, 9369]
220	[432, 433]	2908	[4607, 4608]	5596	[3041, 4398]	8284	[370, 1014]
221	[434, 435]	2909	[4609, 4610]	5597	[7329, 6621]	8285	[9370, 4219]
222	[436, 437]	2910	[520, 2430]	5598	[3736, 7330]	8286	[9371, 9001]
223	[438, 439]	2911	[4611, 4612]	5599	[7331, 956]	8287	[9372, 9373]
224	[440, 441]	2912	[4613, 4558]	5600	[7332, 7333]	8288	[9033, 9374]
225	[442, 443]	2913	[4614, 4615]	5601	[4281, 4368]	8289	[9375, 1169]
226	[444, 445]	2914	[4616, 4617]	5602	[7334, 6707]	8290	[9338, 1434]
227	[446, 447]	2915	[1992, 573]	5603	[7335, 2977]	8291	[9376, 6972]
228	[448, 449]	2916	[4618, 4619]	5604	[7336, 1569]	8292	[9377, 3929]
229	[450, 451]	2917	[1868, 4620]	5605	[1649, 1366]	8293	[9378, 374]
230	[452, 453]	2918	[4621, 4622]	5606	[7337, 7338]	8294	[9379, 1157]
231	[454, 455]	2919	[4623, 4624]	5607	[7339, 7340]	8295	[4047, 9380]
232	[456, 457]	2920	[4625, 1736]	5608	[7341, 6925]	8296	[9381, 1105]
233	[101, 458]	2921	[4626, 4627]	5609	[1083, 6259]	8297	[9382, 3689]
234	[459, 349]	2922	[155, 2720]	5610	[7342, 6561]	8298	[9383, 3415]
235	[460, 461]	2923	[4628, 791]	5611	[7343, 3300]	8299	[9048, 9384]
236	[462, 463]	2924	[4629, 1938]	5612	[4061, 7344]	8300	[9385, 4060]
237	[464, 465]	2925	[4630, 2420]	5613	[7345, 91]	8301	[1400, 7100]
238	[466, 467]	2926	[4631, 4632]	5614	[2997, 7346]	8302	[9386, 9387]
239	[468, 469]	2927	[4633, 716]	5615	[6176, 7347]	8303	[3961, 6968]
240	[470, 471]	2928	[4634, 4635]	5616	[7348, 4159]	8304	[9388, 9389]
241	[472, 473]	2929	[2480, 1777]	5617	[1521, 3869]	8305	[3854, 9390]
242	[474, 475]	2930	[648, 1950]	5618	[7349, 7350]	8306	[7530, 3605]
243	[476, 477]	2931	[2373, 4603]	5619	[6550, 3075]	8307	[9309, 3883]
244	[478, 479]	2932	[681, 2447]	5620	[7351, 7352]	8308	[7133, 9391]
245	[480, 481]	2933	[4517, 4636]	5621	[1423, 7353]	8309	[1486, 6856]
246	[482, 483]	2934	[4637, 4638]	5622	[6466, 7354]	8310	[9392, 3637]
247	[484, 485]	2935	[805, 4589]	5623	[7355, 1626]	8311	[1375, 6978]
248	[486, 487]	2936	[2659, 579]	5624	[3174, 7356]	8312	[6540, 4306]
249	[488, 489]	2937	[4639, 4640]	5625	[7357, 6153]	8313	[9393, 4230]
250	[490, 491]	2938	[4641, 4642]	5626	[7358, 4438]	8314	[9394, 3770]
251	[492, 493]	2939	[4643, 2678]	5627	[7359, 1461]	8315	[9395, 9396]
252	[494, 495]	2940	[4644, 2311]	5628	[7360, 7361]	8316	[9397, 9398]
253	[496, 497]	2941	[4645, 2061]	5629	[7362, 7363]	8317	[9399, 1648]
254	[498, 499]	2942	[4646, 4647]	5630	[7364, 4256]	8318	[9400, 7289]
255	[500, 501]	2943	[4648, 2106]	5631	[3449, 7365]	8319	[6134, 7255]
256	[502, 503]	2944	[4649, 2726]	5632	[7366, 3828]	8320	[9401, 9402]
257	[504, 505]	2945	[2104, 2449]	5633	[3378, 7367]	8321	[9403, 3035]
258	[506, 507]	2946	[4558, 138]	5634	[6743, 3425]	8322	[9293, 9093]

259	[508, 509]	2947	[4560, 2260]	5635	[7368, 3065]	8323	[9404, 1107]
260	[510, 511]	2948	[4650, 4651]	5636	[7369, 1503]	8324	[7537, 990]
261	[512, 513]	2949	[2112, 1800]	5637	[1360, 269]	8325	[1182, 9405]
262	[514, 515]	2950	[4652, 4653]	5638	[7370, 1588]	8326	[6824, 9406]
263	[516, 517]	2951	[615, 2449]	5639	[7371, 3505]	8327	[9147, 1097]
264	[518, 519]	2952	[4654, 4655]	5640	[6222, 17]	8328	[9407, 6860]
265	[520, 521]	2953	[4656, 668]	5641	[7372, 7373]	8329	[9122, 73]
266	[522, 523]	2954	[4657, 4658]	5642	[1143, 2824]	8330	[1614, 4109]
267	[524, 525]	2955	[4659, 2129]	5643	[1541, 1275]	8331	[334, 1360]
268	[511, 526]	2956	[4660, 2327]	5644	[7374, 1626]	8332	[1068, 2987]
269	[527, 152]	2957	[4661, 631]	5645	[7375, 7376]	8333	[9408, 3575]
270	[208, 528]	2958	[4662, 4663]	5646	[7377, 7378]	8334	[9409, 9410]
271	[529, 530]	2959	[4664, 4665]	5647	[3805, 7379]	8335	[9411, 65]
272	[531, 532]	2960	[4666, 4667]	5648	[7380, 4177]	8336	[2962, 2892]
273	[533, 534]	2961	[775, 4668]	5649	[7381, 4432]	8337	[9412, 9413]
274	[535, 536]	2962	[1842, 2500]	5650	[3064, 1030]	8338	[9414, 4202]
275	[537, 538]	2963	[4669, 4670]	5651	[7382, 4162]	8339	[7353, 3743]
276	[539, 540]	2964	[4671, 2335]	5652	[4077, 7383]	8340	[9415, 6714]
277	[541, 542]	2965	[1866, 2156]	5653	[7384, 921]	8341	[9416, 2947]
278	[543, 544]	2966	[4672, 731]	5654	[7326, 7385]	8342	[9417, 9418]
279	[545, 546]	2967	[2394, 4673]	5655	[7386, 6115]	8343	[3644, 3907]
280	[547, 548]	2968	[4674, 4675]	5656	[943, 7004]	8344	[9419, 9420]
281	[549, 550]	2969	[4676, 4677]	5657	[7387, 478]	8345	[9421, 3791]
282	[551, 552]	2970	[4678, 4679]	5658	[7388, 6909]	8346	[8970, 3196]
283	[553, 134]	2971	[4680, 213]	5659	[7389, 7390]	8347	[9422, 6501]
284	[554, 555]	2972	[4681, 4682]	5660	[7391, 2974]	8348	[7164, 336]
285	[556, 557]	2973	[4683, 4684]	5661	[7392, 7393]	8349	[7331, 9240]
286	[558, 559]	2974	[4685, 2367]	5662	[7394, 2907]	8350	[3682, 9423]
287	[560, 561]	2975	[4686, 556]	5663	[7395, 1101]	8351	[9424, 1463]
288	[562, 563]	2976	[4687, 4688]	5664	[4404, 6485]	8352	[9425, 427]
289	[564, 565]	2977	[4689, 4690]	5665	[7396, 3841]	8353	[9426, 9427]
290	[566, 567]	2978	[4691, 4692]	5666	[7397, 7175]	8354	[9428, 2943]
291	[568, 569]	2979	[4693, 4694]	5667	[7398, 4039]	8355	[7723, 3299]
292	[570, 571]	2980	[840, 679]	5668	[7399, 7400]	8356	[9429, 7168]
293	[572, 573]	2981	[2512, 4523]	5669	[7401, 4174]	8357	[7511, 950]
294	[574, 575]	2982	[4695, 143]	5670	[7402, 7403]	8358	[1555, 7099]
295	[576, 577]	2983	[4696, 4697]	5671	[7404, 385]	8359	[9319, 970]
296	[578, 502]	2984	[4698, 234]	5672	[7405, 7406]	8360	[9430, 9431]
297	[579, 580]	2985	[4699, 236]	5673	[7407, 1270]	8361	[9432, 1345]
298	[581, 582]	2986	[4700, 2483]	5674	[7408, 6543]	8362	[9433, 9434]
299	[583, 517]	2987	[4701, 4702]	5675	[7409, 7410]	8363	[9435, 1283]
300	[584, 585]	2988	[1941, 2055]	5676	[7411, 4255]	8364	[9436, 9437]
301	[586, 587]	2989	[4703, 2212]	5677	[1247, 3172]	8365	[3819, 4241]
302	[588, 589]	2990	[4704, 4705]	5678	[7412, 7413]	8366	[9438, 9439]

303	[590, 181]	2991	[655, 2441]	5679	[7414, 6890]	8367	[3099, 9440]
304	[591, 592]	2992	[700, 903]	5680	[7415, 7416]	8368	[9441, 3266]
305	[593, 594]	2993	[2643, 4706]	5681	[7417, 3741]	8369	[3072, 9090]
306	[595, 596]	2994	[4707, 4708]	5682	[7418, 7419]	8370	[8990, 4034]
307	[597, 598]	2995	[4709, 2118]	5683	[7420, 3429]	8371	[7225, 9442]
308	[599, 600]	2996	[4710, 4711]	5684	[344, 7421]	8372	[9443, 6276]
309	[601, 514]	2997	[2554, 2603]	5685	[7422, 6490]	8373	[3464, 7150]
310	[602, 603]	2998	[4712, 902]	5686	[5997, 7423]	8374	[4193, 9444]
311	[604, 567]	2999	[4642, 4713]	5687	[7424, 7277]	8375	[2888, 3241]
312	[605, 606]	3000	[4714, 2174]	5688	[7425, 1520]	8376	[9445, 6361]
313	[607, 608]	3001	[4715, 4716]	5689	[278, 7390]	8377	[7367, 4459]
314	[609, 610]	3002	[4717, 2353]	5690	[7426, 6626]	8378	[4089, 6439]
315	[543, 611]	3003	[2473, 2102]	5691	[7427, 7428]	8379	[1550, 990]
316	[612, 613]	3004	[2404, 4718]	5692	[7429, 3844]	8380	[6381, 376]
317	[614, 615]	3005	[4719, 4720]	5693	[7107, 3661]	8381	[9446, 2928]
318	[616, 617]	3006	[4721, 4722]	5694	[6918, 7430]	8382	[9447, 6286]
319	[618, 619]	3007	[1700, 4723]	5695	[7431, 7432]	8383	[6863, 6232]
320	[620, 621]	3008	[4724, 689]	5696	[7433, 6698]	8384	[7533, 3069]
321	[622, 623]	3009	[1896, 4725]	5697	[3669, 375]	8385	[9448, 999]
322	[624, 625]	3010	[4726, 1942]	5698	[7434, 4412]	8386	[1565, 1489]
323	[626, 627]	3011	[1710, 4727]	5699	[7435, 7436]	8387	[4465, 4055]
324	[628, 629]	3012	[2202, 1888]	5700	[7437, 6582]	8388	[9066, 9449]
325	[630, 631]	3013	[4728, 4729]	5701	[7438, 2908]	8389	[1179, 3164]
326	[632, 633]	3014	[4730, 4731]	5702	[7439, 7440]	8390	[9258, 2922]
327	[634, 568]	3015	[4732, 4733]	5703	[7441, 6149]	8391	[7735, 9450]
328	[497, 635]	3016	[2022, 1726]	5704	[1541, 7442]	8392	[285, 7266]
329	[636, 637]	3017	[4734, 179]	5705	[7443, 3446]	8393	[9451, 9452]
330	[638, 639]	3018	[4735, 2576]	5706	[7444, 7445]	8394	[9007, 6987]
331	[640, 641]	3019	[4736, 1784]	5707	[7446, 2832]	8395	[7615, 2951]
332	[642, 643]	3020	[4737, 4738]	5708	[3616, 1276]	8396	[9453, 3450]
333	[644, 645]	3021	[2507, 2253]	5709	[323, 6469]	8397	[3527, 3691]
334	[646, 647]	3022	[2640, 4739]	5710	[6267, 7447]	8398	[8940, 9454]
335	[648, 649]	3023	[492, 2487]	5711	[7448, 7449]	8399	[9455, 9456]
336	[650, 651]	3024	[4740, 4741]	5712	[4338, 7450]	8400	[4116, 3919]
337	[652, 635]	3025	[2125, 1907]	5713	[7046, 7451]	8401	[9457, 9458]
338	[653, 654]	3026	[4742, 4743]	5714	[7452, 4271]	8402	[9459, 1068]
339	[655, 656]	3027	[4744, 2592]	5715	[6065, 4082]	8403	[4438, 4222]
340	[657, 658]	3028	[4745, 4746]	5716	[282, 7453]	8404	[9130, 276]
341	[659, 660]	3029	[4735, 2215]	5717	[7454, 6965]	8405	[9460, 9461]
342	[661, 662]	3030	[4747, 880]	5718	[7455, 2997]	8406	[4206, 4161]
343	[663, 664]	3031	[125, 2097]	5719	[7456, 7457]	8407	[6566, 3243]
344	[665, 666]	3032	[4748, 886]	5720	[3144, 1327]	8408	[9462, 4075]
345	[667, 656]	3033	[4749, 4750]	5721	[7458, 4079]	8409	[9463, 6932]
346	[221, 668]	3034	[523, 199]	5722	[3571, 1623]	8410	[9464, 9465]

347	[669, 670]	3035	[4751, 4527]	5723	[7459, 3534]	8411	[3951, 6480]
348	[537, 671]	3036	[4752, 4753]	5724	[7460, 7430]	8412	[7580, 2865]
349	[672, 673]	3037	[4754, 44]	5725	[7461, 7346]	8413	[1426, 9083]
350	[674, 675]	3038	[4755, 174]	5726	[7462, 2979]	8414	[9466, 9467]
351	[676, 677]	3039	[2293, 2565]	5727	[7463, 6187]	8415	[9468, 3785]
352	[678, 679]	3040	[1815, 4756]	5728	[3016, 7464]	8416	[9469, 455]
353	[680, 681]	3041	[4757, 4758]	5729	[7465, 1605]	8417	[7098, 7089]
354	[682, 683]	3042	[4759, 2627]	5730	[3286, 7466]	8418	[939, 6606]
355	[684, 685]	3043	[4760, 586]	5731	[7467, 7070]	8419	[9470, 9471]
356	[686, 508]	3044	[4761, 2774]	5732	[7468, 72]	8420	[9472, 9056]
357	[687, 688]	3045	[4762, 4763]	5733	[7469, 3231]	8421	[9473, 4418]
358	[689, 690]	3046	[4764, 1986]	5734	[7470, 7471]	8422	[9474, 1394]
359	[691, 692]	3047	[129, 2284]	5735	[7472, 7473]	8423	[9475, 6205]
360	[693, 694]	3048	[4765, 831]	5736	[7474, 3147]	8424	[1391, 3799]
361	[695, 696]	3049	[4766, 4767]	5737	[7475, 2920]	8425	[9476, 3815]
362	[697, 225]	3050	[4768, 488]	5738	[7476, 7477]	8426	[9477, 7480]
363	[698, 699]	3051	[1767, 4769]	5739	[2951, 2966]	8427	[3141, 998]
364	[700, 494]	3052	[245, 4620]	5740	[7010, 7478]	8428	[9478, 1378]
365	[701, 702]	3053	[2622, 4770]	5741	[7479, 7480]	8429	[9479, 1113]
366	[703, 704]	3054	[4771, 900]	5742	[7481, 462]	8430	[9480, 9481]
367	[705, 706]	3055	[4772, 4589]	5743	[6747, 6456]	8431	[9482, 2867]
368	[707, 708]	3056	[1793, 4773]	5744	[7482, 3848]	8432	[9483, 6161]
369	[709, 710]	3057	[4692, 2645]	5745	[7483, 3914]	8433	[9484, 9485]
370	[711, 712]	3058	[2100, 4774]	5746	[7484, 7226]	8434	[9486, 6049]
371	[713, 714]	3059	[4775, 766]	5747	[3869, 1383]	8435	[9487, 6198]
372	[715, 716]	3060	[4776, 730]	5748	[7485, 287]	8436	[6074, 3755]
373	[717, 718]	3061	[4777, 4778]	5749	[7486, 3484]	8437	[9488, 1102]
374	[719, 720]	3062	[4779, 4780]	5750	[7487, 4000]	8438	[9489, 6466]
375	[721, 722]	3063	[4781, 4782]	5751	[7488, 3336]	8439	[7489, 115]
376	[723, 724]	3064	[2091, 2148]	5752	[7489, 7231]	8440	[7083, 7007]
377	[725, 726]	3065	[4783, 1712]	5753	[7490, 6311]	8441	[9490, 1056]
378	[686, 727]	3066	[4784, 2517]	5754	[2843, 2821]	8442	[963, 475]
379	[728, 729]	3067	[4785, 4711]	5755	[7491, 7492]	8443	[7659, 9127]
380	[730, 731]	3068	[573, 4786]	5756	[7493, 4453]	8444	[4315, 4002]
381	[732, 733]	3069	[4787, 4788]	5757	[7494, 3442]	8445	[7733, 9141]
382	[734, 735]	3070	[4538, 2522]	5758	[2837, 464]	8446	[9491, 1082]
383	[736, 737]	3071	[4789, 49]	5759	[7495, 7496]	8447	[3896, 9492]
384	[738, 739]	3072	[4790, 1747]	5760	[4075, 7497]	8448	[9493, 9494]
385	[740, 741]	3073	[2223, 4585]	5761	[7498, 3779]	8449	[9495, 4244]
386	[742, 743]	3074	[4791, 4792]	5762	[7499, 7500]	8450	[9496, 3015]
387	[744, 745]	3075	[4793, 745]	5763	[7501, 3622]	8451	[921, 9152]
388	[746, 648]	3076	[4794, 4795]	5764	[7502, 415]	8452	[9497, 1109]
389	[747, 748]	3077	[2587, 1691]	5765	[7503, 7504]	8453	[9498, 4236]
390	[749, 750]	3078	[893, 4731]	5766	[7320, 7505]	8454	[9499, 9500]

391	[751, 591]	3079	[4796, 4797]	5767	[3461, 7506]	8455	[4044, 3687]
392	[752, 60]	3080	[4798, 4799]	5768	[7507, 3114]	8456	[7210, 1023]
393	[753, 754]	3081	[2112, 811]	5769	[7508, 4299]	8457	[7595, 1407]
394	[755, 756]	3082	[4800, 2507]	5770	[7509, 1218]	8458	[7264, 419]
395	[757, 758]	3083	[4801, 4802]	5771	[7510, 7511]	8459	[4072, 9501]
396	[759, 760]	3084	[4803, 4688]	5772	[7512, 3110]	8460	[3069, 1388]
397	[761, 762]	3085	[12, 4804]	5773	[7513, 6745]	8461	[4288, 9492]
398	[763, 764]	3086	[4805, 2580]	5774	[6669, 7514]	8462	[7591, 9502]
399	[765, 766]	3087	[1681, 2782]	5775	[7515, 6836]	8463	[6522, 3791]
400	[767, 768]	3088	[4806, 4807]	5776	[7516, 434]	8464	[4230, 3455]
401	[769, 770]	3089	[4808, 144]	5777	[7517, 7013]	8465	[9503, 9504]
402	[771, 772]	3090	[4809, 4810]	5778	[7518, 973]	8466	[1575, 9505]
403	[773, 774]	3091	[4811, 4812]	5779	[7519, 7520]	8467	[6751, 1293]
404	[775, 776]	3092	[2740, 4813]	5780	[7521, 1456]	8468	[7241, 282]
405	[777, 628]	3093	[4814, 4628]	5781	[7522, 1228]	8469	[3204, 3028]
406	[778, 542]	3094	[4815, 675]	5782	[4416, 1192]	8470	[9506, 7241]
407	[779, 780]	3095	[4816, 4531]	5783	[7523, 6945]	8471	[2934, 1048]
408	[781, 782]	3096	[4817, 4818]	5784	[7524, 3698]	8472	[9507, 9508]
409	[781, 783]	3097	[4819, 577]	5785	[7525, 4376]	8473	[1049, 6099]
410	[784, 785]	3098	[4820, 244]	5786	[7526, 3302]	8474	[9509, 3501]
411	[786, 787]	3099	[4821, 873]	5787	[1495, 7527]	8475	[9245, 3309]
412	[788, 54]	3100	[2693, 2357]	5788	[4284, 66]	8476	[3712, 3664]
413	[789, 745]	3101	[2327, 4558]	5789	[6808, 7528]	8477	[9510, 6804]
414	[790, 791]	3102	[4822, 2465]	5790	[1133, 1286]	8478	[6145, 7278]
415	[792, 793]	3103	[4823, 229]	5791	[7529, 2818]	8479	[3248, 4407]
416	[794, 795]	3104	[4824, 4825]	5792	[7530, 7531]	8480	[9511, 9512]
417	[796, 797]	3105	[4826, 4827]	5793	[7532, 967]	8481	[9513, 1332]
418	[798, 799]	3106	[4828, 1945]	5794	[6228, 7533]	8482	[9514, 6711]
419	[800, 683]	3107	[4829, 4830]	5795	[7534, 7535]	8483	[1368, 9097]
420	[801, 802]	3108	[2214, 2021]	5796	[6278, 7128]	8484	[9515, 7088]
421	[231, 803]	3109	[4831, 139]	5797	[7536, 7537]	8485	[9516, 9517]
422	[804, 805]	3110	[4832, 163]	5798	[7538, 6338]	8486	[7392, 3108]
423	[806, 807]	3111	[4833, 4834]	5799	[7539, 3176]	8487	[7406, 3517]
424	[808, 809]	3112	[4835, 900]	5800	[7540, 7541]	8488	[3011, 3672]
425	[810, 811]	3113	[2384, 2103]	5801	[3321, 3517]	8489	[9518, 928]
426	[812, 813]	3114	[4836, 1849]	5802	[7542, 4319]	8490	[9519, 1511]
427	[814, 815]	3115	[4704, 4619]	5803	[7543, 920]	8491	[9520, 4111]
428	[816, 817]	3116	[4837, 626]	5804	[7544, 3206]	8492	[9101, 6436]
429	[818, 767]	3117	[4838, 2774]	5805	[6377, 1541]	8493	[7099, 7073]
430	[819, 820]	3118	[4839, 218]	5806	[1423, 3742]	8494	[9521, 4305]
431	[821, 822]	3119	[766, 532]	5807	[7545, 7546]	8495	[2897, 3329]
432	[823, 824]	3120	[4840, 1972]	5808	[3746, 7547]	8496	[9522, 7274]
433	[825, 826]	3121	[2544, 4690]	5809	[7548, 2811]	8497	[1255, 1460]
434	[827, 822]	3122	[4841, 1839]	5810	[3169, 314]	8498	[2939, 7726]

435	[828, 829]	3123	[754, 4842]	5811	[1175, 272]	8499	[9523, 7197]
436	[830, 831]	3124	[2390, 4843]	5812	[7549, 7550]	8500	[9524, 3424]
437	[832, 833]	3125	[4844, 4845]	5813	[7551, 3527]	8501	[9386, 934]
438	[834, 835]	3126	[4846, 649]	5814	[7552, 1022]	8502	[7181, 7206]
439	[836, 837]	3127	[4847, 4578]	5815	[6044, 1110]	8503	[9525, 3794]
440	[838, 839]	3128	[4546, 4848]	5816	[7553, 6469]	8504	[961, 930]
441	[840, 841]	3129	[4849, 710]	5817	[7554, 1241]	8505	[1639, 9526]
442	[842, 843]	3130	[4850, 2354]	5818	[7555, 4152]	8506	[9527, 9528]
443	[844, 845]	3131	[1862, 1692]	5819	[7556, 7557]	8507	[9492, 7590]
444	[846, 847]	3132	[4851, 4852]	5820	[295, 3277]	8508	[9502, 9529]
445	[848, 849]	3133	[4853, 2226]	5821	[7558, 1342]	8509	[7024, 9254]
446	[850, 851]	3134	[4854, 1815]	5822	[7559, 6192]	8510	[9373, 9530]
447	[155, 852]	3135	[4855, 2452]	5823	[7560, 2848]	8511	[4427, 6750]
448	[853, 854]	3136	[4856, 2657]	5824	[7561, 7562]	8512	[9374, 9389]
449	[855, 856]	3137	[2314, 223]	5825	[7563, 7564]	8513	[4324, 4303]
450	[857, 56]	3138	[4857, 4718]	5826	[7565, 7566]	8514	[9521, 6540]
451	[858, 211]	3139	[743, 4858]	5827	[7567, 6008]	8515	[9531, 3084]
452	[859, 860]	3140	[4750, 46]	5828	[7568, 3512]	8516	[4219, 6380]
453	[496, 652]	3141	[1947, 1826]	5829	[7569, 7570]	8517	[3635, 457]
454	[861, 862]	3142	[4859, 4860]	5830	[7571, 3616]	8518	[6452, 7593]
455	[863, 802]	3143	[4861, 2123]	5831	[7572, 1397]	8519	[9532, 3363]
456	[864, 865]	3144	[4862, 4863]	5832	[7573, 7574]	8520	[9533, 2879]
457	[866, 656]	3145	[4864, 2701]	5833	[7575, 442]	8521	[9534, 4337]
458	[167, 867]	3146	[221, 4865]	5834	[7576, 1571]	8522	[9535, 6973]
459	[868, 869]	3147	[1723, 1845]	5835	[7577, 7578]	8523	[463, 9431]
460	[483, 727]	3148	[4866, 4867]	5836	[7579, 3587]	8524	[7332, 6109]
461	[870, 871]	3149	[4868, 2198]	5837	[3785, 4106]	8525	[3372, 2982]
462	[872, 873]	3150	[4869, 2067]	5838	[7580, 7581]	8526	[9536, 3591]
463	[874, 875]	3151	[4870, 1877]	5839	[7447, 6437]	8527	[1045, 3243]
464	[876, 877]	3152	[4871, 4872]	5840	[4176, 6611]	8528	[7455, 7461]
465	[878, 879]	3153	[4873, 4874]	5841	[7582, 4245]	8529	[9537, 7091]
466	[880, 881]	3154	[4875, 4705]	5842	[1658, 995]	8530	[3274, 7272]
467	[882, 883]	3155	[4876, 4877]	5843	[7583, 7584]	8531	[9538, 1533]
468	[884, 217]	3156	[2708, 694]	5844	[7585, 7586]	8532	[7418, 6189]
469	[885, 886]	3157	[4878, 4879]	5845	[7586, 7587]	8533	[6954, 9539]
470	[887, 888]	3158	[4880, 35]	5846	[7588, 7589]	8534	[9540, 6148]
471	[889, 890]	3159	[2544, 4881]	5847	[7590, 7591]	8535	[2954, 1270]
472	[891, 892]	3160	[4882, 1824]	5848	[7592, 7074]	8536	[7573, 9541]
473	[893, 177]	3161	[4883, 4600]	5849	[256, 7593]	8537	[1011, 7695]
474	[894, 895]	3162	[1715, 2654]	5850	[7594, 7595]	8538	[1489, 3862]
475	[896, 897]	3163	[885, 2150]	5851	[7596, 1075]	8539	[380, 7416]
476	[898, 899]	3164	[4884, 4885]	5852	[81, 6582]	8540	[9542, 1676]
477	[900, 901]	3165	[4886, 4756]	5853	[7597, 7598]	8541	[1439, 7663]
478	[902, 903]	3166	[2011, 2640]	5854	[7599, 4286]	8542	[6806, 4428]

479	[904, 905]	3167	[4887, 4888]	5855	[64, 4184]	8543	[3487, 3571]
480	[906, 518]	3168	[4608, 2055]	5856	[7600, 3109]	8544	[1232, 6657]
481	[649, 907]	3169	[4889, 543]	5857	[7601, 3028]	8545	[5998, 7704]
482	[908, 909]	3170	[2382, 2795]	5858	[4013, 7602]	8546	[9543, 6247]
483	[910, 911]	3171	[907, 2254]	5859	[7603, 7153]	8547	[3759, 3121]
484	[912, 913]	3172	[4890, 4891]	5860	[7604, 7605]	8548	[1302, 7589]
485	[914, 915]	3173	[587, 726]	5861	[7606, 3788]	8549	[9024, 9544]
486	[916, 917]	3174	[4892, 2773]	5862	[7607, 7608]	8550	[9545, 1523]
487	[918, 919]	3175	[4893, 4894]	5863	[7609, 1526]	8551	[9546, 1527]
488	[920, 921]	3176	[4895, 4889]	5864	[1079, 88]	8552	[9547, 1300]
489	[922, 428]	3177	[4896, 2258]	5865	[7610, 2904]	8553	[9548, 4067]
490	[923, 924]	3178	[4897, 4898]	5866	[7611, 7241]	8554	[9549, 4125]
491	[925, 926]	3179	[1973, 4899]	5867	[7612, 430]	8555	[3384, 3131]
492	[927, 71]	3180	[4900, 1965]	5868	[7613, 1436]	8556	[3342, 4367]
493	[928, 929]	3181	[4901, 4862]	5869	[7614, 6067]	8557	[9187, 9550]
494	[930, 931]	3182	[2489, 2290]	5870	[317, 7615]	8558	[6321, 3411]
495	[932, 933]	3183	[4902, 4903]	5871	[925, 1011]	8559	[1282, 3871]
496	[934, 935]	3184	[4904, 690]	5872	[4429, 3163]	8560	[98, 1223]
497	[366, 936]	3185	[4905, 4906]	5873	[7616, 6858]	8561	[9551, 1060]
498	[937, 938]	3186	[4907, 1704]	5874	[6157, 1554]	8562	[9552, 1065]
499	[939, 940]	3187	[4908, 4909]	5875	[7617, 1367]	8563	[9553, 1406]
500	[941, 942]	3188	[4910, 4848]	5876	[7618, 3466]	8564	[1132, 1285]
501	[943, 944]	3189	[4911, 2244]	5877	[7619, 6455]	8565	[9190, 9554]
502	[945, 946]	3190	[509, 4912]	5878	[452, 7620]	8566	[1048, 3678]
503	[435, 947]	3191	[4913, 588]	5879	[6265, 7621]	8567	[9555, 9556]
504	[948, 949]	3192	[4914, 4915]	5880	[6914, 7622]	8568	[7200, 3903]
505	[950, 951]	3193	[4916, 1809]	5881	[7623, 7361]	8569	[9005, 9557]
506	[952, 953]	3194	[4917, 1753]	5882	[7624, 3123]	8570	[9558, 9405]
507	[110, 954]	3195	[4918, 2175]	5883	[6868, 7625]	8571	[9559, 3298]
508	[909, 955]	3196	[4492, 2648]	5884	[7626, 7027]	8572	[9076, 3334]
509	[956, 957]	3197	[4919, 1853]	5885	[7627, 3585]	8573	[3079, 270]
510	[958, 959]	3198	[2524, 4920]	5886	[7628, 7629]	8574	[3421, 6500]
511	[960, 961]	3199	[4921, 4922]	5887	[7630, 4132]	8575	[9560, 9561]
512	[962, 943]	3200	[798, 1794]	5888	[3553, 3633]	8576	[4397, 6093]
513	[963, 964]	3201	[592, 2390]	5889	[1311, 7631]	8577	[16, 6453]
514	[965, 966]	3202	[4923, 4924]	5890	[7632, 1672]	8578	[9562, 4451]
515	[967, 968]	3203	[4925, 2083]	5891	[7633, 6274]	8579	[7082, 7078]
516	[969, 970]	3204	[803, 4735]	5892	[7634, 7635]	8580	[1121, 4165]
517	[971, 972]	3205	[1849, 4926]	5893	[7636, 6401]	8581	[3716, 1191]
518	[249, 973]	3206	[4927, 44]	5894	[1135, 16]	8582	[9445, 9563]
519	[974, 975]	3207	[4928, 2757]	5895	[7637, 1433]	8583	[9564, 1486]
520	[976, 977]	3208	[4929, 4930]	5896	[7638, 298]	8584	[9565, 1049]
521	[978, 979]	3209	[4931, 1891]	5897	[3313, 4077]	8585	[9566, 313]
522	[980, 391]	3210	[4932, 4933]	5898	[4218, 1163]	8586	[9567, 7096]

523	[981, 982]	3211	[4934, 4935]	5899	[4122, 7639]	8587	[9568, 1568]
524	[983, 984]	3212	[4936, 4937]	5900	[3970, 3639]	8588	[6302, 6923]
525	[985, 986]	3213	[4938, 2504]	5901	[7640, 7641]	8589	[9387, 935]
526	[959, 987]	3214	[4939, 2756]	5902	[7642, 4446]	8590	[3793, 4102]
527	[988, 302]	3215	[2601, 4940]	5903	[7643, 1037]	8591	[6140, 6679]
528	[285, 989]	3216	[4941, 4486]	5904	[2988, 1609]	8592	[9569, 4344]
529	[990, 991]	3217	[1690, 4942]	5905	[7628, 7105]	8593	[419, 6478]
530	[992, 993]	3218	[601, 1896]	5906	[6289, 7644]	8594	[4319, 9371]
531	[994, 995]	3219	[4943, 4944]	5907	[7645, 7646]	8595	[9570, 3103]
532	[996, 997]	3220	[167, 4945]	5908	[7647, 7648]	8596	[9571, 6282]
533	[998, 999]	3221	[4946, 1823]	5909	[3442, 7649]	8597	[9572, 1429]
534	[1000, 1001]	3222	[4947, 1724]	5910	[7650, 3136]	8598	[6677, 1068]
535	[1002, 1003]	3223	[2793, 4948]	5911	[6370, 7651]	8599	[6910, 960]
536	[1004, 1005]	3224	[610, 4949]	5912	[7652, 7653]	8600	[9499, 4470]
537	[362, 1006]	3225	[4950, 2279]	5913	[7654, 1172]	8601	[6245, 3729]
538	[1007, 1008]	3226	[4951, 4885]	5914	[7655, 7656]	8602	[9573, 6661]
539	[1009, 1010]	3227	[4952, 4953]	5915	[3019, 1042]	8603	[7203, 1036]
540	[1011, 1012]	3228	[138, 2313]	5916	[7657, 6184]	8604	[9574, 2841]
541	[1013, 1014]	3229	[4873, 4954]	5917	[7658, 7659]	8605	[7656, 3992]
542	[1015, 1016]	3230	[4955, 1869]	5918	[7660, 365]	8606	[3701, 21]
543	[1017, 1018]	3231	[4956, 1990]	5919	[7661, 7662]	8607	[7253, 6311]
544	[1019, 1020]	3232	[4957, 4754]	5920	[6231, 7663]	8608	[3680, 9575]
545	[1021, 1022]	3233	[1914, 4958]	5921	[6801, 1593]	8609	[3324, 1581]
546	[1023, 1024]	3234	[4959, 1854]	5922	[7664, 7574]	8610	[6281, 9576]
547	[1025, 1026]	3235	[4960, 4930]	5923	[7665, 7666]	8611	[6990, 306]
548	[1027, 1028]	3236	[4961, 4962]	5924	[7667, 98]	8612	[9577, 1081]
549	[1029, 1030]	3237	[4963, 4964]	5925	[7668, 7076]	8613	[9578, 264]
550	[1031, 1032]	3238	[4965, 2245]	5926	[7053, 6431]	8614	[3050, 7240]
551	[1033, 1034]	3239	[4966, 4967]	5927	[7129, 4264]	8615	[3953, 7103]
552	[1035, 1036]	3240	[4968, 4723]	5928	[6337, 7669]	8616	[3468, 9398]
553	[1037, 1038]	3241	[4969, 1778]	5929	[4018, 1193]	8617	[6561, 9033]
554	[1039, 1040]	3242	[4583, 4891]	5930	[7670, 3181]	8618	[6442, 9579]
555	[1041, 1042]	3243	[4970, 4971]	5931	[6416, 7671]	8619	[4129, 3926]
556	[1043, 1044]	3244	[4807, 2300]	5932	[3971, 7672]	8620	[9580, 9505]
557	[1045, 1046]	3245	[4972, 4973]	5933	[4108, 1220]	8621	[6465, 6053]
558	[1047, 1048]	3246	[4974, 4975]	5934	[7673, 7674]	8622	[9581, 6313]
559	[1049, 1050]	3247	[4976, 898]	5935	[7675, 7676]	8623	[9582, 9583]
560	[1051, 1052]	3248	[4977, 2323]	5936	[7677, 4321]	8624	[6046, 1381]
561	[1053, 1054]	3249	[2239, 1745]	5937	[7678, 4039]	8625	[9584, 4089]
562	[1055, 1056]	3250	[1726, 1882]	5938	[7679, 3503]	8626	[9585, 9586]
563	[1057, 1058]	3251	[1802, 4978]	5939	[1436, 6587]	8627	[9184, 3598]
564	[1059, 1060]	3252	[757, 2742]	5940	[7680, 364]	8628	[9587, 4429]
565	[1061, 1062]	3253	[4979, 4980]	5941	[4308, 7681]	8629	[9300, 3406]
566	[1063, 1064]	3254	[4981, 4982]	5942	[7682, 29]	8630	[1046, 3244]

567	[1003, 1065]	3255	[4745, 829]	5943	[7683, 1181]	8631	[9588, 9589]
568	[1066, 1067]	3256	[4983, 4857]	5944	[7684, 7685]	8632	[9590, 9591]
569	[1068, 328]	3257	[4984, 187]	5945	[7686, 2799]	8633	[9592, 3450]
570	[1069, 1070]	3258	[4766, 1956]	5946	[391, 3472]	8634	[6679, 9352]
571	[1071, 1072]	3259	[4985, 2360]	5947	[1310, 6913]	8635	[3322, 3518]
572	[1073, 1074]	3260	[2728, 2223]	5948	[7687, 3328]	8636	[9593, 4465]
573	[1075, 1076]	3261	[4986, 4972]	5949	[7688, 3267]	8637	[6920, 2906]
574	[1077, 1078]	3262	[4987, 2295]	5950	[3383, 3692]	8638	[1624, 3259]
575	[1079, 383]	3263	[4988, 1867]	5951	[7689, 7690]	8639	[9594, 3365]
576	[1080, 1035]	3264	[4989, 2308]	5952	[7079, 7691]	8640	[918, 8968]
577	[1081, 1082]	3265	[4990, 2194]	5953	[7692, 7592]	8641	[3550, 6317]
578	[1083, 1084]	3266	[4991, 2315]	5954	[7693, 7101]	8642	[7677, 9595]
579	[1085, 1086]	3267	[4992, 2116]	5955	[7694, 3769]	8643	[9596, 3549]
580	[1087, 1088]	3268	[2034, 4588]	5956	[926, 7695]	8644	[9019, 9597]
581	[1089, 1090]	3269	[1829, 4993]	5957	[7696, 115]	8645	[270, 1211]
582	[1091, 1092]	3270	[4994, 2384]	5958	[4205, 4160]	8646	[2902, 1666]
583	[1093, 1094]	3271	[4995, 671]	5959	[1149, 7697]	8647	[6422, 6520]
584	[1095, 1096]	3272	[4996, 4997]	5960	[7698, 1212]	8648	[9598, 9274]
585	[1097, 1098]	3273	[4998, 4769]	5961	[1265, 4013]	8649	[9599, 6631]
586	[1099, 1100]	3274	[1921, 175]	5962	[7699, 7700]	8650	[7337, 7352]
587	[1101, 1102]	3275	[4999, 5000]	5963	[7701, 7702]	8651	[4314, 1155]
588	[1103, 1104]	3276	[5001, 5002]	5964	[7703, 1252]	8652	[9156, 3731]
589	[1105, 85]	3277	[2159, 5003]	5965	[7423, 7704]	8653	[7171, 4381]
590	[1106, 1107]	3278	[577, 552]	5966	[7705, 7706]	8654	[9304, 6327]
591	[1108, 1109]	3279	[217, 5002]	5967	[6959, 7707]	8655	[9600, 9601]
592	[1110, 1111]	3280	[5004, 1908]	5968	[7708, 7709]	8656	[1605, 9485]
593	[1112, 1113]	3281	[5005, 2555]	5969	[2915, 6820]	8657	[9602, 1564]
594	[1114, 1115]	3282	[5006, 2491]	5970	[2979, 7710]	8658	[9603, 3453]
595	[1116, 1117]	3283	[5007, 1888]	5971	[7711, 3629]	8659	[9368, 9604]
596	[1118, 1119]	3284	[5008, 5009]	5972	[7712, 3098]	8660	[9605, 1528]
597	[1120, 1121]	3285	[5010, 5011]	5973	[7713, 3813]	8661	[9606, 7477]
598	[1122, 1123]	3286	[4586, 5003]	5974	[7714, 7715]	8662	[9607, 6482]
599	[1124, 1125]	3287	[5012, 4768]	5975	[7716, 1531]	8663	[9608, 360]
600	[1126, 1127]	3288	[5013, 1767]	5976	[7717, 3057]	8664	[3585, 6153]
601	[1128, 1129]	3289	[5014, 5015]	5977	[7718, 4171]	8665	[7561, 6446]
602	[1130, 1131]	3290	[5016, 5017]	5978	[3757, 7719]	8666	[411, 480]
603	[1132, 1133]	3291	[2266, 507]	5979	[7720, 1363]	8667	[9609, 3158]
604	[1134, 1135]	3292	[5018, 221]	5980	[7721, 3649]	8668	[9266, 3638]
605	[1136, 1137]	3293	[5019, 4670]	5981	[7722, 2859]	8669	[9152, 7505]
606	[1138, 1139]	3294	[5020, 1686]	5982	[6002, 7378]	8670	[6440, 7587]
607	[1140, 1141]	3295	[5021, 2389]	5983	[95, 7723]	8671	[9610, 4069]
608	[1142, 1143]	3296	[5020, 4774]	5984	[7724, 3749]	8672	[3317, 7690]
609	[1144, 1145]	3297	[5022, 5023]	5985	[7725, 7726]	8673	[9292, 9268]
610	[1146, 1147]	3298	[5024, 1768]	5986	[4208, 252]	8674	[9611, 6692]

