

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

GUO-NIU HAN* AND YINING HU*

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

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 $(a, b) = (z, z^5 + z^2 + 1)$, 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 $\text{CF}(a, b)$,

$$\begin{aligned} p_0(z) &= z^{20} + z^{18} + z^{16} + z^{15} + z^{11} + z^{10} + z^9 + z^8 + z^5 + z^3 + z^2 + z + 1, \\ p_1(z) &= z^{23} + z^{21} + z^{19} + z^{17} + z^{16} + z^{12} + z^{10} + z^9 + z^6 + z^4 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{14} + z^{12} + z^{10} + z^8 + z^2, \\ p_3(z) &= z^{23} + z^{21} + z^{19} + z^{17} + z^{16} + z^{12} + z^{10} + z^9 + z^6 + z^4 + z^2 + z, \\ p_4(z) &= z^{22} + z^{18} + z^{16} + z^{15} + z^{14} + z^{11} + z^9 + z^8 + z^5 + z^3 + z, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{16} + z^{15} + z^{11} + z^{10} + z^9 + z^5 + z^4 + z^3 + z^2 + z, \\ p_1(z) &= z^{23} + z^{21} + z^{19} + z^{17} + z^{16} + z^{12} + z^{10} + z^9 + z^6 + z^4 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{14} + z^{12} + z^{10} + z^8 + z^2, \\ p_3(z) &= z^{23} + z^{21} + z^{19} + z^{17} + z^{16} + z^{12} + z^{10} + z^9 + z^6 + z^4 + z^2 + z, \\ p_4(z) &= z^{22} + z^{20} + z^{18} + z^{16} + z^{15} + z^{14} + z^{11} + z^9 + z^5 + z^4 + z^3 + z + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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

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

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

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

which can be rewritten as

$$(2.7) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[110w]_2],$$

$$(2.8) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[111w]_2],$$

$$(2.9) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1000w]_2],$$

$$(2.10) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1001w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2]$$

$$(2.11) \quad + T[[1010w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2]$$

$$(2.12) \quad + T[[101w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[110w]_2],$$

$$(2.14) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[111w]_2],$$

$$(2.15) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1000w]_2],$$

$$(2.16) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1001w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2]$$

$$(2.17) \quad + T[[1010w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2]$$

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

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8190 states; its transition function and output function can be found in the annex. Let $A(s, w)$ denote the state reached after reading w from right to left starting from the state s , and τ the output function. Define

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

Identities (2.7) through (2.18) can be written as

$$(2.19) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

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

$$(2.20) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

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

$$(2.21) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

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

$$(2.22) \quad + \tau(A(s, 1001)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

$$(2.23) \quad + \tau(A(s, 1010)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

$$(2.24) \quad + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

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

$$(2.25) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

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

$$\begin{aligned}
(2.26) \quad & 0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) \\
& \quad + \tau(A(s, 111)), \\
(2.27) \quad & 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1000)), \\
& \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) \\
(2.28) \quad & \quad + \tau(A(s, 1001)), \\
& \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\
(2.29) \quad & \quad + \tau(A(s, 1010)), \\
& \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\
(2.30) \quad & \quad + \tau(A(s, 101)) + \tau(A(s, 1011)),
\end{aligned}$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{66}), E_{66}) = (A(i, 0^{24}), E_{24})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 33$, which turns out to be true. $\square$

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

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

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

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

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

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

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

We give the proof of

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Define

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

where

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

The polynomial $Q(x, y)$ is the candidate for the minimal polynomial of $f(x)$ found by Padé-Hermite approximation. To prove that it is indeed the minimal polynomial of $f(x)$, we only need to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and $R(x, y) := P(x, y)/Q(x, y)^m$ is not an annihilating polynomial of $f(x)$. We

verify the first point directly. For the second point, we find that when we truncate $f(x)$ to order 186, and substitute it for y in $R(z, y)$, we get a series with valuation smaller than 186, which proves that $R(z, y)$ is not an annihilating polynomial of $f(x)$. Finally, $z^{12}Q(1/z, y)$ is the minimal polynomial of $\text{CF}(a, b) = f(1/z)$. $\square$