611	[1148, 1149]	3299	[189, 5025]	5987	[7727, 3956]	8675	[267, 6191]
612	[1150, 1151]	3300	[883, 2273]	5988	[7728, 7729]	8676	[9612, 6624]
613	[1152, 1153]	3301	[5026, 625]	5989	[6555, 3430]	8677	[3285, 3960]
614	[1154, 1155]	3302	[5027, 756]	5990	[7730, 7731]	8678	[9613, 9614]
615	[1156, 1157]	3303	[5028, 5029]	5991	[7732, 4156]	8679	[9615, 9616]
616	[1158, 1159]	3304	[2161, 5030]	5992	[7466, 7733]	8680	[85, 6332]
617	[1160, 1161]	3305	[5031, 1883]	5993	[7734, 4150]	8681	[4285, 9617]
618	[1162, 1163]	3306	[228, 2291]	5994	[7735, 7653]	8682	[3936, 3122]
619	[1164, 1165]	3307	[5032, 2747]	5995	[7041, 433]	8683	[4462, 2881]
620	[1166, 1167]	3308	[5033, 5034]	5996	[7736, 7737]	8684	[9618, 3595]
621	[1168, 1169]	3309	[2718, 546]	5997	[7738, 7739]	8685	[9619, 3955]
622	[1170, 1171]	3310	[1870, 171]	5998	[5733, 7740]	8686	[6736, 348]
623	[1172, 1173]	3311	[5035, 1891]	5999	[7741, 7742]	8687	[4053, 4095]
624	[1174, 1175]	3312	[5036, 1934]	6000	[5012, 2453]	8688	[7673, 2854]
625	[1176, 1177]	3313	[5037, 1807]	6001	[4808, 631]	8689	[4391, 1176]
626	[1178, 387]	3314	[5038, 2257]	6002	[5178, 7743]	8690	[9620, 3991]
627	[1179, 1180]	3315	[5039, 2398]	6003	[7744, 2360]	8691	[1378, 3916]
628	[1181, 950]	3316	[5040, 5041]	6004	[7745, 32]	8692	[9621, 2989]
629	[1182, 1183]	3317	[5042, 764]	6005	[145, 528]	8693	[9622, 6226]
630	[1184, 286]	3318	[778, 1715]	6006	[7746, 7747]	8694	[22, 3345]
631	[1185, 1186]	3319	[5043, 2405]	6007	[7748, 2664]	8695	[1386, 6065]
632	[1187, 1076]	3320	[5044, 2254]	6008	[1711, 2245]	8696	[9623, 6031]
633	[1188, 1189]	3321	[5045, 4912]	6009	[7749, 7750]	8697	[6498, 267]
634	[1190, 1191]	3322	[4490, 4642]	6010	[5721, 529]	8698	[9624, 984]
635	[1192, 1193]	3323	[5046, 5047]	6011	[7751, 5051]	8699	[4336, 9625]
636	[1194, 1195]	3324	[5048, 5049]	6012	[7752, 4958]	8700	[9228, 7297]
637	[1196, 1197]	3325	[4584, 891]	6013	[5256, 2114]	8701	[3963, 3242]
638	[1198, 1199]	3326	[5050, 5051]	6014	[7753, 555]	8702	[9626, 247]
639	[1200, 1201]	3327	[2731, 4778]	6015	[7754, 7755]	8703	[9627, 7102]
640	[1202, 1203]	3328	[5052, 2329]	6016	[7756, 4774]	8704	[9628, 9629]
641	[1204, 1205]	3329	[2481, 5044]	6017	[7757, 640]	8705	[6554, 3429]
642	[1206, 1207]	3330	[5015, 2736]	6018	[7758, 2526]	8706	[9630, 3693]
643	[1208, 1209]	3331	[5053, 5054]	6019	[7759, 2243]	8707	[9213, 7624]
644	[1210, 1211]	3332	[5055, 780]	6020	[7760, 2032]	8708	[9267, 4156]
645	[1212, 1213]	3333	[845, 4723]	6021	[5644, 816]	8709	[9631, 9423]
646	[1214, 1215]	3334	[5056, 1906]	6022	[7761, 5886]	8710	[9632, 3238]
647	[1207, 1216]	3335	[5057, 5058]	6023	[4556, 2192]	8711	[9633, 289]
648	[1217, 1218]	3336	[656, 2265]	6024	[7762, 1765]	8712	[9634, 1415]
649	[1219, 1220]	3337	[660, 5059]	6025	[7763, 7764]	8713	[6094, 9635]
650	[1221, 1222]	3338	[5060, 5061]	6026	[7765, 7766]	8714	[9636, 3076]
651	[1223, 1224]	3339	[5062, 5063]	6027	[7767, 1907]	8715	[9637, 9002]
652	[1225, 1226]	3340	[5064, 4810]	6028	[5892, 4874]	8716	[4431, 9638]
653	[1227, 1228]	3341	[5065, 488]	6029	[7768, 2142]	8717	[1336, 4079]
654	[1229, 1230]	3342	[1954, 5066]	6030	[7769, 7770]	8718	[9049, 7606]

655	[1231, 1232]	3343	[5067, 1813]	6031	[2374, 2747]	8719	[9639, 118]
656	[1233, 1234]	3344	[5068, 889]	6032	[7771, 778]	8720	[9640, 1557]
657	[1235, 1236]	3345	[44, 4513]	6033	[7772, 5131]	8721	[7519, 6161]
658	[1237, 1238]	3346	[5069, 620]	6034	[5239, 7773]	8722	[7409, 3314]
659	[333, 1239]	3347	[851, 4706]	6035	[7774, 5503]	8723	[9641, 399]
660	[1240, 1241]	3348	[5070, 5071]	6036	[2023, 2512]	8724	[9642, 1372]
661	[1242, 1243]	3349	[5056, 2125]	6037	[7775, 4691]	8725	[1238, 4012]
662	[1244, 1245]	3350	[5072, 1858]	6038	[2382, 1971]	8726	[9643, 3651]
663	[1246, 1247]	3351	[5073, 1988]	6039	[7776, 4845]	8727	[6718, 9530]
664	[1248, 1249]	3352	[2614, 186]	6040	[4673, 4622]	8728	[9182, 9644]
665	[1250, 1251]	3353	[5074, 2388]	6041	[2618, 580]	8729	[6785, 7305]
666	[1252, 1253]	3354	[5075, 494]	6042	[7777, 741]	8730	[9645, 4189]
667	[1254, 1137]	3355	[5076, 5077]	6043	[32, 2319]	8731	[9626, 2870]
668	[1255, 1256]	3356	[5078, 2214]	6044	[173, 2010]	8732	[3774, 6755]
669	[1257, 1258]	3357	[5079, 1795]	6045	[7778, 7779]	8733	[9330, 6637]
670	[1259, 1260]	3358	[862, 1890]	6046	[1882, 5242]	8734	[9139, 3223]
671	[1261, 1262]	3359	[5080, 535]	6047	[4942, 1862]	8735	[9646, 449]
672	[1263, 1264]	3360	[5081, 5082]	6048	[7780, 697]	8736	[9647, 425]
673	[1265, 262]	3361	[2459, 5083]	6049	[7763, 1736]	8737	[4277, 4118]
674	[1266, 1267]	3362	[5084, 5085]	6050	[7781, 5446]	8738	[297, 7350]
675	[1268, 1269]	3363	[5086, 4756]	6051	[7782, 1784]	8739	[9648, 1052]
676	[1270, 1271]	3364	[5087, 5088]	6052	[7783, 1882]	8740	[9649, 7167]
677	[1272, 1273]	3365	[5089, 4739]	6053	[5376, 5029]	8741	[9650, 337]
678	[1274, 1275]	3366	[5090, 1800]	6054	[7784, 4559]	8742	[1208, 3851]
679	[1276, 1277]	3367	[5091, 2794]	6055	[505, 14]	8743	[292, 3049]
680	[1278, 1026]	3368	[1744, 666]	6056	[7785, 2296]	8744	[9651, 1312]
681	[1279, 1280]	3369	[3369, 3369]	6057	[7786, 2071]	8745	[6594, 1329]
682	[1281, 1282]	3370	[5092, 5093]	6058	[7787, 640]	8746	[9652, 4475]
683	[1283, 1284]	3371	[2521, 5094]	6059	[1984, 587]	8747	[9653, 6996]
684	[1285, 1286]	3372	[5095, 1932]	6060	[680, 1698]	8748	[6951, 6055]
685	[1287, 1288]	3373	[245, 4480]	6061	[7788, 2275]	8749	[9654, 9043]
686	[1289, 1290]	3374	[5096, 2017]	6062	[7789, 4741]	8750	[9123, 6004]
687	[1291, 1292]	3375	[5097, 5098]	6063	[7790, 7791]	8751	[3958, 28]
688	[1293, 1294]	3376	[5099, 5100]	6064	[7792, 2747]	8752	[9655, 975]
689	[1295, 1091]	3377	[645, 4780]	6065	[4504, 2411]	8753	[1381, 1019]
690	[1296, 1297]	3378	[5101, 5102]	6066	[7793, 7747]	8754	[9656, 6181]
691	[345, 1298]	3379	[589, 2146]	6067	[2181, 7791]	8755	[9327, 1326]
692	[1299, 1300]	3380	[5103, 5104]	6068	[7794, 563]	8756	[1449, 4271]
693	[1301, 1302]	3381	[5105, 878]	6069	[2321, 608]	8757	[9613, 7400]
694	[1303, 1304]	3382	[502, 4797]	6070	[7795, 4565]	8758	[9657, 6058]
695	[1305, 1306]	3383	[5106, 5107]	6071	[1749, 5223]	8759	[9658, 3569]
696	[1307, 1308]	3384	[5108, 5109]	6072	[7796, 2543]	8760	[9659, 479]
697	[1309, 1310]	3385	[5110, 5025]	6073	[5520, 4773]	8761	[9660, 7641]
698	[1311, 1312]	3386	[5111, 149]	6074	[1879, 1839]	8762	[9661, 3283]

699	[1313, 1314]	3387	[2543, 871]	6075	[5550, 195]	8763	[9662, 3201]
700	[1315, 1316]	3388	[1741, 1985]	6076	[2239, 666]	8764	[4138, 3138]
701	[1317, 309]	3389	[5112, 2102]	6077	[5032, 1724]	8765	[9663, 9152]
702	[1318, 1319]	3390	[5113, 5114]	6078	[7797, 5450]	8766	[404, 3431]
703	[1320, 1321]	3391	[5115, 4886]	6079	[7798, 7799]	8767	[6261, 2957]
704	[1006, 1322]	3392	[5116, 5117]	6080	[7800, 1837]	8768	[9664, 4218]
705	[1323, 1324]	3393	[5118, 5119]	6081	[2300, 529]	8769	[1259, 3361]
706	[1325, 1326]	3394	[1850, 1702]	6082	[7801, 2317]	8770	[7545, 6558]
707	[1327, 1328]	3395	[5120, 5121]	6083	[737, 1809]	8771	[9665, 6138]
708	[1329, 1330]	3396	[4911, 4965]	6084	[7802, 1897]	8772	[3756, 7383]
709	[1331, 1332]	3397	[5122, 606]	6085	[7803, 5948]	8773	[9666, 278]
710	[1333, 1334]	3398	[5123, 565]	6086	[7804, 5263]	8774	[9551, 7391]
711	[1335, 1336]	3399	[5124, 5125]	6087	[7805, 2616]	8775	[6992, 7676]
712	[1337, 1338]	3400	[5126, 727]	6088	[7806, 2168]	8776	[9667, 2819]
713	[1339, 1340]	3401	[5127, 5128]	6089	[7807, 7808]	8777	[9668, 7672]
714	[1341, 1342]	3402	[5129, 892]	6090	[7809, 2294]	8778	[9669, 3055]
715	[1343, 1344]	3403	[2177, 2505]	6091	[7810, 7811]	8779	[9670, 1371]
716	[455, 1345]	3404	[5130, 1958]	6092	[5845, 5845]	8780	[9671, 6696]
717	[1346, 1347]	3405	[1749, 4763]	6093	[7812, 4858]	8781	[9672, 986]
718	[1348, 1349]	3406	[4944, 5131]	6094	[7813, 7814]	8782	[4020, 9069]
719	[416, 1350]	3407	[5132, 5133]	6095	[631, 2340]	8783	[9673, 9611]
720	[1351, 1352]	3408	[2069, 496]	6096	[7815, 5205]	8784	[1118, 3015]
721	[1353, 1354]	3409	[1987, 2124]	6097	[5951, 7816]	8785	[7147, 6672]
722	[1355, 1356]	3410	[2194, 2188]	6098	[2632, 235]	8786	[4, 3868]
723	[1357, 1164]	3411	[5134, 5135]	6099	[7817, 840]	8787	[9674, 2872]
724	[1358, 1359]	3412	[5136, 851]	6100	[7818, 7819]	8788	[9675, 391]
725	[261, 1360]	3413	[5137, 218]	6101	[7820, 7821]	8789	[9676, 1094]
726	[1361, 1362]	3414	[5138, 2506]	6102	[5334, 7743]	8790	[9677, 6660]
727	[1363, 1364]	3415	[5139, 2507]	6103	[7822, 7823]	8791	[3776, 9379]
728	[1365, 1366]	3416	[5140, 5141]	6104	[7824, 1862]	8792	[9678, 3444]
729	[1367, 1368]	3417	[5142, 2306]	6105	[2329, 5414]	8793	[9341, 9140]
730	[1369, 1370]	3418	[4907, 1688]	6106	[5901, 7825]	8794	[9511, 3925]
731	[1371, 1372]	3419	[1759, 5143]	6107	[871, 4881]	8795	[6163, 9679]
732	[1373, 1374]	3420	[5144, 2538]	6108	[7826, 5020]	8796	[104, 9143]
733	[1375, 1376]	3421	[5145, 5146]	6109	[5339, 5002]	8797	[9680, 1543]
734	[1377, 432]	3422	[5147, 5148]	6110	[7827, 2212]	8798	[9681, 1663]
735	[1378, 1379]	3423	[5149, 5150]	6111	[5717, 1937]	8799	[1461, 8948]
736	[1380, 1381]	3424	[5151, 5152]	6112	[7828, 5808]	8800	[9029, 6634]
737	[1078, 1382]	3425	[1977, 2104]	6113	[2452, 4768]	8801	[1067, 3458]
738	[1383, 1384]	3426	[5153, 2530]	6114	[7829, 4819]	8802	[6211, 3032]
739	[1385, 1386]	3427	[5154, 5155]	6115	[45, 2754]	8803	[9074, 1302]
740	[1387, 1388]	3428	[5156, 5157]	6116	[7830, 7831]	8804	[9682, 7244]
741	[1389, 1390]	3429	[1822, 2010]	6117	[4831, 2313]	8805	[9683, 992]
742	[1391, 1392]	3430	[5158, 4559]	6118	[7832, 2765]	8806	[9684, 9685]

743	[1393, 1394]	3431	[2291, 5159]	6119	[2130, 169]	8807	[9686, 1007]
744	[1395, 96]	3432	[4682, 4733]	6120	[174, 1922]	8808	[7515, 9687]
745	[1310, 1396]	3433	[4630, 4940]	6121	[7833, 1830]	8809	[3722, 7608]
746	[1397, 1398]	3434	[5160, 1746]	6122	[7834, 1903]	8810	[9688, 6104]
747	[1399, 1400]	3435	[5161, 5162]	6123	[7835, 5555]	8811	[6248, 7705]
748	[1401, 1402]	3436	[5163, 1783]	6124	[2061, 229]	8812	[4454, 9689]
749	[1403, 1015]	3437	[5164, 225]	6125	[4482, 2079]	8813	[9690, 3011]
750	[1404, 1405]	3438	[5165, 138]	6126	[7836, 7837]	8814	[1126, 304]
751	[1406, 1407]	3439	[2214, 50]	6127	[7838, 7839]	8815	[9691, 9017]
752	[1408, 1409]	3440	[5166, 552]	6128	[5396, 2356]	8816	[9692, 6887]
753	[1410, 1411]	3441	[5167, 5168]	6129	[7840, 874]	8817	[914, 7376]
754	[1412, 1114]	3442	[5169, 2192]	6130	[7841, 5247]	8818	[9693, 3018]
755	[1413, 1414]	3443	[5159, 775]	6131	[7842, 2413]	8819	[4325, 9694]
756	[1415, 1416]	3444	[5170, 4655]	6132	[4608, 1981]	8820	[4043, 3686]
757	[1417, 1418]	3445	[5171, 4784]	6133	[7843, 7844]	8821	[7376, 7204]
758	[1419, 1420]	3446	[5172, 5173]	6134	[7845, 59]	8822	[9695, 3697]
759	[1421, 1422]	3447	[5174, 2694]	6135	[5945, 5017]	8823	[6771, 9696]
760	[1090, 1423]	3448	[5175, 5176]	6136	[4954, 2179]	8824	[9697, 3962]
761	[1424, 1425]	3449	[5177, 508]	6137	[2470, 1751]	8825	[3862, 3129]
762	[1426, 1427]	3450	[186, 5178]	6138	[5484, 585]	8826	[9698, 6051]
763	[1428, 1429]	3451	[894, 5179]	6139	[7846, 7847]	8827	[3857, 1164]
764	[961, 1430]	3452	[5180, 1955]	6140	[2226, 2274]	8828	[9699, 9700]
765	[1431, 996]	3453	[5181, 2233]	6141	[7848, 7849]	8829	[9106, 4473]
766	[1432, 1433]	3454	[5064, 2360]	6142	[7850, 2459]	8830	[9701, 367]
767	[1434, 1435]	3455	[5182, 1996]	6143	[7851, 5847]	8831	[6595, 1330]
768	[1436, 1437]	3456	[4872, 4865]	6144	[5580, 2752]	8832	[2849, 9702]
769	[1438, 1439]	3457	[2145, 2339]	6145	[7852, 4579]	8833	[9703, 4443]
770	[1440, 1441]	3458	[5105, 816]	6146	[2311, 671]	8834	[6182, 9704]
771	[1442, 419]	3459	[1768, 5183]	6147	[7853, 7854]	8835	[3168, 9297]
772	[991, 1443]	3460	[4585, 892]	6148	[7855, 7856]	8836	[3556, 107]
773	[1444, 1419]	3461	[5184, 5185]	6149	[5501, 54]	8837	[9705, 3203]
774	[1445, 1446]	3462	[5186, 5171]	6150	[4703, 4635]	8838	[9706, 9067]
775	[1447, 1448]	3463	[5187, 4692]	6151	[7857, 4743]	8839	[9707, 1091]
776	[1449, 1450]	3464	[1725, 2713]	6152	[1778, 4739]	8840	[7336, 7613]
777	[1451, 1452]	3465	[5188, 4668]	6153	[7858, 5058]	8841	[9708, 1518]
778	[1453, 1454]	3466	[5189, 2247]	6154	[1845, 619]	8842	[9209, 7018]
779	[1455, 1456]	3467	[728, 1827]	6155	[2381, 2794]	8843	[4386, 2810]
780	[1457, 1458]	3468	[5190, 4954]	6156	[7859, 12]	8844	[4283, 65]
781	[1459, 1460]	3469	[1887, 4605]	6157	[7860, 2648]	8845	[9709, 1167]
782	[1461, 1462]	3470	[5191, 5192]	6158	[7861, 4767]	8846	[7343, 6308]
783	[1463, 1464]	3471	[789, 4496]	6159	[7862, 4811]	8847	[9710, 6302]
784	[1465, 1466]	3472	[5193, 5194]	6160	[7863, 4507]	8848	[9711, 4266]
785	[1467, 1468]	3473	[591, 2389]	6161	[2025, 2728]	8849	[3591, 3873]
786	[1469, 1470]	3474	[1943, 2181]	6162	[7864, 900]	8850	[9534, 6067]

787	[384, 1471]	3475	[4663, 1848]	6163	[7865, 7866]	8851	[9712, 9616]
788	[1472, 77]	3476	[5195, 689]	6164	[7867, 7868]	8852	[9713, 9714]
789	[1473, 1474]	3477	[170, 1680]	6165	[7762, 2561]	8853	[9715, 9716]
790	[1475, 1268]	3478	[5196, 5197]	6166	[7869, 4873]	8854	[9529, 9717]
791	[1476, 1477]	3479	[5198, 843]	6167	[7870, 7871]	8855	[3541, 4008]
792	[1478, 1479]	3480	[5199, 2046]	6168	[7872, 2255]	8856	[9718, 3248]
793	[1480, 1481]	3481	[1848, 45]	6169	[7873, 4602]	8857	[9719, 4249]
794	[1482, 1483]	3482	[1699, 845]	6170	[4512, 4773]	8858	[6271, 3234]
795	[269, 1472]	3483	[5200, 596]	6171	[7874, 7875]	8859	[9720, 3459]
796	[1484, 1485]	3484	[5201, 1691]	6172	[646, 5614]	8860	[9721, 6365]
797	[1486, 1487]	3485	[5202, 2763]	6173	[7876, 5541]	8861	[6942, 9722]
798	[1488, 1489]	3486	[662, 214]	6174	[2794, 1971]	8862	[6724, 6947]
799	[1490, 1491]	3487	[5188, 776]	6175	[7877, 5327]	8863	[9723, 9371]
800	[1492, 1493]	3488	[2529, 2776]	6176	[5068, 2000]	8864	[7431, 7445]
801	[1494, 1355]	3489	[5203, 5204]	6177	[903, 2122]	8865	[9407, 3217]
802	[1495, 1496]	3490	[5205, 2770]	6178	[2625, 1969]	8866	[9724, 1531]
803	[453, 1497]	3491	[5206, 4587]	6179	[5769, 4601]	8867	[2842, 69]
804	[1498, 1499]	3492	[5207, 1708]	6180	[7878, 7854]	8868	[2987, 329]
805	[1500, 1501]	3493	[5208, 5209]	6181	[2648, 141]	8869	[6999, 7234]
806	[1502, 1503]	3494	[5210, 4705]	6182	[7879, 200]	8870	[1268, 4026]
807	[1504, 1505]	3495	[5211, 4677]	6183	[7880, 7881]	8871	[9725, 9726]
808	[1506, 1472]	3496	[902, 494]	6184	[7882, 4605]	8872	[1229, 9716]
809	[1507, 1508]	3497	[5212, 5213]	6185	[7883, 7884]	8873	[3114, 9063]
810	[1509, 1510]	3498	[4585, 1696]	6186	[7885, 2023]	8874	[9727, 1598]
811	[1511, 1512]	3499	[5214, 4871]	6187	[7886, 496]	8875	[9480, 29]
812	[1513, 1018]	3500	[5215, 4727]	6188	[7887, 1802]	8876	[9728, 4149]
813	[1514, 1515]	3501	[2569, 1908]	6189	[2455, 5273]	8877	[9729, 3222]
814	[1516, 1517]	3502	[880, 4515]	6190	[7888, 2385]	8878	[3036, 4465]
815	[1518, 1519]	3503	[5216, 5217]	6191	[5598, 5614]	8879	[6155, 4304]
816	[1520, 1083]	3504	[5218, 1877]	6192	[7889, 5027]	8880	[327, 2991]
817	[1521, 1522]	3505	[5219, 5059]	6193	[7890, 751]	8881	[3325, 3064]
818	[1523, 1524]	3506	[5220, 5125]	6194	[7891, 2251]	8882	[9730, 2839]
819	[1525, 1526]	3507	[5221, 1755]	6195	[514, 4725]	8883	[7329, 1440]
820	[1527, 1528]	3508	[2376, 1729]	6196	[2027, 2106]	8884	[9731, 6823]
821	[1529, 1530]	3509	[2779, 2565]	6197	[7892, 4972]	8885	[9732, 7339]
822	[1531, 1532]	3510	[5222, 711]	6198	[7893, 505]	8886	[7365, 259]
823	[1533, 1534]	3511	[193, 2408]	6199	[7894, 2009]	8887	[3133, 9358]
824	[1535, 1536]	3512	[1973, 585]	6200	[1948, 5858]	8888	[9733, 4209]
825	[1537, 1538]	3513	[5114, 5223]	6201	[2561, 4550]	8889	[9409, 7564]
826	[1332, 1539]	3514	[2000, 890]	6202	[7895, 5804]	8890	[9734, 3677]
827	[1540, 1541]	3515	[5115, 1815]	6203	[2343, 840]	8891	[6293, 4224]
828	[1542, 1172]	3516	[5224, 5225]	6204	[7896, 597]	8892	[6443, 1661]
829	[1543, 1544]	3517	[5226, 5227]	6205	[5100, 4638]	8893	[9735, 3449]
830	[1545, 1104]	3518	[796, 5003]	6206	[5825, 2619]	8894	[9390, 3245]

831	[1546, 1547]	3519	[5228, 4924]	6207	[2464, 2455]	8895	[9334, 1548]
832	[1548, 1549]	3520	[4940, 4651]	6208	[7897, 1842]	8896	[271, 3304]
833	[1550, 1551]	3521	[5229, 1875]	6209	[1995, 2398]	8897	[9736, 1006]
834	[1552, 1553]	3522	[5230, 2151]	6210	[7898, 733]	8898	[9335, 9146]
835	[1554, 1555]	3523	[636, 905]	6211	[2501, 2032]	8899	[9737, 4419]
836	[1556, 1557]	3524	[5231, 2780]	6212	[7899, 7900]	8900	[8945, 7500]
837	[1558, 1559]	3525	[2389, 1720]	6213	[7901, 7902]	8901	[7658, 3153]
838	[1560, 1517]	3526	[5232, 5233]	6214	[7903, 776]	8902	[1148, 3816]
839	[1561, 1562]	3527	[5234, 5083]	6215	[1802, 5289]	8903	[9738, 3764]
840	[1563, 1564]	3528	[2321, 5235]	6216	[7904, 7905]	8904	[9739, 949]
841	[1565, 1566]	3529	[5236, 5237]	6217	[7906, 7907]	8905	[9740, 9741]
842	[1567, 1568]	3530	[5238, 5239]	6218	[4870, 2419]	8906	[1057, 9456]
843	[1569, 1436]	3531	[5240, 5241]	6219	[2073, 2131]	8907	[9742, 6369]
844	[1570, 1571]	3532	[5193, 5242]	6220	[2077, 4978]	8908	[9743, 6078]
845	[1572, 1573]	3533	[5243, 2513]	6221	[5785, 1994]	8909	[6627, 6958]
846	[1574, 1145]	3534	[731, 5227]	6222	[7908, 7909]	8910	[9185, 3599]
847	[1575, 1576]	3535	[5244, 5245]	6223	[4714, 5269]	8911	[9744, 9745]
848	[1577, 1578]	3536	[5246, 5247]	6224	[7910, 2798]	8912	[3098, 123]
849	[1460, 1579]	3537	[5248, 245]	6225	[7911, 2333]	8913	[4303, 2926]
850	[1580, 1581]	3538	[5249, 2489]	6226	[2417, 60]	8914	[9746, 1108]
851	[1582, 1583]	3539	[5250, 845]	6227	[7912, 2144]	8915	[9747, 6149]
852	[1584, 1585]	3540	[5251, 2609]	6228	[7913, 4787]	8916	[6316, 3383]
853	[1430, 931]	3541	[760, 1803]	6229	[7914, 182]	8917	[1401, 450]
854	[1586, 1432]	3542	[2062, 2657]	6230	[2370, 1760]	8918	[7668, 1479]
855	[1587, 1588]	3543	[4940, 2421]	6231	[4780, 2740]	8919	[9748, 3040]
856	[1589, 1590]	3544	[2594, 2255]	6232	[7915, 5183]	8920	[1172, 3685]
857	[1591, 1592]	3545	[5252, 5200]	6233	[2279, 2765]	8921	[9749, 9696]
858	[1593, 1594]	3546	[5253, 4862]	6234	[7916, 2046]	8922	[9750, 1443]
859	[1595, 1596]	3547	[2045, 2188]	6235	[7917, 2025]	8923	[6171, 7550]
860	[1597, 1598]	3548	[5254, 5255]	6236	[2359, 1912]	8924	[9751, 1234]
861	[1599, 1582]	3549	[5256, 2581]	6237	[2233, 4795]	8925	[9060, 9437]
862	[1600, 102]	3550	[5257, 4572]	6238	[7918, 5624]	8926	[7382, 3263]
863	[1601, 1602]	3551	[4722, 652]	6239	[5963, 235]	8927	[3603, 323]
864	[1603, 1604]	3552	[5258, 5259]	6240	[7919, 1773]	8928	[9752, 9753]
865	[1605, 1606]	3553	[5260, 5261]	6241	[237, 7791]	8929	[6812, 2878]
866	[1607, 1608]	3554	[4734, 1974]	6242	[7920, 2439]	8930	[1445, 6207]
867	[329, 1609]	3555	[5262, 5197]	6243	[2008, 5135]	8931	[6352, 7592]
868	[1610, 1445]	3556	[545, 5160]	6244	[2578, 2455]	8932	[9754, 4316]
869	[1611, 1612]	3557	[5263, 889]	6245	[7921, 236]	8933	[6698, 9064]
870	[1613, 1614]	3558	[2344, 841]	6246	[7922, 7923]	8934	[9755, 1017]
871	[1306, 1615]	3559	[2110, 2117]	6247	[7924, 2010]	8935	[7410, 2838]
872	[1616, 1617]	3560	[5264, 1735]	6248	[2322, 2445]	8936	[1611, 7310]
873	[1234, 1618]	3561	[5013, 706]	6249	[7925, 653]	8937	[9756, 9402]
874	[1619, 1620]	3562	[38, 1825]	6250	[7926, 4620]	8938	[9757, 9758]

875	[370, 1621]	3563	[5265, 4750]	6251	[1730, 4585]	8939	[1690, 2587]
876	[1622, 1623]	3564	[5266, 5267]	6252	[7927, 2713]	8940	[9759, 5237]
877	[1560, 1624]	3565	[5268, 190]	6253	[7928, 2443]	8941	[824, 4682]
878	[1564, 1625]	3566	[5269, 4563]	6254	[5614, 2114]	8942	[8264, 2208]
879	[1626, 1627]	3567	[5270, 5271]	6255	[2652, 4725]	8943	[2747, 2237]
880	[1628, 1629]	3568	[5030, 5272]	6256	[5550, 5414]	8944	[9760, 5137]
881	[1630, 1631]	3569	[5273, 5274]	6257	[7828, 4647]	8945	[9761, 2322]
882	[1632, 1633]	3570	[5275, 2293]	6258	[7929, 4988]	8946	[8852, 8510]
883	[1634, 325]	3571	[5276, 641]	6259	[820, 4993]	8947	[4992, 2067]
884	[1635, 1636]	3572	[2444, 2323]	6260	[5593, 4784]	8948	[31, 5272]
885	[1637, 375]	3573	[1681, 756]	6261	[7930, 4566]	8949	[9762, 8774]
886	[1247, 1638]	3574	[5277, 5278]	6262	[2181, 835]	8950	[9763, 9764]
887	[1639, 1640]	3575	[2394, 2014]	6263	[7931, 7932]	8951	[8441, 598]
888	[1641, 1642]	3576	[5279, 707]	6264	[7933, 7934]	8952	[9765, 4640]
889	[1643, 1644]	3577	[5280, 2160]	6265	[7935, 7936]	8953	[9766, 4612]
890	[1645, 1646]	3578	[5281, 2709]	6266	[5182, 2398]	8954	[9767, 2727]
891	[1647, 1648]	3579	[5282, 491]	6267	[7937, 870]	8955	[9768, 8190]
892	[1649, 1650]	3580	[1817, 5173]	6268	[5644, 878]	8956	[9769, 4951]
893	[1651, 1652]	3581	[5283, 4490]	6269	[2497, 2503]	8957	[5035, 2507]
894	[1653, 1654]	3582	[5284, 512]	6270	[7938, 5162]	8958	[9770, 4994]
895	[1655, 1656]	3583	[5285, 4940]	6271	[7939, 729]	8959	[9771, 1679]
896	[1657, 123]	3584	[5286, 5287]	6272	[1916, 770]	8960	[9772, 5049]
897	[1658, 1659]	3585	[5288, 5289]	6273	[7940, 7941]	8961	[9773, 159]
898	[1660, 1078]	3586	[5290, 2787]	6274	[7942, 1816]	8962	[9774, 757]
899	[1661, 1662]	3587	[5291, 132]	6275	[7943, 7944]	8963	[9775, 5317]
900	[1663, 1664]	3588	[5292, 801]	6276	[7945, 50]	8964	[9776, 5485]
901	[1665, 1398]	3589	[5293, 2544]	6277	[872, 2663]	8965	[5172, 1818]
902	[1666, 1667]	3590	[4962, 2280]	6278	[7946, 7947]	8966	[9777, 5572]
903	[1668, 1669]	3591	[5294, 2147]	6279	[5432, 2174]	8967	[2308, 5499]
904	[1670, 1671]	3592	[2656, 2063]	6280	[2552, 2311]	8968	[8443, 1825]
905	[1672, 1673]	3593	[4931, 2507]	6281	[7948, 4628]	8969	[9778, 9779]
906	[1674, 1675]	3594	[5295, 5223]	6282	[1735, 7764]	8970	[9780, 9781]
907	[1676, 1677]	3595	[4948, 797]	6283	[7949, 4542]	8971	[8057, 5335]
908	[1678, 1679]	3596	[5296, 2473]	6284	[7950, 2086]	8972	[2473, 2384]
909	[1680, 1681]	3597	[2530, 741]	6285	[7951, 1720]	8973	[9782, 8430]
910	[1682, 1683]	3598	[4854, 4886]	6286	[7881, 5269]	8974	[579, 628]
911	[1684, 513]	3599	[2171, 5297]	6287	[7952, 2452]	8975	[9783, 9784]
912	[1685, 1686]	3600	[5298, 5109]	6288	[7953, 157]	8976	[9785, 5259]
913	[1687, 1688]	3601	[5299, 4945]	6289	[7954, 1936]	8977	[9786, 4669]
914	[1689, 1690]	3602	[5300, 5301]	6290	[1722, 723]	8978	[9787, 655]
915	[1691, 1692]	3603	[5281, 2736]	6291	[7955, 5466]	8979	[759, 639]
916	[1693, 1694]	3604	[5302, 5303]	6292	[1986, 1916]	8980	[9788, 4569]
917	[1695, 1696]	3605	[4800, 1891]	6293	[7956, 7957]	8981	[9789, 5583]
918	[1697, 1698]	3606	[2308, 877]	6294	[2204, 2517]	8982	[5572, 706]

919	[1699, 1700]	3607	[5304, 5305]	6295	[7958, 2183]	8983	[9790, 1706]
920	[1701, 1702]	3608	[4722, 497]	6296	[5155, 5684]	8984	[9791, 705]
921	[854, 1703]	3609	[4638, 5306]	6297	[704, 2423]	8985	[567, 886]
922	[1704, 1705]	3610	[5307, 5308]	6298	[2563, 5569]	8986	[873, 4898]
923	[1706, 1707]	3611	[5309, 2227]	6299	[2701, 4633]	8987	[9792, 5377]
924	[1708, 572]	3612	[4782, 2556]	6300	[7959, 1706]	8988	[9793, 5468]
925	[1709, 1710]	3613	[5310, 183]	6301	[7960, 2098]	8989	[9794, 2062]
926	[1711, 1712]	3614	[4967, 621]	6302	[7961, 7962]	8990	[9795, 9796]
927	[1713, 1714]	3615	[5311, 2268]	6303	[7963, 4753]	8991	[2246, 1757]
928	[1715, 1716]	3616	[5312, 2270]	6304	[7964, 5215]	8992	[2786, 898]
929	[1717, 745]	3617	[5313, 5168]	6305	[531, 4949]	8993	[8638, 1929]
930	[1718, 1719]	3618	[5314, 5315]	6306	[7965, 5085]	8994	[9797, 2349]
931	[1720, 1721]	3619	[5045, 5047]	6307	[5470, 4529]	8995	[4802, 1950]
932	[1722, 1723]	3620	[5316, 5317]	6308	[7966, 1884]	8996	[9798, 5076]
933	[1724, 1725]	3621	[1851, 5318]	6309	[2455, 5559]	8997	[4527, 187]
934	[1726, 1727]	3622	[5319, 2126]	6310	[7967, 5838]	8998	[7926, 4480]
935	[1728, 1729]	3623	[4483, 493]	6311	[590, 4958]	8999	[5952, 8579]
936	[702, 1730]	3624	[5320, 839]	6312	[7968, 2397]	9000	[9799, 7816]
937	[1731, 670]	3625	[5321, 530]	6313	[5005, 2603]	9001	[7811, 5848]
938	[1732, 890]	3626	[5322, 1843]	6314	[7969, 7970]	9002	[5954, 5735]
939	[1733, 1734]	3627	[5323, 820]	6315	[7971, 2423]	9003	[9800, 4937]
940	[1735, 1736]	3628	[5324, 805]	6316	[7972, 5384]	9004	[2344, 679]
941	[1737, 1738]	3629	[5325, 573]	6317	[7973, 7825]	9005	[9801, 9802]
942	[1739, 530]	3630	[5326, 5327]	6318	[2774, 7856]	9006	[9803, 5035]
943	[1740, 1741]	3631	[5328, 220]	6319	[5427, 203]	9007	[9804, 5179]
944	[524, 553]	3632	[5329, 2656]	6320	[7974, 5134]	9008	[8482, 1814]
945	[1742, 1743]	3633	[4559, 2079]	6321	[7975, 34]	9009	[9805, 5975]
946	[1744, 1745]	3634	[2644, 1900]	6322	[7976, 7977]	9010	[2565, 4891]
947	[1746, 1747]	3635	[5330, 2501]	6323	[7978, 2751]	9011	[9806, 2154]
948	[1748, 1749]	3636	[5153, 2776]	6324	[7979, 2331]	9012	[551, 543]
949	[1750, 1751]	3637	[197, 5331]	6325	[7980, 5305]	9013	[4987, 2006]
950	[1752, 1753]	3638	[5332, 5333]	6326	[7981, 5390]	9014	[9807, 4770]
951	[1754, 1755]	3639	[5334, 5335]	6327	[193, 10]	9015	[9808, 2773]
952	[1756, 1757]	3640	[5336, 2223]	6328	[719, 1837]	9016	[9809, 2310]
953	[1758, 1759]	3641	[706, 1768]	6329	[4612, 1945]	9017	[8750, 2001]
954	[216, 1760]	3642	[5267, 5337]	6330	[801, 4636]	9018	[9810, 40]
955	[1679, 1761]	3643	[5338, 5339]	6331	[2696, 5157]	9019	[9811, 2231]
956	[1762, 1763]	3644	[5340, 5227]	6332	[7982, 5179]	9020	[8345, 5351]
957	[1764, 1765]	3645	[5341, 5342]	6333	[7983, 4683]	9021	[2488, 2107]
958	[1766, 158]	3646	[60, 5343]	6334	[2109, 1879]	9022	[2584, 2125]
959	[1767, 1768]	3647	[4793, 4496]	6335	[2262, 5550]	9023	[9812, 4761]
960	[1751, 1769]	3648	[5344, 593]	6336	[7984, 4806]	9024	[9813, 8806]
961	[1770, 1771]	3649	[5345, 2679]	6337	[7985, 2498]	9025	[9814, 4753]
962	[1772, 1773]	3650	[5346, 1889]	6338	[7986, 5143]	9026	[9815, 9816]

963	[1774, 1680]	3651	[5347, 2490]	6339	[4627, 154]	9027	[5815, 2706]
964	[1775, 126]	3652	[652, 5015]	6340	[7987, 7988]	9028	[9817, 2724]
965	[1776, 1777]	3653	[5348, 4915]	6341	[7989, 1683]	9029	[9818, 8060]
966	[163, 1778]	3654	[5272, 2319]	6342	[7990, 7991]	9030	[1898, 1855]
967	[1779, 1780]	3655	[5349, 889]	6343	[7992, 7993]	9031	[9819, 9796]
968	[842, 818]	3656	[5350, 5351]	6344	[7994, 7995]	9032	[8579, 2750]
969	[1781, 1782]	3657	[5352, 5353]	6345	[573, 2394]	9033	[9820, 5381]
970	[826, 1783]	3658	[5354, 5355]	6346	[7996, 7997]	9034	[9821, 4533]
971	[1784, 799]	3659	[5356, 1854]	6347	[7998, 7999]	9035	[9822, 8846]
972	[525, 1785]	3660	[5357, 5358]	6348	[8000, 5824]	9036	[9823, 7811]
973	[1786, 1787]	3661	[2142, 5235]	6349	[504, 795]	9037	[8465, 1845]
974	[1788, 770]	3662	[5359, 5091]	6350	[7739, 2789]	9038	[7991, 586]
975	[620, 1756]	3663	[2337, 4948]	6351	[5866, 772]	9039	[8813, 2505]
976	[1789, 1790]	3664	[5360, 886]	6352	[8001, 2461]	9040	[9824, 4819]
977	[1791, 1792]	3665	[5361, 2760]	6353	[8002, 2177]	9041	[9825, 8334]
978	[1683, 1793]	3666	[5362, 137]	6354	[8003, 2642]	9042	[1934, 2183]
979	[1794, 1795]	3667	[5363, 5364]	6355	[4806, 640]	9043	[8632, 2009]
980	[1796, 752]	3668	[1758, 767]	6356	[2168, 2123]	9044	[5635, 723]
981	[1797, 1798]	3669	[2742, 723]	6357	[8004, 5761]	9045	[9826, 4963]
982	[1799, 1800]	3670	[5365, 5366]	6358	[5515, 5428]	9046	[9827, 7890]
983	[1801, 1802]	3671	[5367, 4942]	6359	[8005, 5630]	9047	[5700, 5337]
984	[7, 1803]	3672	[5368, 5045]	6360	[8006, 2019]	9048	[9828, 9829]
985	[1804, 671]	3673	[4727, 1902]	6361	[2642, 1843]	9049	[9830, 5468]
986	[1805, 1806]	3674	[5369, 878]	6362	[8007, 823]	9050	[9831, 4808]
987	[158, 1807]	3675	[5370, 5076]	6363	[8008, 4962]	9051	[8039, 58]
988	[1808, 590]	3676	[5371, 4768]	6364	[4536, 494]	9052	[9832, 4517]
989	[555, 1809]	3677	[2712, 2329]	6365	[2188, 5708]	9053	[9785, 5992]
990	[1810, 1811]	3678	[5372, 5333]	6366	[8009, 2780]	9054	[9833, 8404]
991	[785, 1812]	3679	[4945, 243]	6367	[2723, 2487]	9055	[9834, 9835]
992	[1813, 1814]	3680	[5373, 5374]	6368	[1753, 2094]	9056	[2163, 5559]
993	[1815, 1816]	3681	[844, 1700]	6369	[727, 5045]	9057	[9836, 1878]
994	[1817, 1818]	3682	[5375, 4854]	6370	[8010, 2571]	9058	[9837, 8098]
995	[1819, 235]	3683	[5376, 4684]	6371	[2724, 2440]	9059	[7950, 2196]
996	[1820, 1821]	3684	[899, 555]	6372	[8011, 760]	9060	[9838, 5603]
997	[1822, 1823]	3685	[2263, 2092]	6373	[8012, 5773]	9061	[2595, 4597]
998	[1824, 1825]	3686	[4727, 4926]	6374	[8013, 2619]	9062	[5218, 2419]
999	[1826, 1827]	3687	[5377, 5218]	6375	[8014, 5074]	9063	[634, 2447]
1000	[1828, 1829]	3688	[5378, 5379]	6376	[8015, 1870]	9064	[9804, 895]
1001	[1830, 1831]	3689	[5380, 824]	6377	[8016, 4901]	9065	[9839, 2007]
1002	[1832, 1833]	3690	[5381, 2241]	6378	[8017, 5585]	9066	[9840, 4581]
1003	[1834, 837]	3691	[5382, 5383]	6379	[8018, 5131]	9067	[651, 2775]
1004	[1835, 1836]	3692	[5384, 2750]	6380	[8019, 5066]	9068	[9841, 5267]
1005	[1837, 1838]	3693	[5107, 5385]	6381	[631, 145]	9069	[571, 126]
1006	[1839, 1840]	3694	[4527, 5178]	6382	[8020, 5911]	9070	[9842, 5449]

1007	[1841, 668]	3695	[5386, 1687]	6383	[1965, 4665]	9071	[9843, 4781]
1008	[1842, 1843]	3696	[5387, 1818]	6384	[5221, 1855]	9072	[9844, 8051]
1009	[1844, 52]	3697	[2051, 5388]	6385	[8021, 8022]	9073	[9845, 9846]
1010	[1845, 1846]	3698	[5389, 1912]	6386	[8023, 483]	9074	[9847, 2547]
1011	[1847, 1848]	3699	[5390, 2453]	6387	[4656, 4865]	9075	[9848, 759]
1012	[1710, 1849]	3700	[5391, 879]	6388	[8024, 2797]	9076	[8489, 2029]
1013	[1850, 1851]	3701	[5392, 45]	6389	[8025, 4933]	9077	[5089, 5146]
1014	[1852, 1853]	3702	[5393, 4654]	6390	[48, 1987]	9078	[9849, 2027]
1015	[1854, 1855]	3703	[1938, 4677]	6391	[8026, 2444]	9079	[9850, 9851]
1016	[772, 213]	3704	[5394, 5395]	6392	[8027, 42]	9080	[9852, 8448]
1017	[1856, 1857]	3705	[5396, 5397]	6393	[8028, 874]	9081	[5930, 131]
1018	[1858, 1859]	3706	[1981, 2056]	6394	[8029, 2648]	9082	[9853, 7831]
1019	[1860, 1861]	3707	[5398, 2235]	6395	[8030, 4602]	9083	[4594, 2198]
1020	[1862, 1863]	3708	[5399, 5061]	6396	[8031, 37]	9084	[9854, 2617]
1021	[1864, 1865]	3709	[5400, 5401]	6397	[8032, 4863]	9085	[9855, 697]
1022	[1866, 1867]	3710	[4869, 2116]	6398	[8033, 2599]	9086	[8636, 1902]
1023	[244, 1868]	3711	[5402, 4831]	6399	[2524, 1905]	9087	[8094, 716]
1024	[1869, 1870]	3712	[5403, 5047]	6400	[8034, 8035]	9088	[9856, 9857]
1025	[1871, 1872]	3713	[2432, 4871]	6401	[8036, 2161]	9089	[9858, 5470]
1026	[1873, 1760]	3714	[5404, 211]	6402	[2191, 735]	9090	[8148, 2661]
1027	[1874, 1875]	3715	[5405, 4899]	6403	[5583, 5536]	9091	[9859, 9860]
1028	[1876, 1877]	3716	[5406, 5351]	6404	[2163, 5273]	9092	[9861, 4587]
1029	[1878, 1879]	3717	[1891, 2253]	6405	[8037, 5091]	9093	[8203, 2311]
1030	[1880, 706]	3718	[5407, 5408]	6406	[8038, 7941]	9094	[9862, 2352]
1031	[1881, 1882]	3719	[5409, 2761]	6407	[4589, 582]	9095	[9863, 651]
1032	[1883, 1884]	3720	[5410, 241]	6408	[8039, 1705]	9096	[5899, 2598]
1033	[1885, 902]	3721	[5411, 5412]	6409	[8040, 1858]	9097	[7873, 1753]
1034	[1886, 1761]	3722	[5413, 5235]	6410	[4802, 649]	9098	[9864, 4658]
1035	[1887, 1888]	3723	[5414, 2510]	6411	[8041, 2642]	9099	[8032, 8222]
1036	[1889, 1890]	3724	[2254, 5415]	6412	[8042, 2550]	9100	[9865, 7875]
1037	[1891, 1892]	3725	[5135, 2497]	6413	[8043, 5556]	9101	[9866, 8696]
1038	[1893, 1894]	3726	[5416, 657]	6414	[8044, 4919]	9102	[506, 2267]
1039	[1895, 1896]	3727	[5417, 4568]	6415	[8045, 8046]	9103	[9867, 5738]
1040	[1897, 1707]	3728	[5418, 4731]	6416	[4782, 2083]	9104	[5295, 4763]
1041	[1898, 1755]	3729	[5419, 5388]	6417	[589, 2339]	9105	[9868, 8793]
1042	[1899, 1900]	3730	[2194, 4504]	6418	[8047, 4679]	9106	[9869, 9870]
1043	[1901, 1902]	3731	[5420, 534]	6419	[8048, 5004]	9107	[527, 533]
1044	[1903, 1824]	3732	[5421, 1746]	6420	[5372, 4842]	9108	[9871, 2716]
1045	[1904, 1905]	3733	[5422, 5098]	6421	[8049, 5128]	9109	[8396, 4782]
1046	[1906, 1907]	3734	[5423, 2257]	6422	[8050, 8051]	9110	[9872, 8371]
1047	[1908, 191]	3735	[5424, 1721]	6423	[541, 1715]	9111	[9873, 8579]
1048	[1909, 1910]	3736	[688, 2070]	6424	[8052, 2102]	9112	[2028, 487]
1049	[1911, 8]	3737	[2675, 4831]	6425	[8053, 2314]	9113	[5612, 1840]
1050	[226, 1912]	3738	[5425, 1936]	6426	[8054, 5342]	9114	[9874, 5784]

1051	[1913, 1914]	3739	[5426, 504]	6427	[7832, 2280]	9115	[9875, 5641]
1052	[1915, 1916]	3740	[5427, 5428]	6428	[8055, 2337]	9116	[8030, 1753]
1053	[1917, 1918]	3741	[4478, 4767]	6429	[525, 134]	9117	[9876, 2543]
1054	[1800, 647]	3742	[5429, 651]	6430	[8056, 5515]	9118	[9877, 4716]
1055	[1919, 1920]	3743	[2016, 236]	6431	[2779, 4583]	9119	[1764, 2561]
1056	[1921, 1922]	3744	[5430, 709]	6432	[8057, 7743]	9120	[9878, 1710]
1057	[1923, 1924]	3745	[5431, 4790]	6433	[8058, 2755]	9121	[2670, 2229]
1058	[1925, 1926]	3746	[5432, 5269]	6434	[1746, 5858]	9122	[9879, 8668]
1059	[1927, 1928]	3747	[5433, 5082]	6435	[8059, 2731]	9123	[224, 722]
1060	[1929, 1726]	3748	[1730, 891]	6436	[8060, 714]	9124	[9880, 2171]
1061	[1930, 1931]	3749	[5434, 2215]	6437	[5391, 817]	9125	[1924, 4804]
1062	[1932, 1929]	3750	[2628, 2542]	6438	[8061, 1973]	9126	[9881, 1782]
1063	[1933, 1934]	3751	[5435, 5436]	6439	[8062, 5499]	9127	[8402, 568]
1064	[1935, 1821]	3752	[5437, 2273]	6440	[5476, 565]	9128	[9882, 2296]
1065	[1936, 1937]	3753	[2530, 2777]	6441	[2009, 2502]	9129	[9883, 1930]
1066	[1938, 1939]	3754	[4815, 696]	6442	[8063, 8064]	9130	[9884, 9885]
1067	[1865, 1704]	3755	[5438, 4718]	6443	[8065, 8066]	9131	[9886, 4574]
1068	[1940, 1941]	3756	[1934, 2140]	6444	[8067, 4572]	9132	[9887, 5471]
1069	[1942, 1943]	3757	[5439, 5440]	6445	[8068, 2513]	9133	[9888, 9889]
1070	[1944, 1945]	3758	[689, 4589]	6446	[5755, 1851]	9134	[4571, 2355]
1071	[1946, 1947]	3759	[5441, 5442]	6447	[8069, 7823]	9135	[2675, 138]
1072	[1948, 1747]	3760	[43, 1793]	6448	[1783, 2070]	9136	[9890, 5953]
1073	[1949, 1950]	3761	[5443, 514]	6449	[572, 550]	9137	[9891, 8158]
1074	[1951, 1952]	3762	[5444, 2199]	6450	[8070, 8071]	9138	[9892, 8066]
1075	[1953, 1954]	3763	[5445, 5446]	6451	[8072, 8073]	9139	[4775, 610]
1076	[1955, 1956]	3764	[5447, 1929]	6452	[8074, 1739]	9140	[5867, 218]
1077	[799, 1957]	3765	[59, 662]	6453	[8075, 4482]	9141	[4561, 658]
1078	[1765, 1958]	3766	[5448, 5449]	6454	[8076, 5663]	9142	[9893, 5454]
1079	[1959, 1960]	3767	[5450, 2339]	6455	[8077, 2641]	9143	[2160, 707]
1080	[1961, 1889]	3768	[2411, 840]	6456	[8078, 2308]	9144	[9894, 2322]
1081	[1962, 1963]	3769	[2237, 739]	6457	[8079, 847]	9145	[9895, 5914]
1082	[1964, 170]	3770	[1823, 163]	6458	[8080, 8081]	9146	[8001, 4578]
1083	[1843, 1965]	3771	[5451, 2297]	6459	[8082, 139]	9147	[9896, 9889]
1084	[1966, 1967]	3772	[4480, 5452]	6460	[588, 5450]	9148	[2516, 2205]
1085	[1968, 891]	3773	[5453, 5454]	6461	[8083, 8084]	9149	[9897, 1991]
1086	[1969, 774]	3774	[5455, 5456]	6462	[8085, 8086]	9150	[9898, 1764]
1087	[1970, 1971]	3775	[4744, 2548]	6463	[5730, 2103]	9151	[5648, 596]
1088	[1972, 1973]	3776	[5457, 2084]	6464	[2187, 4504]	9152	[9814, 826]
1089	[178, 1974]	3777	[5458, 5459]	6465	[7997, 5518]	9153	[5527, 4502]
1090	[1975, 724]	3778	[489, 5152]	6466	[8087, 1786]	9154	[9899, 844]
1091	[1976, 569]	3779	[5460, 1815]	6467	[5568, 793]	9155	[9900, 8201]
1092	[1977, 615]	3780	[5461, 1938]	6468	[8088, 7890]	9156	[9901, 9857]
1093	[1978, 1979]	3781	[5462, 2356]	6469	[8089, 2085]	9157	[5573, 710]
1094	[1980, 1981]	3782	[5463, 4487]	6470	[5027, 2782]	9158	[9902, 5983]

1095	[1982, 1983]	3783	[509, 5047]	6471	[8090, 2069]	9159	[9903, 8349]
1096	[1984, 1985]	3784	[5464, 2048]	6472	[8091, 613]	9160	[9904, 5339]
1097	[1986, 1987]	3785	[4687, 4495]	6473	[876, 5499]	9161	[8224, 1795]
1098	[1762, 1988]	3786	[5465, 5466]	6474	[8092, 4591]	9162	[5942, 505]
1099	[1989, 1990]	3787	[5467, 1838]	6475	[2512, 2075]	9163	[9905, 1847]
1100	[1991, 1992]	3788	[5468, 4997]	6476	[8093, 8081]	9164	[9906, 5980]
1101	[1993, 1994]	3789	[1861, 823]	6477	[2093, 4603]	9165	[9907, 37]
1102	[1995, 1996]	3790	[5469, 2727]	6478	[8094, 4735]	9166	[9908, 5114]
1103	[1997, 1998]	3791	[5470, 5148]	6479	[523, 513]	9167	[9909, 653]
1104	[1999, 519]	3792	[5471, 5472]	6480	[7755, 1754]	9168	[9910, 2363]
1105	[2000, 2001]	3793	[5473, 5474]	6481	[8095, 2656]	9169	[9911, 8743]
1106	[2002, 2003]	3794	[1952, 901]	6482	[8096, 4617]	9170	[9912, 5658]
1107	[2004, 546]	3795	[5475, 5476]	6483	[8097, 8098]	9171	[2615, 5017]
1108	[2005, 2006]	3796	[5477, 3369]	6484	[8099, 4720]	9172	[9913, 7750]
1109	[2007, 895]	3797	[5478, 4498]	6485	[2232, 1929]	9173	[9914, 8834]
1110	[2008, 2009]	3798	[899, 737]	6486	[8100, 5026]	9174	[9915, 9916]
1111	[2010, 2011]	3799	[5360, 2150]	6487	[8101, 4489]	9175	[9917, 1689]
1112	[2012, 1728]	3800	[5189, 1757]	6488	[8102, 4749]	9176	[8407, 2678]
1113	[2013, 2014]	3801	[5479, 5059]	6489	[8103, 1921]	9177	[9918, 5489]
1114	[2015, 2016]	3802	[690, 582]	6490	[4971, 1786]	9178	[9919, 1842]
1115	[2017, 518]	3803	[5480, 888]	6491	[8104, 4704]	9179	[2449, 7993]
1116	[2018, 2019]	3804	[5481, 5482]	6492	[4968, 559]	9180	[9920, 2100]
1117	[2020, 2021]	3805	[5483, 4947]	6493	[8105, 533]	9181	[9776, 2098]
1118	[1932, 2022]	3806	[4693, 5183]	6494	[8106, 8107]	9182	[9921, 9922]
1119	[2023, 856]	3807	[1754, 1855]	6495	[2055, 2294]	9183	[1838, 867]
1120	[2024, 2025]	3808	[5484, 4899]	6496	[14, 5501]	9184	[9923, 8791]
1121	[2026, 10]	3809	[126, 5485]	6497	[8108, 8109]	9185	[9924, 2122]
1122	[2027, 499]	3810	[5486, 1690]	6498	[8110, 8111]	9186	[9925, 1749]
1123	[2028, 2029]	3811	[5487, 1910]	6499	[2118, 4593]	9187	[9926, 5727]
1124	[2030, 2031]	3812	[5488, 5489]	6500	[1925, 5159]	9188	[9927, 4827]
1125	[1965, 2032]	3813	[2393, 4786]	6501	[2264, 4601]	9189	[8296, 2440]
1126	[2033, 593]	3814	[5490, 5491]	6502	[8112, 197]	9190	[9928, 882]
1127	[2034, 1853]	3815	[5492, 2056]	6503	[2100, 1686]	9191	[8414, 822]
1128	[2035, 49]	3816	[5493, 1894]	6504	[1848, 4750]	9192	[5136, 1890]
1129	[2036, 46]	3817	[2069, 4722]	6505	[790, 1777]	9193	[9929, 9930]
1130	[2037, 2038]	3818	[5494, 5495]	6506	[2718, 5160]	9194	[8343, 619]
1131	[683, 2039]	3819	[5496, 5497]	6507	[5000, 5931]	9195	[9931, 9932]
1132	[2040, 2041]	3820	[5462, 5397]	6508	[2484, 245]	9196	[9933, 5200]
1133	[2042, 2043]	3821	[5498, 535]	6509	[8113, 7828]	9197	[9934, 5481]
1134	[2044, 2045]	3822	[4644, 537]	6510	[8114, 145]	9198	[9935, 9885]
1135	[2046, 147]	3823	[5331, 5499]	6511	[8115, 8116]	9199	[5018, 4872]
1136	[2047, 2048]	3824	[5500, 4917]	6512	[8117, 5960]	9200	[9807, 5684]
1137	[2049, 175]	3825	[1700, 559]	6513	[2418, 2269]	9201	[9936, 2467]
1138	[2050, 2051]	3826	[2287, 5501]	6514	[8118, 2718]	9202	[9937, 2275]

1139	[2052, 2053]	3827	[4746, 1811]	6515	[767, 5143]	9203	[4753, 688]
1140	[2054, 165]	3828	[5502, 1851]	6516	[8119, 8120]	9204	[9938, 5568]
1141	[2055, 2056]	3829	[5503, 2647]	6517	[8121, 2795]	9205	[9939, 2554]
1142	[2057, 2058]	3830	[4925, 2556]	6518	[8122, 8123]	9206	[5125, 553]
1143	[2059, 1989]	3831	[5504, 5505]	6519	[8124, 4806]	9207	[5506, 2315]
1144	[2060, 2061]	3832	[5506, 223]	6520	[2563, 793]	9208	[4637, 2367]
1145	[2062, 2063]	3833	[5507, 821]	6521	[2710, 4797]	9209	[9940, 9941]
1146	[2064, 2065]	3834	[5508, 2794]	6522	[8125, 5471]	9210	[5479, 1703]
1147	[2066, 2067]	3835	[2699, 2016]	6523	[5827, 5159]	9211	[8405, 2377]
1148	[2068, 2069]	3836	[5509, 1698]	6524	[8126, 8127]	9212	[8714, 712]
1149	[2070, 2071]	3837	[5510, 1762]	6525	[8128, 4542]	9213	[9942, 5495]
1150	[2072, 2073]	3838	[5511, 4727]	6526	[8129, 2281]	9214	[9943, 7934]
1151	[2074, 2075]	3839	[5512, 2253]	6527	[2049, 1922]	9215	[2121, 495]
1152	[2076, 2077]	3840	[5513, 4758]	6528	[8130, 2578]	9216	[9944, 9945]
1153	[2078, 2079]	3841	[5514, 2775]	6529	[773, 557]	9217	[1966, 858]
1154	[2080, 2081]	3842	[5515, 203]	6530	[1996, 2284]	9218	[8434, 2269]
1155	[2082, 865]	3843	[553, 1785]	6531	[8131, 1887]	9219	[9946, 4928]
1156	[2083, 700]	3844	[2144, 1899]	6532	[4730, 177]	9220	[9947, 2492]
1157	[2084, 2085]	3845	[5516, 2744]	6533	[8132, 5606]	9221	[7756, 1686]
1158	[813, 2086]	3846	[5517, 5518]	6534	[489, 5586]	9222	[9948, 2160]
1159	[2087, 2088]	3847	[5519, 2663]	6535	[5564, 1931]	9223	[5023, 203]
1160	[2089, 2090]	3848	[5520, 4513]	6536	[8133, 8134]	9224	[9949, 1787]
1161	[2091, 2092]	3849	[658, 5521]	6537	[8135, 8136]	9225	[9950, 2017]
1162	[1688, 1705]	3850	[5522, 5000]	6538	[8137, 8138]	9226	[136, 629]
1163	[2093, 2094]	3851	[5523, 4670]	6539	[212, 5521]	9227	[1890, 4706]
1164	[2095, 2096]	3852	[5524, 4792]	6540	[1724, 2237]	9228	[9951, 9952]
1165	[2097, 2098]	3853	[1680, 5027]	6541	[1998, 10]	9229	[5869, 4858]
1166	[2099, 2100]	3854	[5525, 5526]	6542	[8139, 4531]	9230	[9953, 7763]
1167	[2101, 820]	3855	[5527, 2071]	6543	[5558, 2196]	9231	[9954, 1883]
1168	[2102, 2103]	3856	[5528, 5529]	6544	[8140, 512]	9232	[9955, 1728]
1169	[2104, 484]	3857	[896, 4622]	6545	[5367, 2587]	9233	[9956, 8206]
1170	[2105, 2106]	3858	[5530, 2758]	6546	[8141, 8142]	9234	[9957, 9958]
1171	[539, 2107]	3859	[5026, 1751]	6547	[8143, 4663]	9235	[9959, 8623]
1172	[2108, 1922]	3860	[598, 5217]	6548	[1827, 1780]	9236	[2036, 2754]
1173	[2109, 2110]	3861	[5531, 5532]	6549	[8144, 5743]	9237	[2128, 489]
1174	[2111, 2112]	3862	[5533, 2364]	6550	[8145, 4992]	9238	[9960, 1872]
1175	[2113, 2114]	3863	[751, 2706]	6551	[5981, 778]	9239	[9961, 5209]
1176	[2115, 2116]	3864	[5534, 5535]	6552	[8146, 5532]	9240	[9962, 1759]
1177	[2117, 2118]	3865	[2790, 5536]	6553	[2396, 4942]	9241	[9963, 8203]
1178	[2119, 2120]	3866	[2352, 666]	6554	[8147, 5158]	9242	[9964, 2568]
1179	[2121, 2122]	3867	[4810, 815]	6555	[7927, 739]	9243	[9965, 2082]
1180	[2123, 186]	3868	[8, 4511]	6556	[8148, 5217]	9244	[613, 511]
1181	[1916, 2124]	3869	[5537, 155]	6557	[8149, 4754]	9245	[9966, 800]
1182	[580, 629]	3870	[5538, 5358]	6558	[4879, 2156]	9246	[5404, 2383]

1183	[2125, 2126]	3871	[5539, 5188]	6559	[1990, 2740]	9247	[516, 2496]
1184	[2127, 560]	3872	[4612, 2572]	6560	[8150, 5822]	9248	[8164, 5388]
1185	[2128, 2129]	3873	[2593, 2254]	6561	[8151, 2791]	9249	[5679, 1734]
1186	[628, 137]	3874	[49, 2021]	6562	[8152, 4555]	9250	[9967, 2256]
1187	[2130, 2131]	3875	[5540, 5541]	6563	[4620, 8153]	9251	[9968, 4526]
1188	[2132, 2133]	3876	[5542, 807]	6564	[8154, 626]	9252	[2756, 799]
1189	[2115, 2067]	3877	[683, 2598]	6565	[8155, 4928]	9253	[14, 788]
1190	[171, 1681]	3878	[2623, 5015]	6566	[5761, 4807]	9254	[8461, 8510]
1191	[2134, 572]	3879	[5543, 4973]	6567	[8156, 686]	9255	[9969, 8928]
1192	[2135, 2136]	3880	[5544, 2465]	6568	[2729, 233]	9256	[5251, 5518]
1193	[2014, 897]	3881	[1691, 1863]	6569	[8157, 8158]	9257	[9970, 5738]
1194	[2137, 2138]	3882	[4542, 2787]	6570	[8159, 1951]	9258	[9971, 9972]
1195	[2139, 2140]	3883	[5545, 5546]	6571	[7930, 4891]	9259	[2422, 5405]
1196	[2141, 849]	3884	[5547, 1771]	6572	[8160, 4809]	9260	[9973, 8244]
1197	[2142, 608]	3885	[5548, 2611]	6573	[8018, 5774]	9261	[8709, 1806]
1198	[2143, 2144]	3886	[162, 2011]	6574	[8161, 178]	9262	[7881, 2174]
1199	[2145, 2146]	3887	[5549, 498]	6575	[2773, 2760]	9263	[9974, 5009]
1200	[1926, 775]	3888	[2328, 5550]	6576	[8162, 648]	9264	[5431, 1746]
1201	[2147, 2148]	3889	[533, 153]	6577	[8163, 2628]	9265	[2564, 4583]
1202	[2149, 533]	3890	[5551, 587]	6578	[8164, 5472]	9266	[9975, 7860]
1203	[567, 2150]	3891	[5552, 5171]	6579	[8165, 5073]	9267	[9976, 1701]
1204	[2151, 856]	3892	[1987, 770]	6580	[8166, 1900]	9268	[5668, 2058]
1205	[1706, 2152]	3893	[5553, 760]	6581	[546, 4790]	9269	[1776, 791]
1206	[2153, 2154]	3894	[13, 2053]	6582	[836, 241]	9270	[9977, 2314]
1207	[2155, 2156]	3895	[5554, 5555]	6583	[161, 5870]	9271	[8011, 639]
1208	[2157, 2158]	3896	[5556, 2353]	6584	[5328, 4871]	9272	[9978, 1775]
1209	[2159, 797]	3897	[5557, 2306]	6585	[8167, 4517]	9273	[4918, 4563]
1210	[2160, 2161]	3898	[5558, 2086]	6586	[7748, 4898]	9274	[807, 245]
1211	[2162, 2163]	3899	[5559, 4600]	6587	[8168, 5609]	9275	[9979, 5285]
1212	[2164, 187]	3900	[5560, 5032]	6588	[8169, 5829]	9276	[9863, 704]
1213	[699, 2165]	3901	[5561, 774]	6589	[4654, 526]	9277	[8885, 1736]
1214	[2166, 1963]	3902	[5562, 828]	6590	[8170, 8171]	9278	[9980, 161]
1215	[2167, 2168]	3903	[864, 1994]	6591	[5061, 4935]	9279	[8218, 2396]
1216	[2169, 1854]	3904	[5563, 1921]	6592	[5123, 2190]	9280	[9981, 5651]
1217	[2170, 2171]	3905	[5564, 4702]	6593	[8172, 8173]	9281	[9982, 9983]
1218	[2172, 2000]	3906	[2139, 2183]	6594	[8174, 8175]	9282	[518, 2524]
1219	[2173, 1899]	3907	[5565, 1983]	6595	[8176, 1721]	9283	[9984, 2084]
1220	[2174, 2175]	3908	[5566, 4940]	6596	[8177, 4565]	9284	[4565, 875]
1221	[2176, 2177]	3909	[2082, 1994]	6597	[8178, 8179]	9285	[9985, 5285]
1222	[2178, 2179]	3910	[5567, 692]	6598	[552, 544]	9286	[5784, 4965]
1223	[2180, 2181]	3911	[5568, 5569]	6599	[8180, 8181]	9287	[9986, 7871]
1224	[195, 787]	3912	[5570, 2622]	6600	[8182, 4781]	9288	[9987, 4644]
1225	[2182, 144]	3913	[5571, 2330]	6601	[7852, 2514]	9289	[9962, 767]
1226	[2183, 2184]	3914	[5572, 1767]	6602	[1849, 1902]	9290	[9988, 5443]

1227	[2185, 2186]	3915	[2453, 2217]	6603	[8183, 8184]	9291	[9989, 7988]
1228	[2187, 2188]	3916	[5573, 654]	6604	[8185, 1986]	9292	[9990, 9991]
1229	[2189, 2190]	3917	[4502, 2208]	6605	[2712, 5550]	9293	[9992, 9993]
1230	[2191, 2192]	3918	[5181, 711]	6606	[8186, 899]	9294	[8433, 5452]
1231	[2193, 2194]	3919	[5574, 905]	6607	[8187, 620]	9295	[2740, 7773]
1232	[2195, 2196]	3920	[5575, 904]	6608	[511, 4655]	9296	[1852, 4588]
1233	[2197, 2198]	3921	[4984, 5178]	6609	[8188, 5979]	9297	[8067, 2783]
1234	[2199, 2200]	3922	[5576, 5077]	6610	[207, 2779]	9298	[5537, 4713]
1235	[2201, 2202]	3923	[1950, 5044]	6611	[4613, 2675]	9299	[564, 2190]
1236	[2203, 1987]	3924	[5577, 5016]	6612	[8189, 8190]	9300	[4996, 1910]
1237	[2204, 2205]	3925	[1868, 4480]	6613	[8191, 5571]	9301	[9994, 2414]
1238	[50, 2206]	3926	[2699, 1942]	6614	[8192, 2525]	9302	[5187, 1899]
1239	[2207, 2208]	3927	[5578, 2045]	6615	[1687, 1704]	9303	[2134, 1992]
1240	[2209, 2210]	3928	[5579, 4978]	6616	[8193, 8194]	9304	[9995, 5633]
1241	[2211, 2212]	3929	[5580, 2688]	6617	[4962, 2765]	9305	[2180, 237]
1242	[2213, 2214]	3930	[2491, 858]	6618	[8195, 8196]	9306	[9996, 1790]
1243	[716, 2215]	3931	[5581, 5503]	6619	[8197, 1716]	9307	[9997, 8678]
1244	[2216, 540]	3932	[5582, 5117]	6620	[8198, 2082]	9308	[9998, 5545]
1245	[2217, 2129]	3933	[5583, 2791]	6621	[8199, 2688]	9309	[9949, 5058]
1246	[2218, 2219]	3934	[5584, 5585]	6622	[4659, 489]	9310	[9999, 7884]
1247	[2220, 2063]	3935	[625, 2494]	6623	[8200, 8201]	9311	[1778, 5146]
1248	[2221, 2028]	3936	[2129, 5586]	6624	[4788, 823]	9312	[10000, 10001]
1249	[2222, 2223]	3937	[4834, 696]	6625	[1829, 4568]	9313	[2110, 1839]
1250	[2224, 2225]	3938	[5587, 5213]	6626	[5874, 2181]	9314	[10002, 545]
1251	[2226, 2227]	3939	[2755, 1784]	6627	[8202, 8203]	9315	[5046, 4912]
1252	[2228, 2229]	3940	[5125, 525]	6628	[8204, 4830]	9316	[10003, 8046]
1253	[883, 2226]	3941	[5588, 5301]	6629	[8205, 146]	9317	[10004, 2392]
1254	[2230, 2139]	3942	[5589, 5590]	6630	[8206, 2496]	9318	[10005, 10001]
1255	[2231, 2232]	3943	[5591, 2244]	6631	[870, 2544]	9319	[10006, 872]
1256	[2227, 2233]	3944	[729, 1780]	6632	[8207, 686]	9320	[10007, 1717]
1257	[2234, 2235]	3945	[5592, 524]	6633	[8208, 5176]	9321	[4861, 2614]
1258	[2236, 2237]	3946	[1947, 2542]	6634	[4736, 2756]	9322	[10008, 10009]
1259	[2238, 2239]	3947	[5593, 2534]	6635	[8209, 2028]	9323	[10010, 5350]
1260	[2240, 2241]	3948	[5594, 4949]	6636	[8210, 7944]	9324	[5798, 1815]
1261	[729, 2242]	3949	[5303, 5595]	6637	[4695, 2282]	9325	[10011, 4811]
1262	[2243, 2104]	3950	[5596, 5597]	6638	[8211, 8212]	9326	[10012, 5831]
1263	[2244, 2245]	3951	[5598, 647]	6639	[500, 4804]	9327	[2359, 227]
1264	[2246, 2247]	3952	[5599, 5600]	6640	[8213, 5038]	9328	[5591, 4965]
1265	[2248, 2249]	3953	[5601, 2729]	6641	[906, 5546]	9329	[10013, 2334]
1266	[2250, 2251]	3954	[845, 559]	6642	[8214, 854]	9330	[10014, 7819]
1267	[2252, 2253]	3955	[5602, 2183]	6643	[8215, 5866]	9331	[9936, 243]
1268	[2254, 2255]	3956	[5603, 4971]	6644	[2017, 5546]	9332	[1991, 572]
1269	[2256, 2257]	3957	[5604, 5255]	6645	[1727, 5194]	9333	[10015, 2231]
1270	[2258, 694]	3958	[568, 2448]	6646	[8216, 8071]	9334	[10016, 9958]

1271	[2259, 2260]	3959	[5605, 5606]	6647	[8217, 2291]	9335	[10017, 2790]
1272	[2261, 2262]	3960	[4669, 5607]	6648	[5314, 7740]	9336	[8916, 5848]
1273	[2263, 2148]	3961	[4879, 1867]	6649	[8218, 1690]	9337	[5057, 1787]
1274	[2264, 2265]	3962	[5608, 5609]	6650	[8219, 5558]	9338	[10018, 10019]
1275	[2266, 2267]	3963	[5610, 159]	6651	[639, 8]	9339	[4856, 2063]
1276	[2268, 2269]	3964	[5611, 1762]	6652	[8220, 4818]	9340	[10020, 5884]
1277	[2270, 141]	3965	[4670, 782]	6653	[7786, 4502]	9341	[10021, 8728]
1278	[2271, 2272]	3966	[1840, 1734]	6654	[5673, 829]	9342	[4711, 829]
1279	[2273, 2274]	3967	[5471, 5388]	6655	[8221, 2546]	9343	[10022, 2]
1280	[2275, 2168]	3968	[5612, 2118]	6656	[2117, 1840]	9344	[10023, 5547]
1281	[2276, 2277]	3969	[5613, 718]	6657	[7975, 2424]	9345	[5851, 572]
1282	[2278, 1725]	3970	[2367, 5306]	6658	[714, 8222]	9346	[10024, 8283]
1283	[2279, 2280]	3971	[811, 5614]	6659	[8223, 4736]	9347	[10025, 1833]
1284	[2281, 2282]	3972	[4670, 783]	6660	[8224, 1957]	9348	[10026, 5366]
1285	[1794, 1957]	3973	[5615, 542]	6661	[8225, 579]	9349	[2739, 5239]
1286	[2283, 2284]	3974	[2660, 209]	6662	[8226, 8227]	9350	[5185, 4597]
1287	[2285, 2286]	3975	[5616, 2]	6663	[2547, 2592]	9351	[10027, 7799]
1288	[2287, 788]	3976	[5617, 5547]	6664	[8228, 4546]	9352	[8491, 5094]
1289	[2288, 667]	3977	[5618, 4725]	6665	[8229, 4569]	9353	[4478, 1956]
1290	[2289, 2290]	3978	[5619, 597]	6666	[8230, 2432]	9354	[10028, 9932]
1291	[2061, 2291]	3979	[5620, 1763]	6667	[1858, 731]	9355	[10029, 682]
1292	[2292, 2293]	3980	[1803, 5621]	6668	[8231, 4909]	9356	[10030, 10031]
1293	[2294, 2295]	3981	[5622, 705]	6669	[4577, 2461]	9357	[1883, 2355]
1294	[2296, 2297]	3982	[33, 2424]	6670	[8232, 8233]	9358	[9924, 495]
1295	[2298, 1977]	3983	[5130, 4550]	6671	[8234, 2694]	9359	[10032, 10033]
1296	[2299, 2029]	3984	[190, 2744]	6672	[2277, 4647]	9360	[8415, 1967]
1297	[2300, 1739]	3985	[5623, 5624]	6673	[5944, 899]	9361	[10034, 2381]
1298	[2301, 621]	3986	[5625, 5559]	6674	[8235, 8236]	9362	[8269, 5952]
1299	[2302, 61]	3987	[5626, 2141]	6675	[2706, 2389]	9363	[2217, 489]
1300	[2303, 514]	3988	[5382, 5107]	6676	[8237, 8196]	9364	[10035, 5702]
1301	[2304, 1743]	3989	[5627, 4738]	6677	[4930, 5225]	9365	[10036, 5727]
1302	[2305, 2306]	3990	[5628, 2198]	6678	[5007, 4605]	9366	[10037, 5121]
1303	[2307, 2308]	3991	[5629, 5482]	6679	[8238, 170]	9367	[4882, 38]
1304	[1827, 2242]	3992	[5630, 5631]	6680	[2274, 711]	9368	[10038, 8173]
1305	[2309, 2310]	3993	[5632, 5633]	6681	[8239, 5241]	9369	[4701, 1931]
1306	[2311, 538]	3994	[5634, 2066]	6682	[5039, 1996]	9370	[10039, 4961]
1307	[2312, 2313]	3995	[5635, 1723]	6683	[8240, 757]	9371	[9823, 5954]
1308	[2314, 2315]	3996	[5636, 2677]	6684	[8241, 147]	9372	[5847, 8854]
1309	[2316, 2317]	3997	[5021, 592]	6685	[8242, 5644]	9373	[9873, 5384]
1310	[2318, 2319]	3998	[4521, 720]	6686	[714, 4863]	9374	[2750, 5383]
1311	[2320, 2321]	3999	[5637, 794]	6687	[8243, 8244]	9375	[8838, 553]
1312	[2322, 2323]	4000	[2272, 567]	6688	[8245, 5794]	9376	[10040, 10041]
1313	[2324, 2325]	4001	[4519, 4682]	6689	[1835, 4557]	9377	[2787, 899]
1314	[2326, 2327]	4002	[2081, 4748]	6690	[855, 2512]	9378	[10042, 7860]