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$\begin{aligned} p_0(x) = & x^{138} + x^{134} + x^{126} + x^{124} + x^{122} + x^{116} + x^{112} + x^{110} + x^{106} + x^{100} \\ & + x^{94} + x^{90} + x^{80} + x^{78} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{54} \\ & + x^{52} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{34} + x^{26} + x^{24} + x^{20} \\ & + x^{12}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{130} + x^{126} + x^{124} + x^{120} + x^{114} + x^{112} + x^{108} + x^{102} + x^{96} + x^{92} \\ & + x^{88} + x^{78} + x^{74} + x^{70} + x^{62} + x^{54} + x^{46} + x^{42} + x^{40} + x^{36} + x^{34} \\ & + x^{20} + x^{18} + x^{16} + x^{14} + x^8, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{134} + x^{130} + x^{120} + x^{116} + x^{114} + x^{108} + x^{106} + x^{102} + x^{98} + x^{96} \\ & + x^{90} + x^{88} + x^{86} + x^{82} + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{68} + x^{66} \\ & + x^{58} + x^{56} + x^{48} + x^{46} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} \\ & + x^{24} + x^{22} + x^{18} + x^{16} + x^{14} + x^4 + x^2 + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{136} + x^{134} + x^{128} + x^{124} + x^{118} + x^{110} + x^{108} + x^{104} + x^{100} + x^{98} \\ & + x^{96} + x^{94} + x^{90} + x^{88} + x^{80} + x^{74} + x^{72} + x^{70} + x^{64} + x^{56} + x^{54} \\ & + x^{52} + x^{48} + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{30} + x^{28} + x^{22} + x^{20} \\ & + x^{18} + x^{12} + x^8 + x^6 + x^4 + x^2, \end{aligned}$$

$$p_{12}(x) = x^{136} + x^{120} + x^{104} + x^{96} + x^{72} + x^{64} + x^{56} + x^{48} + x^{24} + x^{16} + 1,$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{125} + x^{122} + x^{121} + x^{118} + x^{115} + x^{112} + x^{111} + x^{110} + x^{108} \\ & + x^{106} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{95} + x^{91} + x^{90} + x^{89} \\ & + x^{88} + x^{86} + x^{85} + x^{79} + x^{75} + x^{74} + x^{69} + x^{65} + x^{61} + x^{59} + x^{57} \\ & + x^{54} + x^{52} + x^{51} + x^{49} + x^{46} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} \\ & + x^{30} + x^{29} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{111} + x^{104} \\ & + x^{103} + x^{102} + x^{100} + x^{97} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{84} \\ & + x^{83} + x^{82} + x^{79} + x^{78} + x^{77} + x^{75} + x^{70} + x^{69} + x^{68} + x^{66} + x^{64} \end{aligned}$$