1315	[2328, 2329]	4003	[5638, 5639]	6691	[8246, 875]	9379	[8921, 2152]
1316	[2330, 2331]	4004	[5640, 5641]	6692	[5829, 56]	9380	[4671, 4706]
1317	[2332, 2333]	4005	[5642, 5350]	6693	[645, 1990]	9381	[10043, 8353]
1318	[2334, 878]	4006	[5643, 5644]	6694	[8247, 1771]	9382	[10044, 860]
1319	[1890, 2335]	4007	[5645, 36]	6695	[8248, 4615]	9383	[10045, 8644]
1320	[2336, 2337]	4008	[5646, 2594]	6696	[8249, 2070]	9384	[609, 766]
1321	[2338, 2339]	4009	[5647, 4685]	6697	[8250, 5990]	9385	[10046, 844]
1322	[2340, 209]	4010	[1885, 700]	6698	[8251, 2282]	9386	[10047, 10048]
1323	[2341, 1752]	4011	[5648, 1857]	6699	[1870, 1680]	9387	[5517, 2609]
1324	[2342, 526]	4012	[5356, 1754]	6700	[8252, 2793]	9388	[607, 5235]
1325	[2343, 2344]	4013	[5649, 883]	6701	[8253, 4881]	9389	[5381, 5953]
1326	[815, 2092]	4014	[5650, 5651]	6702	[1903, 38]	9390	[8788, 1894]
1327	[2345, 796]	4015	[2166, 1726]	6703	[4971, 5057]	9391	[5392, 4750]
1328	[2244, 1712]	4016	[5652, 5308]	6704	[8254, 7773]	9392	[1800, 5614]
1329	[805, 690]	4017	[171, 5027]	6705	[8255, 5090]	9393	[4602, 2094]
1330	[2346, 2347]	4018	[4788, 2568]	6706	[8256, 2242]	9394	[8197, 2654]
1331	[2348, 2349]	4019	[5653, 5654]	6707	[7860, 2270]	9395	[10049, 5628]
1332	[2350, 2351]	4020	[5655, 5353]	6708	[8257, 8258]	9396	[2162, 2455]
1333	[2352, 1745]	4021	[4621, 897]	6709	[2386, 731]	9397	[4964, 219]
1334	[763, 2353]	4022	[5656, 657]	6710	[8259, 2199]	9398	[8591, 509]
1335	[2354, 2355]	4023	[4874, 2475]	6711	[7827, 4635]	9399	[5724, 1843]
1336	[1692, 2356]	4024	[5657, 5658]	6712	[8260, 685]	9400	[182, 598]
1337	[2052, 14]	4025	[5556, 764]	6713	[8261, 2376]	9401	[10050, 2429]
1338	[2357, 1786]	4026	[5659, 708]	6714	[1880, 1767]	9402	[2329, 195]
1339	[2358, 2359]	4027	[2360, 2147]	6715	[4699, 1943]	9403	[10051, 4752]
1340	[2360, 815]	4028	[5542, 244]	6716	[8262, 2138]	9404	[10052, 2529]
1341	[2361, 2362]	4029	[187, 5335]	6717	[5907, 2728]	9405	[5826, 2357]
1342	[2363, 2364]	4030	[5660, 5661]	6718	[5205, 849]	9406	[715, 4735]
1343	[2365, 2227]	4031	[5662, 5663]	6719	[8263, 200]	9407	[10053, 601]
1344	[2366, 2367]	4032	[587, 2550]	6720	[7752, 181]	9408	[10054, 10055]
1345	[862, 851]	4033	[5664, 1887]	6721	[8264, 4534]	9409	[10056, 8840]
1346	[2368, 2369]	4034	[5665, 5450]	6722	[8265, 8266]	9410	[242, 2467]
1347	[2370, 1831]	4035	[5666, 590]	6723	[8267, 5164]	9411	[4928, 131]
1348	[2371, 2372]	4036	[5667, 4874]	6724	[5790, 5044]	9412	[4553, 141]
1349	[2373, 2094]	4037	[832, 582]	6725	[201, 2123]	9413	[10057, 1931]
1350	[2374, 1724]	4038	[5668, 2229]	6726	[8268, 4744]	9414	[1893, 2415]
1351	[2375, 1863]	4039	[2357, 5057]	6727	[5846, 8269]	9415	[10058, 893]
1352	[2376, 2377]	4040	[5023, 5428]	6728	[8270, 638]	9416	[2401, 2430]
1353	[2378, 2379]	4041	[5669, 5670]	6729	[7858, 1787]	9417	[10059, 2617]
1354	[237, 835]	4042	[4761, 2760]	6730	[766, 4949]	9418	[4883, 5274]
1355	[2380, 154]	4043	[5671, 5672]	6731	[1982, 1812]	9419	[10060, 2628]
1356	[2381, 2382]	4044	[5673, 4746]	6732	[8271, 2169]	9420	[799, 1795]
1357	[1775, 2097]	4045	[5674, 5675]	6733	[8272, 146]	9421	[10061, 8295]
1358	[1967, 2383]	4046	[4546, 2789]	6734	[8273, 5414]	9422	[2144, 4692]

1359	[2384, 2385]	4047	[5676, 1699]	6735	[8274, 5337]	9423	[2396, 2587]
1360	[2386, 1859]	4048	[2243, 615]	6736	[8275, 5564]	9424	[10062, 1935]
1361	[2387, 2388]	4049	[5677, 5678]	6737	[2167, 201]	9425	[10063, 10064]
1362	[2389, 2390]	4050	[5679, 4593]	6738	[4954, 2475]	9426	[10065, 5556]
1363	[2391, 497]	4051	[1972, 5405]	6739	[8276, 709]	9427	[9820, 8286]
1364	[2392, 1861]	4052	[5680, 1905]	6740	[2679, 5157]	9428	[10066, 4649]
1365	[2393, 2394]	4053	[5681, 5682]	6741	[5726, 1786]	9429	[10067, 8308]
1366	[2395, 2396]	4054	[5551, 1985]	6742	[2469, 1814]	9430	[4956, 4780]
1367	[216, 1831]	4055	[5683, 5684]	6743	[8277, 5153]	9431	[10068, 2416]
1368	[2397, 2398]	4056	[5685, 5686]	6744	[8278, 7864]	9432	[4633, 4735]
1369	[2399, 2400]	4057	[5687, 1738]	6745	[7958, 2140]	9433	[10069, 5773]
1370	[2401, 521]	4058	[5688, 841]	6746	[8279, 5884]	9434	[1963, 1882]
1371	[2402, 2403]	4059	[5689, 5690]	6747	[8280, 8281]	9435	[10070, 2281]
1372	[2404, 2405]	4060	[5691, 5160]	6748	[8282, 8283]	9436	[10071, 5978]
1373	[2406, 2407]	4061	[571, 2097]	6749	[5706, 2757]	9437	[2727, 702]
1374	[9, 2408]	4062	[5692, 4660]	6750	[5844, 3369]	9438	[10072, 8731]
1375	[2409, 743]	4063	[5693, 2354]	6751	[8284, 7837]	9439	[566, 4748]
1376	[2410, 2411]	4064	[161, 4858]	6752	[8168, 4617]	9440	[8596, 2514]
1377	[2412, 2413]	4065	[5663, 1741]	6753	[8285, 2602]	9441	[10073, 4992]
1378	[2414, 2415]	4066	[5694, 5695]	6754	[5950, 8286]	9442	[7861, 1956]
1379	[2416, 591]	4067	[2059, 645]	6755	[8287, 8288]	9443	[10074, 4669]
1380	[2417, 662]	4068	[2776, 741]	6756	[5950, 5381]	9444	[8563, 2781]
1381	[2418, 2347]	4069	[5696, 134]	6757	[8019, 5712]	9445	[10075, 4873]
1382	[2043, 2419]	4070	[5449, 131]	6758	[8289, 2363]	9446	[10076, 2480]
1383	[2420, 2421]	4071	[4750, 2754]	6759	[5786, 594]	9447	[727, 509]
1384	[2422, 1973]	4072	[5697, 2569]	6760	[8290, 8291]	9448	[5250, 1700]
1385	[2423, 2424]	4073	[5486, 2396]	6761	[8292, 5755]	9449	[2216, 2107]
1386	[542, 1716]	4074	[5698, 2555]	6762	[1761, 2226]	9450	[127, 1814]
1387	[2425, 214]	4075	[5699, 4965]	6763	[8293, 1830]	9451	[10077, 10078]
1388	[2426, 2427]	4076	[780, 2534]	6764	[5091, 2382]	9452	[5601, 2206]
1389	[2428, 2340]	4077	[4510, 5621]	6765	[7886, 4722]	9453	[10079, 894]
1390	[2429, 2430]	4078	[2640, 5146]	6766	[8294, 8295]	9454	[2057, 2229]
1391	[2431, 588]	4079	[5700, 5595]	6767	[8296, 2690]	9455	[10080, 8142]
1392	[2432, 220]	4080	[889, 2001]	6768	[8297, 2112]	9456	[5147, 4529]
1393	[2433, 2434]	4081	[5701, 5702]	6769	[2447, 569]	9457	[10081, 9846]
1394	[2435, 2436]	4082	[5703, 5704]	6770	[8298, 8299]	9458	[1944, 2572]
1395	[2437, 2438]	4083	[2303, 1896]	6771	[8300, 2632]	9459	[5782, 497]
1396	[2439, 2440]	4084	[5705, 536]	6772	[5336, 1730]	9460	[10082, 5535]
1397	[866, 2441]	4085	[5002, 36]	6773	[8301, 8302]	9461	[2045, 4504]
1398	[2177, 785]	4086	[5706, 131]	6774	[8303, 2448]	9462	[154, 4713]
1399	[2442, 2443]	4087	[5501, 673]	6775	[2248, 875]	9463	[10083, 5883]
1400	[2444, 2445]	4088	[5707, 680]	6776	[8304, 8305]	9464	[10084, 7844]
1401	[2446, 858]	4089	[4713, 852]	6777	[2471, 621]	9465	[1917, 132]
1402	[2447, 2448]	4090	[5708, 2344]	6778	[8306, 4610]	9466	[10085, 809]

1403	[2449, 485]	4091	[5709, 5710]	6779	[8307, 8308]	9467	[5776, 4871]
1404	[2450, 2451]	4092	[5711, 5712]	6780	[8309, 4757]	9468	[10086, 2139]
1405	[1975, 1845]	4093	[823, 4519]	6781	[8310, 4687]	9469	[10087, 8401]
1406	[2452, 2453]	4094	[5713, 5699]	6782	[8311, 1995]	9470	[10088, 5629]
1407	[2454, 2455]	4095	[1830, 1760]	6783	[5000, 822]	9471	[4771, 1952]
1408	[2456, 680]	4096	[878, 817]	6784	[4494, 4688]	9472	[10089, 226]
1409	[2457, 768]	4097	[5714, 2206]	6785	[8312, 630]	9473	[10090, 5960]
1410	[2458, 2459]	4098	[595, 1857]	6786	[2259, 205]	9474	[10091, 2064]
1411	[2460, 2461]	4099	[5715, 4800]	6787	[598, 2661]	9475	[2333, 2514]
1412	[2462, 2463]	4100	[5716, 5568]	6788	[8313, 219]	9476	[10092, 882]
1413	[2464, 2163]	4101	[706, 4769]	6789	[5423, 2631]	9477	[10093, 752]
1414	[2222, 1730]	4102	[5717, 4498]	6790	[5822, 4935]	9478	[7890, 2416]
1415	[2465, 2466]	4103	[5718, 5436]	6791	[8314, 8315]	9479	[10094, 10048]
1416	[867, 2467]	4104	[5450, 2146]	6792	[8316, 817]	9480	[10095, 10096]
1417	[2468, 2469]	4105	[5719, 5501]	6793	[8317, 2149]	9481	[10097, 5194]
1418	[2470, 625]	4106	[5720, 4511]	6794	[7777, 2777]	9482	[8602, 1680]
1419	[2471, 1756]	4107	[5209, 2174]	6795	[8318, 5290]	9483	[10098, 8795]
1420	[1996, 130]	4108	[716, 2576]	6796	[146, 2525]	9484	[653, 710]
1421	[2472, 2473]	4109	[5721, 1739]	6797	[8319, 2602]	9485	[5985, 4508]
1422	[2474, 2475]	4110	[5722, 4800]	6798	[8320, 4654]	9486	[10099, 7847]
1423	[2079, 205]	4111	[2570, 244]	6799	[8321, 1947]	9487	[10100, 7894]
1424	[2476, 2477]	4112	[5723, 750]	6800	[8322, 4708]	9488	[2500, 1965]
1425	[2478, 227]	4113	[5724, 2500]	6801	[8323, 2691]	9489	[10101, 8212]
1426	[2479, 2480]	4114	[5725, 158]	6802	[8324, 641]	9490	[10102, 4802]
1427	[2481, 907]	4115	[5726, 5057]	6803	[8325, 8326]	9491	[2797, 536]
1428	[2482, 2483]	4116	[5727, 5094]	6804	[2123, 4527]	9492	[2637, 8508]
1429	[2484, 1868]	4117	[2757, 132]	6805	[1838, 4945]	9493	[10103, 9779]
1430	[2085, 2083]	4118	[5728, 2449]	6806	[8327, 8328]	9494	[5991, 5259]
1431	[2485, 1822]	4119	[149, 2490]	6807	[8062, 877]	9495	[10104, 2778]
1432	[2486, 2487]	4120	[5729, 864]	6808	[625, 1769]	9496	[5543, 5077]
1433	[2488, 540]	4121	[5730, 2385]	6809	[8329, 5686]	9497	[8096, 5609]
1434	[2489, 2490]	4122	[662, 5343]	6810	[5038, 2631]	9498	[4876, 2427]
1435	[2491, 1967]	4123	[692, 707]	6811	[8330, 4570]	9499	[10105, 10064]
1436	[2492, 2416]	4124	[5731, 4544]	6812	[5720, 5621]	9500	[5853, 179]
1437	[2294, 2006]	4125	[2625, 556]	6813	[858, 2383]	9501	[8567, 2136]
1438	[2493, 2494]	4126	[5732, 5733]	6814	[856, 2075]	9502	[7816, 8579]
1439	[2495, 2496]	4127	[5734, 5735]	6815	[8331, 2429]	9503	[4904, 4589]
1440	[2009, 2497]	4128	[519, 4920]	6816	[8332, 2305]	9504	[8620, 62]
1441	[2258, 2498]	4129	[5736, 4809]	6817	[8333, 8334]	9505	[5896, 1818]
1442	[2499, 801]	4130	[204, 2260]	6818	[650, 704]	9506	[10106, 8340]
1443	[2500, 2501]	4131	[5737, 2397]	6819	[8335, 5030]	9507	[5845, 3369]
1444	[151, 2039]	4132	[720, 1838]	6820	[2295, 1836]	9508	[8853, 2638]
1445	[2502, 2503]	4133	[5738, 1932]	6821	[8336, 5377]	9509	[10107, 880]
1446	[1739, 2504]	4134	[5739, 2359]	6822	[8337, 2421]	9510	[10108, 2605]

1447	[2398, 2284]	4135	[5740, 4560]	6823	[5919, 185]	9511	[10109, 10110]
1448	[2505, 1983]	4136	[5741, 5259]	6824	[8338, 8109]	9512	[8251, 143]
1449	[2506, 881]	4137	[5742, 5743]	6825	[8339, 8340]	9513	[10111, 2624]
1450	[2507, 1892]	4138	[5744, 5708]	6826	[8166, 2645]	9514	[10112, 5962]
1451	[2508, 1778]	4139	[5745, 1928]	6827	[4846, 1950]	9515	[10113, 9781]
1452	[2509, 2510]	4140	[5746, 5747]	6828	[7744, 4810]	9516	[10114, 5041]
1453	[2511, 2512]	4141	[2388, 1837]	6829	[8341, 8342]	9517	[5822, 5456]
1454	[2513, 2514]	4142	[5748, 4660]	6830	[8343, 1846]	9518	[10115, 7902]
1455	[2515, 803]	4143	[1998, 2408]	6831	[8344, 190]	9519	[10116, 2588]
1456	[2516, 2517]	4144	[1953, 5157]	6832	[8345, 627]	9520	[10117, 548]
1457	[2518, 595]	4145	[5749, 2243]	6833	[8346, 8266]	9521	[10118, 2635]
1458	[2519, 871]	4146	[5750, 2077]	6834	[8347, 2620]	9522	[10119, 5263]
1459	[2520, 2075]	4147	[4810, 2147]	6835	[8348, 8349]	9523	[10120, 8642]
1460	[2521, 2522]	4148	[5751, 5752]	6836	[2556, 902]	9524	[10121, 7827]
1461	[2523, 2524]	4149	[5753, 4633]	6837	[8350, 216]	9525	[10122, 4596]
1462	[2046, 2525]	4150	[5754, 2587]	6838	[8351, 5607]	9526	[5703, 2200]
1463	[2526, 1969]	4151	[5755, 1702]	6839	[8352, 8353]	9527	[10123, 5054]
1464	[1935, 748]	4152	[5756, 2782]	6840	[4995, 538]	9528	[1878, 2110]
1465	[2527, 2528]	4153	[5757, 2738]	6841	[8256, 1780]	9529	[4548, 8854]
1466	[2529, 2530]	4154	[4519, 4507]	6842	[1968, 4585]	9530	[8854, 8462]
1467	[2531, 2532]	4155	[5758, 5759]	6843	[8354, 1764]	9531	[10124, 1920]
1468	[843, 1759]	4156	[594, 1989]	6844	[5157, 5712]	9532	[10125, 5975]
1469	[2178, 2475]	4157	[1701, 1851]	6845	[7739, 4848]	9533	[8082, 2313]
1470	[2533, 2534]	4158	[5760, 5761]	6846	[2459, 5063]	9534	[10126, 222]
1471	[737, 2535]	4159	[5762, 503]	6847	[8355, 4556]	9535	[10127, 8652]
1472	[1859, 2536]	4160	[4834, 675]	6848	[8356, 2548]	9536	[10128, 5261]
1473	[2537, 2538]	4161	[5763, 5704]	6849	[5908, 518]	9537	[10129, 5474]
1474	[126, 2098]	4162	[5728, 484]	6850	[7979, 2620]	9538	[10130, 2615]
1475	[2539, 2540]	4163	[5764, 762]	6851	[8357, 504]	9539	[9799, 5952]
1476	[2541, 2542]	4164	[1943, 237]	6852	[2331, 2125]	9540	[10131, 5487]
1477	[2543, 2544]	4165	[5765, 4597]	6853	[8358, 8222]	9541	[4832, 2011]
1478	[2545, 2546]	4166	[5766, 5767]	6854	[8359, 4875]	9542	[10132, 7821]
1479	[2547, 2548]	4167	[5768, 2043]	6855	[1899, 2645]	9543	[10133, 2454]
1480	[2549, 2441]	4168	[5769, 2265]	6856	[8360, 4713]	9544	[4616, 5609]
1481	[1985, 2550]	4169	[5770, 5771]	6857	[8361, 193]	9545	[10134, 2605]
1482	[2551, 2346]	4170	[4969, 2640]	6858	[8362, 2570]	9546	[10135, 2608]
1483	[2552, 537]	4171	[5772, 4673]	6859	[8363, 682]	9547	[10136, 10096]
1484	[561, 2267]	4172	[5773, 5774]	6860	[8364, 5029]	9548	[10137, 624]
1485	[1698, 568]	4173	[5775, 5776]	6861	[2526, 556]	9549	[10138, 2708]
1486	[2553, 2530]	4174	[5777, 852]	6862	[8365, 8366]	9550	[1860, 4788]
1487	[2554, 2555]	4175	[5778, 5779]	6863	[8367, 5188]	9551	[10139, 4685]
1488	[2556, 700]	4176	[5780, 4668]	6864	[8368, 2491]	9552	[1823, 2011]
1489	[2557, 751]	4177	[5663, 586]	6865	[2542, 1827]	9553	[10140, 7923]
1490	[2558, 2559]	4178	[5285, 2420]	6866	[8369, 5759]	9554	[4762, 5223]

1491	[2560, 2561]	4179	[5781, 825]	6867	[5509, 681]	9555	[10141, 2463]
1492	[2562, 2563]	4180	[5782, 652]	6868	[8370, 8371]	9556	[4531, 2742]
1493	[2564, 2565]	4181	[5783, 5784]	6869	[900, 5185]	9557	[584, 4899]
1494	[2566, 2567]	4182	[5785, 865]	6870	[4596, 4688]	9558	[2768, 2742]
1495	[1861, 2568]	4183	[2586, 4778]	6871	[8372, 486]	9559	[10142, 8909]
1496	[2569, 190]	4184	[5786, 2059]	6872	[7921, 1943]	9560	[10143, 5418]
1497	[860, 2570]	4185	[824, 4507]	6873	[8373, 8179]	9561	[8225, 2618]
1498	[2291, 1926]	4186	[5787, 660]	6874	[8374, 186]	9562	[8586, 1863]
1499	[2571, 2572]	4187	[5443, 1896]	6875	[5437, 2226]	9563	[1810, 623]
1500	[2573, 2574]	4188	[5788, 4917]	6876	[8375, 1951]	9564	[10144, 8086]
1501	[2575, 2576]	4189	[5789, 783]	6877	[8376, 2066]	9565	[10145, 9835]
1502	[2577, 2110]	4190	[2659, 2618]	6878	[8377, 5290]	9566	[10146, 8001]
1503	[2578, 2163]	4191	[5790, 907]	6879	[8378, 4852]	9567	[7864, 1952]
1504	[2579, 1720]	4192	[5791, 5792]	6880	[7991, 1741]	9568	[10147, 10078]
1505	[2580, 2136]	4193	[1963, 1727]	6881	[8379, 1798]	9569	[10148, 8713]
1506	[647, 2581]	4194	[5793, 5794]	6882	[5579, 5289]	9570	[10149, 2090]
1507	[2582, 2583]	4195	[5795, 126]	6883	[8380, 2624]	9571	[10150, 4867]
1508	[2584, 1906]	4196	[5796, 5797]	6884	[786, 2510]	9572	[10151, 1991]
1509	[2585, 182]	4197	[2549, 656]	6885	[8381, 7755]	9573	[8474, 2110]
1510	[2586, 2559]	4198	[5798, 4886]	6886	[8382, 2062]	9574	[10152, 2571]
1511	[2587, 1862]	4199	[5799, 2691]	6887	[8383, 5273]	9575	[2531, 1825]
1512	[2588, 1941]	4200	[5800, 5148]	6888	[4828, 2572]	9576	[8186, 554]
1513	[2021, 2206]	4201	[5801, 4799]	6889	[2025, 702]	9577	[10153, 1964]
1514	[2589, 2590]	4202	[4500, 637]	6890	[8316, 879]	9578	[10154, 520]
1515	[2591, 2592]	4203	[5802, 5016]	6891	[2542, 729]	9579	[4824, 7962]
1516	[2593, 2594]	4204	[5803, 5804]	6892	[8384, 239]	9580	[10155, 2685]
1517	[2595, 2596]	4205	[5805, 5763]	6893	[8385, 1805]	9581	[10156, 8869]
1518	[2597, 2598]	4206	[4841, 2117]	6894	[5603, 2357]	9582	[10157, 10158]
1519	[2599, 2505]	4207	[5806, 5807]	6895	[807, 1868]	9583	[4631, 219]
1520	[2600, 534]	4208	[185, 496]	6896	[8386, 5192]	9584	[10159, 8116]
1521	[2601, 2420]	4209	[4964, 4632]	6897	[720, 167]	9585	[5076, 4973]
1522	[2602, 2603]	4210	[5645, 5767]	6898	[240, 837]	9586	[10097, 5242]
1523	[2604, 2394]	4211	[891, 1696]	6899	[8199, 2752]	9587	[10160, 5776]
1524	[2605, 806]	4212	[5086, 1816]	6900	[8387, 8388]	9588	[10161, 674]
1525	[2606, 1935]	4213	[2277, 5808]	6901	[640, 2300]	9589	[5429, 704]
1526	[777, 580]	4214	[5809, 5020]	6902	[5980, 2771]	9590	[10162, 5768]
1527	[2607, 214]	4215	[56, 2267]	6903	[8389, 8064]	9591	[4862, 8222]
1528	[2608, 2609]	4216	[5810, 5610]	6904	[8390, 8391]	9592	[10163, 8832]
1529	[2610, 2611]	4217	[5811, 5034]	6905	[2735, 2709]	9593	[8572, 2362]
1530	[2612, 2104]	4218	[5812, 818]	6906	[8392, 8393]	9594	[10164, 5410]
1531	[2613, 2614]	4219	[2388, 720]	6907	[688, 5527]	9595	[184, 2069]
1532	[624, 1751]	4220	[4961, 2279]	6908	[826, 688]	9596	[10165, 8184]
1533	[2274, 2233]	4221	[2013, 4673]	6909	[8394, 8153]	9597	[5406, 627]
1534	[2615, 2616]	4222	[5332, 4842]	6910	[8395, 1770]	9598	[10166, 5245]

1535	[2617, 2618]	4223	[5813, 2580]	6911	[8396, 2085]	9599	[10167, 2586]
1536	[2619, 2620]	4224	[5265, 45]	6912	[5158, 4482]	9600	[10168, 9758]
1537	[2621, 2622]	4225	[5051, 610]	6913	[8324, 2300]	9601	[5306, 1953]
1538	[2623, 635]	4226	[2725, 5631]	6914	[8397, 8398]	9602	[7945, 2021]
1539	[2624, 2625]	4227	[736, 555]	6915	[8399, 4885]	9603	[10169, 8557]
1540	[2626, 2627]	4228	[5814, 4888]	6916	[639, 1803]	9604	[497, 5015]
1541	[2628, 1826]	4229	[5815, 591]	6917	[195, 2510]	9605	[2392, 4788]
1542	[2629, 2109]	4230	[5816, 4872]	6918	[8400, 8401]	9606	[10170, 10055]
1543	[2630, 2631]	4231	[2729, 2641]	6919	[8402, 2447]	9607	[5919, 2069]
1544	[2632, 2633]	4232	[5402, 138]	6920	[8403, 8404]	9608	[10171, 8022]
1545	[2634, 2635]	4233	[5817, 765]	6921	[5368, 509]	9609	[10172, 5011]
1546	[2636, 2305]	4234	[5200, 1857]	6922	[755, 2782]	9610	[10173, 4906]
1547	[2637, 2638]	4235	[4835, 1952]	6923	[8405, 1729]	9611	[4672, 1859]
1548	[2639, 501]	4236	[5278, 1719]	6924	[8406, 4961]	9612	[10174, 4492]
1549	[2508, 2640]	4237	[5818, 5819]	6925	[8407, 5306]	9613	[10175, 4644]
1550	[2206, 2641]	4238	[5061, 5456]	6926	[8408, 2563]	9614	[7772, 5774]
1551	[2642, 2500]	4239	[5820, 1972]	6927	[8409, 8410]	9615	[10176, 4683]
1552	[2643, 2335]	4240	[2620, 2125]	6928	[4638, 2678]	9616	[4780, 5239]
1553	[2644, 2645]	4241	[5263, 2000]	6929	[8411, 2710]	9617	[2687, 2752]
1554	[2646, 2647]	4242	[5821, 5822]	6930	[8412, 4607]	9618	[1799, 811]
1555	[2648, 2649]	4243	[5823, 5824]	6931	[8413, 2081]	9619	[10177, 5603]
1556	[2650, 2651]	4244	[5825, 2330]	6932	[8414, 5931]	9620	[10178, 4729]
1557	[2652, 515]	4245	[5826, 4971]	6933	[8415, 858]	9621	[10179, 8424]
1558	[2653, 2654]	4246	[5827, 1926]	6934	[2580, 4812]	9622	[10180, 600]
1559	[2655, 2065]	4247	[5828, 5829]	6935	[8416, 8417]	9623	[10181, 1717]
1560	[2656, 2657]	4248	[769, 2124]	6936	[35, 5767]	9624	[10182, 8740]
1561	[2658, 2659]	4249	[5185, 2596]	6937	[8418, 8419]	9625	[8287, 8854]
1562	[2660, 528]	4250	[5830, 5831]	6938	[8420, 683]	9626	[10183, 9816]
1563	[183, 2661]	4251	[5832, 655]	6939	[5451, 2165]	9627	[5142, 1792]
1564	[621, 1757]	4252	[5833, 4636]	6940	[8077, 233]	9628	[10184, 8828]
1565	[2662, 2152]	4253	[4754, 1793]	6941	[8421, 2755]	9629	[5746, 1771]
1566	[2663, 2664]	4254	[5834, 5835]	6942	[8422, 5147]	9630	[5912, 2791]
1567	[2665, 765]	4255	[1702, 2362]	6943	[5467, 167]	9631	[10185, 5917]
1568	[2666, 1988]	4256	[5836, 5415]	6944	[8423, 8424]	9632	[2457, 5143]
1569	[1981, 2294]	4257	[5629, 5287]	6945	[4868, 4595]	9633	[10186, 2141]
1570	[2667, 502]	4258	[5837, 5838]	6946	[8425, 1847]	9634	[5487, 4997]
1571	[2668, 1969]	4259	[5839, 2535]	6947	[5164, 722]	9635	[721, 225]
1572	[2669, 2494]	4260	[5523, 5607]	6948	[5753, 803]	9636	[5028, 4684]
1573	[2670, 2058]	4261	[5840, 5841]	6949	[8426, 2586]	9637	[2460, 4578]
1574	[2671, 2672]	4262	[5842, 5443]	6950	[38, 2532]	9638	[5493, 2415]
1575	[2673, 2488]	4263	[5843, 2781]	6951	[5272, 2436]	9639	[10187, 8704]
1576	[2674, 2675]	4264	[5844, 5845]	6952	[8427, 2149]	9640	[10188, 1893]
1577	[2676, 2677]	4265	[5846, 5385]	6953	[5829, 561]	9641	[843, 767]
1578	[2678, 2679]	4266	[4547, 5847]	6954	[8428, 4556]	9642	[758, 723]

1579	[2232, 2022]	4267	[5848, 5401]	6955	[8429, 8430]	9643	[10189, 8590]
1580	[2680, 1878]	4268	[5849, 5850]	6956	[7757, 4807]	9644	[1909, 4997]
1581	[2681, 748]	4269	[1906, 2126]	6957	[8431, 2346]	9645	[10190, 5880]
1582	[2682, 2440]	4270	[2534, 2205]	6958	[8432, 1719]	9646	[10191, 8819]
1583	[1924, 501]	4271	[5851, 1992]	6959	[8433, 8153]	9647	[10192, 217]
1584	[2683, 806]	4272	[2056, 2295]	6960	[8434, 2347]	9648	[10193, 7907]
1585	[2679, 1954]	4273	[5852, 5699]	6961	[8435, 5100]	9649	[10194, 5798]
1586	[2684, 2685]	4274	[5800, 4529]	6962	[8436, 1701]	9650	[10195, 10031]
1587	[2686, 231]	4275	[5853, 1974]	6963	[8437, 520]	9651	[10196, 8610]
1588	[1985, 726]	4276	[2505, 1812]	6964	[8438, 5408]	9652	[10197, 234]
1589	[2687, 2688]	4277	[5854, 2382]	6965	[555, 2535]	9653	[10198, 1822]
1590	[2184, 1715]	4278	[4988, 2156]	6966	[2064, 2403]	9654	[10199, 2064]
1591	[2689, 595]	4279	[5855, 2210]	6967	[8439, 8440]	9655	[7755, 1854]
1592	[682, 151]	4280	[5628, 4595]	6968	[8441, 183]	9656	[10200, 5487]
1593	[2439, 2690]	4281	[550, 4786]	6969	[484, 7993]	9657	[10201, 638]
1594	[2691, 2107]	4282	[5856, 5631]	6970	[8442, 2095]	9658	[8241, 2525]
1595	[2692, 2693]	4283	[5857, 5858]	6971	[8344, 1908]	9659	[5513, 2364]
1596	[2694, 2327]	4284	[4819, 4889]	6972	[8443, 2532]	9660	[10202, 5763]
1597	[2695, 2615]	4285	[5859, 5860]	6973	[1941, 1981]	9661	[10203, 10019]
1598	[2696, 1954]	4286	[5135, 2502]	6974	[8444, 7828]	9662	[10204, 754]
1599	[2697, 1924]	4287	[5861, 5557]	6975	[708, 5272]	9663	[8249, 5527]
1600	[2698, 2699]	4288	[5862, 5385]	6976	[8445, 2503]	9664	[10205, 800]
1601	[2700, 575]	4289	[5763, 2200]	6977	[8446, 2120]	9665	[10206, 10207]
1602	[2701, 803]	4290	[2174, 4563]	6978	[222, 2315]	9666	[10208, 10209]
1603	[2702, 2703]	4291	[5863, 2438]	6979	[5691, 546]	9667	[10210, 207]
1604	[2704, 1848]	4292	[2520, 4523]	6980	[2083, 902]	9668	[1684, 199]
1605	[2705, 2706]	4293	[5864, 5675]	6981	[4945, 2467]	9669	[10211, 9993]
1606	[2151, 2512]	4294	[5865, 5866]	6982	[2624, 2526]	9670	[10212, 2404]
1607	[2707, 794]	4295	[5417, 4993]	6983	[5744, 2411]	9671	[10213, 2588]
1608	[2708, 2498]	4296	[5867, 4964]	6984	[8447, 8448]	9672	[2275, 201]
1609	[635, 2709]	4297	[2400, 2330]	6985	[8449, 5919]	9673	[10214, 10215]
1610	[2710, 503]	4298	[5868, 5505]	6986	[2646, 62]	9674	[10216, 5440]
1611	[2711, 2712]	4299	[5869, 5870]	6987	[8450, 4813]	9675	[10217, 8771]
1612	[738, 2713]	4300	[2574, 577]	6988	[8451, 7779]	9676	[10218, 5068]
1613	[2714, 2710]	4301	[5871, 2488]	6989	[5052, 5550]	9677	[10219, 10220]
1614	[2715, 2502]	4302	[5872, 4894]	6990	[8452, 8136]	9678	[10221, 5355]
1615	[2716, 2427]	4303	[231, 4633]	6991	[5714, 2729]	9679	[4732, 4508]
1616	[2717, 2718]	4304	[5873, 1794]	6992	[8453, 8454]	9680	[10222, 2632]
1617	[2719, 2720]	4305	[4541, 5704]	6993	[7939, 1827]	9681	[7971, 2775]
1618	[907, 2594]	4306	[5874, 237]	6994	[8455, 2400]	9682	[10223, 1979]
1619	[2721, 2722]	4307	[5875, 5876]	6995	[8456, 545]	9683	[903, 495]
1620	[2723, 493]	4308	[5877, 5878]	6996	[5610, 1807]	9684	[10224, 5741]
1621	[2706, 592]	4309	[5879, 5880]	6997	[8457, 5988]	9685	[5649, 1761]
1622	[2724, 2690]	4310	[2307, 5331]	6998	[2570, 807]	9686	[10225, 10226]

1623	[2725, 2726]	4311	[5881, 2601]	6999	[8458, 8459]	9687	[2662, 1707]
1624	[2727, 2728]	4312	[4569, 533]	7000	[8460, 8001]	9688	[10227, 2068]
1625	[2021, 2729]	4313	[4890, 4566]	7001	[8461, 8462]	9689	[2426, 4877]
1626	[2730, 1700]	4314	[5882, 5883]	7002	[4487, 681]	9690	[10228, 2202]
1627	[2731, 2559]	4315	[4900, 2501]	7003	[44, 4773]	9691	[10229, 2716]
1628	[2732, 2733]	4316	[5884, 5333]	7004	[7888, 2103]	9692	[10230, 8328]
1629	[2734, 2065]	4317	[2787, 554]	7005	[8463, 4989]	9693	[10231, 10220]
1630	[2735, 2736]	4318	[5885, 5886]	7006	[8464, 5558]	9694	[7910, 536]
1631	[2273, 2227]	4319	[5887, 5315]	7007	[7771, 2184]	9695	[2327, 2675]
1632	[2737, 2738]	4320	[5888, 5889]	7008	[2326, 2351]	9696	[498, 2106]
1633	[2739, 2740]	4321	[4886, 1816]	7009	[5974, 611]	9697	[7963, 826]
1634	[2741, 2742]	4322	[5890, 904]	7010	[8465, 724]	9698	[10232, 870]
1635	[2743, 2073]	4323	[4951, 2096]	7011	[8466, 7881]	9699	[10233, 1805]
1636	[1908, 2744]	4324	[5891, 5892]	7012	[149, 2290]	9700	[8238, 1870]
1637	[2734, 2403]	4325	[5893, 1708]	7013	[604, 4748]	9701	[145, 209]
1638	[2694, 2351]	4326	[2022, 1963]	7014	[8467, 8035]	9702	[8362, 806]
1639	[2745, 2746]	4327	[5894, 5678]	7015	[2141, 2770]	9703	[10234, 8733]
1640	[2747, 1725]	4328	[800, 151]	7016	[4500, 905]	9704	[4514, 881]
1641	[2748, 41]	4329	[5895, 601]	7017	[2293, 4583]	9705	[10235, 2569]
1642	[2749, 2750]	4330	[32, 2436]	7018	[135, 1824]	9706	[10236, 5610]
1643	[2751, 2752]	4331	[5896, 5173]	7019	[1783, 5527]	9707	[10237, 9870]
1644	[2331, 1906]	4332	[5897, 5850]	7020	[8468, 142]	9708	[10238, 9945]
1645	[2753, 2754]	4333	[5898, 4994]	7021	[8469, 2681]	9709	[10239, 8521]
1646	[2755, 2756]	4334	[5899, 2039]	7022	[8470, 2133]	9710	[5960, 594]
1647	[829, 623]	4335	[5900, 5901]	7023	[8471, 5123]	9711	[5954, 5848]
1648	[2757, 1918]	4336	[5902, 4577]	7024	[8472, 5381]	9712	[10240, 9983]
1649	[2758, 2759]	4337	[4661, 144]	7025	[5255, 843]	9713	[8269, 7816]
1650	[2760, 2761]	4338	[2410, 5708]	7026	[8473, 5032]	9714	[5734, 5848]
1651	[2762, 2763]	4339	[5903, 524]	7027	[8474, 1879]	9715	[8854, 8510]
1652	[2764, 2765]	4340	[5904, 4951]	7028	[7863, 4682]	9716	[8848, 8507]
1653	[2766, 2767]	4341	[5777, 2720]	7029	[7966, 2355]	9717	[8579, 5966]
1654	[2768, 758]	4342	[1688, 58]	7030	[8475, 4649]	9718	[10241, 2239]
1655	[2769, 2770]	4343	[5905, 4989]	7031	[2256, 2631]	9719	[9773, 1807]
1656	[41, 2771]	4344	[5211, 1939]	7032	[8476, 2567]	9720	[747, 1821]
1657	[2296, 2165]	4345	[5646, 2254]	7033	[4663, 4749]	9721	[5839, 1809]
1658	[2351, 2675]	4346	[5906, 2169]	7034	[8477, 7991]	9722	[4505, 2526]
1659	[760, 8]	4347	[2528, 4677]	7035	[4872, 668]	9723	[5953, 7811]
1660	[2772, 2043]	4348	[5907, 702]	7036	[8478, 7995]	9724	[10242, 624]
1661	[2773, 2774]	4349	[5908, 5546]	7037	[2105, 499]	9725	[10243, 836]
1662	[2469, 128]	4350	[2738, 5909]	7038	[1989, 4780]	9726	[4970, 2357]
1663	[641, 529]	4351	[2042, 5218]	7039	[8479, 8480]	9727	[10244, 9784]
1664	[2775, 34]	4352	[5910, 5911]	7040	[8481, 825]	9728	[10245, 819]
1665	[2776, 2777]	4353	[5912, 5536]	7041	[8482, 128]	9729	[2237, 2713]
1666	[2778, 2779]	4354	[704, 2775]	7042	[8483, 5571]	9730	[5740, 2079]

1667	[795, 2053]	4355	[5913, 5914]	7043	[2077, 5289]	9731	[4919, 4588]
1668	[2780, 2781]	4356	[5915, 5271]	7044	[8484, 4697]	9732	[10246, 8699]
1669	[2782, 2783]	4357	[133, 1785]	7045	[8485, 5808]	9733	[2704, 4749]
1670	[2784, 2785]	4358	[2129, 5152]	7046	[8486, 178]	9734	[4769, 5183]
1671	[2786, 2787]	4359	[546, 1746]	7047	[8487, 488]	9735	[10247, 8060]
1672	[2788, 2789]	4360	[163, 2640]	7048	[8488, 2228]	9736	[8114, 2340]
1673	[2790, 2791]	4361	[5916, 5917]	7049	[8489, 487]	9737	[660, 1703]
1674	[2792, 2793]	4362	[5918, 5919]	7050	[8490, 5090]	9738	[10248, 59]
1675	[2794, 2795]	4363	[5920, 2389]	7051	[8253, 4690]	9739	[10249, 5670]
1676	[2796, 2663]	4364	[5921, 2446]	7052	[8491, 2522]	9740	[10250, 10251]
1677	[2797, 2798]	4365	[5073, 1763]	7053	[8492, 7999]	9741	[850, 1890]
1678	[1561, 2799]	4366	[592, 1720]	7054	[5856, 2726]	9742	[8420, 151]
1679	[2800, 2801]	4367	[5922, 5297]	7055	[8493, 8494]	9743	[10252, 10158]
1680	[2802, 1415]	4368	[5923, 4608]	7056	[8495, 5841]	9744	[10253, 1930]
1681	[2803, 2804]	4369	[5594, 532]	7057	[8036, 707]	9745	[8763, 1932]
1682	[1138, 2805]	4370	[5924, 5925]	7058	[5380, 4519]	9746	[10254, 5968]
1683	[2806, 1374]	4371	[2097, 5485]	7059	[8496, 5073]	9747	[10255, 4703]
1684	[2807, 2808]	4372	[5926, 5927]	7060	[5892, 4954]	9748	[10256, 4757]
1685	[2809, 2810]	4373	[2425, 5343]	7061	[8497, 5205]	9749	[10257, 5710]
1686	[2811, 2812]	4374	[5928, 1694]	7062	[8498, 2506]	9750	[4880, 5002]
1687	[2813, 2814]	4375	[2118, 1734]	7063	[8008, 2279]	9751	[1950, 907]
1688	[2815, 2816]	4376	[2574, 4889]	7064	[8499, 5792]	9752	[10258, 168]
1689	[2817, 2818]	4377	[819, 1829]	7065	[4660, 2351]	9753	[8015, 170]
1690	[2819, 2820]	4378	[5929, 2758]	7066	[8500, 5896]	9754	[8206, 517]
1691	[2821, 2822]	4379	[5930, 2757]	7067	[8075, 4559]	9755	[10259, 5364]
1692	[2823, 2824]	4380	[821, 5931]	7068	[8501, 5941]	9756	[10260, 7849]
1693	[88, 384]	4381	[5784, 2244]	7069	[8502, 523]	9757	[403, 1292]
1694	[2825, 2826]	4382	[5932, 2277]	7070	[8503, 2776]	9758	[10261, 9087]
1695	[2827, 300]	4383	[5546, 2524]	7071	[4560, 205]	9759	[10262, 6106]
1696	[2828, 2829]	4384	[5933, 5934]	7072	[8504, 8505]	9760	[10263, 428]
1697	[2830, 2831]	4385	[5935, 1826]	7073	[8506, 2165]	9761	[10264, 1284]
1698	[2832, 2833]	4386	[5936, 5665]	7074	[5735, 5950]	9762	[10265, 9179]
1699	[2834, 1049]	4387	[5226, 2536]	7075	[8507, 8508]	9763	[10266, 4334]
1700	[2835, 1061]	4388	[5937, 4552]	7076	[8509, 8288]	9764	[10265, 10267]
1701	[2836, 2837]	4389	[2774, 2761]	7077	[5400, 5950]	9765	[6598, 922]
1702	[2838, 2839]	4390	[2738, 2781]	7078	[8288, 8510]	9766	[10268, 6867]
1703	[1669, 2840]	4391	[5938, 2117]	7079	[2241, 7811]	9767	[1084, 6260]
1704	[2841, 1499]	4392	[5546, 519]	7080	[8511, 8512]	9768	[6343, 3848]
1705	[2842, 2843]	4393	[5939, 5123]	7081	[5952, 5384]	9769	[10269, 6563]
1706	[2844, 2841]	4394	[5940, 5941]	7082	[8286, 2241]	9770	[4412, 3907]
1707	[2845, 2846]	4395	[5942, 795]	7083	[8513, 4497]	9771	[6883, 8995]
1708	[2847, 2848]	4396	[5943, 579]	7084	[8514, 5927]	9772	[10270, 6971]
1709	[2849, 2850]	4397	[5944, 554]	7085	[5665, 589]	9773	[10271, 10272]
1710	[2851, 2852]	4398	[5945, 2616]	7086	[8515, 5141]	9774	[9360, 3270]

1711	[1559, 2853]	4399	[5946, 2095]	7087	[8516, 4919]	9775	[6638, 4101]
1712	[2854, 2855]	4400	[5614, 2581]	7088	[5519, 873]	9776	[9500, 10273]
1713	[2856, 2852]	4401	[1847, 4749]	7089	[5291, 1918]	9777	[2869, 2946]
1714	[2857, 2858]	4402	[5947, 5948]	7090	[8517, 4596]	9778	[3772, 6145]
1715	[2859, 2860]	4403	[48, 1916]	7091	[8518, 2497]	9779	[9108, 6088]
1716	[1014, 2861]	4404	[5949, 4761]	7092	[5303, 5337]	9780	[10274, 2837]
1717	[2862, 2863]	4405	[5576, 4973]	7093	[8519, 2381]	9781	[9149, 10275]
1718	[2864, 2865]	4406	[5848, 5950]	7094	[4783, 2245]	9782	[10276, 1212]
1719	[20, 2866]	4407	[5477, 5845]	7095	[5278, 2466]	9783	[10277, 1649]
1720	[1109, 2867]	4408	[5951, 5952]	7096	[8347, 2331]	9784	[9656, 10278]
1721	[2868, 2869]	4409	[5953, 5954]	7097	[1952, 5185]	9785	[10279, 9203]
1722	[2870, 2871]	4410	[5955, 2540]	7098	[8520, 8521]	9786	[10280, 2896]
1723	[2872, 2873]	4411	[5956, 5586]	7099	[8522, 2131]	9787	[7655, 3991]
1724	[2874, 2875]	4412	[4627, 4642]	7100	[8472, 8286]	9788	[1117, 6788]
1725	[2876, 2877]	4413	[5339, 35]	7101	[8512, 2638]	9789	[9702, 3070]
1726	[2878, 2879]	4414	[4777, 2559]	7102	[5966, 5107]	9790	[3006, 3550]
1727	[2880, 2881]	4415	[5957, 1704]	7103	[8078, 5331]	9791	[1340, 1325]
1728	[2882, 2883]	4416	[4786, 2014]	7104	[8523, 4624]	9792	[1476, 6890]
1729	[2884, 2885]	4417	[5958, 2560]	7105	[674, 696]	9793	[302, 3467]
1730	[309, 2886]	4418	[5959, 5527]	7106	[8524, 8459]	9794	[6991, 307]
1731	[2887, 2888]	4419	[5960, 2059]	7107	[8525, 2191]	9795	[10281, 3923]
1732	[2889, 2890]	4420	[2756, 1794]	7108	[5106, 5383]	9796	[10282, 10283]
1733	[2891, 2892]	4421	[5961, 5962]	7109	[5630, 2726]	9797	[9260, 3881]
1734	[2893, 2894]	4422	[2568, 824]	7110	[8526, 8194]	9798	[10284, 7288]
1735	[2895, 2896]	4423	[5963, 2633]	7111	[5659, 5030]	9799	[9539, 7080]
1736	[2897, 2898]	4424	[5159, 5188]	7112	[8527, 8528]	9800	[10285, 1201]
1737	[2899, 2900]	4425	[5090, 811]	7113	[8529, 7900]	9801	[928, 6032]
1738	[2901, 2902]	4426	[5964, 2352]	7114	[5512, 1892]	9802	[10286, 10287]
1739	[2903, 2904]	4427	[5965, 5966]	7115	[8530, 5779]	9803	[10288, 3139]
1740	[2905, 2906]	4428	[1819, 2633]	7116	[542, 2654]	9804	[10289, 335]
1741	[2907, 2908]	4429	[1759, 768]	7117	[5166, 543]	9805	[7085, 3033]
1742	[2909, 2910]	4430	[5776, 220]	7118	[5345, 1953]	9806	[10290, 3303]
1743	[2911, 2912]	4431	[5967, 5968]	7119	[8531, 4788]	9807	[10291, 10292]
1744	[2913, 1511]	4432	[2070, 4502]	7120	[8274, 5595]	9808	[2879, 414]
1745	[2914, 2915]	4433	[5257, 2783]	7121	[8532, 8533]	9809	[9457, 4147]
1746	[2916, 1401]	4434	[5969, 1897]	7122	[5155, 4770]	9810	[1404, 7043]
1747	[1024, 2917]	4435	[752, 662]	7123	[8534, 2601]	9811	[10293, 1671]
1748	[293, 2918]	4436	[5970, 5491]	7124	[5051, 766]	9812	[6802, 1594]
1749	[2919, 2920]	4437	[1837, 167]	7125	[8535, 8536]	9813	[4457, 1205]
1750	[2921, 2922]	4438	[5971, 4877]	7126	[2206, 233]	9814	[10294, 9183]
1751	[2923, 284]	4439	[2367, 2678]	7127	[8537, 4963]	9815	[10295, 7075]
1752	[2924, 2925]	4440	[2168, 2614]	7128	[5002, 5767]	9816	[9650, 10296]
1753	[2926, 2927]	4441	[5972, 4879]	7129	[8538, 763]	9817	[7066, 4330]
1754	[2928, 2929]	4442	[5973, 4490]	7130	[8539, 2699]	9818	[10297, 3935]

1755	[80, 2930]	4443	[5974, 544]	7131	[8540, 5771]	9819	[6152, 1658]
1756	[2931, 2932]	4444	[2337, 796]	7132	[5210, 4619]	9820	[7001, 7692]
1757	[371, 2933]	4445	[690, 833]	7133	[8541, 8542]	9821	[6915, 3353]
1758	[1005, 2934]	4446	[5975, 4825]	7134	[8543, 8419]	9822	[10298, 371]
1759	[1568, 399]	4447	[5976, 5768]	7135	[4575, 2016]	9823	[6143, 7472]
1760	[423, 2935]	4448	[5977, 5978]	7136	[8544, 5150]	9824	[7371, 6448]
1761	[2799, 2936]	4449	[5979, 5063]	7137	[2594, 5415]	9825	[9493, 8997]
1762	[2937, 2938]	4450	[5980, 42]	7138	[8545, 8480]	9826	[1107, 6580]
1763	[2939, 2940]	4451	[5843, 5909]	7139	[8546, 4520]	9827	[6728, 7584]
1764	[2941, 2942]	4452	[1863, 5397]	7140	[7973, 5225]	9828	[4196, 3597]
1765	[2943, 2944]	4453	[5981, 2184]	7141	[8547, 603]	9829	[10299, 10300]
1766	[2945, 1216]	4454	[5982, 5983]	7142	[8548, 8549]	9830	[1000, 3890]
1767	[2946, 2947]	4455	[4786, 4673]	7143	[2533, 4784]	9831	[10301, 284]
1768	[2948, 1318]	4456	[5984, 5119]	7144	[8550, 842]	9832	[10302, 3436]
1769	[1175, 2949]	4457	[5985, 4733]	7145	[8551, 5323]	9833	[1460, 3922]
1770	[2950, 2939]	4458	[5986, 2469]	7146	[2575, 2215]	9834	[9464, 6764]
1771	[2951, 2952]	4459	[5271, 5405]	7147	[8552, 2219]	9835	[10303, 9496]
1772	[2953, 1563]	4460	[5987, 5988]	7148	[5539, 775]	9836	[4012, 9039]
1773	[2954, 2955]	4461	[550, 2394]	7149	[7924, 1823]	9837	[3190, 1328]
1774	[2956, 2957]	4462	[1761, 2273]	7150	[5275, 2779]	9838	[3039, 4227]
1775	[2958, 2959]	4463	[5989, 5990]	7151	[5420, 153]	9839	[10304, 1655]
1776	[2960, 2961]	4464	[2365, 2274]	7152	[8553, 4875]	9840	[10305, 3546]
1777	[2962, 2963]	4465	[5991, 5992]	7153	[8554, 589]	9841	[10306, 6177]
1778	[2964, 1168]	4466	[4753, 1783]	7154	[5547, 5747]	9842	[3449, 258]
1779	[2965, 2966]	4467	[4680, 5521]	7155	[8555, 2767]	9843	[2901, 6349]
1780	[1366, 2967]	4468	[5993, 2554]	7156	[8487, 2217]	9844	[7388, 3822]
1781	[2968, 2969]	4469	[1896, 515]	7157	[651, 2423]	9845	[9312, 110]
1782	[2970, 2971]	4470	[4482, 4560]	7158	[8556, 8557]	9846	[3476, 10307]
1783	[2972, 2973]	4471	[813, 2196]	7159	[8558, 5379]	9847	[10308, 3041]
1784	[1060, 2974]	4472	[5994, 1977]	7160	[806, 244]	9848	[1153, 1090]
1785	[2975, 2976]	4473	[647, 2114]	7161	[8559, 5064]	9849	[9028, 3487]
1786	[2977, 2978]	4474	[5995, 5395]	7162	[5762, 4797]	9850	[10309, 1043]
1787	[2979, 2980]	4475	[5996, 5482]	7163	[8560, 650]	9851	[10310, 10311]
1788	[2981, 2982]	4476	[2678, 1953]	7164	[2509, 787]	9852	[2884, 9714]
1789	[2983, 1560]	4477	[5997, 5998]	7165	[8561, 4736]	9853	[10312, 1364]
1790	[2984, 2985]	4478	[5999, 6000]	7166	[8562, 5004]	9854	[6041, 4240]
1791	[2986, 1099]	4479	[6001, 3886]	7167	[8563, 5909]	9855	[9154, 442]
1792	[2987, 2988]	4480	[4055, 6002]	7168	[4942, 1691]	9856	[942, 1414]
1793	[2989, 1643]	4481	[6003, 4026]	7169	[8564, 8565]	9857	[10313, 3893]
1794	[2990, 2991]	4482	[6004, 6005]	7170	[8566, 8084]	9858	[9560, 9004]
1795	[1489, 2992]	4483	[6006, 6007]	7171	[5421, 4790]	9859	[10314, 3829]
1796	[2985, 119]	4484	[3028, 3463]	7172	[5299, 867]	9860	[10315, 10316]
1797	[1091, 2993]	4485	[4400, 6008]	7173	[8567, 4812]	9861	[3609, 3679]
1798	[2994, 2995]	4486	[6009, 6010]	7174	[8568, 8569]	9862	[10317, 3905]

1799	[2996, 2997]	4487	[6011, 6012]	7175	[8570, 1989]	9863	[10318, 3965]
1800	[2998, 924]	4488	[6013, 1203]	7176	[8571, 5925]	9864	[7556, 8957]
1801	[2999, 3000]	4489	[1055, 6014]	7177	[8572, 5318]	9865	[10319, 1668]
1802	[3001, 3002]	4490	[6015, 6016]	7178	[8573, 4953]	9866	[10320, 368]
1803	[1422, 3003]	4491	[6017, 6018]	7179	[5393, 511]	9867	[6811, 1195]
1804	[3004, 1223]	4492	[6019, 6020]	7180	[8574, 8575]	9868	[10321, 6822]
1805	[3005, 3006]	4493	[3943, 6021]	7181	[8576, 8008]	9869	[2866, 7081]
1806	[999, 3007]	4494	[6022, 6023]	7182	[1718, 2466]	9870	[10322, 9247]
1807	[1216, 1403]	4495	[6024, 1077]	7183	[2084, 4782]	9871	[10323, 3971]
1808	[3008, 357]	4496	[441, 6025]	7184	[8577, 5807]	9872	[6538, 3702]
1809	[1040, 3009]	4497	[6026, 6027]	7185	[8578, 1681]	9873	[10324, 10325]
1810	[350, 1176]	4498	[4303, 6028]	7186	[7972, 8579]	9874	[10326, 3696]
1811	[1270, 3010]	4499	[6029, 1196]	7187	[8580, 617]	9875	[8950, 7281]
1812	[3011, 3012]	4500	[6030, 3676]	7188	[788, 673]	9876	[10327, 1267]
1813	[3013, 3014]	4501	[6031, 6032]	7189	[8581, 8582]	9877	[10328, 6614]
1814	[3015, 3016]	4502	[6033, 6034]	7190	[5418, 177]	9878	[7708, 7737]
1815	[3017, 2946]	4503	[6035, 6036]	7191	[8583, 7970]	9879	[10329, 76]
1816	[3018, 3019]	4504	[3614, 1563]	7192	[8584, 5835]	9880	[6416, 6959]
1817	[3020, 3021]	4505	[6037, 6038]	7193	[8383, 5559]	9881	[10330, 4252]
1818	[3022, 3023]	4506	[6039, 1596]	7194	[2534, 2517]	9882	[10331, 3774]
1819	[3024, 3025]	4507	[4172, 6040]	7195	[483, 508]	9883	[4260, 3278]
1820	[3026, 3027]	4508	[1536, 6041]	7196	[8585, 4944]	9884	[9193, 3636]
1821	[3028, 3029]	4509	[477, 3798]	7197	[8586, 1692]	9885	[9548, 10332]
1822	[3030, 3031]	4510	[6042, 1298]	7198	[8587, 8410]	9886	[10333, 1351]
1823	[1470, 3032]	4511	[16, 6043]	7199	[2775, 2424]	9887	[3046, 3097]
1824	[1264, 3033]	4512	[2898, 3319]	7200	[8588, 8388]	9888	[10334, 3915]
1825	[267, 3034]	4513	[88, 6044]	7201	[5330, 1965]	9889	[9197, 9095]
1826	[3035, 3036]	4514	[6045, 2805]	7202	[8589, 8590]	9890	[7578, 7693]
1827	[2969, 3037]	4515	[6046, 6047]	7203	[8591, 5045]	9891	[7251, 4073]
1828	[3038, 3039]	4516	[6048, 6049]	7204	[8364, 4684]	9892	[10335, 6548]
1829	[3040, 3041]	4517	[6050, 6051]	7205	[8592, 8417]	9893	[9628, 3525]
1830	[3042, 3043]	4518	[6052, 6053]	7206	[2085, 2556]	9894	[10336, 299]
1831	[3006, 3044]	4519	[6054, 6055]	7207	[8593, 142]	9895	[10337, 6284]
1832	[3045, 2934]	4520	[6056, 6057]	7208	[2395, 1690]	9896	[1471, 1111]
1833	[3046, 3047]	4521	[6058, 330]	7209	[8594, 8302]	9897	[3900, 3306]
1834	[3048, 3040]	4522	[6059, 1368]	7210	[8595, 1869]	9898	[10338, 3471]
1835	[3049, 2918]	4523	[4089, 6060]	7211	[8596, 4579]	9899	[10339, 1572]
1836	[3050, 3051]	4524	[6061, 1279]	7212	[5571, 2619]	9900	[10261, 6330]
1837	[3052, 3053]	4525	[4119, 3455]	7213	[5126, 508]	9901	[3193, 4453]
1838	[3054, 476]	4526	[6062, 6063]	7214	[56, 507]	9902	[6987, 3716]
1839	[3055, 2893]	4527	[6064, 6065]	7215	[8597, 842]	9903	[10340, 2803]
1840	[3056, 3057]	4528	[6066, 960]	7216	[2501, 4665]	9904	[10341, 6007]
1841	[3058, 3059]	4529	[6067, 113]	7217	[8598, 8582]	9905	[10342, 3997]
1842	[3060, 3061]	4530	[6068, 6069]	7218	[2171, 2759]	9906	[9753, 85]

1843	[3062, 3063]	4531	[6070, 2872]	7219	[8599, 5393]	9907	[10343, 77]
1844	[1581, 3064]	4532	[6071, 101]	7220	[8600, 2651]	9908	[6998, 3772]
1845	[3065, 3066]	4533	[6072, 6073]	7221	[8601, 872]	9909	[10344, 1229]
1846	[3045, 1047]	4534	[6074, 6075]	7222	[8602, 171]	9910	[354, 2932]
1847	[3067, 1347]	4535	[3795, 6076]	7223	[8603, 813]	9911	[7134, 6631]
1848	[3068, 3069]	4536	[6077, 932]	7224	[8604, 1865]	9912	[9255, 9434]
1849	[2850, 3070]	4537	[6078, 953]	7225	[8605, 4821]	9913	[10345, 3779]
1850	[3071, 3072]	4538	[6079, 6080]	7226	[1992, 550]	9914	[10346, 6343]
1851	[255, 3073]	4539	[999, 1303]	7227	[8606, 1998]	9915	[7572, 1665]
1852	[3074, 3075]	4540	[6081, 270]	7228	[2480, 791]	9916	[9584, 6438]
1853	[3076, 3077]	4541	[6082, 6083]	7229	[5719, 788]	9917	[10347, 1314]
1854	[3078, 119]	4542	[6084, 1039]	7230	[8607, 8608]	9918	[4130, 3090]
1855	[3079, 1210]	4543	[6085, 3114]	7231	[7817, 2344]	9919	[10348, 6874]
1856	[3080, 3081]	4544	[6086, 6087]	7232	[5561, 557]	9920	[9649, 6356]
1857	[281, 3082]	4545	[6088, 1615]	7233	[8609, 8610]	9921	[10349, 3405]
1858	[3083, 3084]	4546	[6089, 6090]	7234	[5438, 2405]	9922	[10297, 10350]
1859	[251, 3085]	4547	[4127, 6091]	7235	[8367, 775]	9923	[10351, 1175]
1860	[3086, 3087]	4548	[4265, 6092]	7236	[8611, 8569]	9924	[9501, 7527]
1861	[3088, 3089]	4549	[6025, 6093]	7237	[871, 4690]	9925	[3764, 9586]
1862	[3090, 1069]	4550	[2942, 1291]	7238	[8612, 2574]	9926	[3367, 1054]
1863	[3091, 3092]	4551	[6094, 6095]	7239	[5996, 5287]	9927	[10352, 4036]
1864	[3093, 3094]	4552	[6096, 6097]	7240	[2639, 4804]	9928	[10353, 6647]
1865	[3095, 2842]	4553	[6098, 6099]	7241	[8613, 553]	9929	[349, 4391]
1866	[3096, 3097]	4554	[6100, 1538]	7242	[2528, 1939]	9930	[9747, 6849]
1867	[3098, 3099]	4555	[6101, 6102]	7243	[8614, 5068]	9931	[10354, 286]
1868	[3100, 3101]	4556	[6103, 6104]	7244	[2416, 2706]	9932	[9693, 9302]
1869	[3102, 2802]	4557	[3329, 6105]	7245	[8615, 174]	9933	[10303, 1118]
1870	[3103, 2803]	4558	[4195, 6106]	7246	[1720, 4843]	9934	[10355, 3213]
1871	[3104, 2880]	4559	[3320, 3723]	7247	[8616, 8096]	9935	[6217, 7328]
1872	[3105, 3106]	4560	[6107, 3207]	7248	[2387, 4521]	9936	[10356, 3472]
1873	[3107, 3108]	4561	[6108, 6109]	7249	[8617, 8618]	9937	[10357, 3126]
1874	[3109, 3110]	4562	[6110, 6111]	7250	[8619, 5486]	9938	[3388, 1480]
1875	[3111, 3112]	4563	[6112, 6113]	7251	[8620, 2647]	9939	[10358, 3876]
1876	[3113, 282]	4564	[6114, 6115]	7252	[8570, 645]	9940	[6845, 7472]
1877	[3114, 3115]	4565	[6116, 2928]	7253	[8621, 8494]	9941	[9322, 10359]
1878	[3116, 3117]	4566	[4128, 6117]	7254	[8622, 8623]	9942	[3735, 3801]
1879	[3118, 3119]	4567	[6118, 6119]	7255	[185, 4722]	9943	[6776, 7035]
1880	[3120, 3121]	4568	[3039, 6120]	7256	[8624, 5093]	9944	[6708, 6608]
1881	[3112, 3122]	4569	[6121, 1000]	7257	[8625, 5639]	9945	[10335, 10360]
1882	[3123, 3124]	4570	[6122, 1043]	7258	[8626, 1836]	9946	[10361, 1016]
1883	[3125, 3126]	4571	[6123, 6124]	7259	[594, 645]	9947	[10362, 4395]
1884	[3127, 3128]	4572	[2804, 6125]	7260	[5306, 2679]	9948	[10363, 3003]
1885	[2992, 3129]	4573	[6126, 6057]	7261	[8627, 5071]	9949	[10364, 3118]
1886	[3130, 3131]	4574	[6127, 6128]	7262	[8628, 2279]	9950	[3867, 3474]

1887	[3132, 1476]	4575	[6129, 462]	7263	[8629, 4922]	9951	[6825, 1466]
1888	[3133, 3134]	4576	[6130, 3377]	7264	[8630, 8631]	9952	[980, 10356]
1889	[3135, 3136]	4577	[6131, 4180]	7265	[8217, 229]	9953	[10365, 4176]
1890	[3137, 3138]	4578	[4116, 6132]	7266	[8632, 5135]	9954	[10366, 3417]
1891	[3139, 406]	4579	[1416, 1488]	7267	[8633, 2785]	9955	[10367, 2884]
1892	[3140, 3141]	4580	[6133, 1000]	7268	[8634, 7739]	9956	[1458, 4097]
1893	[3142, 3143]	4581	[6134, 6135]	7269	[8635, 5137]	9957	[2970, 9244]
1894	[259, 3144]	4582	[2995, 1159]	7270	[8636, 4926]	9958	[9370, 6379]
1895	[3145, 3146]	4583	[6136, 1202]	7271	[7753, 737]	9959	[10368, 1490]
1896	[1147, 3147]	4584	[6137, 2828]	7272	[4769, 4694]	9960	[4136, 3258]
1897	[3148, 3094]	4585	[4168, 998]	7273	[8637, 5133]	9961	[10369, 3584]
1898	[3149, 3150]	4586	[6138, 3869]	7274	[8638, 2022]	9962	[10370, 10371]
1899	[3151, 3152]	4587	[6139, 361]	7275	[8303, 569]	9963	[1249, 1123]
1900	[3153, 3154]	4588	[1336, 6140]	7276	[8639, 492]	9964	[3586, 9276]
1901	[1650, 3155]	4589	[1499, 1200]	7277	[2497, 2088]	9965	[4262, 10372]
1902	[2852, 3156]	4590	[6141, 1389]	7278	[7806, 201]	9966	[10373, 6840]
1903	[3157, 3158]	4591	[6142, 6143]	7279	[4895, 577]	9967	[10374, 3109]
1904	[3159, 3160]	4592	[6144, 4109]	7280	[8640, 560]	9968	[10375, 3043]
1905	[3161, 3162]	4593	[6145, 6146]	7281	[5607, 783]	9969	[10376, 3337]
1906	[3163, 111]	4594	[6147, 6148]	7282	[8641, 8642]	9970	[9417, 7307]
1907	[3164, 3165]	4595	[6149, 6150]	7283	[8643, 8644]	9971	[4450, 4409]
1908	[1065, 3166]	4596	[6151, 2884]	7284	[5711, 5066]	9972	[9712, 10377]
1909	[3167, 3168]	4597	[3242, 6152]	7285	[8645, 8326]	9973	[6034, 3594]
1910	[3169, 3170]	4598	[264, 3711]	7286	[8646, 8236]	9974	[10378, 1352]
1911	[3171, 3172]	4599	[972, 1660]	7287	[8647, 8440]	9975	[1667, 4282]
1912	[1368, 3173]	4600	[6153, 6154]	7288	[8648, 2445]	9976	[3640, 255]
1913	[3174, 3168]	4601	[4143, 2956]	7289	[4917, 4602]	9977	[10379, 3654]
1914	[3175, 3176]	4602	[66, 3169]	7290	[8337, 4651]	9978	[10380, 248]
1915	[3177, 1440]	4603	[6155, 3058]	7291	[8649, 4948]	9979	[10381, 6475]
1916	[3178, 1378]	4604	[6156, 3580]	7292	[8650, 4497]	9980	[10382, 4113]
1917	[3179, 3180]	4605	[3970, 6157]	7293	[4871, 221]	9981	[3242, 6372]
1918	[3181, 3182]	4606	[4272, 6158]	7294	[8651, 8652]	9982	[3015, 6224]
1919	[3183, 3184]	4607	[6159, 6160]	7295	[658, 213]	9983	[7643, 9303]
1920	[3185, 3186]	4608	[6161, 6162]	7296	[8653, 4687]	9984	[10383, 6000]
1921	[3187, 3188]	4609	[6163, 6036]	7297	[2618, 628]	9985	[10384, 3621]
1922	[3189, 3190]	4610	[6164, 6165]	7298	[8654, 8536]	9986	[6358, 1045]
1923	[3191, 982]	4611	[6166, 1117]	7299	[8655, 7740]	9987	[476, 3797]
1924	[3192, 3193]	4612	[6167, 6168]	7300	[4713, 2720]	9988	[3110, 965]
1925	[3194, 3195]	4613	[6169, 6170]	7301	[8656, 5303]	9989	[7730, 6503]
1926	[3196, 3197]	4614	[1159, 1315]	7302	[8628, 4962]	9990	[1004, 3045]
1927	[3198, 330]	4615	[6171, 6172]	7303	[8657, 2334]	9991	[9748, 10308]
1928	[3199, 3200]	4616	[6173, 293]	7304	[8658, 5819]	9992	[7142, 7216]
1929	[3201, 3123]	4617	[4304, 6174]	7305	[4726, 2016]	9993	[9510, 10385]
1930	[3202, 3203]	4618	[6175, 3366]	7306	[8659, 8171]	9994	[3482, 3953]

1931	[3204, 3205]	4619	[1094, 6176]	7307	[794, 505]	9995	[10386, 7302]
1932	[1195, 2878]	4620	[479, 6177]	7308	[8660, 2547]	9996	[3348, 9223]
1933	[3206, 3207]	4621	[6087, 3781]	7309	[8661, 7770]	9997	[6791, 3387]
1934	[3208, 3209]	4622	[3110, 6178]	7310	[173, 1823]	9998	[3273, 7271]
1935	[3210, 3211]	4623	[1554, 1584]	7311	[8662, 5557]	9999	[3511, 1224]
1936	[3212, 3213]	4624	[3945, 6179]	7312	[8663, 2590]	10000	[10387, 1069]
1937	[3214, 3215]	4625	[6180, 6181]	7313	[8664, 4667]	10001	[10388, 10389]
1938	[3216, 317]	4626	[6182, 1141]	7314	[5325, 550]	10002	[7402, 4461]
1939	[3217, 3218]	4627	[6183, 6184]	7315	[8665, 1960]	10003	[3667, 3351]
1940	[3219, 3220]	4628	[6185, 1307]	7316	[8666, 8393]	10004	[9050, 3088]
1941	[3221, 3222]	4629	[6186, 6187]	7317	[8667, 8668]	10005	[70, 2822]
1942	[3223, 3224]	4630	[6188, 6189]	7318	[8669, 5314]	10006	[1536, 4299]
1943	[3225, 3226]	4631	[6190, 6191]	7319	[8511, 8507]	10007	[10390, 6830]
1944	[3227, 3228]	4632	[6078, 4365]	7320	[1702, 5318]	10008	[7531, 3949]
1945	[1117, 3229]	4633	[6192, 6193]	7321	[8670, 2031]	10009	[10381, 10391]
1946	[3230, 3231]	4634	[6194, 6195]	7322	[8671, 5442]	10010	[10392, 3092]
1947	[3232, 2969]	4635	[942, 6196]	7323	[8672, 8673]	10011	[7577, 6402]
1948	[3233, 3234]	4636	[333, 3761]	7324	[2173, 4692]	10012	[10393, 3391]
1949	[3235, 3236]	4637	[6197, 3855]	7325	[8674, 2109]	10013	[9038, 3849]
1950	[3237, 3238]	4638	[6198, 6199]	7326	[8675, 2608]	10014	[10394, 1040]
1951	[3239, 3240]	4639	[6200, 6201]	7327	[8676, 1914]	10015	[10395, 3676]
1952	[3241, 3242]	4640	[6202, 6203]	7328	[5215, 1849]	10016	[7618, 302]
1953	[3243, 3244]	4641	[6204, 306]	7329	[8677, 8678]	10017	[1366, 3155]
1954	[3245, 2845]	4642	[3537, 6205]	7330	[8679, 4521]	10018	[1142, 2823]
1955	[3246, 3247]	4643	[6206, 6207]	7331	[8680, 8681]	10019	[9035, 7349]
1956	[3248, 3249]	4644	[6208, 1007]	7332	[8682, 8575]	10020	[1641, 3933]
1957	[2974, 3250]	4645	[6209, 1519]	7333	[5565, 1812]	10021	[10396, 9502]
1958	[3251, 3252]	4646	[6210, 5998]	7334	[8683, 2797]	10022	[10397, 2942]
1959	[3253, 3236]	4647	[4002, 6211]	7335	[8684, 4691]	10023	[1626, 3563]
1960	[3254, 3255]	4648	[6212, 4469]	7336	[8685, 2492]	10024	[10398, 9362]
1961	[3256, 3137]	4649	[6213, 6214]	7337	[8686, 2529]	10025	[1164, 10371]
1962	[3257, 3258]	4650	[3809, 1142]	7338	[57, 1705]	10026	[10399, 4074]
1963	[3259, 3260]	4651	[6189, 6215]	7339	[873, 2664]	10027	[7728, 7012]
1964	[3261, 3262]	4652	[6216, 100]	7340	[5258, 5992]	10028	[10400, 6397]
1965	[3263, 3264]	4653	[6217, 6218]	7341	[8687, 8608]	10029	[9344, 3021]
1966	[3265, 2910]	4654	[1151, 6219]	7342	[8688, 5204]	10030	[4092, 9008]
1967	[3266, 3267]	4655	[1153, 6220]	7343	[8689, 5026]	10031	[10384, 9697]
1968	[392, 3268]	4656	[6221, 1084]	7344	[8690, 2759]	10032	[10401, 1321]
1969	[3269, 3270]	4657	[4456, 1204]	7345	[8691, 8542]	10033	[10402, 10403]
1970	[3271, 3272]	4658	[6222, 6223]	7346	[4711, 4746]	10034	[10404, 938]
1971	[3273, 3274]	4659	[1119, 6224]	7347	[8692, 881]	10035	[10275, 1100]
1972	[3275, 3276]	4660	[6225, 6226]	7348	[8693, 2583]	10036	[10405, 112]
1973	[3277, 3278]	4661	[6227, 3843]	7349	[7812, 5870]	10037	[3942, 6686]
1974	[425, 3279]	4662	[6228, 3068]	7350	[8074, 529]	10038	[8971, 3197]

1975	[3280, 3045]	4663	[6229, 91]	7351	[8694, 2003]	10039	[10406, 2944]
1976	[3281, 3000]	4664	[6230, 1480]	7352	[5255, 818]	10040	[412, 481]
1977	[3282, 3283]	4665	[3063, 6231]	7353	[724, 1846]	10041	[10374, 7512]
1978	[3284, 1101]	4666	[6112, 6232]	7354	[5615, 1715]	10042	[932, 2853]
1979	[3285, 3286]	4667	[1595, 4313]	7355	[8695, 8696]	10043	[10407, 3461]
1980	[3287, 3288]	4668	[4367, 6233]	7356	[5574, 637]	10044	[3981, 9461]
1981	[3289, 3290]	4669	[6234, 1461]	7357	[723, 1845]	10045	[10408, 3357]
1982	[3291, 3292]	4670	[2896, 4438]	7358	[5100, 2367]	10046	[10409, 3719]
1983	[3293, 3294]	4671	[3647, 1589]	7359	[8697, 2746]	10047	[1239, 1265]
1984	[3295, 1361]	4672	[6235, 6236]	7360	[8698, 8699]	10048	[10410, 9279]
1985	[3296, 978]	4673	[3922, 6237]	7361	[2493, 1769]	10049	[10411, 3625]
1986	[3297, 3298]	4674	[72, 3771]	7362	[8700, 8533]	10050	[3434, 9192]
1987	[96, 3299]	4675	[6238, 6239]	7363	[5516, 191]	10051	[1272, 6334]
1988	[3300, 3301]	4676	[6240, 3946]	7364	[8701, 5459]	10052	[9009, 4445]
1989	[3302, 3303]	4677	[6080, 3280]	7365	[8060, 4862]	10053	[3995, 1147]
1990	[1211, 3304]	4678	[6241, 1226]	7366	[8702, 7866]	10054	[9331, 463]
1991	[3305, 1031]	4679	[6242, 6243]	7367	[5957, 1688]	10055	[9435, 10264]
1992	[3306, 3307]	4680	[1028, 3672]	7368	[780, 4784]	10056	[10412, 1501]
1993	[3308, 3309]	4681	[6244, 6245]	7369	[2147, 2092]	10057	[10413, 10372]
1994	[3310, 3311]	4682	[6053, 6046]	7370	[8703, 8704]	10058	[10414, 349]
1995	[3312, 3313]	4683	[6246, 6247]	7371	[8705, 2068]	10059	[10415, 1618]
1996	[3314, 2838]	4684	[3722, 6248]	7372	[8706, 8707]	10060	[6985, 9601]
1997	[2932, 3315]	4685	[6249, 6250]	7373	[2772, 5218]	10061	[10416, 914]
1998	[3316, 3317]	4686	[6251, 6252]	7374	[8708, 2731]	10062	[10417, 1401]
1999	[3318, 3161]	4687	[6253, 3339]	7375	[5409, 7856]	10063	[9582, 7060]
2000	[3319, 3320]	4688	[3637, 6254]	7376	[8709, 5025]	10064	[9612, 10418]
2001	[3321, 3322]	4689	[6255, 3104]	7377	[8029, 2270]	10065	[10419, 6219]
2002	[3323, 3224]	4690	[6256, 6257]	7378	[5219, 1703]	10066	[7699, 4376]
2003	[3324, 3325]	4691	[6258, 4277]	7379	[5390, 4768]	10067	[10420, 6199]
2004	[3326, 3327]	4692	[3595, 3971]	7380	[8710, 5934]	10068	[10421, 9604]
2005	[3328, 3329]	4693	[6259, 6260]	7381	[8711, 2007]	10069	[1546, 10272]
2006	[3290, 3330]	4694	[6261, 6262]	7382	[8712, 8713]	10070	[10422, 3388]
2007	[3331, 3103]	4695	[6263, 1118]	7383	[5553, 639]	10071	[10423, 3921]
2008	[3332, 3333]	4696	[6264, 3655]	7384	[8714, 4795]	10072	[10424, 4007]
2009	[3334, 3335]	4697	[6265, 6266]	7385	[1940, 4608]	10073	[10425, 3499]
2010	[340, 3336]	4698	[6267, 460]	7386	[8715, 8716]	10074	[10426, 8964]
2011	[342, 3337]	4699	[6268, 464]	7387	[8717, 8718]	10075	[9684, 6195]
2012	[3338, 3339]	4700	[6269, 1535]	7388	[8719, 4903]	10076	[8977, 2962]
2013	[3340, 3341]	4701	[6270, 3310]	7389	[5369, 816]	10077	[3816, 7697]
2014	[1076, 3342]	4702	[6271, 6272]	7390	[210, 2383]	10078	[7422, 10427]
2015	[3343, 3344]	4703	[6273, 6274]	7391	[5705, 2798]	10079	[6142, 6845]
2016	[3160, 3345]	4704	[6275, 6276]	7392	[8720, 5323]	10080	[3801, 7330]
2017	[3346, 974]	4705	[970, 6277]	7393	[5216, 2661]	10081	[1348, 1592]
2018	[447, 3347]	4706	[1581, 1029]	7394	[8721, 4607]	10082	[10428, 7662]

2019	[3348, 3349]	4707	[3602, 322]	7395	[8722, 1995]	10083	[10429, 3355]
2020	[3350, 3351]	4708	[6278, 6279]	7396	[8723, 5515]	10084	[3022, 3894]
2021	[3352, 3353]	4709	[6280, 6145]	7397	[8724, 5798]	10085	[10430, 951]
2022	[3354, 3355]	4710	[6281, 6282]	7398	[8725, 5023]	10086	[1216, 402]
2023	[3356, 3357]	4711	[6283, 6284]	7399	[8726, 4653]	10087	[1388, 1192]
2024	[3358, 1318]	4712	[6285, 930]	7400	[4521, 1837]	10088	[6640, 7188]
2025	[3359, 3184]	4713	[6184, 6286]	7401	[8727, 8728]	10089	[10431, 3037]
2026	[3360, 3361]	4714	[6287, 6112]	7402	[8729, 4752]	10090	[6320, 3410]
2027	[3362, 3363]	4715	[6288, 389]	7403	[5922, 2759]	10091	[10282, 7116]
2028	[3364, 3365]	4716	[6289, 6290]	7404	[8730, 8731]	10092	[10432, 1634]
2029	[3366, 3367]	4717	[6291, 1569]	7405	[8732, 8733]	10093	[10433, 2929]
2030	[3368, 3369]	4718	[1455, 6292]	7406	[8649, 796]	10094	[1669, 7457]
2031	[3370, 3371]	4719	[6293, 3327]	7407	[8734, 4726]	10095	[10434, 2959]
2032	[3372, 3373]	4720	[4402, 6294]	7408	[8735, 8299]	10096	[9519, 6960]
2033	[3374, 1114]	4721	[6295, 1225]	7409	[8736, 4526]	10097	[10435, 1004]
2034	[3375, 1122]	4722	[3428, 6296]	7410	[8335, 708]	10098	[10322, 6559]
2035	[3376, 3377]	4723	[6297, 6298]	7411	[8737, 7961]	10099	[10436, 6193]
2036	[3154, 290]	4724	[3244, 1296]	7412	[8738, 5064]	10100	[4039, 3334]
2037	[3378, 3379]	4725	[3146, 6299]	7413	[1904, 4920]	10101	[10437, 1458]
2038	[3380, 3381]	4726	[6300, 3394]	7414	[656, 4601]	10102	[290, 7504]
2039	[297, 3382]	4727	[6301, 6302]	7415	[2342, 4655]	10103	[2918, 7344]
2040	[1196, 3383]	4728	[1014, 6303]	7416	[8052, 2384]	10104	[2975, 7229]
2041	[3384, 3385]	4729	[6304, 6305]	7417	[2281, 143]	10105	[9665, 1521]
2042	[3386, 3387]	4730	[6306, 4445]	7418	[8739, 8740]	10106	[10438, 3669]
2043	[3057, 3388]	4731	[3025, 6307]	7419	[5419, 5472]	10107	[6553, 6046]
2044	[1303, 3389]	4732	[6308, 1630]	7420	[8741, 7742]	10108	[10439, 2883]
2045	[3390, 3391]	4733	[6245, 6309]	7421	[2305, 1792]	10109	[3472, 3268]
2046	[3392, 1655]	4734	[6310, 4330]	7422	[8742, 8743]	10110	[10440, 10441]
2047	[3393, 3394]	4735	[6311, 380]	7423	[7810, 5954]	10111	[10442, 3166]
2048	[3395, 3396]	4736	[6312, 6313]	7424	[8744, 793]	10112	[30, 7119]
2049	[3397, 3398]	4737	[6314, 6315]	7425	[4746, 623]	10113	[10443, 7492]
2050	[3399, 3400]	4738	[6029, 6316]	7426	[8745, 2477]	10114	[6202, 6236]
2051	[3401, 3402]	4739	[6317, 6318]	7427	[8746, 2272]	10115	[3084, 411]
2052	[3403, 3404]	4740	[6319, 1182]	7428	[2602, 2555]	10116	[10444, 3221]
2053	[949, 3405]	4741	[6320, 6321]	7429	[8747, 1765]	10117	[10445, 6012]
2054	[1562, 2936]	4742	[6322, 1608]	7430	[4875, 4619]	10118	[10446, 4277]
2055	[3220, 3406]	4743	[6323, 6324]	7431	[8748, 8749]	10119	[10447, 90]
2056	[3288, 3050]	4744	[6325, 2832]	7432	[2600, 153]	10120	[2845, 4084]
2057	[3407, 3408]	4745	[6326, 6327]	7433	[8750, 890]	10121	[10448, 3193]
2058	[1238, 3409]	4746	[6282, 2923]	7434	[8751, 2703]	10122	[971, 6024]
2059	[3410, 3411]	4747	[6328, 6040]	7435	[8752, 4726]	10123	[10449, 3262]
2060	[3412, 3413]	4748	[3446, 6329]	7436	[8744, 5569]	10124	[10450, 3665]
2061	[3414, 3415]	4749	[3815, 467]	7437	[8753, 2733]	10125	[10451, 78]
2062	[3416, 3417]	4750	[6330, 4107]	7438	[5503, 62]	10126	[10452, 438]