$$\begin{aligned}
& + x^{62} + x^{60} + x^{57} + x^{54} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} + x^{42} + x^{41} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{34} + x^{31} + x^{24} + x^{23} + x^{22} + x^{20} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9, \\
p_6(x) &= x^{123} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{110} + x^{108} + x^{105} \\
& + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{83} \\
& + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{73} + x^{71} + x^{69} + x^{68} + x^{64} + x^{62} \\
& + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} \\
& + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{34} + x^{31} + x^{29} + x^{27} + x^{26} \\
& + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{13} + x^{11} + x^{10} + x^9 + x^6, \\
p_9(x) &= x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{107} + x^{105} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88} \\
& + x^{87} + x^{86} + x^{84} + x^{81} + x^{78} + x^{77} + x^{76} + x^{73} + x^{70} + x^{69} + x^{67} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{40} + x^{38} + x^{36} + x^{33} + x^{32} + x^{31} + x^{29} + x^{22} + x^{21} \\
& + x^{19} + x^{16} + x^{15} + x^{14} + x^{11} + x^6 + x^5 + x^3, \\
p_{12}(x) &= x^{121} + x^{119} + x^{116} + x^{113} + x^{111} + x^{108} + x^{101} + x^{99} + x^{96} + x^{89} \\
& + x^{87} + x^{84} + x^{81} + x^{79} + x^{76} + x^{73} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{53} + x^{51} + x^{48} + x^{41} + x^{39} + x^{36} + x^{33} + x^{31} \\
& + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{15} + x^{12} + x^5 \\
& + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{122} + x^{121} + x^{118} + x^{115} + x^{112} + x^{111} + x^{110} + x^{108} \\
& + x^{106} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{95} + x^{91} + x^{90} + x^{89} \\
& + x^{88} + x^{86} + x^{85} + x^{79} + x^{75} + x^{74} + x^{69} + x^{65} + x^{61} + x^{59} + x^{57} \\
& + x^{54} + x^{52} + x^{51} + x^{49} + x^{46} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} \\
& + x^{30} + x^{29} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_3(x) &= x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{111} + x^{104} \\
& + x^{103} + x^{102} + x^{100} + x^{97} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{84} \\
& + x^{83} + x^{82} + x^{79} + x^{78} + x^{77} + x^{75} + x^{70} + x^{69} + x^{68} + x^{66} + x^{64} \\
& + x^{62} + x^{60} + x^{57} + x^{54} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} + x^{42} + x^{41} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{34} + x^{31} + x^{24} + x^{23} + x^{22} + x^{20} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9, \\
p_6(x) &= x^{123} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{110} + x^{108} + x^{105} \\
& + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{83}
\end{aligned}$$

$$\begin{aligned}
& + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{73} + x^{71} + x^{69} + x^{68} + x^{64} + x^{62} \\
& + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} \\
& + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{34} + x^{31} + x^{29} + x^{27} + x^{26} \\
& + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{13} + x^{11} + x^{10} + x^9 + x^6, \\
p_9(x) = & x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{107} + x^{105} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88} \\
& + x^{87} + x^{86} + x^{84} + x^{81} + x^{78} + x^{77} + x^{76} + x^{73} + x^{70} + x^{69} + x^{67} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{40} + x^{38} + x^{36} + x^{33} + x^{32} + x^{31} + x^{29} + x^{22} + x^{21} \\
& + x^{19} + x^{16} + x^{15} + x^{14} + x^{11} + x^6 + x^5 + x^3, \\
p_{12}(x) = & x^{121} + x^{119} + x^{116} + x^{113} + x^{111} + x^{108} + x^{101} + x^{99} + x^{96} + x^{89} \\
& + x^{87} + x^{84} + x^{81} + x^{79} + x^{76} + x^{73} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{53} + x^{51} + x^{48} + x^{41} + x^{39} + x^{36} + x^{33} + x^{31} \\
& + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{15} + x^{12} + x^5 \\
& + x^3 + 1,
\end{aligned}$$

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

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

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

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

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

$$p_0(x) = x^{114} + x^{112} + x^{108} + x^{104} + x^{100} + x^{96} + x^{94} + x^{92} + x^{90} + x^{84} + x^{82}$$

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

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{119} + x^{118} + x^{116} + x^{113} + x^{111} + x^{106} + x^{103} \\
& + x^{101} + x^{97} + x^{96} + x^{95} + x^{93} + x^{91} + x^{87} + x^{86} + x^{84} + x^{83} + x^{81} \\
& + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{68} + x^{63} + x^{62} \\
& + x^{61} + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} \\
& + x^{35} + x^{32} + x^{31} + x^{24}, \\
p_3(x) &= x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{111} + x^{104} \\
& + x^{103} + x^{102} + x^{100} + x^{97} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{84} \\
& + x^{83} + x^{82} + x^{79} + x^{78} + x^{77} + x^{75} + x^{70} + x^{69} + x^{68} + x^{66} + x^{64} \\
& + x^{62} + x^{60} + x^{57} + x^{54} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} + x^{42} + x^{41} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{34} + x^{31} + x^{24} + x^{23} + x^{22} + x^{20} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9, \\
p_6(x) &= x^{123} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{110} + x^{108} + x^{105} \\
& + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{83} \\
& + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{73} + x^{71} + x^{69} + x^{68} + x^{64} + x^{62} \\
& + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} \\
& + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{34} + x^{31} + x^{29} + x^{27} + x^{26} \\
& + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{13} + x^{11} + x^{10} + x^9 + x^6, \\
p_9(x) &= x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{107} + x^{105} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88}
\end{aligned}$$