2063	[3418, 3419]	4751	[6331, 6332]	7439	[8754, 5523]	10127	[9451, 4234]
2064	[3420, 1341]	4752	[6333, 2972]	7440	[4549, 1958]	10128	[10453, 3276]
2065	[3421, 3422]	4753	[6334, 6335]	7441	[8755, 8342]	10129	[10454, 3589]
2066	[3423, 3424]	4754	[6336, 6337]	7442	[4901, 714]	10130	[3708, 1400]
2067	[3425, 3426]	4755	[259, 3189]	7443	[8756, 2722]	10131	[10455, 3169]
2068	[3427, 3428]	4756	[6338, 6339]	7444	[8757, 4988]	10132	[6603, 3958]
2069	[3429, 3430]	4757	[6340, 4150]	7445	[5323, 1829]	10133	[3841, 9022]
2070	[1292, 3431]	4758	[3701, 3159]	7446	[8758, 4520]	10134	[10456, 1502]
2071	[2973, 3432]	4759	[247, 2871]	7447	[4562, 2175]	10135	[76, 4230]
2072	[3433, 3434]	4760	[6341, 3296]	7448	[8506, 2297]	10136	[10457, 1072]
2073	[3435, 3436]	4761	[6342, 6343]	7449	[8176, 4843]	10137	[10458, 1544]
2074	[3437, 3438]	4762	[6344, 3314]	7450	[144, 2340]	10138	[372, 9328]
2075	[3357, 3439]	4763	[2918, 6345]	7451	[5481, 5287]	10139	[9308, 3882]
2076	[3440, 1067]	4764	[6346, 2863]	7452	[7809, 2056]	10140	[10459, 3289]
2077	[3441, 3442]	4765	[6347, 3841]	7453	[8747, 2561]	10141	[3370, 10460]
2078	[3443, 403]	4766	[6348, 6349]	7454	[8759, 2434]	10142	[10461, 6798]
2079	[3444, 3445]	4767	[5998, 6350]	7455	[8760, 2369]	10143	[9395, 7702]
2080	[2911, 3446]	4768	[4070, 6201]	7456	[4838, 2760]	10144	[1558, 932]
2081	[3447, 1247]	4769	[1131, 6351]	7457	[8399, 2096]	10145	[9376, 3482]
2082	[3448, 3449]	4770	[3398, 6352]	7458	[2172, 889]	10146	[93, 8976]
2083	[3450, 3451]	4771	[6353, 1665]	7459	[7760, 4665]	10147	[299, 6033]
2084	[3452, 3453]	4772	[6354, 1550]	7460	[8761, 862]	10148	[10296, 338]
2085	[3247, 3454]	4773	[6337, 6355]	7461	[8360, 155]	10149	[73, 6004]
2086	[3455, 3456]	4774	[6356, 4198]	7462	[5708, 840]	10150	[4079, 6679]
2087	[3457, 3458]	4775	[6357, 6358]	7463	[8762, 7932]	10151	[9225, 9556]
2088	[3459, 3460]	4776	[6359, 3014]	7464	[8763, 2232]	10152	[9285, 4177]
2089	[3461, 2890]	4777	[6360, 6361]	7465	[8764, 2151]	10153	[7163, 335]
2090	[3462, 3444]	4778	[6362, 6363]	7466	[8765, 484]	10154	[3200, 978]
2091	[3205, 3463]	4779	[6364, 4398]	7467	[8766, 8111]	10155	[9104, 4133]
2092	[3464, 3465]	4780	[3411, 6365]	7468	[2605, 2570]	10156	[3788, 7173]
2093	[3466, 3467]	4781	[6366, 4152]	7469	[8767, 8127]	10157	[352, 4191]
2094	[3468, 3469]	4782	[6349, 1666]	7470	[2638, 4548]	10158	[10379, 10462]
2095	[3470, 3471]	4783	[6367, 4282]	7471	[5965, 2750]	10159	[1515, 9373]
2096	[3472, 3473]	4784	[6368, 6369]	7472	[2240, 5953]	10160	[7040, 432]
2097	[1070, 3474]	4785	[6370, 6371]	7473	[5847, 8288]	10161	[10286, 2961]
2098	[2959, 3475]	4786	[6372, 1658]	7474	[1999, 2524]	10162	[3439, 3504]
2099	[3476, 3477]	4787	[6373, 4171]	7475	[8768, 5580]	10163	[10463, 3642]
2100	[3478, 3479]	4788	[6374, 1535]	7476	[8769, 5278]	10164	[9270, 9311]
2101	[3480, 1640]	4789	[6375, 3352]	7477	[7783, 1727]	10165	[3249, 6756]
2102	[3066, 3481]	4790	[3327, 4225]	7478	[5362, 629]	10166	[3901, 3307]
2103	[3482, 3483]	4791	[3513, 6376]	7479	[8770, 8771]	10167	[10464, 6362]
2104	[3484, 914]	4792	[6377, 1274]	7480	[8772, 2055]	10168	[3723, 6828]
2105	[3485, 3486]	4793	[6378, 3178]	7481	[8773, 8774]	10169	[123, 9440]
2106	[3487, 1622]	4794	[6379, 6380]	7482	[5866, 658]	10170	[10465, 3226]

2107	[1107, 3488]	4795	[3669, 6381]	7483	[8445, 2088]	10171	[10466, 3209]
2108	[3489, 3490]	4796	[6382, 1196]	7484	[8775, 5876]	10172	[6965, 9044]
2109	[3491, 3055]	4797	[1084, 6383]	7485	[4989, 5331]	10173	[10467, 2876]
2110	[2978, 3056]	4798	[1645, 6384]	7486	[8776, 1689]	10174	[82, 6583]
2111	[3492, 2998]	4799	[6385, 3973]	7487	[586, 1985]	10175	[4026, 6888]
2112	[3493, 3494]	4800	[6386, 6387]	7488	[8777, 7993]	10176	[10468, 4353]
2113	[3495, 314]	4801	[4107, 1219]	7489	[8778, 2407]	10177	[3986, 3968]
2114	[924, 3496]	4802	[6388, 1676]	7490	[8779, 730]	10178	[1454, 3372]
2115	[3497, 3498]	4803	[6389, 3896]	7491	[8780, 2701]	10179	[1127, 305]
2116	[3499, 3500]	4804	[24, 6390]	7492	[8777, 485]	10180	[9080, 6434]
2117	[3501, 3502]	4805	[6391, 6392]	7493	[7894, 5135]	10181	[10469, 1310]
2118	[3503, 3504]	4806	[6393, 6394]	7494	[8781, 5979]	10182	[10470, 7570]
2119	[3505, 1148]	4807	[6395, 2903]	7495	[8782, 8783]	10183	[6648, 9001]
2120	[3506, 3507]	4808	[6396, 6397]	7496	[7745, 5272]	10184	[10471, 2873]
2121	[3508, 1239]	4809	[6398, 1518]	7497	[8061, 5405]	10185	[10472, 6016]
2122	[1667, 3509]	4810	[3147, 6399]	7498	[8784, 1813]	10186	[10441, 7340]
2123	[3510, 369]	4811	[6400, 6401]	7499	[8785, 5412]	10187	[1197, 3692]
2124	[98, 3511]	4812	[6402, 6403]	7500	[5476, 2190]	10188	[10473, 4420]
2125	[3347, 3512]	4813	[3304, 6404]	7501	[8786, 2379]	10189	[10474, 6296]
2126	[3513, 3514]	4814	[6405, 3631]	7502	[8787, 7977]	10190	[7544, 6107]
2127	[3366, 1053]	4815	[6406, 6407]	7503	[4874, 2179]	10191	[10299, 6769]
2128	[3515, 3516]	4816	[3455, 1419]	7504	[55, 561]	10192	[10315, 4371]
2129	[3517, 3518]	4817	[967, 6408]	7505	[8788, 2415]	10193	[6534, 476]
2130	[3519, 1495]	4818	[79, 1451]	7506	[2681, 1821]	10194	[6, 3085]
2131	[3434, 3520]	4819	[6409, 1017]	7507	[8789, 4704]	10195	[1416, 1565]
2132	[3521, 1236]	4820	[6410, 480]	7508	[2211, 4635]	10196	[7495, 6796]
2133	[3522, 3523]	4821	[6411, 6412]	7509	[8790, 8791]	10197	[7093, 7033]
2134	[3524, 3525]	4822	[6413, 3317]	7510	[8792, 8793]	10198	[3746, 4086]
2135	[3526, 3306]	4823	[6414, 3196]	7511	[4959, 1754]	10199	[3111, 3936]
2136	[3527, 3528]	4824	[6415, 6416]	7512	[7758, 2625]	10200	[6028, 2927]
2137	[3529, 3530]	4825	[3033, 6417]	7513	[8794, 8795]	10201	[10475, 1200]
2138	[3531, 3532]	4826	[6418, 3908]	7514	[5733, 5315]	10202	[468, 9467]
2139	[3533, 1453]	4827	[6419, 6420]	7515	[8796, 1964]	10203	[3962, 9014]
2140	[3445, 3534]	4828	[6421, 2897]	7516	[8797, 828]	10204	[10476, 977]
2141	[3535, 3062]	4829	[1007, 321]	7517	[5347, 2290]	10205	[10477, 298]
2142	[3536, 3537]	4830	[6422, 6423]	7518	[693, 2498]	10206	[10478, 1667]
2143	[3425, 1553]	4831	[3823, 1484]	7519	[8798, 7864]	10207	[10479, 10480]
2144	[3538, 3539]	4832	[6424, 2964]	7520	[5765, 2596]	10208	[10481, 9529]
2145	[275, 3540]	4833	[6425, 1307]	7521	[2561, 1958]	10209	[8975, 7052]
2146	[3541, 3542]	4834	[6426, 6427]	7522	[8799, 2659]	10210	[8943, 3768]
2147	[3543, 3413]	4835	[6428, 6429]	7523	[8800, 2751]	10211	[6748, 3072]
2148	[1517, 3544]	4836	[6430, 6431]	7524	[8801, 5390]	10212	[3506, 3939]
2149	[3545, 3546]	4837	[2811, 6432]	7525	[8802, 5752]	10213	[10482, 6956]
2150	[1135, 3547]	4838	[6433, 6434]	7526	[8803, 5028]	10214	[9673, 6589]

2151	[3548, 3549]	4839	[6435, 6436]	7527	[8626, 4557]	10215	[9666, 7389]
2152	[3550, 3551]	4840	[460, 6437]	7528	[8804, 7962]	10216	[10483, 4283]
2153	[3552, 1213]	4841	[6438, 6439]	7529	[8805, 8806]	10217	[326, 2990]
2154	[3553, 3554]	4842	[977, 6440]	7530	[8807, 8808]	10218	[3329, 3319]
2155	[3555, 3556]	4843	[1111, 6441]	7531	[8254, 4813]	10219	[10484, 9717]
2156	[3408, 3557]	4844	[6442, 3087]	7532	[8809, 8549]	10220	[9408, 9498]
2157	[3558, 3559]	4845	[6443, 6444]	7533	[8690, 5297]	10221	[310, 6136]
2158	[3560, 3561]	4846	[6445, 6446]	7534	[8810, 2432]	10222	[10485, 295]
2159	[3562, 3563]	4847	[6447, 6448]	7535	[552, 611]	10223	[10486, 9151]
2160	[3564, 3565]	4848	[4136, 6449]	7536	[8811, 8812]	10224	[10487, 3481]
2161	[18, 3566]	4849	[6450, 6334]	7537	[8813, 785]	10225	[4449, 4408]
2162	[3567, 3379]	4850	[4426, 3865]	7538	[8814, 4627]	10226	[9592, 9053]
2163	[3568, 3569]	4851	[3357, 3503]	7539	[8815, 5892]	10227	[7412, 10292]
2164	[3570, 3571]	4852	[6451, 6452]	7540	[8816, 1714]	10228	[10488, 3133]
2165	[1479, 3572]	4853	[3547, 6453]	7541	[2760, 7856]	10229	[3500, 3152]
2166	[3573, 2880]	4854	[6454, 6455]	7542	[8817, 5314]	10230	[6462, 9206]
2167	[3574, 3575]	4855	[6456, 4076]	7543	[8818, 8819]	10231	[6790, 9374]
2168	[3576, 367]	4856	[6457, 3865]	7544	[8820, 8120]	10232	[7247, 6407]
2169	[3577, 3079]	4857	[6458, 6459]	7545	[8821, 4675]	10233	[4178, 301]
2170	[1531, 3578]	4858	[1392, 6460]	7546	[8765, 2449]	10234	[1479, 7077]
2171	[3579, 3580]	4859	[6461, 4182]	7547	[4790, 5858]	10235	[1337, 7049]
2172	[3581, 3321]	4860	[6462, 6463]	7548	[8822, 4492]	10236	[3890, 6933]
2173	[3582, 3583]	4861	[6464, 6064]	7549	[8823, 1687]	10237	[10489, 7078]
2174	[3584, 248]	4862	[4389, 6465]	7550	[512, 199]	10238	[9174, 3543]
2175	[3585, 3586]	4863	[6466, 6467]	7551	[8824, 2321]	10239	[3544, 3260]
2176	[1355, 3587]	4864	[6468, 6192]	7552	[8825, 8505]	10240	[252, 3516]
2177	[3588, 3589]	4865	[6469, 6470]	7553	[8578, 5027]	10241	[4271, 2914]
2178	[3590, 2987]	4866	[992, 6471]	7554	[8826, 5164]	10242	[9576, 2923]
2179	[3591, 3592]	4867	[6472, 6473]	7555	[8827, 8828]	10243	[10490, 4411]
2180	[3593, 3594]	4868	[6474, 6475]	7556	[8829, 8565]	10244	[8942, 2886]
2181	[3224, 3595]	4869	[6476, 3022]	7557	[8450, 7773]	10245	[9699, 471]
2182	[3596, 3597]	4870	[6477, 6478]	7558	[825, 4753]	10246	[10491, 2975]
2183	[402, 1015]	4871	[3611, 1255]	7559	[8830, 2225]	10247	[10410, 4389]
2184	[3598, 3599]	4872	[6479, 6480]	7560	[8831, 8832]	10248	[7156, 1244]
2185	[3600, 3601]	4873	[6481, 3591]	7561	[8833, 8834]	10249	[10492, 377]
2186	[3602, 3603]	4874	[6274, 6482]	7562	[4794, 712]	10250	[10493, 7270]
2187	[3604, 3605]	4875	[6483, 918]	7563	[8835, 2268]	10251	[1124, 3947]
2188	[3389, 3606]	4876	[6484, 6485]	7564	[4821, 2663]	10252	[4330, 2868]
2189	[3607, 3608]	4877	[3745, 4085]	7565	[8836, 1903]	10253	[10494, 3204]
2190	[1048, 3609]	4878	[6486, 3671]	7566	[2420, 4651]	10254	[1193, 64]
2191	[3610, 3611]	4879	[6487, 6488]	7567	[8105, 152]	10255	[9078, 942]
2192	[1439, 3612]	4880	[6489, 6490]	7568	[2612, 615]	10256	[6631, 3701]
2193	[3613, 3614]	4881	[1614, 1610]	7569	[8837, 864]	10257	[6317, 6649]
2194	[3615, 3616]	4882	[6491, 4403]	7570	[8838, 525]	10258	[260, 334]

2195	[3617, 3618]	4883	[6492, 6493]	7571	[8839, 8840]	10259	[10495, 4172]
2196	[1036, 3619]	4884	[6494, 4160]	7572	[8841, 8842]	10260	[10496, 2925]
2197	[3620, 3621]	4885	[1609, 6495]	7573	[8843, 2404]	10261	[10497, 10498]
2198	[3622, 3623]	4886	[3085, 6496]	7574	[5410, 837]	10262	[4673, 897]
2199	[3624, 3625]	4887	[6497, 2916]	7575	[8844, 5690]	10263	[5198, 818]
2200	[3626, 3627]	4888	[6498, 6190]	7576	[8845, 8846]	10264	[5923, 1941]
2201	[3628, 3629]	4889	[6448, 1148]	7577	[8847, 5583]	10265	[10499, 10226]
2202	[3630, 3631]	4890	[3753, 6395]	7578	[8848, 8512]	10266	[10500, 10033]
2203	[3632, 3633]	4891	[1159, 6499]	7579	[731, 2536]	10267	[771, 658]
2204	[3634, 3635]	4892	[6500, 4423]	7580	[8849, 7894]	10268	[10501, 5153]
2205	[3636, 456]	4893	[3749, 6501]	7581	[2087, 2503]	10269	[5163, 688]
2206	[100, 3637]	4894	[2983, 1516]	7582	[8850, 5470]	10270	[10502, 5529]
2207	[3638, 3639]	4895	[6502, 6503]	7583	[8851, 8227]	10271	[10503, 664]
2208	[3640, 3641]	4896	[6504, 1491]	7584	[5290, 898]	10272	[5557, 1792]
2209	[3642, 1344]	4897	[6505, 1085]	7585	[8507, 2638]	10273	[4709, 1840]
2210	[3643, 3644]	4898	[1617, 6506]	7586	[8852, 8462]	10274	[10504, 10505]
2211	[3645, 3646]	4899	[3276, 6507]	7587	[2638, 5847]	10275	[8246, 2249]
2212	[3193, 3647]	4900	[6508, 3372]	7588	[8853, 8508]	10276	[10506, 8911]
2213	[3648, 3649]	4901	[6509, 6510]	7589	[8509, 8854]	10277	[756, 2783]
2214	[3650, 3651]	4902	[6511, 1409]	7590	[5385, 7816]	10278	[2683, 2570]
2215	[1497, 3652]	4903	[6512, 6513]	7591	[8508, 4548]	10279	[10507, 5600]
2216	[3653, 3654]	4904	[6514, 6515]	7592	[8462, 8507]	10280	[10508, 5971]
2217	[3655, 3656]	4905	[6516, 6517]	7593	[4599, 5274]	10281	[5956, 5152]
2218	[3657, 3565]	4906	[6518, 6169]	7594	[8855, 2454]	10282	[10509, 5172]
2219	[3658, 3659]	4907	[6519, 6520]	7595	[7915, 4694]	10283	[7792, 1724]
2220	[3660, 3661]	4908	[6009, 6521]	7596	[8856, 1955]	10284	[10510, 5980]
2221	[3662, 3366]	4909	[6522, 6523]	7597	[8857, 869]	10285	[8485, 4647]
2222	[3663, 3664]	4910	[6524, 1023]	7598	[724, 619]	10286	[10511, 2655]
2223	[3665, 1649]	4911	[6525, 2854]	7599	[8858, 2681]	10287	[2292, 2779]
2224	[3666, 396]	4912	[955, 3573]	7600	[8859, 5088]	10288	[2183, 778]
2225	[3667, 3668]	4913	[6526, 4373]	7601	[5833, 802]	10289	[10512, 2325]
2226	[3131, 1335]	4914	[6527, 285]	7602	[1990, 5239]	10290	[8804, 4825]
2227	[325, 3669]	4915	[6528, 6529]	7603	[8860, 8861]	10291	[10513, 4975]
2228	[3670, 3671]	4916	[6530, 3277]	7604	[8862, 1775]	10292	[5761, 640]
2229	[3672, 3673]	4917	[6531, 3468]	7605	[5683, 4770]	10293	[10514, 4808]
2230	[314, 3674]	4918	[6532, 1070]	7606	[8531, 1861]	10294	[10515, 2376]
2231	[3675, 3354]	4919	[6533, 4200]	7607	[5966, 5383]	10295	[8648, 2323]
2232	[3676, 3677]	4920	[973, 6534]	7608	[8863, 5401]	10296	[10057, 4702]
2233	[3678, 3679]	4921	[6535, 3290]	7609	[8864, 8134]	10297	[10516, 2414]
2234	[3680, 3681]	4922	[6536, 6505]	7610	[5935, 2542]	10298	[10517, 5374]
2235	[3682, 3683]	4923	[6537, 3979]	7611	[8865, 2528]	10299	[10518, 10519]
2236	[3684, 3685]	4924	[6538, 6539]	7612	[8866, 821]	10300	[857, 561]
2237	[3686, 3687]	4925	[4297, 1315]	7613	[8692, 4515]	10301	[2668, 556]
2238	[101, 3272]	4926	[6540, 6541]	7614	[8867, 7766]	10302	[10520, 5035]

2239	[3688, 3689]	4927	[6542, 6543]	7615	[613, 4654]	10303	[10521, 2023]
2240	[3690, 3691]	4928	[6544, 260]	7616	[7824, 1691]	10304	[10522, 41]
2241	[3692, 3693]	4929	[6545, 3432]	7617	[8868, 8869]	10305	[10523, 10041]
2242	[3036, 3694]	4930	[6546, 1582]	7618	[8870, 8871]	10306	[8772, 1981]
2243	[3695, 912]	4931	[6547, 6548]	7619	[8872, 8123]	10307	[7982, 895]
2244	[3696, 3697]	4932	[6549, 1064]	7620	[5224, 7825]	10308	[8090, 185]
2245	[3698, 3699]	4933	[6550, 6551]	7621	[151, 2598]	10309	[10524, 10251]
2246	[3700, 3701]	4934	[6552, 4326]	7622	[784, 2505]	10310	[10525, 10505]
2247	[3702, 3703]	4935	[6465, 6553]	7623	[8873, 5258]	10311	[2345, 4948]
2248	[3704, 3078]	4936	[6220, 1423]	7624	[8247, 5747]	10312	[5901, 5225]
2249	[3705, 3706]	4937	[6554, 6555]	7625	[5478, 1937]	10313	[10526, 492]
2250	[3707, 264]	4938	[6556, 1237]	7626	[8874, 5233]	10314	[2233, 712]
2251	[3708, 3709]	4939	[6557, 6558]	7627	[8875, 8783]	10315	[10527, 8206]
2252	[3710, 3711]	4940	[6148, 3811]	7628	[8876, 5580]	10316	[10528, 2059]
2253	[3712, 3713]	4941	[377, 3195]	7629	[5938, 1839]	10317	[1964, 1870]
2254	[3714, 3715]	4942	[6559, 3091]	7630	[8877, 7808]	10318	[10529, 4967]
2255	[3716, 3717]	4943	[6560, 6561]	7631	[8863, 5950]	10319	[5975, 7962]
2256	[3718, 3719]	4944	[6562, 6198]	7632	[8878, 2790]	10320	[5129, 1696]
2257	[3109, 3720]	4945	[3053, 6563]	7633	[8879, 8096]	10321	[10530, 5672]
2258	[3721, 3722]	4946	[6564, 322]	7634	[8880, 2258]	10322	[10531, 9860]
2259	[3170, 3674]	4947	[6565, 6517]	7635	[8881, 901]	10323	[8351, 4670]
2260	[3723, 3724]	4948	[4467, 2951]	7636	[8882, 5134]	10324	[8510, 8507]
2261	[3725, 1590]	4949	[6358, 6566]	7637	[505, 2053]	10325	[9890, 2241]
2262	[3726, 385]	4950	[6567, 6568]	7638	[8883, 5889]	10326	[10532, 2051]
2263	[3727, 450]	4951	[6569, 2943]	7639	[5110, 1806]	10327	[10533, 5741]
2264	[3728, 3729]	4952	[80, 1452]	7640	[8884, 8107]	10328	[10534, 2451]
2265	[1232, 3730]	4953	[6570, 6571]	7641	[8885, 7764]	10329	[10535, 8315]
2266	[3731, 3732]	4954	[3646, 3788]	7642	[8679, 2388]	10330	[10536, 633]
2267	[1052, 3233]	4955	[6572, 1654]	7643	[8886, 1893]	10331	[10537, 4744]
2268	[3733, 3734]	4956	[1362, 6573]	7644	[2655, 2403]	10332	[4506, 1729]
2269	[3735, 3736]	4957	[6574, 89]	7645	[8887, 5901]	10333	[10538, 9922]
2270	[3697, 3737]	4958	[3168, 6575]	7646	[5004, 190]	10334	[5321, 2504]
2271	[3738, 1003]	4959	[6576, 80]	7647	[8888, 2599]	10335	[10539, 10540]
2272	[3739, 3740]	4960	[3998, 6034]	7648	[820, 4568]	10336	[5074, 4521]
2273	[2801, 3741]	4961	[6577, 3749]	7649	[5979, 5083]	10337	[10541, 8905]
2274	[3742, 3743]	4962	[6578, 3568]	7650	[8889, 8366]	10338	[10542, 4857]
2275	[3744, 3510]	4963	[6579, 6078]	7651	[5276, 2300]	10339	[10543, 2670]
2276	[3745, 3746]	4964	[6580, 6581]	7652	[8890, 8891]	10340	[1969, 557]
2277	[3747, 3248]	4965	[6582, 6583]	7653	[2568, 4519]	10341	[10544, 1770]
2278	[2955, 1271]	4966	[6584, 4270]	7654	[8892, 2286]	10342	[10545, 5486]
2279	[2944, 3748]	4967	[6585, 371]	7655	[8893, 5630]	10343	[4641, 154]
2280	[3749, 3750]	4968	[6586, 6587]	7656	[5065, 2217]	10344	[10546, 2191]
2281	[3751, 3752]	4969	[3044, 6317]	7657	[8894, 8895]	10345	[10547, 7839]
2282	[3388, 3753]	4970	[6588, 6589]	7658	[8896, 8861]	10346	[10548, 8305]

2283	[3754, 3755]	4971	[3968, 3899]	7659	[8313, 4632]	10347	[10549, 650]
2284	[3313, 3756]	4972	[6590, 6374]	7660	[8897, 703]	10348	[10550, 4787]
2285	[3757, 3758]	4973	[6591, 6592]	7661	[8898, 5028]	10349	[5015, 2709]
2286	[3759, 3760]	4974	[6593, 2801]	7662	[7951, 2390]	10350	[8089, 4782]
2287	[3761, 1265]	4975	[6594, 6595]	7663	[8432, 2466]	10351	[10551, 10519]
2288	[3762, 1233]	4976	[6596, 3758]	7664	[8899, 5661]	10352	[10552, 8871]
2289	[3763, 460]	4977	[6597, 3068]	7665	[8900, 4500]	10353	[10553, 2262]
2290	[3764, 3765]	4978	[1067, 6598]	7666	[2056, 2006]	10354	[10554, 9764]
2291	[1519, 1447]	4979	[6599, 3146]	7667	[8901, 7814]	10355	[10555, 5418]
2292	[3766, 3767]	4980	[6600, 6601]	7668	[8902, 2444]	10356	[4849, 654]
2293	[3768, 3769]	4981	[3254, 6602]	7669	[5680, 4920]	10357	[10556, 2693]
2294	[3222, 3770]	4982	[6603, 27]	7670	[8903, 2489]	10358	[10557, 571]
2295	[3771, 3772]	4983	[6604, 1455]	7671	[8203, 537]	10359	[8522, 169]
2296	[3773, 2819]	4984	[6605, 6606]	7672	[5310, 598]	10360	[5112, 2384]
2297	[3774, 3775]	4985	[6607, 6608]	7673	[8904, 8905]	10361	[7782, 2756]
2298	[3776, 1156]	4986	[6609, 3618]	7674	[5165, 4831]	10362	[10558, 5572]
2299	[3777, 3778]	4987	[6610, 6611]	7675	[8906, 2560]	10363	[2272, 4748]
2300	[3779, 992]	4988	[6612, 3400]	7676	[1914, 181]	10364	[8121, 1971]
2301	[3780, 3702]	4989	[6613, 6614]	7677	[8907, 583]	10365	[10559, 5172]
2302	[3408, 3781]	4990	[6615, 4444]	7678	[8908, 8909]	10366	[10560, 763]
2303	[3782, 3783]	4991	[6616, 6617]	7679	[5768, 5218]	10367	[10561, 4577]
2304	[3784, 3785]	4992	[6618, 6619]	7680	[8910, 8911]	10368	[10562, 8454]
2305	[3786, 3787]	4993	[3986, 3898]	7681	[2207, 4534]	10369	[10563, 486]
2306	[3788, 3789]	4994	[6620, 3908]	7682	[8912, 61]	10370	[8374, 4527]
2307	[3790, 1560]	4995	[6621, 6622]	7683	[8913, 1752]	10371	[10528, 594]
2308	[3791, 3792]	4996	[6623, 6624]	7684	[5137, 4964]	10372	[201, 2614]
2309	[3793, 3794]	4997	[3890, 6625]	7685	[5340, 2536]	10373	[10564, 168]
2310	[3795, 3796]	4998	[6626, 6261]	7686	[8914, 2186]	10374	[10565, 5410]
2311	[3797, 3798]	4999	[6627, 6416]	7687	[8915, 4594]	10375	[10566, 4901]
2312	[3799, 3800]	5000	[6628, 3626]	7688	[2188, 2411]	10376	[1727, 5242]
2313	[3801, 3802]	5001	[6629, 73]	7689	[5107, 8269]	10377	[2495, 517]
2314	[3803, 985]	5002	[4371, 6630]	7690	[5862, 8269]	10378	[189, 1806]
2315	[1010, 3804]	5003	[6631, 4183]	7691	[8510, 8512]	10379	[10567, 4793]
2316	[2942, 403]	5004	[6632, 377]	7692	[8916, 5735]	10380	[2453, 488]
2317	[3805, 3806]	5005	[6633, 6634]	7693	[2749, 5966]	10381	[10568, 5971]
2318	[3807, 3808]	5006	[6635, 3734]	7694	[2478, 1912]	10382	[10569, 48]
2319	[64, 3809]	5007	[6636, 2962]	7695	[1876, 2419]	10383	[10570, 5158]
2320	[3810, 3811]	5008	[6637, 3053]	7696	[8917, 228]	10384	[10571, 5608]
2321	[3812, 3813]	5009	[6638, 6639]	7697	[7805, 5017]	10385	[4884, 2096]
2322	[3814, 3815]	5010	[3213, 6245]	7698	[8918, 699]	10386	[10572, 8808]
2323	[3816, 3817]	5011	[6640, 6641]	7699	[8919, 819]	10387	[7872, 5415]
2324	[3818, 394]	5012	[6642, 920]	7700	[2283, 130]	10388	[10573, 7827]
2325	[3819, 3820]	5013	[6643, 1131]	7701	[8920, 677]	10389	[4985, 4810]
2326	[3821, 3822]	5014	[6644, 4391]	7702	[529, 2504]	10390	[10574, 4703]

2327	[287, 3823]	5015	[935, 6645]	7703	[1886, 883]	10391	[5095, 2232]
2328	[3824, 3825]	5016	[6646, 6647]	7704	[7851, 4548]	10392	[9964, 823]
2329	[3826, 2900]	5017	[4319, 6648]	7705	[5383, 8269]	10393	[10575, 5497]
2330	[3687, 3827]	5018	[3551, 6649]	7706	[5401, 8286]	10394	[4502, 4534]
2331	[3828, 3829]	5019	[6650, 6651]	7707	[8921, 1707]	10395	[10576, 2712]
2332	[3830, 1416]	5020	[6652, 1455]	7708	[8922, 2670]	10396	[4910, 2789]
2333	[3831, 3832]	5021	[6653, 3916]	7709	[2557, 2416]	10397	[10577, 2672]
2334	[3833, 3834]	5022	[3672, 6654]	7710	[5943, 2618]	10398	[4934, 5456]
2335	[102, 3835]	5023	[6655, 6392]	7711	[8923, 8291]	10399	[10578, 5682]
2336	[3836, 1484]	5024	[6656, 6657]	7712	[8924, 4821]	10400	[10579, 7909]
2337	[3837, 3838]	5025	[372, 6658]	7713	[8925, 5074]	10401	[10580, 7868]
2338	[3839, 3840]	5026	[6659, 6660]	7714	[5620, 1988]	10402	[10581, 8618]
2339	[3841, 3842]	5027	[6661, 3559]	7715	[4927, 1793]	10403	[4839, 4964]
2340	[3843, 3844]	5028	[6662, 6058]	7716	[8926, 5695]	10404	[10582, 5564]
2341	[3214, 3808]	5029	[1302, 6663]	7717	[4760, 1741]	10405	[5667, 4954]
2342	[3845, 3846]	5030	[3565, 3642]	7718	[8927, 8928]	10406	[2728, 1730]
2343	[3847, 1565]	5031	[6664, 3127]	7719	[5424, 4843]	10407	[10583, 5860]
2344	[3848, 3849]	5032	[6665, 2876]	7720	[8929, 8891]	10408	[10584, 8673]
2345	[3850, 3851]	5033	[4032, 6170]	7721	[8930, 8528]	10409	[10585, 4538]
2346	[3852, 3266]	5034	[3784, 4105]	7722	[2301, 1756]	10410	[10586, 7997]
2347	[2867, 3853]	5035	[6666, 3712]	7723	[2366, 4638]	10411	[10587, 7763]
2348	[3854, 3855]	5036	[6667, 3445]	7724	[8931, 8707]	10412	[10588, 2041]
2349	[3856, 3857]	5037	[6668, 6669]	7725	[5884, 4842]	10413	[10589, 643]
2350	[3858, 3859]	5038	[6670, 1572]	7726	[8394, 5452]	10414	[10590, 674]
2351	[410, 3860]	5039	[6671, 6672]	7727	[1803, 4511]	10415	[2236, 1725]
2352	[3861, 2998]	5040	[6385, 3911]	7728	[8932, 8895]	10416	[2346, 2269]
2353	[3862, 3863]	5041	[6048, 6673]	7729	[5816, 221]	10417	[1698, 2447]
2354	[3864, 3576]	5042	[6674, 6675]	7730	[8933, 7905]	10418	[2135, 4812]
2355	[3865, 3866]	5043	[6676, 3487]	7731	[5873, 799]	10419	[5738, 2232]
2356	[1069, 3867]	5044	[3236, 6677]	7732	[8934, 4860]	10420	[5559, 5274]
2357	[120, 3868]	5045	[1290, 345]	7733	[5607, 782]	10421	[10591, 4478]
2358	[3869, 446]	5046	[6678, 3189]	7734	[8935, 5755]	10422	[8503, 2530]
2359	[3870, 1229]	5047	[6679, 6680]	7735	[8936, 2392]	10423	[10592, 8718]
2360	[3871, 3464]	5048	[6681, 1039]	7736	[8937, 8233]	10424	[10593, 5590]
2361	[3872, 3873]	5049	[1130, 6682]	7737	[2663, 4898]	10425	[10594, 5215]
2362	[3072, 3874]	5050	[3994, 1146]	7738	[955, 3104]	10426	[10595, 5608]
2363	[3875, 3876]	5051	[6683, 6684]	7739	[8938, 4363]	10427	[2299, 487]
2364	[2932, 3877]	5052	[6685, 6686]	7740	[7376, 8939]	10428	[10596, 5654]
2365	[3878, 3879]	5053	[6687, 2802]	7741	[8940, 8941]	10429	[2363, 4758]
2366	[3880, 3881]	5054	[6688, 6689]	7742	[308, 8942]	10430	[8042, 726]
2367	[3882, 3883]	5055	[3939, 4121]	7743	[6065, 8943]	10431	[577, 543]
2368	[3884, 1505]	5056	[6690, 6691]	7744	[8944, 3543]	10432	[10597, 630]
2369	[3707, 3710]	5057	[6589, 6692]	7745	[7671, 7707]	10433	[2330, 2620]
2370	[3885, 353]	5058	[3868, 6241]	7746	[6238, 6651]	10434	[10598, 10540]

2371	[438, 3886]	5059	[1239, 6693]	7747	[8945, 8946]	10435	[4944, 5774]
2372	[3887, 3888]	5060	[305, 6694]	7748	[8947, 8948]	10436	[5350, 627]
2373	[3889, 3890]	5061	[6695, 6696]	7749	[8949, 6394]	10437	[10599, 2372]
2374	[3891, 3892]	5062	[6697, 909]	7750	[8950, 8951]	10438	[7790, 835]
2375	[3893, 3894]	5063	[6698, 6699]	7751	[6871, 7190]	10439	[10600, 759]
2376	[3895, 1502]	5064	[6700, 6701]	7752	[8952, 1011]	10440	[10601, 5258]
2377	[3896, 3897]	5065	[6702, 6384]	7753	[3301, 6735]	10441	[10068, 751]
2378	[3898, 3899]	5066	[3244, 6703]	7754	[8953, 1620]	10442	[8881, 5185]
2379	[3900, 3901]	5067	[281, 6704]	7755	[8954, 7045]	10443	[10602, 8181]
2380	[3902, 3903]	5068	[6705, 6706]	7756	[8955, 3939]	10444	[10603, 4947]
2381	[3904, 3273]	5069	[353, 2931]	7757	[8956, 8957]	10445	[10604, 7957]
2382	[938, 3905]	5070	[6101, 6707]	7758	[8958, 3269]	10446	[10605, 8749]
2383	[3785, 3906]	5071	[6708, 6709]	7759	[8959, 4464]	10447	[2016, 1943]
2384	[3907, 2999]	5072	[6710, 6711]	7760	[7242, 7453]	10448	[10606, 4793]
2385	[3908, 3909]	5073	[6712, 3214]	7761	[8960, 8961]	10449	[10607, 5526]
2386	[3910, 3911]	5074	[6713, 1351]	7762	[8962, 3251]	10450	[10608, 8391]
2387	[3912, 3052]	5075	[6714, 6715]	7763	[8963, 8964]	10451	[2101, 1829]
2388	[3913, 3914]	5076	[6716, 6717]	7764	[4176, 8965]	10452	[10609, 836]
2389	[1407, 3915]	5077	[1515, 6718]	7765	[115, 7232]	10453	[10610, 2158]
2390	[3916, 3917]	5078	[6719, 84]	7766	[8966, 7483]	10454	[10611, 8631]
2391	[3918, 3919]	5079	[6720, 1303]	7767	[8967, 8968]	10455	[5508, 2382]
2392	[3920, 3921]	5080	[3217, 6721]	7768	[4184, 1142]	10456	[10612, 2578]
2393	[1256, 3922]	5081	[6722, 6684]	7769	[8969, 3354]	10457	[10613, 9941]
2394	[1074, 3923]	5082	[6723, 6724]	7770	[8970, 8971]	10458	[707, 5030]
2395	[3924, 3925]	5083	[986, 6725]	7771	[8972, 6408]	10459	[10614, 10110]
2396	[3926, 3090]	5084	[1188, 4383]	7772	[8973, 3882]	10460	[2227, 711]
2397	[3927, 3928]	5085	[6726, 6727]	7773	[4397, 8974]	10461	[10615, 10207]
2398	[2920, 3929]	5086	[3106, 1325]	7774	[1579, 6237]	10462	[7784, 4482]
2399	[3930, 2877]	5087	[4040, 3335]	7775	[7002, 465]	10463	[2295, 4557]
2400	[3931, 3828]	5088	[6728, 6729]	7776	[8975, 1533]	10464	[10616, 8008]
2401	[3932, 3933]	5089	[6730, 6731]	7777	[3165, 8976]	10465	[5157, 5066]
2402	[3934, 3935]	5090	[6732, 1207]	7778	[6224, 7464]	10466	[10617, 4980]
2403	[3936, 3937]	5091	[6733, 6734]	7779	[8977, 2891]	10467	[10618, 7936]
2404	[3938, 939]	5092	[1630, 6735]	7780	[7439, 1602]	10468	[10619, 2142]
2405	[3939, 3940]	5093	[6736, 6737]	7781	[400, 3119]	10469	[10620, 2439]
2406	[3941, 3117]	5094	[112, 6738]	7782	[8978, 2990]	10470	[10621, 9930]
2407	[3942, 3943]	5095	[6739, 6740]	7783	[8979, 6500]	10471	[4620, 5452]
2408	[380, 3944]	5096	[6741, 249]	7784	[8980, 7621]	10472	[10622, 5597]
2409	[3945, 3946]	5097	[6742, 2833]	7785	[8981, 7299]	10473	[8320, 511]
2410	[3947, 3948]	5098	[6743, 1552]	7786	[8982, 3640]	10474	[2073, 169]
2411	[3605, 3949]	5099	[6744, 6745]	7787	[8983, 1204]	10475	[814, 2147]
2412	[384, 1110]	5100	[6746, 3530]	7788	[8984, 3576]	10476	[10623, 5476]
2413	[3950, 3951]	5101	[6747, 3333]	7789	[1464, 1086]	10477	[10624, 583]
2414	[3952, 963]	5102	[6748, 6749]	7790	[8985, 3151]	10478	[7903, 4668]

2415	[3953, 3954]	5103	[3865, 6750]	7791	[463, 8986]	10479	[10625, 4483]
2416	[3955, 3956]	5104	[6751, 6752]	7792	[8987, 3686]	10480	[2182, 631]
2417	[3957, 3958]	5105	[6753, 1521]	7793	[6536, 1463]	10481	[848, 2770]
2418	[3959, 1593]	5106	[6754, 6755]	7794	[2994, 1158]	10482	[10626, 5545]
2419	[3960, 3961]	5107	[4407, 6756]	7795	[1094, 3705]	10483	[10627, 8716]
2420	[3621, 3962]	5108	[6757, 6677]	7796	[8988, 6427]	10484	[8356, 2592]
2421	[2888, 3963]	5109	[6758, 6759]	7797	[8989, 3541]	10485	[10628, 5523]
2422	[3964, 1097]	5110	[6760, 423]	7798	[3950, 6479]	10486	[10629, 8681]
2423	[3965, 3614]	5111	[6761, 6762]	7799	[8990, 8991]	10487	[2203, 1916]
2424	[1322, 3966]	5112	[6763, 6764]	7800	[8992, 3054]	10488	[10630, 4854]
2425	[3967, 3968]	5113	[6765, 3330]	7801	[3251, 7478]	10489	[5062, 5083]
2426	[3969, 3970]	5114	[6766, 6767]	7802	[8993, 2845]	10490	[10631, 2256]
2427	[3971, 3972]	5115	[6768, 6769]	7803	[441, 4397]	10491	[10632, 9952]
2428	[3973, 3974]	5116	[6770, 2842]	7804	[6324, 1643]	10492	[10633, 8398]
2429	[3975, 1411]	5117	[6771, 6772]	7805	[8994, 8995]	10493	[10634, 9916]
2430	[1360, 1506]	5118	[6773, 6774]	7806	[8996, 8997]	10494	[5511, 1849]
2431	[3976, 3977]	5119	[3376, 6775]	7807	[7520, 6162]	10495	[2716, 4877]
2432	[3978, 3979]	5120	[4309, 3825]	7808	[7617, 6059]	10496	[10635, 8138]
2433	[3542, 3980]	5121	[6776, 6777]	7809	[8998, 3771]	10497	[2914, 6158]
2434	[3981, 3982]	5122	[6778, 1232]	7810	[8999, 9000]	10498	[9756, 10636]
2435	[3983, 2926]	5123	[6779, 4418]	7811	[9001, 9002]	10499	[3442, 10325]
2436	[3642, 3984]	5124	[6780, 437]	7812	[9003, 9004]	10500	[10637, 1222]
2437	[3985, 3986]	5125	[6781, 2975]	7813	[9005, 3583]	10501	[10638, 7114]
2438	[3987, 3988]	5126	[6782, 6783]	7814	[9006, 9007]	10502	[10639, 6412]
2439	[3989, 3977]	5127	[6784, 2875]	7815	[6469, 7528]	10503	[10640, 3740]
2440	[352, 3990]	5128	[6785, 6786]	7816	[7608, 7705]	10504	[10641, 7591]
2441	[3991, 3992]	5129	[6787, 6788]	7817	[6363, 9008]	10505	[7387, 9659]
2442	[3993, 3698]	5130	[6789, 6578]	7818	[6444, 1662]	10506	[10642, 1454]
2443	[3994, 3995]	5131	[6561, 6790]	7819	[9009, 7642]	10507	[9263, 6783]
2444	[3996, 3997]	5132	[3199, 3296]	7820	[7323, 1243]	10508	[3276, 3745]
2445	[299, 3998]	5133	[6791, 6792]	7821	[6061, 7120]	10509	[3560, 3498]
2446	[3999, 415]	5134	[6793, 6794]	7822	[9010, 1539]	10510	[10643, 7154]
2447	[1026, 4000]	5135	[3073, 3459]	7823	[9011, 9012]	10511	[10644, 3402]
2448	[2833, 4001]	5136	[6795, 6796]	7824	[9013, 9014]	10512	[10645, 3510]
2449	[1155, 4002]	5137	[6797, 6798]	7825	[3639, 7260]	10513	[10646, 1633]
2450	[4003, 3031]	5138	[3300, 1630]	7826	[9015, 4229]	10514	[4392, 1177]
2451	[4004, 3613]	5139	[6799, 3140]	7827	[9016, 9017]	10515	[7318, 6023]
2452	[4005, 3655]	5140	[6800, 1370]	7828	[9018, 6848]	10516	[3908, 3180]
2453	[3458, 922]	5141	[6801, 6802]	7829	[9019, 4017]	10517	[6067, 4338]
2454	[4006, 4007]	5142	[6803, 6804]	7830	[9020, 955]	10518	[6069, 7186]
2455	[4008, 3980]	5143	[2934, 6805]	7831	[23, 6556]	10519	[4019, 10290]
2456	[4009, 4010]	5144	[6806, 3541]	7832	[9021, 9022]	10520	[6523, 3792]
2457	[4011, 4012]	5145	[6807, 2931]	7833	[9023, 3006]	10521	[4453, 1589]
2458	[4013, 263]	5146	[323, 6808]	7834	[6488, 1264]	10522	[1215, 3540]

2459	[4014, 4015]	5147	[6809, 1151]	7835	[9024, 7666]	10523	[10647, 3101]
2460	[4016, 4017]	5148	[319, 6810]	7836	[3705, 7347]	10524	[10648, 974]
2461	[1388, 4018]	5149	[4143, 6261]	7837	[7411, 9025]	10525	[1334, 6092]
2462	[4019, 3302]	5150	[6811, 6812]	7838	[9026, 6387]	10526	[10649, 917]
2463	[4020, 4021]	5151	[6813, 6580]	7839	[908, 9020]	10527	[3636, 3635]
2464	[4022, 4023]	5152	[6224, 6814]	7840	[9027, 370]	10528	[10650, 10460]
2465	[4024, 3221]	5153	[6815, 1389]	7841	[3161, 1350]	10529	[1262, 1168]
2466	[3317, 4025]	5154	[6816, 344]	7842	[2900, 4349]	10530	[10651, 4357]
2467	[4026, 4027]	5155	[6817, 365]	7843	[3424, 7096]	10531	[3820, 3513]
2468	[4028, 4029]	5156	[6818, 6819]	7844	[9028, 3570]	10532	[10652, 6488]
2469	[4030, 1371]	5157	[6158, 6820]	7845	[481, 3150]	10533	[4413, 2999]
2470	[4031, 4032]	5158	[6821, 6822]	7846	[7620, 1497]	10534	[10653, 342]
2471	[4033, 4034]	5159	[3415, 1449]	7847	[9029, 9030]	10535	[3460, 3050]
2472	[3475, 3066]	5160	[4363, 6823]	7848	[9031, 3468]	10536	[10654, 1032]
2473	[4035, 4036]	5161	[6824, 2831]	7849	[422, 7448]	10537	[1361, 4140]
2474	[4037, 4038]	5162	[6825, 6826]	7850	[1024, 6698]	10538	[9481, 30]
2475	[4039, 4040]	5163	[6827, 6828]	7851	[9032, 9033]	10539	[6846, 7473]
2476	[4041, 4042]	5164	[6829, 6830]	7852	[9034, 6371]	10540	[7680, 10655]
2477	[4043, 4044]	5165	[6831, 6832]	7853	[9035, 297]	10541	[10656, 1483]
2478	[4045, 4046]	5166	[6047, 1019]	7854	[6609, 9036]	10542	[10657, 3479]
2479	[4047, 4048]	5167	[6833, 3251]	7855	[7419, 9037]	10543	[6390, 1238]
2480	[4049, 4050]	5168	[6710, 6834]	7856	[6343, 9038]	10544	[10658, 1485]
2481	[4051, 3714]	5169	[6835, 6836]	7857	[7426, 4143]	10545	[1160, 9528]
2482	[4052, 3089]	5170	[1566, 3862]	7858	[3409, 9039]	10546	[3063, 1439]
2483	[4053, 4054]	5171	[6837, 6838]	7859	[6472, 2808]	10547	[10659, 3712]
2484	[3694, 4055]	5172	[6839, 6840]	7860	[9040, 4283]	10548	[3897, 7590]
2485	[4002, 1470]	5173	[3424, 6110]	7861	[9041, 9042]	10549	[1440, 6622]
2486	[4056, 1636]	5174	[307, 410]	7862	[6726, 398]	10550	[10660, 6717]
2487	[917, 254]	5175	[6841, 1358]	7863	[9043, 9044]	10551	[977, 7586]
2488	[4057, 4058]	5176	[6549, 6842]	7864	[9045, 6853]	10552	[1307, 6983]
2489	[4059, 4060]	5177	[6843, 956]	7865	[3380, 7535]	10553	[10661, 4090]
2490	[293, 4061]	5178	[6332, 6844]	7866	[9046, 9047]	10554	[10662, 2977]
2491	[4062, 1425]	5179	[6845, 6846]	7867	[9048, 6038]	10555	[7582, 3025]
2492	[4063, 3601]	5180	[6847, 6848]	7868	[6599, 7722]	10556	[7157, 1245]
2493	[4064, 1185]	5181	[6849, 6850]	7869	[9049, 3646]	10557	[7096, 6111]
2494	[4032, 4065]	5182	[6851, 256]	7870	[996, 6252]	10558	[10663, 6496]
2495	[4066, 4067]	5183	[1326, 3558]	7871	[9050, 4052]	10559	[10313, 3022]
2496	[3635, 4068]	5184	[6852, 103]	7872	[9051, 1467]	10560	[2974, 3846]
2497	[4069, 4070]	5185	[6853, 3237]	7873	[9052, 3681]	10561	[10664, 4116]
2498	[1491, 4071]	5186	[378, 6368]	7874	[9053, 3451]	10562	[10665, 369]
2499	[4072, 1495]	5187	[6854, 3153]	7875	[7191, 4226]	10563	[10666, 918]
2500	[1578, 4073]	5188	[3195, 6368]	7876	[9054, 1290]	10564	[3181, 3292]
2501	[4074, 4075]	5189	[6855, 6856]	7877	[947, 1647]	10565	[9415, 472]
2502	[3333, 4076]	5190	[6857, 6095]	7878	[9055, 9056]	10566	[10667, 4292]

2503	[4077, 4078]	5191	[1276, 6858]	7879	[6528, 6124]	10567	[10479, 1354]
2504	[4079, 4080]	5192	[6859, 6807]	7880	[6723, 4280]	10568	[1097, 9289]
2505	[3715, 3434]	5193	[6860, 6721]	7881	[9057, 8961]	10569	[6758, 1474]
2506	[4081, 89]	5194	[2879, 6861]	7882	[9058, 4048]	10570	[10668, 1644]
2507	[4082, 3768]	5195	[4338, 114]	7883	[9059, 1322]	10571	[3627, 1083]
2508	[4083, 4084]	5196	[1402, 451]	7884	[9060, 9061]	10572	[10669, 9315]
2509	[4085, 4086]	5197	[6862, 6863]	7885	[2804, 4275]	10573	[10670, 26]
2510	[2900, 4087]	5198	[6864, 1434]	7886	[3699, 7710]	10574	[9725, 4269]
2511	[4088, 4089]	5199	[6865, 92]	7887	[7466, 6968]	10575	[7372, 9420]
2512	[3138, 4090]	5200	[6866, 6867]	7888	[9062, 9063]	10576	[3794, 3826]
2513	[4091, 1543]	5201	[4185, 2823]	7889	[2917, 9064]	10577	[7257, 3501]
2514	[4092, 4093]	5202	[6868, 6869]	7890	[9065, 1108]	10578	[3385, 1335]
2515	[4094, 4095]	5203	[1287, 6870]	7891	[9066, 9067]	10579	[9216, 7648]
2516	[4096, 4097]	5204	[6871, 6872]	7892	[7023, 6591]	10580	[9359, 3269]
2517	[1458, 4098]	5205	[6873, 6874]	7893	[9068, 9069]	10581	[6669, 6091]
2518	[4099, 281]	5206	[6875, 1336]	7894	[9070, 4069]	10582	[1052, 6271]
2519	[4100, 4101]	5207	[6876, 1073]	7895	[7283, 7063]	10583	[10671, 260]
2520	[4102, 3826]	5208	[6877, 122]	7896	[1248, 1122]	10584	[20, 7080]
2521	[4103, 3217]	5209	[6878, 3585]	7897	[9071, 3062]	10585	[430, 3732]
2522	[953, 4104]	5210	[6879, 6880]	7898	[9072, 6337]	10586	[10672, 429]
2523	[4105, 4106]	5211	[6881, 1392]	7899	[9073, 1153]	10587	[10673, 6168]
2524	[1675, 3223]	5212	[6882, 6399]	7900	[9074, 7588]	10588	[1672, 7471]
2525	[4107, 4108]	5213	[6883, 6884]	7901	[3911, 3974]	10589	[10674, 3494]
2526	[4109, 1445]	5214	[6885, 6479]	7902	[9075, 3666]	10590	[9250, 1268]
2527	[4110, 4111]	5215	[6886, 6887]	7903	[3507, 4121]	10591	[9426, 9517]
2528	[4112, 4113]	5216	[1269, 6888]	7904	[986, 4451]	10592	[3076, 9218]
2529	[4114, 4115]	5217	[1121, 6889]	7905	[7678, 9076]	10593	[10675, 4295]
2530	[1652, 4116]	5218	[6890, 6891]	7906	[9077, 331]	10594	[10676, 6301]
2531	[4117, 4118]	5219	[6892, 1146]	7907	[9078, 1413]	10595	[10677, 1625]
2532	[76, 4119]	5220	[6893, 985]	7908	[9079, 1675]	10596	[10678, 3656]
2533	[4120, 3636]	5221	[3804, 1244]	7909	[9080, 9081]	10597	[2852, 1185]
2534	[4121, 971]	5222	[6894, 1337]	7910	[9082, 9083]	10598	[10679, 7074]
2535	[1381, 4122]	5223	[3772, 6895]	7911	[6725, 4452]	10599	[1010, 7156]
2536	[3911, 4123]	5224	[6896, 3137]	7912	[3499, 3151]	10600	[959, 1549]
2537	[4124, 4125]	5225	[6034, 6897]	7913	[9084, 6374]	10601	[3960, 7466]
2538	[4126, 4127]	5226	[6898, 6899]	7914	[9085, 361]	10602	[344, 9508]
2539	[265, 4128]	5227	[3084, 6410]	7915	[9086, 4379]	10603	[3509, 2874]
2540	[4129, 4130]	5228	[6900, 434]	7916	[9087, 4107]	10604	[6752, 1294]
2541	[4131, 1367]	5229	[4256, 3341]	7917	[6682, 6351]	10605	[10680, 1536]
2542	[4132, 4133]	5230	[6901, 1583]	7918	[9088, 3834]	10606	[9230, 441]
2543	[4134, 4135]	5231	[6096, 6902]	7919	[1304, 3606]	10607	[7258, 3502]
2544	[1267, 4136]	5232	[6903, 1504]	7920	[9089, 6063]	10608	[6518, 4032]
2545	[4137, 3313]	5233	[6904, 6905]	7921	[6749, 9090]	10609	[10681, 1558]
2546	[3256, 4138]	5234	[6906, 6907]	7922	[9091, 6160]	10610	[10682, 2804]

2547	[4139, 4010]	5235	[3962, 6908]	7923	[7543, 7384]	10611	[10683, 4317]
2548	[4140, 4141]	5236	[6909, 274]	7924	[9092, 9093]	10612	[6404, 3568]
2549	[4142, 4143]	5237	[6910, 6911]	7925	[9094, 445]	10613	[1655, 9000]
2550	[2908, 4144]	5238	[6912, 6913]	7926	[9095, 7156]	10614	[1609, 2828]
2551	[1379, 3917]	5239	[1213, 4029]	7927	[9096, 9097]	10615	[6499, 1316]
2552	[4145, 1261]	5240	[6914, 6568]	7928	[9098, 7436]	10616	[3304, 6578]
2553	[4146, 4147]	5241	[6375, 6915]	7929	[6086, 3408]	10617	[10310, 3783]
2554	[4148, 4149]	5242	[6500, 6916]	7930	[9099, 7497]	10618	[10684, 2948]
2555	[4150, 4151]	5243	[6362, 4092]	7931	[9100, 912]	10619	[1497, 9413]
2556	[4152, 1668]	5244	[6917, 1074]	7932	[9101, 9102]	10620	[10685, 352]
2557	[4153, 4154]	5245	[6918, 6919]	7933	[7405, 3321]	10621	[3025, 4246]
2558	[4155, 3425]	5246	[973, 3054]	7934	[9103, 9104]	10622	[4140, 6573]
2559	[4156, 4157]	5247	[6920, 6921]	7935	[9105, 1324]	10623	[9745, 1061]
2560	[4158, 4159]	5248	[6922, 6923]	7936	[9106, 9107]	10624	[3940, 971]
2561	[4160, 4161]	5249	[6924, 6925]	7937	[9108, 1306]	10625	[9470, 3778]
2562	[4162, 3264]	5250	[6926, 6297]	7938	[7072, 1066]	10626	[4470, 10273]
2563	[4163, 3774]	5251	[6927, 3477]	7939	[6495, 9109]	10627	[6403, 7101]
2564	[4164, 4165]	5252	[6419, 6928]	7940	[9110, 1614]	10628	[10440, 7339]
2565	[4166, 4167]	5253	[6929, 6869]	7941	[4242, 9111]	10629	[3540, 9444]
2566	[3140, 4168]	5254	[6930, 6675]	7942	[9112, 7354]	10630	[2868, 3017]
2567	[4169, 4170]	5255	[6931, 6932]	7943	[6338, 7685]	10631	[3887, 4375]
2568	[4171, 4172]	5256	[1001, 6933]	7944	[7408, 9113]	10632	[1027, 3011]
2569	[4173, 4174]	5257	[6934, 4092]	7945	[9114, 4380]	10633	[6402, 7693]
2570	[1596, 3100]	5258	[6935, 6362]	7946	[9115, 3240]	10634	[6164, 6429]
2571	[4175, 4176]	5259	[2999, 6936]	7947	[7370, 9116]	10635	[6149, 6850]
2572	[4177, 4178]	5260	[6937, 6938]	7948	[9117, 1476]	10636	[5043, 4718]
2573	[4179, 4180]	5261	[4110, 6939]	7949	[3637, 6493]	10637	[10686, 8842]
2574	[4181, 4182]	5262	[6940, 1447]	7950	[9118, 6591]	10638	[10687, 2228]
2575	[4183, 21]	5263	[6941, 1645]	7951	[7067, 2868]	10639	[10688, 8812]
2576	[4184, 4185]	5264	[6942, 3228]	7952	[9119, 4070]	10640	[10689, 8073]
2577	[4186, 4187]	5265	[6943, 6376]	7953	[6688, 7646]	10641	[8027, 2771]
2578	[4188, 4189]	5266	[4466, 6002]	7954	[9120, 2938]	10642	[4682, 4508]
2579	[4190, 4191]	5267	[6944, 6945]	7955	[1385, 6064]	10643	[882, 1761]
2580	[4192, 1073]	5268	[6946, 4400]	7956	[9121, 2973]	10644	[10690, 4594]
2581	[1215, 4193]	5269	[4280, 6947]	7957	[9122, 9123]	10645	[10691, 10009]
2582	[4194, 4195]	5270	[6948, 1382]	7958	[9124, 3598]	10646	[10692, 9991]
2583	[4196, 4197]	5271	[6949, 6938]	7959	[423, 7449]	10647	[7767, 2126]
2584	[4198, 3164]	5272	[3566, 6950]	7960	[9125, 7271]	10648	[10693, 8258]
2585	[4199, 4200]	5273	[3379, 4459]	7961	[9126, 7222]	10649	[10694, 498]
2586	[4201, 3499]	5274	[3569, 6951]	7962	[9127, 7503]	10650	[10695, 5155]
2587	[2818, 4202]	5275	[6952, 6136]	7963	[9128, 1293]	10651	[10696, 5102]
2588	[4203, 3289]	5276	[6953, 2993]	7964	[9129, 7363]	10652	[10697, 5665]
2589	[4204, 1121]	5277	[6954, 20]	7965	[9130, 6297]	10653	[10698, 5878]
2590	[4205, 4206]	5278	[6955, 6956]	7966	[9131, 395]	10654	[2608, 5518]

2591	[4207, 1279]	5279	[6957, 1329]	7967	[415, 3161]	10655	[5533, 4758]
2592	[3041, 4208]	5280	[6223, 18]	7968	[9132, 6767]	10656	[10699, 8175]
2593	[3311, 3716]	5281	[6958, 6959]	7969	[9133, 3838]	10657	[10700, 5393]
2594	[3238, 4209]	5282	[6960, 1512]	7970	[6761, 9134]	10658	[5253, 714]
2595	[4210, 1219]	5283	[6961, 3537]	7971	[9135, 69]	10659	[10701, 5104]
2596	[3064, 4211]	5284	[6962, 3143]	7972	[9136, 4408]	10660	[10702, 4570]
2597	[4212, 3816]	5285	[6963, 1258]	7973	[9137, 7031]	10661	[8273, 195]
2598	[1282, 4213]	5286	[6964, 2850]	7974	[3641, 3073]	10662	[10703, 9829]
2599	[4214, 3293]	5287	[6965, 6966]	7975	[3007, 3389]	10663	[5024, 4769]
2600	[4215, 372]	5288	[6967, 4449]	7976	[9138, 1418]	10664	[2588, 4608]
2601	[4216, 2888]	5289	[6968, 6969]	7977	[9079, 9139]	10665	[4538, 5094]
2602	[4217, 4218]	5290	[6970, 6971]	7978	[3643, 4412]	10666	[10704, 1699]
2603	[4219, 4220]	5291	[6972, 3953]	7979	[9140, 3163]	10667	[10705, 189]
2604	[4221, 4222]	5292	[3522, 6973]	7980	[69, 2821]	10668	[8518, 2502]
2605	[4223, 1504]	5293	[6974, 6256]	7981	[6968, 9141]	10669	[10706, 10209]
2606	[4224, 4225]	5294	[6975, 6976]	7982	[9142, 9143]	10670	[10707, 5481]
2607	[4226, 4227]	5295	[6977, 6978]	7983	[9144, 3722]	10671	[10708, 9802]
2608	[4228, 4229]	5296	[6979, 1359]	7984	[311, 1202]	10672	[5293, 871]
2609	[4230, 1444]	5297	[6959, 6980]	7985	[9145, 9146]	10673	[10709, 4834]
2610	[4231, 3860]	5298	[6981, 1677]	7986	[3012, 6654]	10674	[10710, 10498]
2611	[2909, 4232]	5299	[6982, 6983]	7987	[7202, 1035]	10675	[10711, 2038]
2612	[4233, 4234]	5300	[6984, 1645]	7988	[9147, 9148]	10676	[10712, 7961]
2613	[3010, 4235]	5301	[6985, 6986]	7989	[6323, 2989]	10677	[8554, 5450]
2614	[3575, 4236]	5302	[3310, 6987]	7990	[9149, 1099]	10678	[1863, 2356]
2615	[4237, 1634]	5303	[6988, 3696]	7991	[9150, 9151]	10679	[734, 2192]
2616	[1400, 4238]	5304	[1322, 6989]	7992	[6507, 3746]	10680	[5688, 679]
2617	[4239, 1087]	5305	[6990, 6991]	7993	[9152, 9153]	10681	[10713, 2655]
2618	[4240, 1182]	5306	[3855, 3245]	7994	[2893, 1361]	10682	[2435, 2319]
2619	[1384, 3347]	5307	[3459, 3288]	7995	[9154, 9051]	10683	[53, 673]
2620	[4241, 3513]	5308	[6992, 6993]	7996	[3488, 6581]	10684	[10714, 4982]
2621	[4242, 3490]	5309	[6805, 3678]	7997	[9155, 2811]	10685	[10715, 5628]
2622	[4243, 4244]	5310	[6994, 1158]	7998	[9156, 430]	10686	[10716, 6701]
2623	[4245, 4246]	5311	[357, 3735]	7999	[7243, 9157]	10687	[3293, 418]
2624	[4247, 4248]	5312	[6995, 278]	8000	[9158, 1031]	10688	[10717, 7691]
2625	[3166, 4249]	5313	[4169, 6996]	8001	[9159, 1081]	10689	[3531, 4435]
2626	[2959, 3065]	5314	[6997, 3035]	8002	[442, 1467]	10690	[6242, 6083]
2627	[4250, 15]	5315	[72, 6998]	8003	[7250, 1578]	10691	[10718, 1276]
2628	[4251, 4252]	5316	[6999, 6256]	8004	[1480, 6395]	10692	[3124, 9504]
2629	[4253, 2978]	5317	[7000, 7001]	8005	[9160, 1604]	10693	[10719, 1422]
2630	[4254, 4255]	5318	[2837, 7002]	8006	[9161, 3827]	10694	[10720, 939]
2631	[4256, 4257]	5319	[4369, 1053]	8007	[9162, 6054]	10695	[10721, 3188]
2632	[4258, 4259]	5320	[6614, 6976]	8008	[9163, 6774]	10696	[3395, 9591]
2633	[295, 4260]	5321	[7003, 7004]	8009	[9164, 4449]	10697	[9752, 1105]
2634	[4261, 3539]	5322	[7005, 3263]	8010	[6304, 3081]	10698	[10722, 6338]

2635	[4262, 4263]	5323	[7006, 3986]	8011	[9165, 17]	10699	[10402, 6515]
2636	[2833, 4038]	5324	[7007, 2816]	8012	[4126, 6669]	10700	[7207, 7541]
2637	[4264, 4265]	5325	[7008, 6372]	8013	[9166, 4241]	10701	[3127, 4266]
2638	[4266, 4267]	5326	[7009, 1319]	8014	[8966, 3913]	10702	[6256, 7235]
2639	[4268, 4269]	5327	[6833, 7010]	8015	[9167, 337]	10703	[9195, 3843]
2640	[3032, 4270]	5328	[7011, 7012]	8016	[9168, 1341]	10704	[9744, 2835]
2641	[4271, 4272]	5329	[112, 7013]	8017	[9169, 3273]	10705	[3702, 7117]
2642	[4273, 4074]	5330	[1621, 6303]	8018	[9170, 7379]	10706	[3128, 4267]
2643	[4274, 4275]	5331	[387, 3139]	8019	[9171, 3550]	10707	[10723, 6027]
2644	[4276, 3745]	5332	[7014, 3410]	8020	[9172, 102]	10708	[917, 3640]
2645	[4277, 4278]	5333	[6069, 7015]	8021	[9173, 1453]	10709	[10724, 4050]
2646	[4279, 4280]	5334	[7016, 3705]	8022	[9174, 3412]	10710	[1252, 7029]
2647	[3342, 4281]	5335	[3571, 7017]	8023	[9175, 6907]	10711	[9438, 4023]
2648	[4282, 2874]	5336	[7018, 4168]	8024	[9176, 3124]	10712	[3153, 9127]
2649	[4283, 4284]	5337	[6002, 7019]	8025	[4250, 1135]	10713	[10725, 3421]
2650	[4285, 4286]	5338	[7020, 71]	8026	[1019, 7639]	10714	[7510, 1181]
2651	[4287, 4288]	5339	[7021, 3461]	8027	[9177, 3352]	10715	[10726, 3622]
2652	[4289, 3871]	5340	[4331, 3017]	8028	[86, 6844]	10716	[10727, 9851]
2653	[4290, 258]	5341	[7022, 1282]	8029	[9178, 9179]	10717	[8655, 5315]
2654	[1454, 2981]	5342	[7023, 7024]	8030	[9180, 6155]	10718	[187, 7743]
2655	[4291, 4292]	5343	[3958, 7025]	8031	[7025, 7214]	10719	[10728, 5797]
2656	[4293, 3127]	5344	[7026, 7027]	8032	[9181, 6694]	10720	[10729, 1735]
2657	[307, 4231]	5345	[7028, 7029]	8033	[6506, 3715]	10721	[10730, 5733]
2658	[1463, 1085]	5346	[7030, 7031]	8034	[9182, 9183]	10722	[10731, 9972]
2659	[4294, 4295]	5347	[7032, 7033]	8035	[9184, 9185]	10723	[10732, 222]
2660	[4104, 4296]	5348	[3156, 1186]	8036	[9186, 4042]	10724	[10733, 893]
2661	[1158, 4297]	5349	[7034, 7035]	8037	[9187, 3486]	10725	[10734, 5147]
2662	[4298, 2815]	5350	[7036, 7037]	8038	[9188, 4135]	10726	[10735, 4483]
2663	[4299, 4240]	5351	[2824, 7038]	8039	[9189, 1296]	10727	[10736, 4248]
2664	[1285, 4300]	5352	[7039, 1261]	8040	[5, 251]	10728	[4004, 3965]
2665	[4301, 1432]	5353	[7040, 7041]	8041	[9190, 4437]	10729	[7687, 2897]
2666	[4302, 4303]	5354	[3185, 3767]	8042	[9191, 9192]	10730	[10316, 6630]
2667	[4304, 3059]	5355	[7039, 6424]	8043	[6911, 961]	10731	[10737, 7706]
2668	[1508, 1045]	5356	[7042, 7043]	8044	[4150, 3076]	10732	[10738, 4058]
2669	[4305, 4306]	5357	[7044, 7045]	8045	[7170, 4380]	10733	[10739, 4259]
2670	[4307, 3098]	5358	[7046, 7047]	8046	[9193, 3634]	10734	[10740, 319]
2671	[4308, 4187]	5359	[7048, 4469]	8047	[9194, 936]	10735	[9623, 928]
2672	[4309, 4310]	5360	[3623, 7049]	8048	[2912, 6329]	10736	[10741, 10215]
2673	[4311, 356]	5361	[7050, 1125]	8049	[6298, 1385]	10737	[4717, 764]
2674	[4312, 272]	5362	[7051, 4351]	8050	[6904, 3859]	10738	[10742, 2027]
2675	[3822, 274]	5363	[7052, 1534]	8051	[9195, 7429]	10739	[10743, 5896]
2676	[4313, 3100]	5364	[7053, 7054]	8052	[9196, 3482]	10740	[10744, 5038]
2677	[4314, 4315]	5365	[7055, 3061]	8053	[9197, 1010]	10741	[9740, 7566]
2678	[3530, 4316]	5366	[7056, 3291]	8054	[9198, 1493]	10742	[10388, 7137]

2679	[3883, 4317]	5367	[7057, 6989]	8055	[2949, 273]	10743	[10745, 6619]
2680	[399, 3118]	5368	[7058, 6471]	8056	[9199, 1435]	10744	[10746, 4256]
2681	[4318, 4319]	5369	[7059, 7060]	8057	[9200, 9201]	10745	[10747, 2724]
2682	[4320, 4321]	5370	[7061, 1515]	8058	[9202, 7185]	10746	[10748, 5629]
2683	[4322, 478]	5371	[7062, 7063]	8059	[7604, 9203]	10747	[9588, 7598]
2684	[4323, 3036]	5372	[7064, 7065]	8060	[9204, 6466]	10748	[9654, 6965]
2685	[4324, 3983]	5373	[319, 6819]	8061	[9205, 9206]		
2686	[4325, 4326]	5374	[7066, 7067]	8062	[9207, 4082]		
2687	[4327, 472]	5375	[1111, 6899]	8063	[2824, 6691]		

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	1792	1	3584	1	5376	1	7168	0	8960	0
1	0	1793	1	3585	1	5377	1	7169	1	8961	0
2	0	1794	0	3586	1	5378	0	7170	1	8962	0
3	0	1795	0	3587	1	5379	1	7171	1	8963	0
4	1	1796	0	3588	1	5380	1	7172	1	8964	0
5	0	1797	0	3589	0	5381	1	7173	0	8965	0
6	0	1798	1	3590	1	5382	1	7174	0	8966	0
7	0	1799	0	3591	1	5383	0	7175	1	8967	0
8	1	1800	0	3592	1	5384	1	7176	0	8968	1
9	1	1801	1	3593	1	5385	0	7177	1	8969	1
10	0	1802	0	3594	0	5386	0	7178	1	8970	1
11	0	1803	0	3595	1	5387	1	7179	1	8971	0
12	0	1804	1	3596	1	5388	0	7180	1	8972	1
13	0	1805	1	3597	1	5389	1	7181	1	8973	1
14	0	1806	0	3598	1	5390	1	7182	0	8974	1
15	0	1807	0	3599	0	5391	1	7183	1	8975	1
16	0	1808	0	3600	0	5392	0	7184	0	8976	0
17	1	1809	0	3601	1	5393	1	7185	0	8977	0
18	0	1810	1	3602	1	5394	1	7186	0	8978	0
19	1	1811	1	3603	1	5395	1	7187	0	8979	0
20	1	1812	0	3604	0	5396	0	7188	1	8980	1
21	0	1813	0	3605	1	5397	1	7189	0	8981	1
22	0	1814	1	3606	0	5398	1	7190	0	8982	0
23	0	1815	1	3607	0	5399	0	7191	1	8983	0
24	0	1816	1	3608	1	5400	1	7192	1	8984	0
25	0	1817	0	3609	1	5401	1	7193	1	8985	1
26	0	1818	0	3610	1	5402	0	7194	1	8986	0
27	0	1819	1	3611	0	5403	0	7195	1	8987	0
28	0	1820	0	3612	0	5404	1	7196	1	8988	1
29	0	1821	1	3613	0	5405	1	7197	0	8989	0
30	0	1822	1	3614	0	5406	0	7198	1	8990	0
31	0	1823	0	3615	0	5407	0	7199	0	8991	1

32	1	1824	1	3616	0	5408	1	7200	0	8992	0
33	0	1825	1	3617	0	5409	1	7201	1	8993	0
34	1	1826	0	3618	1	5410	1	7202	1	8994	0
35	1	1827	0	3619	1	5411	1	7203	0	8995	0
36	0	1828	0	3620	1	5412	1	7204	0	8996	1
37	0	1829	1	3621	1	5413	1	7205	0	8997	0
38	0	1830	0	3622	1	5414	0	7206	1	8998	0
39	1	1831	0	3623	0	5415	1	7207	1	8999	1
40	0	1832	1	3624	0	5416	0	7208	1	9000	0
41	1	1833	1	3625	0	5417	1	7209	1	9001	1
42	1	1834	1	3626	0	5418	0	7210	0	9002	0
43	0	1835	1	3627	0	5419	0	7211	1	9003	0
44	0	1836	1	3628	1	5420	0	7212	1	9004	0
45	0	1837	0	3629	0	5421	1	7213	1	9005	0
46	1	1838	0	3630	0	5422	0	7214	1	9006	0
47	0	1839	0	3631	1	5423	1	7215	1	9007	1
48	0	1840	1	3632	1	5424	1	7216	1	9008	0
49	0	1841	0	3633	0	5425	0	7217	1	9009	0
50	0	1842	1	3634	1	5426	1	7218	0	9010	0
51	0	1843	0	3635	1	5427	1	7219	0	9011	0
52	1	1844	1	3636	0	5428	1	7220	1	9012	1
53	0	1845	1	3637	1	5429	1	7221	1	9013	1
54	0	1846	1	3638	1	5430	0	7222	0	9014	0
55	0	1847	1	3639	1	5431	0	7223	0	9015	1
56	1	1848	0	3640	0	5432	1	7224	0	9016	0
57	0	1849	0	3641	0	5433	1	7225	1	9017	1
58	0	1850	0	3642	0	5434	0	7226	1	9018	0
59	0	1851	1	3643	0	5435	0	7227	0	9019	1
60	1	1852	0	3644	1	5436	1	7228	0	9020	1
61	0	1853	0	3645	1	5437	0	7229	1	9021	0
62	0	1854	1	3646	1	5438	0	7230	1	9022	0
63	0	1855	1	3647	1	5439	0	7231	1	9023	0
64	1	1856	0	3648	1	5440	1	7232	0	9024	0
65	1	1857	1	3649	1	5441	0	7233	1	9025	1
66	1	1858	0	3650	1	5442	0	7234	0	9026	0
67	0	1859	1	3651	0	5443	0	7235	1	9027	0
68	0	1860	1	3652	1	5444	0	7236	1	9028	0
69	1	1861	1	3653	0	5445	1	7237	0	9029	1
70	0	1862	0	3654	0	5446	0	7238	0	9030	0
71	1	1863	0	3655	1	5447	1	7239	0	9031	1
72	1	1864	1	3656	0	5448	1	7240	0	9032	0
73	0	1865	0	3657	1	5449	1	7241	0	9033	0
74	0	1866	0	3658	0	5450	0	7242	0	9034	0
75	0	1867	0	3659	1	5451	1	7243	1	9035	1

76	0	1868	1	3660	0	5452	0	7244	1	9036	0
77	0	1869	0	3661	1	5453	1	7245	1	9037	1
78	0	1870	0	3662	0	5454	1	7246	1	9038	1
79	1	1871	1	3663	1	5455	1	7247	1	9039	0
80	0	1872	1	3664	0	5456	0	7248	0	9040	0
81	0	1873	0	3665	0	5457	0	7249	1	9041	0
82	1	1874	1	3666	0	5458	0	7250	0	9042	1
83	1	1875	0	3667	0	5459	0	7251	0	9043	1
84	0	1876	1	3668	0	5460	0	7252	1	9044	0
85	1	1877	1	3669	0	5461	0	7253	1	9045	0
86	1	1878	1	3670	0	5462	1	7254	0	9046	1
87	0	1879	1	3671	1	5463	1	7255	0	9047	1
88	1	1880	1	3672	1	5464	1	7256	1	9048	0
89	0	1881	1	3673	1	5465	0	7257	1	9049	0
90	1	1882	1	3674	1	5466	1	7258	0	9050	0
91	0	1883	0	3675	0	5467	1	7259	1	9051	1
92	1	1884	1	3676	1	5468	0	7260	0	9052	1
93	1	1885	1	3677	1	5469	0	7261	1	9053	0
94	1	1886	0	3678	0	5470	0	7262	0	9054	1
95	0	1887	1	3679	0	5471	1	7263	0	9055	0
96	0	1888	1	3680	0	5472	1	7264	1	9056	0
97	0	1889	1	3681	1	5473	1	7265	1	9057	1
98	0	1890	1	3682	1	5474	1	7266	1	9058	0
99	0	1891	0	3683	1	5475	1	7267	1	9059	1
100	1	1892	1	3684	1	5476	0	7268	1	9060	1
101	1	1893	0	3685	1	5477	1	7269	1	9061	1
102	0	1894	0	3686	1	5478	0	7270	1	9062	0
103	1	1895	0	3687	1	5479	0	7271	1	9063	1
104	1	1896	1	3688	0	5480	1	7272	0	9064	1
105	1	1897	0	3689	1	5481	1	7273	0	9065	0
106	0	1898	0	3690	1	5482	1	7274	0	9066	0
107	0	1899	0	3691	1	5483	1	7275	1	9067	1
108	1	1900	0	3692	1	5484	1	7276	1	9068	1
109	0	1901	0	3693	1	5485	0	7277	1	9069	1
110	1	1902	0	3694	0	5486	1	7278	1	9070	0
111	1	1903	1	3695	0	5487	1	7279	1	9071	0
112	1	1904	1	3696	1	5488	0	7280	1	9072	1
113	0	1905	0	3697	0	5489	0	7281	0	9073	1
114	1	1906	1	3698	1	5490	1	7282	1	9074	0
115	0	1907	1	3699	1	5491	1	7283	0	9075	0
116	1	1908	1	3700	1	5492	1	7284	0	9076	1
117	0	1909	1	3701	0	5493	0	7285	1	9077	0
118	0	1910	0	3702	1	5494	0	7286	1	9078	0
119	1	1911	1	3703	1	5495	1	7287	0	9079	1