$$\begin{aligned}
& + x^{87} + x^{86} + x^{84} + x^{81} + x^{78} + x^{77} + x^{76} + x^{73} + x^{70} + x^{69} + x^{67} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{40} + x^{38} + x^{36} + x^{33} + x^{32} + x^{31} + x^{29} + x^{22} + x^{21} \\
& + x^{19} + x^{16} + x^{15} + x^{14} + x^{11} + x^6 + x^5 + x^3, \\
p_{12}(x) = & x^{121} + x^{119} + x^{116} + x^{113} + x^{111} + x^{108} + x^{101} + x^{99} + x^{96} + x^{89} \\
& + x^{87} + x^{84} + x^{81} + x^{79} + x^{76} + x^{73} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{53} + x^{51} + x^{48} + x^{41} + x^{39} + x^{36} + x^{33} + x^{31} \\
& + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{15} + x^{12} + x^5 \\
& + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{123} + x^{119} + x^{118} + x^{116} + x^{113} + x^{111} + x^{106} + x^{103} \\
& + x^{101} + x^{97} + x^{96} + x^{95} + x^{93} + x^{91} + x^{87} + x^{86} + x^{84} + x^{83} + x^{81} \\
& + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{68} + x^{63} + x^{62} \\
& + x^{61} + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} \\
& + x^{35} + x^{32} + x^{31} + x^{24}, \\
p_3(x) = & x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{111} + x^{104} \\
& + x^{103} + x^{102} + x^{100} + x^{97} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{84} \\
& + x^{83} + x^{82} + x^{79} + x^{78} + x^{77} + x^{75} + x^{70} + x^{69} + x^{68} + x^{66} + x^{64} \\
& + x^{62} + x^{60} + x^{57} + x^{54} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} + x^{42} + x^{41} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{34} + x^{31} + x^{24} + x^{23} + x^{22} + x^{20} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9, \\
p_6(x) = & x^{123} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{110} + x^{108} + x^{105} \\
& + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{83} \\
& + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{73} + x^{71} + x^{69} + x^{68} + x^{64} + x^{62} \\
& + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} \\
& + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{34} + x^{31} + x^{29} + x^{27} + x^{26} \\
& + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{13} + x^{11} + x^{10} + x^9 + x^6, \\
p_9(x) = & x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{107} + x^{105} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88} \\
& + x^{87} + x^{86} + x^{84} + x^{81} + x^{78} + x^{77} + x^{76} + x^{73} + x^{70} + x^{69} + x^{67} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{40} + x^{38} + x^{36} + x^{33} + x^{32} + x^{31} + x^{29} + x^{22} + x^{21} \\
& + x^{19} + x^{16} + x^{15} + x^{14} + x^{11} + x^6 + x^5 + x^3, \\
p_{12}(x) = & x^{121} + x^{119} + x^{116} + x^{113} + x^{111} + x^{108} + x^{101} + x^{99} + x^{96} + x^{89}
\end{aligned}$$

$$\begin{aligned}
& + x^{87} + x^{84} + x^{81} + x^{79} + x^{76} + x^{73} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{53} + x^{51} + x^{48} + x^{41} + x^{39} + x^{36} + x^{33} + x^{31} \\
& + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{15} + x^{12} + x^5 \\
& + x^3 + 1,
\end{aligned}$$

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

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

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

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{120} + x^{115} + x^{112} + x^{108} + x^{104} + x^{103} + x^{101} \\
&+ x^{100} + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{89} + x^{88} + x^{86} + x^{82} + x^{81} \\
&+ x^{80} + x^{77} + x^{76} + x^{75} + x^{71} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{60} \\
&+ x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} \\
&+ x^{45} + x^{44} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} + x^{31} + x^{30} + x^{29} + x^{16} \\
&+ x^{15} + x^{14} + x^{12}, \\
p_3(x) &= x^{125} + x^{124} + x^{120} + x^{116} + x^{115} + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} \\
&+ x^{105} + x^{104} + x^{102} + x^{100} + x^{98} + x^{97} + x^{93} + x^{91} + x^{89} + x^{88} \\
&+ x^{82} + x^{80} + x^{75} + x^{69} + x^{68} + x^{62} + x^{59} + x^{57} + x^{53} + x^{52} + x^{51} \\
&+ x^{50} + x^{49} + x^{48} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} \\
&+ x^{35} + x^{33} + x^{32} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{22} + x^{17} + x^{16} \\
&+ x^{14} + x^{12} + x^{11} + x^{10} + x^8,
\end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{125} + x^{124} + x^{119} + x^{117} + x^{115} + x^{112} + x^{110} + x^{109} + x^{105} + x^{102} \\
&\quad + x^{100} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{83} \\
&\quad + x^{79} + x^{78} + x^{76} + x^{70} + x^{69} + x^{68} + x^{67} + x^{62} + x^{61} + x^{58} + x^{54} \\
&\quad + x^{51} + x^{50} + x^{48} + x^{47} + x^{41} + x^{34} + x^{33} + x^{32} + x^{29} + x^{27} + x^{24} \\
&\quad + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} \\
&\quad + x^7 + x^6 + x^5 + x^4 + x^3 + 1, \\
p_9(x) &= x^{125} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{105} \\
&\quad + x^{103} + x^{100} + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{80} \\
&\quad + x^{77} + x^{75} + x^{72} + x^{69} + x^{67} + x^{64} + x^{57} + x^{55} + x^{52} + x^{45} + x^{43} \\
&\quad + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{32} + x^{29} + x^{27} + x^{24} + x^{21} \\
&\quad + x^{19} + x^{16} + x^9 + x^7 + x^4, \\
p_{12}(x) &= x^{125} + x^{123} + x^{120} + x^{117} + x^{115} + x^{113} + x^{112} + x^{111} + x^{108} + x^{105} \\
&\quad + x^{103} + x^{101} + x^{100} + x^{99} + x^{96} + x^{93} + x^{91} + x^{88} + x^{85} + x^{83} + x^{81} \\
&\quad + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{68} + x^{65} + x^{63} \\
&\quad + x^{60} + x^{57} + x^{55} + x^{53} + x^{52} + x^{51} + x^{48} + x^{45} + x^{43} + x^{40} + x^{37} \\
&\quad + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{20} \\
&\quad + x^{17} + x^{15} + x^{12} + x^9 + x^7 + x^5 + x^4 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{109} \\
&\quad + x^{107} + x^{105} + x^{102} + x^{101} + x^{97} + x^{94} + x^{92} + x^{88} + x^{87} + x^{86} \\
&\quad + x^{84} + x^{82} + x^{81} + x^{78} + x^{77} + x^{76} + x^{73} + x^{71} + x^{69} + x^{66} + x^{65} \\
&\quad + x^{63} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{53} + x^{52} + x^{48} + x^{47} + x^{46} \\
&\quad + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{37} + x^{36} + x^{34} + x^{30} + x^{29} + x^{27} \\
&\quad + x^{24} + x^{23} + x^{22} + x^{18}, \\
p_3(x) &= x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{110} + x^{108} + x^{107} + x^{103} + x^{102} \\
&\quad + x^{99} + x^{98} + x^{97} + x^{96} + x^{93} + x^{89} + x^{77} + x^{76} + x^{74} + x^{72} + x^{71} \\
&\quad + x^{70} + x^{69} + x^{67} + x^{66} + x^{64} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} \\
&\quad + x^{53} + x^{51} + x^{50} + x^{48} + x^{45} + x^{41} + x^{37} + x^{36} + x^{34} + x^{32} + x^{31} \\
&\quad + x^{30} + x^{28} + x^{27} + x^{23} + x^{22} + x^{19} + x^{18} + x^{17} + x^{16} + x^{13} + x^9, \\
p_6(x) &= x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} \\
&\quad + x^{90} + x^{88} + x^{86} + x^{82} + x^{80} + x^{76} + x^{68} + x^{64} + x^{62} + x^{60} + x^{58} \\
&\quad + x^{56} + x^{52} + x^{50} + x^{46} + x^{44} + x^{40} + x^{34} + x^{26} + x^{22} + x^{20} + x^{18} \\
&\quad + x^{10} + x^6, \\
p_9(x) &= x^{119} + x^{118} + x^{117} + x^{112} + x^{109} + x^{108} + x^{107} + x^{106} + x^{103} + x^{99}
\end{aligned}$$