120	0	1912	1	3704	1	5496	1	7288	0	9080	0
121	0	1913	0	3705	0	5497	0	7289	0	9081	0
122	0	1914	0	3706	0	5498	0	7290	0	9082	0
123	0	1915	0	3707	1	5499	0	7291	0	9083	1
124	0	1916	1	3708	0	5500	1	7292	1	9084	0
125	0	1917	0	3709	1	5501	0	7293	0	9085	0
126	1	1918	1	3710	1	5502	1	7294	1	9086	1
127	1	1919	0	3711	0	5503	1	7295	1	9087	0
128	0	1920	0	3712	0	5504	0	7296	1	9088	0
129	1	1921	0	3713	1	5505	0	7297	0	9089	1
130	0	1922	0	3714	1	5506	1	7298	0	9090	1
131	1	1923	1	3715	1	5507	1	7299	0	9091	0
132	0	1924	1	3716	0	5508	0	7300	0	9092	1
133	0	1925	0	3717	0	5509	0	7301	1	9093	1
134	0	1926	1	3718	0	5510	1	7302	0	9094	1
135	0	1927	1	3719	1	5511	0	7303	0	9095	0
136	1	1928	1	3720	1	5512	0	7304	0	9096	0
137	1	1929	0	3721	1	5513	1	7305	1	9097	1
138	0	1930	0	3722	1	5514	1	7306	0	9098	0
139	1	1931	0	3723	0	5515	1	7307	1	9099	0
140	1	1932	0	3724	1	5516	0	7308	1	9100	1
141	0	1933	1	3725	0	5517	1	7309	0	9101	0
142	1	1934	1	3726	0	5518	1	7310	0	9102	1
143	1	1935	0	3727	1	5519	0	7311	1	9103	0
144	0	1936	1	3728	0	5520	0	7312	0	9104	0
145	1	1937	1	3729	0	5521	0	7313	1	9105	0
146	0	1938	1	3730	0	5522	1	7314	0	9106	0
147	1	1939	1	3731	0	5523	1	7315	0	9107	0
148	0	1940	0	3732	1	5524	1	7316	1	9108	0
149	1	1941	0	3733	0	5525	1	7317	0	9109	0
150	0	1942	0	3734	1	5526	1	7318	1	9110	1
151	1	1943	1	3735	1	5527	0	7319	1	9111	1
152	0	1944	0	3736	1	5528	1	7320	0	9112	0
153	1	1945	1	3737	0	5529	0	7321	0	9113	1
154	0	1946	1	3738	0	5530	1	7322	1	9114	0
155	1	1947	0	3739	1	5531	1	7323	0	9115	0
156	1	1948	0	3740	1	5532	1	7324	1	9116	0
157	1	1949	0	3741	0	5533	0	7325	1	9117	0
158	0	1950	0	3742	1	5534	1	7326	1	9118	1
159	1	1951	1	3743	1	5535	1	7327	1	9119	0
160	0	1952	0	3744	0	5536	0	7328	1	9120	1
161	1	1953	0	3745	0	5537	0	7329	1	9121	1
162	1	1954	1	3746	1	5538	1	7330	1	9122	1
163	0	1955	1	3747	1	5539	0	7331	1	9123	1

164	1	1956	1	3748	1	5540	0	7332	0	9124	0
165	1	1957	1	3749	0	5541	1	7333	1	9125	1
166	0	1958	0	3750	1	5542	1	7334	1	9126	0
167	1	1959	1	3751	0	5543	1	7335	0	9127	0
168	1	1960	0	3752	0	5544	1	7336	0	9128	0
169	0	1961	0	3753	1	5545	1	7337	1	9129	1
170	1	1962	1	3754	0	5546	1	7338	0	9130	1
171	1	1963	1	3755	0	5547	0	7339	0	9131	1
172	0	1964	1	3756	1	5548	1	7340	1	9132	1
173	0	1965	0	3757	0	5549	1	7341	0	9133	0
174	1	1966	1	3758	0	5550	1	7342	1	9134	0
175	1	1967	0	3759	0	5551	1	7343	0	9135	0
176	0	1968	1	3760	0	5552	1	7344	1	9136	0
177	1	1969	1	3761	0	5553	1	7345	1	9137	0
178	1	1970	0	3762	0	5554	1	7346	1	9138	0
179	0	1971	0	3763	1	5555	0	7347	1	9139	0
180	0	1972	0	3764	1	5556	1	7348	0	9140	0
181	0	1973	0	3765	0	5557	1	7349	0	9141	1
182	1	1974	1	3766	1	5558	0	7350	1	9142	0
183	1	1975	0	3767	0	5559	0	7351	0	9143	0
184	1	1976	0	3768	1	5560	0	7352	1	9144	0
185	0	1977	1	3769	1	5561	0	7353	0	9145	0
186	1	1978	1	3770	0	5562	1	7354	1	9146	1
187	1	1979	1	3771	1	5563	0	7355	1	9147	1
188	0	1980	0	3772	1	5564	1	7356	0	9148	0
189	0	1981	0	3773	1	5565	1	7357	0	9149	0
190	0	1982	0	3774	1	5566	1	7358	0	9150	1
191	1	1983	1	3775	1	5567	0	7359	1	9151	1
192	0	1984	0	3776	0	5568	0	7360	0	9152	1
193	0	1985	1	3777	0	5569	1	7361	1	9153	0
194	0	1986	1	3778	1	5570	0	7362	0	9154	0
195	1	1987	0	3779	0	5571	1	7363	0	9155	1
196	0	1988	0	3780	0	5572	0	7364	1	9156	1
197	1	1989	1	3781	1	5573	0	7365	0	9157	0
198	1	1990	0	3782	1	5574	0	7366	1	9158	1
199	0	1991	0	3783	0	5575	1	7367	0	9159	1
200	1	1992	1	3784	1	5576	0	7368	0	9160	1
201	1	1993	0	3785	0	5577	1	7369	0	9161	0
202	0	1994	0	3786	0	5578	1	7370	0	9162	0
203	0	1995	0	3787	1	5579	0	7371	0	9163	1
204	1	1996	1	3788	0	5580	1	7372	0	9164	0
205	1	1997	1	3789	1	5581	0	7373	0	9165	0
206	1	1998	1	3790	0	5582	0	7374	0	9166	0
207	1	1999	0	3791	0	5583	1	7375	1	9167	0

208	1	2000	1	3792	1	5584	0	7376	0	9168	0
209	1	2001	1	3793	1	5585	1	7377	1	9169	1
210	0	2002	1	3794	0	5586	1	7378	1	9170	0
211	1	2003	1	3795	1	5587	1	7379	1	9171	1
212	0	2004	0	3796	1	5588	0	7380	1	9172	1
213	1	2005	0	3797	0	5589	1	7381	1	9173	1
214	0	2006	0	3798	1	5590	0	7382	1	9174	1
215	0	2007	1	3799	0	5591	1	7383	1	9175	1
216	1	2008	0	3800	0	5592	1	7384	1	9176	0
217	1	2009	1	3801	0	5593	1	7385	0	9177	1
218	1	2010	1	3802	0	5594	1	7386	0	9178	1
219	1	2011	1	3803	1	5595	1	7387	1	9179	1
220	1	2012	1	3804	1	5596	1	7388	1	9180	0
221	1	2013	1	3805	1	5597	1	7389	1	9181	0
222	0	2014	1	3806	0	5598	1	7390	0	9182	0
223	0	2015	1	3807	0	5599	1	7391	1	9183	0
224	1	2016	1	3808	1	5600	0	7392	1	9184	1
225	0	2017	0	3809	1	5601	1	7393	0	9185	0
226	0	2018	1	3810	1	5602	1	7394	0	9186	1
227	0	2019	0	3811	1	5603	0	7395	0	9187	1
228	1	2020	1	3812	0	5604	0	7396	0	9188	0
229	1	2021	1	3813	0	5605	1	7397	1	9189	1
230	0	2022	1	3814	1	5606	1	7398	0	9190	1
231	0	2023	0	3815	1	5607	0	7399	0	9191	0
232	0	2024	0	3816	0	5608	0	7400	0	9192	1
233	1	2025	1	3817	1	5609	0	7401	0	9193	1
234	1	2026	0	3818	0	5610	1	7402	1	9194	1
235	1	2027	0	3819	1	5611	0	7403	0	9195	1
236	0	2028	0	3820	1	5612	1	7404	1	9196	0
237	0	2029	0	3821	0	5613	1	7405	1	9197	0
238	0	2030	1	3822	0	5614	0	7406	0	9198	0
239	1	2031	0	3823	1	5615	1	7407	0	9199	1
240	0	2032	1	3824	1	5616	0	7408	0	9200	0
241	0	2033	0	3825	1	5617	0	7409	0	9201	1
242	0	2034	1	3826	0	5618	0	7410	0	9202	1
243	0	2035	1	3827	1	5619	1	7411	1	9203	0
244	0	2036	1	3828	1	5620	0	7412	1	9204	0
245	0	2037	1	3829	1	5621	1	7413	1	9205	1
246	0	2038	0	3830	0	5622	1	7414	1	9206	0
247	0	2039	1	3831	0	5623	1	7415	0	9207	1
248	1	2040	1	3832	1	5624	0	7416	0	9208	0
249	0	2041	1	3833	1	5625	0	7417	0	9209	1
250	1	2042	1	3834	0	5626	0	7418	1	9210	0
251	1	2043	1	3835	0	5627	1	7419	0	9211	0

252	0	2044	0	3836	0	5628	0	7420	1	9212	1
253	0	2045	1	3837	1	5629	0	7421	0	9213	1
254	1	2046	1	3838	0	5630	1	7422	0	9214	0
255	1	2047	0	3839	0	5631	0	7423	1	9215	1
256	0	2048	0	3840	1	5632	1	7424	0	9216	0
257	0	2049	1	3841	1	5633	1	7425	1	9217	1
258	1	2050	1	3842	1	5634	0	7426	1	9218	0
259	0	2051	0	3843	0	5635	0	7427	1	9219	0
260	0	2052	1	3844	1	5636	0	7428	1	9220	1
261	1	2053	1	3845	0	5637	0	7429	1	9221	1
262	0	2054	0	3846	1	5638	0	7430	1	9222	1
263	1	2055	1	3847	0	5639	0	7431	0	9223	0
264	0	2056	0	3848	0	5640	1	7432	1	9224	1
265	1	2057	1	3849	1	5641	0	7433	1	9225	1
266	0	2058	0	3850	1	5642	0	7434	1	9226	1
267	1	2059	0	3851	1	5643	1	7435	1	9227	1
268	1	2060	1	3852	1	5644	0	7436	0	9228	0
269	0	2061	0	3853	0	5645	1	7437	1	9229	1
270	1	2062	0	3854	1	5646	1	7438	1	9230	0
271	1	2063	1	3855	0	5647	1	7439	1	9231	1
272	0	2064	1	3856	1	5648	1	7440	0	9232	0
273	1	2065	1	3857	1	5649	1	7441	1	9233	1
274	1	2066	1	3858	1	5650	0	7442	1	9234	0
275	1	2067	1	3859	1	5651	1	7443	1	9235	1
276	1	2068	0	3860	0	5652	0	7444	1	9236	1
277	0	2069	1	3861	1	5653	1	7445	0	9237	1
278	0	2070	1	3862	0	5654	1	7446	0	9238	0
279	1	2071	0	3863	0	5655	0	7447	0	9239	0
280	1	2072	0	3864	1	5656	1	7448	0	9240	1
281	1	2073	0	3865	0	5657	1	7449	0	9241	1
282	1	2074	0	3866	1	5658	1	7450	0	9242	1
283	0	2075	1	3867	1	5659	1	7451	1	9243	1
284	0	2076	0	3868	1	5660	1	7452	0	9244	0
285	0	2077	1	3869	0	5661	1	7453	1	9245	1
286	1	2078	0	3870	1	5662	0	7454	1	9246	1
287	0	2079	1	3871	0	5663	0	7455	1	9247	1
288	0	2080	0	3872	0	5664	1	7456	1	9248	1
289	1	2081	0	3873	0	5665	0	7457	0	9249	1
290	1	2082	1	3874	0	5666	1	7458	0	9250	0
291	1	2083	1	3875	0	5667	0	7459	0	9251	1
292	0	2084	1	3876	1	5668	0	7460	1	9252	1
293	0	2085	1	3877	0	5669	0	7461	1	9253	0
294	1	2086	0	3878	1	5670	1	7462	0	9254	0
295	0	2087	1	3879	1	5671	1	7463	0	9255	0

296	0	2088	1	3880	1	5672	1	7464	0	9256	0
297	1	2089	1	3881	1	5673	0	7465	0	9257	1
298	1	2090	0	3882	0	5674	0	7466	0	9258	0
299	1	2091	0	3883	1	5675	0	7467	0	9259	0
300	0	2092	0	3884	0	5676	1	7468	0	9260	0
301	1	2093	0	3885	1	5677	0	7469	0	9261	0
302	1	2094	1	3886	1	5678	1	7470	1	9262	1
303	1	2095	0	3887	1	5679	1	7471	1	9263	0
304	0	2096	0	3888	1	5680	0	7472	1	9264	0
305	1	2097	0	3889	1	5681	0	7473	0	9265	1
306	1	2098	1	3890	1	5682	1	7474	0	9266	0
307	0	2099	1	3891	1	5683	1	7475	0	9267	0
308	1	2100	0	3892	0	5684	0	7476	1	9268	0
309	1	2101	1	3893	1	5685	0	7477	0	9269	0
310	1	2102	0	3894	0	5686	0	7478	0	9270	1
311	0	2103	0	3895	1	5687	0	7479	0	9271	0
312	0	2104	0	3896	1	5688	1	7480	1	9272	0
313	0	2105	0	3897	1	5689	0	7481	1	9273	1
314	1	2106	1	3898	0	5690	1	7482	0	9274	1
315	0	2107	0	3899	0	5691	1	7483	0	9275	1
316	0	2108	0	3900	0	5692	1	7484	0	9276	0
317	0	2109	0	3901	0	5693	1	7485	0	9277	1
318	1	2110	0	3902	1	5694	0	7486	0	9278	1
319	0	2111	0	3903	0	5695	0	7487	1	9279	0
320	1	2112	1	3904	0	5696	1	7488	0	9280	1
321	0	2113	1	3905	1	5697	0	7489	1	9281	1
322	0	2114	1	3906	0	5698	1	7490	0	9282	0
323	1	2115	0	3907	1	5699	1	7491	1	9283	1
324	1	2116	0	3908	1	5700	1	7492	0	9284	1
325	0	2117	1	3909	1	5701	1	7493	0	9285	0
326	1	2118	0	3910	0	5702	1	7494	0	9286	0
327	1	2119	1	3911	0	5703	1	7495	0	9287	1
328	0	2120	0	3912	0	5704	1	7496	1	9288	0
329	1	2121	1	3913	1	5705	1	7497	1	9289	1
330	1	2122	0	3914	0	5706	1	7498	0	9290	0
331	1	2123	0	3915	0	5707	0	7499	0	9291	0
332	1	2124	0	3916	0	5708	0	7500	0	9292	1
333	0	2125	0	3917	1	5709	1	7501	1	9293	0
334	0	2126	0	3918	1	5710	0	7502	1	9294	0
335	1	2127	0	3919	0	5711	0	7503	0	9295	1
336	1	2128	1	3920	1	5712	1	7504	0	9296	0
337	1	2129	0	3921	1	5713	1	7505	1	9297	0
338	0	2130	1	3922	0	5714	0	7506	1	9298	0
339	0	2131	1	3923	0	5715	0	7507	0	9299	1

340	1	2132	0	3924	1	5716	1	7508	1	9300	0
341	0	2133	1	3925	1	5717	1	7509	0	9301	0
342	1	2134	1	3926	0	5718	1	7510	1	9302	0
343	1	2135	1	3927	1	5719	1	7511	0	9303	1
344	0	2136	0	3928	0	5720	1	7512	0	9304	0
345	1	2137	1	3929	1	5721	0	7513	0	9305	1
346	1	2138	0	3930	1	5722	1	7514	0	9306	0
347	0	2139	0	3931	0	5723	0	7515	1	9307	0
348	1	2140	1	3932	0	5724	1	7516	0	9308	0
349	1	2141	1	3933	1	5725	1	7517	0	9309	1
350	1	2142	1	3934	0	5726	0	7518	1	9310	0
351	1	2143	1	3935	0	5727	0	7519	0	9311	1
352	0	2144	1	3936	0	5728	1	7520	0	9312	1
353	0	2145	1	3937	0	5729	0	7521	0	9313	0
354	0	2146	0	3938	1	5730	1	7522	1	9314	1
355	0	2147	0	3939	0	5731	0	7523	1	9315	1
356	0	2148	1	3940	0	5732	0	7524	0	9316	0
357	0	2149	1	3941	0	5733	0	7525	1	9317	0
358	0	2150	1	3942	1	5734	1	7526	0	9318	0
359	1	2151	1	3943	1	5735	1	7527	0	9319	0
360	1	2152	1	3944	1	5736	0	7528	0	9320	1
361	1	2153	1	3945	1	5737	0	7529	1	9321	0
362	1	2154	0	3946	0	5738	1	7530	1	9322	0
363	1	2155	1	3947	1	5739	1	7531	0	9323	1
364	1	2156	1	3948	1	5740	1	7532	1	9324	0
365	0	2157	0	3949	1	5741	0	7533	1	9325	0
366	0	2158	1	3950	1	5742	1	7534	1	9326	0
367	1	2159	0	3951	1	5743	1	7535	1	9327	1
368	1	2160	0	3952	1	5744	0	7536	1	9328	1
369	1	2161	0	3953	1	5745	0	7537	0	9329	1
370	1	2162	0	3954	0	5746	0	7538	0	9330	1
371	0	2163	0	3955	1	5747	0	7539	1	9331	1
372	1	2164	0	3956	0	5748	0	7540	0	9332	0
373	0	2165	0	3957	0	5749	0	7541	0	9333	0
374	1	2166	0	3958	1	5750	1	7542	0	9334	1
375	0	2167	0	3959	1	5751	0	7543	1	9335	1
376	0	2168	0	3960	0	5752	1	7544	1	9336	0
377	1	2169	0	3961	1	5753	0	7545	0	9337	0
378	0	2170	1	3962	0	5754	0	7546	0	9338	1
379	0	2171	0	3963	1	5755	1	7547	0	9339	1
380	1	2172	0	3964	0	5756	0	7548	0	9340	1
381	0	2173	1	3965	1	5757	0	7549	1	9341	1
382	1	2174	1	3966	1	5758	1	7550	1	9342	1
383	0	2175	1	3967	1	5759	0	7551	0	9343	1

384	1	2176	1	3968	1	5760	1	7552	0	9344	1
385	1	2177	1	3969	1	5761	0	7553	0	9345	0
386	0	2178	1	3970	0	5762	0	7554	1	9346	0
387	1	2179	1	3971	1	5763	1	7555	1	9347	0
388	1	2180	1	3972	1	5764	1	7556	0	9348	1
389	1	2181	1	3973	1	5765	0	7557	1	9349	0
390	1	2182	1	3974	0	5766	0	7558	1	9350	1
391	0	2183	0	3975	0	5767	1	7559	1	9351	0
392	1	2184	1	3976	0	5768	0	7560	0	9352	0
393	1	2185	0	3977	0	5769	1	7561	0	9353	0
394	1	2186	1	3978	1	5770	0	7562	0	9354	0
395	1	2187	0	3979	0	5771	1	7563	1	9355	1
396	0	2188	1	3980	0	5772	0	7564	1	9356	0
397	0	2189	0	3981	1	5773	0	7565	1	9357	0
398	0	2190	1	3982	0	5774	0	7566	1	9358	0
399	0	2191	1	3983	1	5775	1	7567	1	9359	1
400	0	2192	0	3984	0	5776	0	7568	1	9360	0
401	1	2193	0	3985	1	5777	0	7569	1	9361	0
402	0	2194	0	3986	0	5778	1	7570	1	9362	1
403	1	2195	0	3987	0	5779	0	7571	1	9363	1
404	0	2196	1	3988	1	5780	0	7572	1	9364	0
405	1	2197	1	3989	1	5781	1	7573	1	9365	0
406	0	2198	1	3990	0	5782	0	7574	1	9366	1
407	1	2199	0	3991	0	5783	1	7575	1	9367	1
408	1	2200	0	3992	1	5784	0	7576	0	9368	0
409	1	2201	1	3993	1	5785	1	7577	0	9369	1
410	1	2202	0	3994	0	5786	0	7578	0	9370	0
411	1	2203	1	3995	0	5787	1	7579	0	9371	0
412	1	2204	1	3996	0	5788	0	7580	1	9372	0
413	0	2205	0	3997	0	5789	0	7581	1	9373	1
414	1	2206	1	3998	0	5790	1	7582	0	9374	1
415	1	2207	1	3999	0	5791	1	7583	0	9375	1
416	1	2208	0	4000	1	5792	1	7584	1	9376	1
417	0	2209	0	4001	1	5793	1	7585	0	9377	1
418	0	2210	0	4002	0	5794	0	7586	1	9378	1
419	1	2211	1	4003	0	5795	1	7587	1	9379	0
420	1	2212	1	4004	1	5796	0	7588	1	9380	1
421	0	2213	1	4005	0	5797	1	7589	1	9381	1
422	0	2214	1	4006	1	5798	0	7590	0	9382	1
423	1	2215	1	4007	1	5799	1	7591	0	9383	1
424	1	2216	0	4008	1	5800	0	7592	0	9384	1
425	1	2217	1	4009	1	5801	1	7593	1	9385	1
426	1	2218	1	4010	1	5802	0	7594	0	9386	1
427	0	2219	0	4011	1	5803	1	7595	1	9387	1

428	1	2220	0	4012	1	5804	1	7596	0	9388	0
429	1	2221	0	4013	1	5805	0	7597	0	9389	1
430	1	2222	1	4014	0	5806	1	7598	0	9390	1
431	0	2223	0	4015	0	5807	0	7599	1	9391	0
432	1	2224	0	4016	0	5808	1	7600	1	9392	0
433	1	2225	0	4017	1	5809	0	7601	1	9393	1
434	1	2226	0	4018	0	5810	0	7602	0	9394	0
435	0	2227	0	4019	1	5811	1	7603	0	9395	1
436	0	2228	0	4020	0	5812	1	7604	1	9396	0
437	0	2229	1	4021	0	5813	0	7605	1	9397	0
438	0	2230	1	4022	1	5814	0	7606	0	9398	0
439	0	2231	0	4023	0	5815	0	7607	0	9399	1
440	1	2232	1	4024	1	5816	0	7608	0	9400	1
441	1	2233	0	4025	1	5817	1	7609	0	9401	1
442	0	2234	0	4026	1	5818	1	7610	1	9402	0
443	1	2235	1	4027	0	5819	0	7611	0	9403	0
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445	1	2237	1	4029	1	5821	1	7613	1	9405	1
446	0	2238	1	4030	1	5822	1	7614	1	9406	1
447	1	2239	0	4031	0	5823	0	7615	0	9407	0
448	1	2240	1	4032	0	5824	0	7616	1	9408	1
449	1	2241	1	4033	1	5825	1	7617	1	9409	0
450	1	2242	0	4034	0	5826	1	7618	1	9410	0
451	1	2243	0	4035	1	5827	1	7619	0	9411	0
452	0	2244	1	4036	0	5828	1	7620	1	9412	0
453	0	2245	1	4037	0	5829	1	7621	1	9413	0
454	0	2246	1	4038	0	5830	1	7622	1	9414	0
455	0	2247	1	4039	0	5831	1	7623	1	9415	0
456	0	2248	1	4040	0	5832	1	7624	1	9416	0
457	1	2249	0	4041	0	5833	1	7625	0	9417	1
458	1	2250	1	4042	0	5834	0	7626	0	9418	0
459	1	2251	0	4043	1	5835	0	7627	1	9419	1
460	1	2252	1	4044	0	5836	0	7628	1	9420	1
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462	0	2254	1	4046	0	5838	1	7630	1	9422	1
463	0	2255	0	4047	1	5839	0	7631	0	9423	0
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465	0	2257	1	4049	0	5841	0	7633	0	9425	0
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467	1	2259	0	4051	0	5843	0	7635	0	9427	0
468	1	2260	0	4052	0	5844	0	7636	1	9428	0
469	1	2261	0	4053	0	5845	1	7637	1	9429	0
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471	0	2263	1	4055	1	5847	0	7639	1	9431	1

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474	0	2266	0	4058	1	5850	0	7642	1	9434	1
475	1	2267	0	4059	0	5851	0	7643	0	9435	0
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478	0	2270	0	4062	1	5854	1	7646	0	9438	0
479	0	2271	0	4063	1	5855	1	7647	1	9439	1
480	0	2272	1	4064	1	5856	1	7648	0	9440	1
481	1	2273	1	4065	0	5857	1	7649	1	9441	0
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484	0	2276	0	4068	0	5860	1	7652	0	9444	1
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486	1	2278	0	4070	1	5862	0	7654	1	9446	0
487	1	2279	0	4071	1	5863	0	7655	0	9447	1
488	0	2280	0	4072	0	5864	1	7656	1	9448	0
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491	0	2283	0	4075	1	5867	0	7659	1	9451	0
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493	0	2285	0	4077	0	5869	1	7661	1	9453	0
494	0	2286	0	4078	0	5870	0	7662	0	9454	1
495	1	2287	0	4079	1	5871	0	7663	1	9455	0
496	0	2288	0	4080	0	5872	1	7664	0	9456	1
497	0	2289	1	4081	1	5873	1	7665	1	9457	0
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502	0	2294	1	4086	1	5878	0	7670	0	9462	0
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505	1	2297	1	4089	0	5881	1	7673	1	9465	0
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508	0	2300	0	4092	0	5884	0	7676	0	9468	0
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510	0	2302	1	4094	1	5886	1	7678	1	9470	1
511	1	2303	1	4095	0	5887	1	7679	0	9471	0
512	1	2304	1	4096	0	5888	0	7680	0	9472	1
513	1	2305	0	4097	0	5889	1	7681	1	9473	0
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515	0	2307	0	4099	0	5891	0	7683	0	9475	0

516	1	2308	0	4100	1	5892	1	7684	1	9476	0
517	0	2309	1	4101	0	5893	1	7685	1	9477	1
518	0	2310	1	4102	1	5894	1	7686	1	9478	0
519	0	2311	0	4103	1	5895	1	7687	0	9479	0
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521	1	2313	0	4105	1	5897	1	7689	1	9481	1
522	0	2314	1	4106	1	5898	1	7690	0	9482	0
523	0	2315	1	4107	0	5899	0	7691	1	9483	1
524	1	2316	1	4108	0	5900	0	7692	0	9484	0
525	1	2317	1	4109	0	5901	0	7693	0	9485	0
526	1	2318	0	4110	1	5902	1	7694	0	9486	0
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529	1	2321	0	4113	1	5905	1	7697	0	9489	1
530	0	2322	1	4114	1	5906	1	7698	0	9490	1
531	0	2323	0	4115	0	5907	1	7699	0	9491	0
532	0	2324	0	4116	0	5908	1	7700	0	9492	0
533	1	2325	1	4117	0	5909	0	7701	0	9493	0
534	0	2326	0	4118	1	5910	0	7702	1	9494	1
535	1	2327	0	4119	1	5911	1	7703	0	9495	1
536	1	2328	1	4120	0	5912	0	7704	0	9496	1
537	1	2329	0	4121	1	5913	1	7705	0	9497	1
538	0	2330	1	4122	0	5914	0	7706	1	9498	0
539	1	2331	1	4123	1	5915	1	7707	0	9499	1
540	1	2332	0	4124	0	5916	1	7708	1	9500	0
541	0	2333	0	4125	1	5917	1	7709	0	9501	0
542	1	2334	1	4126	0	5918	0	7710	0	9502	0
543	0	2335	0	4127	1	5919	1	7711	0	9503	1
544	1	2336	0	4128	0	5920	1	7712	0	9504	0
545	1	2337	1	4129	0	5921	0	7713	1	9505	1
546	0	2338	0	4130	1	5922	0	7714	0	9506	1
547	1	2339	1	4131	0	5923	1	7715	1	9507	1
548	1	2340	0	4132	1	5924	1	7716	1	9508	1
549	1	2341	1	4133	1	5925	0	7717	0	9509	0
550	1	2342	0	4134	1	5926	0	7718	1	9510	1
551	1	2343	0	4135	1	5927	0	7719	1	9511	0
552	1	2344	0	4136	0	5928	0	7720	1	9512	0
553	0	2345	1	4137	1	5929	0	7721	0	9513	0
554	0	2346	1	4138	0	5930	0	7722	0	9514	0
555	0	2347	0	4139	0	5931	0	7723	1	9515	0
556	0	2348	1	4140	0	5932	1	7724	1	9516	0
557	1	2349	1	4141	1	5933	0	7725	0	9517	1
558	1	2350	1	4142	0	5934	1	7726	1	9518	1
559	1	2351	1	4143	1	5935	1	7727	0	9519	0

560	0	2352	1	4144	0	5936	1	7728	0	9520	0
561	0	2353	0	4145	0	5937	1	7729	0	9521	1
562	0	2354	1	4146	1	5938	0	7730	0	9522	1
563	1	2355	0	4147	1	5939	1	7731	1	9523	0
564	1	2356	0	4148	0	5940	0	7732	1	9524	0
565	0	2357	0	4149	0	5941	0	7733	0	9525	0
566	1	2358	0	4150	0	5942	0	7734	0	9526	1
567	1	2359	1	4151	1	5943	0	7735	1	9527	0
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569	0	2361	0	4153	0	5945	1	7737	1	9529	1
570	0	2362	0	4154	1	5946	0	7738	0	9530	1
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574	1	2366	1	4158	1	5950	0	7742	1	9534	0
575	1	2367	0	4159	0	5951	1	7743	0	9535	0
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577	1	2369	1	4161	1	5953	0	7745	1	9537	0
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580	0	2372	1	4164	1	5956	0	7748	0	9540	0
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583	1	2375	1	4167	0	5959	1	7751	1	9543	1
584	0	2376	1	4168	1	5960	0	7752	1	9544	1
585	1	2377	1	4169	0	5961	1	7753	1	9545	0
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587	0	2379	0	4171	0	5963	0	7755	1	9547	0
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591	0	2383	0	4175	1	5967	0	7759	1	9551	0
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595	1	2387	0	4179	1	5971	0	7763	0	9555	0
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602	1	2394	1	4186	1	5978	0	7770	1	9562	0
603	1	2395	1	4187	0	5979	1	7771	1	9563	1

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607	0	2399	1	4191	1	5983	0	7775	1	9567	0
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609	1	2401	0	4193	1	5985	0	7777	0	9569	0
610	1	2402	0	4194	1	5986	0	7778	0	9570	0
611	0	2403	0	4195	1	5987	0	7779	0	9571	1
612	0	2404	1	4196	0	5988	0	7780	1	9572	1
613	0	2405	0	4197	0	5989	0	7781	0	9573	0
614	0	2406	0	4198	0	5990	0	7782	0	9574	0
615	1	2407	1	4199	1	5991	1	7783	0	9575	0
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618	0	2410	1	4202	1	5994	1	7786	0	9578	0
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620	1	2412	1	4204	1	5996	0	7788	0	9580	0
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622	0	2414	1	4206	1	5998	0	7790	1	9582	0
623	0	2415	1	4207	1	5999	0	7791	0	9583	0
624	0	2416	1	4208	0	6000	0	7792	0	9584	1
625	0	2417	0	4209	0	6001	1	7793	1	9585	0
626	1	2418	1	4210	1	6002	0	7794	1	9586	1
627	1	2419	0	4211	0	6003	0	7795	0	9587	0
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629	0	2421	0	4213	1	6005	1	7797	0	9589	1
630	0	2422	0	4214	0	6006	0	7798	1	9590	1
631	1	2423	1	4215	1	6007	0	7799	0	9591	1
632	1	2424	0	4216	0	6008	0	7800	0	9592	1
633	0	2425	1	4217	1	6009	0	7801	0	9593	1
634	1	2426	1	4218	1	6010	0	7802	0	9594	1
635	1	2427	1	4219	1	6011	1	7803	1	9595	1
636	1	2428	1	4220	0	6012	1	7804	0	9596	0
637	1	2429	0	4221	1	6013	0	7805	0	9597	0
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639	1	2431	0	4223	0	6015	1	7807	0	9599	0
640	1	2432	1	4224	1	6016	1	7808	1	9600	0
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644	0	2436	0	4228	0	6020	0	7812	0	9604	0
645	0	2437	1	4229	0	6021	0	7813	0	9605	1
646	0	2438	0	4230	0	6022	0	7814	0	9606	0
647	1	2439	1	4231	0	6023	0	7815	1	9607	1

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651	1	2443	0	4235	1	6027	0	7819	0	9611	1
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664	0	2456	1	4248	1	6040	0	7832	0	9624	0
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669	0	2461	1	4253	0	6045	0	7837	1	9629	0
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674	1	2466	0	4258	0	6050	0	7842	0	9634	1
675	1	2467	1	4259	0	6051	0	7843	1	9635	0
676	1	2468	1	4260	1	6052	0	7844	0	9636	1
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678	0	2470	0	4262	1	6054	1	7846	1	9638	0
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680	0	2472	0	4264	0	6056	1	7848	1	9640	1
681	1	2473	1	4265	1	6057	0	7849	0	9641	0
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699	0	2491	1	4283	1	6075	1	7867	0	9659	1
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701	0	2493	1	4285	0	6077	0	7869	0	9661	0
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703	0	2495	0	4287	0	6079	1	7871	0	9663	0
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706	0	2498	1	4290	1	6082	0	7874	0	9666	1
707	1	2499	0	4291	0	6083	1	7875	1	9667	0
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710	1	2502	0	4294	1	6086	0	7878	0	9670	0
711	1	2503	0	4295	1	6087	0	7879	1	9671	1
712	1	2504	1	4296	0	6088	1	7880	0	9672	0
713	0	2505	1	4297	0	6089	0	7881	1	9673	1
714	0	2506	1	4298	1	6090	0	7882	0	9674	1
715	1	2507	1	4299	1	6091	1	7883	1	9675	1
716	0	2508	1	4300	1	6092	1	7884	1	9676	0
717	0	2509	0	4301	0	6093	0	7885	1	9677	0
718	0	2510	0	4302	1	6094	0	7886	1	9678	1
719	1	2511	0	4303	0	6095	1	7887	0	9679	1
720	1	2512	0	4304	1	6096	1	7888	0	9680	0
721	0	2513	1	4305	0	6097	1	7889	1	9681	0
722	1	2514	0	4306	0	6098	0	7890	0	9682	0
723	0	2515	1	4307	1	6099	1	7891	0	9683	1
724	0	2516	0	4308	0	6100	0	7892	0	9684	1
725	1	2517	1	4309	0	6101	0	7893	1	9685	1
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729	1	2521	1	4313	1	6105	0	7897	0	9689	1
730	1	2522	0	4314	1	6106	0	7898	1	9690	0
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733	1	2525	0	4317	1	6109	0	7901	0	9693	1
734	1	2526	0	4318	1	6110	0	7902	0	9694	0
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736	0	2528	0	4320	0	6112	0	7904	1	9696	1
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739	1	2531	0	4323	1	6115	0	7907	0	9699	1
740	1	2532	0	4324	0	6116	1	7908	1	9700	1
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742	0	2534	1	4326	1	6118	0	7910	0	9702	1
743	0	2535	1	4327	1	6119	1	7911	1	9703	0
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745	0	2537	0	4329	1	6121	0	7913	0	9705	1
746	1	2538	0	4330	1	6122	0	7914	0	9706	1
747	1	2539	1	4331	1	6123	0	7915	1	9707	1
748	0	2540	0	4332	1	6124	0	7916	0	9708	1
749	1	2541	0	4333	1	6125	1	7917	1	9709	0
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751	0	2543	1	4335	0	6127	0	7919	0	9711	0
752	1	2544	1	4336	1	6128	0	7920	1	9712	0
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755	1	2547	0	4339	0	6131	0	7923	1	9715	1
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763	0	2555	0	4347	0	6139	1	7931	1	9723	0
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765	0	2557	0	4349	1	6141	1	7933	1	9725	1
766	0	2558	1	4350	0	6142	0	7934	0	9726	0
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777	1	2569	1	4361	1	6153	0	7945	0	9737	0
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784	1	2576	0	4368	1	6160	1	7952	0	9744	0
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786	1	2578	0	4370	1	6162	0	7954	1	9746	1
787	1	2579	1	4371	0	6163	0	7955	1	9747	0
788	1	2580	1	4372	0	6164	0	7956	1	9748	0
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793	0	2585	1	4377	1	6169	1	7961	0	9753	0
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795	0	2587	1	4379	0	6171	0	7963	0	9755	1
796	0	2588	0	4380	0	6172	0	7964	1	9756	0
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798	0	2590	0	4382	1	6174	1	7966	1	9758	1
799	1	2591	1	4383	1	6175	1	7967	1	9759	0
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804	0	2596	0	4388	1	6180	0	7972	0	9764	0
805	1	2597	1	4389	1	6181	1	7973	0	9765	1
806	1	2598	0	4390	0	6182	1	7974	0	9766	1
807	1	2599	0	4391	0	6183	0	7975	1	9767	1
808	1	2600	1	4392	1	6184	0	7976	0	9768	1
809	1	2601	0	4393	1	6185	1	7977	1	9769	1
810	1	2602	1	4394	0	6186	1	7978	0	9770	0
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812	1	2604	1	4396	0	6188	0	7980	1	9772	0
813	1	2605	0	4397	1	6189	1	7981	1	9773	0
814	0	2606	1	4398	1	6190	0	7982	0	9774	0
815	1	2607	0	4399	0	6191	1	7983	0	9775	0
816	1	2608	0	4400	0	6192	1	7984	0	9776	0
817	0	2609	0	4401	1	6193	0	7985	0	9777	0
818	1	2610	0	4402	0	6194	0	7986	0	9778	1
819	1	2611	0	4403	0	6195	0	7987	1	9779	0
820	0	2612	1	4404	1	6196	0	7988	1	9780	1
821	0	2613	1	4405	0	6197	0	7989	0	9781	0
822	1	2614	1	4406	0	6198	1	7990	0	9782	1
823	1	2615	1	4407	1	6199	0	7991	1	9783	1

824	0	2616	0	4408	1	6200	0	7992	1	9784	1
825	1	2617	0	4409	0	6201	0	7993	1	9785	0
826	1	2618	0	4410	0	6202	0	7994	1	9786	0
827	1	2619	0	4411	0	6203	0	7995	0	9787	0
828	0	2620	0	4412	0	6204	0	7996	1	9788	1
829	0	2621	1	4413	0	6205	0	7997	1	9789	1
830	0	2622	0	4414	0	6206	1	7998	1	9790	0
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832	0	2624	1	4416	0	6208	0	8000	1	9792	0
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834	0	2626	1	4418	1	6210	1	8002	0	9794	0
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837	1	2629	0	4421	1	6213	0	8005	1	9797	0
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843	0	2635	1	4427	1	6219	0	8011	0	9803	0
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852	0	2644	1	4436	0	6228	0	8020	1	9812	0
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906	0	2698	0	4490	1	6282	1	8074	1	9866	0
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918	1	2710	1	4502	1	6294	1	8086	0	9878	1
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927	1	2719	1	4511	0	6303	0	8095	0	9887	1
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945	0	2737	1	4529	1	6321	1	8113	1	9905	1
946	1	2738	0	4530	1	6322	0	8114	0	9906	0
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1357	0	3149	0	4941	1	6733	1	8525	1	10317	1
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1594	1	3386	1	5178	0	6970	1	8762	0	10554	1
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1596	0	3388	0	5180	1	6972	1	8764	0	10556	1
1597	1	3389	1	5181	1	6973	0	8765	0	10557	1
1598	0	3390	1	5182	0	6974	0	8766	0	10558	1
1599	0	3391	1	5183	1	6975	1	8767	0	10559	0
1600	0	3392	1	5184	1	6976	0	8768	0	10560	1
1601	0	3393	0	5185	1	6977	0	8769	1	10561	0
1602	1	3394	0	5186	0	6978	0	8770	0	10562	1
1603	0	3395	0	5187	0	6979	1	8771	1	10563	0
1604	1	3396	0	5188	1	6980	1	8772	1	10564	1
1605	1	3397	1	5189	0	6981	0	8773	1	10565	0
1606	1	3398	1	5190	1	6982	1	8774	0	10566	1
1607	1	3399	1	5191	0	6983	0	8775	0	10567	1
1608	0	3400	1	5192	0	6984	1	8776	0	10568	1
1609	1	3401	0	5193	0	6985	1	8777	0	10569	1
1610	1	3402	0	5194	1	6986	1	8778	1	10570	1
1611	1	3403	1	5195	1	6987	1	8779	0	10571	0
1612	1	3404	1	5196	0	6988	1	8780	1	10572	0
1613	0	3405	1	5197	1	6989	0	8781	0	10573	1
1614	0	3406	1	5198	0	6990	1	8782	0	10574	1
1615	1	3407	1	5199	1	6991	0	8783	1	10575	0

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1617	1	3409	0	5201	0	6993	1	8785	0	10577	1
1618	1	3410	0	5202	0	6994	0	8786	1	10578	1
1619	0	3411	1	5203	0	6995	0	8787	1	10579	0
1620	1	3412	1	5204	1	6996	1	8788	1	10580	1
1621	1	3413	1	5205	0	6997	1	8789	0	10581	0
1622	0	3414	0	5206	0	6998	0	8790	0	10582	0
1623	0	3415	0	5207	0	6999	1	8791	0	10583	1
1624	0	3416	0	5208	1	7000	0	8792	1	10584	1
1625	1	3417	0	5209	0	7001	0	8793	1	10585	1
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1630	0	3422	1	5214	0	7006	0	8798	0	10590	0
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1632	1	3424	1	5216	0	7008	0	8800	1	10592	0
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1646	0	3438	1	5230	1	7022	1	8814	0	10606	0
1647	0	3439	1	5231	1	7023	0	8815	1	10607	0
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1657	1	3449	0	5241	0	7033	0	8825	0	10617	0
1658	1	3450	1	5242	0	7034	1	8826	1	10618	1
1659	0	3451	0	5243	0	7035	0	8827	1	10619	1

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1663	1	3455	0	5247	0	7039	1	8831	0	10623	0
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1776	0	3568	0	5360	0	7152	1	8944	0	10736	0
1777	1	3569	1	5361	0	7153	1	8945	1	10737	1
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