$$\begin{aligned}
& + x^{87} + x^{86} + x^{85} + x^{80} + x^{77} + x^{76} + x^{75} + x^{74} + x^{70} + x^{69} + x^{67} \\
& + x^{64} + x^{61} + x^{60} + x^{59} + x^{58} + x^{55} + x^{51} + x^{39} + x^{38} + x^{37} + x^{32} \\
& + x^{29} + x^{28} + x^{27} + x^{26} + x^{22} + x^{21} + x^{19} + x^{16} + x^{13} + x^{12} + x^{11} \\
& + x^{10} + x^7 + x^3, \\
p_{12}(x) = & x^{120} + x^{112} + x^{108} + x^{100} + x^{96} + x^{88} + x^{80} + x^{76} + x^{72} + x^{68} + x^{60} \\
& + x^{52} + x^{48} + x^{40} + x^{32} + x^{28} + x^{24} + x^{20} + x^{12} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{132} + x^{130} + x^{128} + x^{127} + x^{125} \\
& + x^{124} + x^{122} + x^{118} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} \\
& + x^{109} + x^{108} + x^{107} + x^{102} + x^{100} + x^{94} + x^{93} + x^{90} + x^{88} + x^{87} \\
& + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{76} + x^{73} + x^{69} + x^{68} + x^{67} \\
& + x^{66} + x^{65} + x^{64} + x^{62} + x^{57} + x^{52} + x^{50} + x^{49} + x^{48} + x^{46} + x^{45} \\
& + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{27} + x^{26} \\
& + x^{24}, \\
p_3(x) = & x^{137} + x^{136} + x^{134} + x^{132} + x^{131} + x^{130} + x^{129} + x^{127} + x^{126} + x^{124} \\
& + x^{120} + x^{118} + x^{115} + x^{113} + x^{112} + x^{107} + x^{105} + x^{103} + x^{102} \\
& + x^{101} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} \\
& + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{75} + x^{73} + x^{70} + x^{64} + x^{63} \\
& + x^{62} + x^{61} + x^{58} + x^{57} + x^{55} + x^{52} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} \\
& + x^{44} + x^{41} + x^{40} + x^{38} + x^{35} + x^{33} + x^{32} + x^{27} + x^{25} + x^{23} + x^{22} \\
& + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{13} + x^9, \\
p_6(x) = & x^{138} + x^{136} + x^{134} + x^{126} + x^{122} + x^{110} + x^{108} + x^{104} + x^{100} + x^{90} \\
& + x^{88} + x^{86} + x^{84} + x^{80} + x^{78} + x^{76} + x^{74} + x^{66} + x^{64} + x^{54} + x^{50} \\
& + x^{46} + x^{44} + x^{42} + x^{32} + x^{20} + x^{10} + x^6, \\
p_9(x) = & x^{139} + x^{138} + x^{137} + x^{132} + x^{131} + x^{130} + x^{128} + x^{127} + x^{126} + x^{124} \\
& + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{112} + x^{111} + x^{109} \\
& + x^{108} + x^{105} + x^{103} + x^{100} + x^{98} + x^{96} + x^{95} + x^{94} + x^{92} + x^{90} \\
& + x^{88} + x^{87} + x^{85} + x^{84} + x^{82} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{69} \\
& + x^{64} + x^{63} + x^{61} + x^{60} + x^{57} + x^{55} + x^{52} + x^{50} + x^{48} + x^{47} + x^{46} \\
& + x^{44} + x^{42} + x^{40} + x^{39} + x^{37} + x^{36} + x^{34} + x^{30} + x^{29} + x^{26} + x^{25} \\
& + x^{24} + x^{21} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^7 + x^3, \\
p_{12}(x) = & x^{140} + x^{128} + x^{124} + x^{120} + x^{116} + x^{108} + x^{100} + x^{88} + x^{84} + x^{80} \\
& + x^{76} + x^{72} + x^{64} + x^{60} + x^{52} + x^{40} + x^{36} + x^{32} + x^{28} + x^{24} + x^{16} \\
& + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{121} + x^{120} + x^{119} + x^{114} + x^{113} + x^{112} + x^{108} + x^{106} + x^{105} \\ & + x^{104} + x^{103} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} + x^{88} \\ & + x^{84} + x^{83} + x^{81} + x^{80} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{67} + x^{60} \\ & + x^{58} + x^{55} + x^{54} + x^{53} + x^{52} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} \\ & + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{30}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{125} + x^{124} + x^{123} + x^{121} + x^{120} + x^{118} + x^{117} + x^{116} + x^{113} + x^{112} \\ & + x^{110} + x^{109} + x^{107} + x^{105} + x^{103} + x^{101} + x^{99} + x^{98} + x^{97} + x^{96} \\ & + x^{95} + x^{93} + x^{90} + x^{89} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} \\ & + x^{72} + x^{70} + x^{67} + x^{66} + x^{65} + x^{63} + x^{61} + x^{58} + x^{57} + x^{54} + x^{51} \\ & + x^{49} + x^{48} + x^{47} + x^{45} + x^{44} + x^{43} + x^{42} + x^{36} + x^{29} + x^{27} + x^{23} \\ & + x^{21} + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{12}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{125} + x^{124} + x^{123} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{107} \\ & + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\ & + x^{95} + x^{92} + x^{89} + x^{85} + x^{82} + x^{81} + x^{80} + x^{78} + x^{70} + x^{68} + x^{67} \\ & + x^{65} + x^{64} + x^{63} + x^{61} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{52} + x^{49} \\ & + x^{48} + x^{47} + x^{46} + x^{36} + x^{35} + x^{28} + x^{26} + x^{24} + x^{23} + x^{19} + x^{17} \\ & + x^{15} + x^{14} + x^{13} + x^{11} + x^{10} + x^8 + x^5 + x^3 + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{125} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{105} \\ & + x^{103} + x^{100} + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{80} \\ & + x^{77} + x^{75} + x^{72} + x^{69} + x^{67} + x^{64} + x^{57} + x^{55} + x^{52} + x^{45} + x^{43} \\ & + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{32} + x^{29} + x^{27} + x^{24} + x^{21} \\ & + x^{19} + x^{16} + x^9 + x^7 + x^4, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{125} + x^{123} + x^{120} + x^{117} + x^{115} + x^{113} + x^{112} + x^{111} + x^{108} + x^{105} \\ & + x^{103} + x^{101} + x^{100} + x^{99} + x^{96} + x^{93} + x^{91} + x^{88} + x^{85} + x^{83} + x^{81} \\ & + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{68} + x^{65} + x^{63} \\ & + x^{60} + x^{57} + x^{55} + x^{53} + x^{52} + x^{51} + x^{48} + x^{45} + x^{43} + x^{40} + x^{37} \\ & + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{20} \\ & + x^{17} + x^{15} + x^{12} + x^9 + x^7 + x^5 + x^4 + x^3 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{125} + x^{124} + x^{120} + x^{115} + x^{112} + x^{108} + x^{104} + x^{103} + x^{101} \\ & + x^{100} + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{89} + x^{88} + x^{86} + x^{82} + x^{81} \\ & + x^{80} + x^{77} + x^{76} + x^{75} + x^{71} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{60} \end{aligned}$$

$$\begin{aligned}
& + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} \\
& + x^{45} + x^{44} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} + x^{31} + x^{30} + x^{29} + x^{16} \\
& + x^{15} + x^{14} + x^{12}, \\
p_3(x) &= x^{125} + x^{124} + x^{120} + x^{116} + x^{115} + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} \\
& + x^{105} + x^{104} + x^{102} + x^{100} + x^{98} + x^{97} + x^{93} + x^{91} + x^{89} + x^{88} \\
& + x^{82} + x^{80} + x^{75} + x^{69} + x^{68} + x^{62} + x^{59} + x^{57} + x^{53} + x^{52} + x^{51} \\
& + x^{50} + x^{49} + x^{48} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} \\
& + x^{35} + x^{33} + x^{32} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{22} + x^{17} + x^{16} \\
& + x^{14} + x^{12} + x^{11} + x^{10} + x^8, \\
p_6(x) &= x^{125} + x^{124} + x^{119} + x^{117} + x^{115} + x^{112} + x^{110} + x^{109} + x^{105} + x^{102} \\
& + x^{100} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{83} \\
& + x^{79} + x^{78} + x^{76} + x^{70} + x^{69} + x^{68} + x^{67} + x^{62} + x^{61} + x^{58} + x^{54} \\
& + x^{51} + x^{50} + x^{48} + x^{47} + x^{41} + x^{34} + x^{33} + x^{32} + x^{29} + x^{27} + x^{24} \\
& + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} \\
& + x^7 + x^6 + x^5 + x^4 + x^3 + 1, \\
p_9(x) &= x^{125} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{105} \\
& + x^{103} + x^{100} + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{80} \\
& + x^{77} + x^{75} + x^{72} + x^{69} + x^{67} + x^{64} + x^{57} + x^{55} + x^{52} + x^{45} + x^{43} \\
& + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{32} + x^{29} + x^{27} + x^{24} + x^{21} \\
& + x^{19} + x^{16} + x^9 + x^7 + x^4, \\
p_{12}(x) &= x^{125} + x^{123} + x^{120} + x^{117} + x^{115} + x^{113} + x^{112} + x^{111} + x^{108} + x^{105} \\
& + x^{103} + x^{101} + x^{100} + x^{99} + x^{96} + x^{93} + x^{91} + x^{88} + x^{85} + x^{83} + x^{81} \\
& + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{68} + x^{65} + x^{63} \\
& + x^{60} + x^{57} + x^{55} + x^{53} + x^{52} + x^{51} + x^{48} + x^{45} + x^{43} + x^{40} + x^{37} \\
& + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{20} \\
& + x^{17} + x^{15} + x^{12} + x^9 + x^7 + x^5 + x^4 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{132} + x^{130} + x^{128} + x^{127} + x^{125} \\
& + x^{124} + x^{122} + x^{118} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} \\
& + x^{109} + x^{108} + x^{107} + x^{102} + x^{100} + x^{94} + x^{93} + x^{90} + x^{88} + x^{87} \\
& + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{76} + x^{73} + x^{69} + x^{68} + x^{67} \\
& + x^{66} + x^{65} + x^{64} + x^{62} + x^{57} + x^{52} + x^{50} + x^{49} + x^{48} + x^{46} + x^{45} \\
& + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{27} + x^{26} \\
& + x^{24},
\end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{137} + x^{136} + x^{134} + x^{132} + x^{131} + x^{130} + x^{129} + x^{127} + x^{126} + x^{124} \\
&\quad + x^{120} + x^{118} + x^{115} + x^{113} + x^{112} + x^{107} + x^{105} + x^{103} + x^{102} \\
&\quad + x^{101} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} \\
&\quad + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{75} + x^{73} + x^{70} + x^{64} + x^{63} \\
&\quad + x^{62} + x^{61} + x^{58} + x^{57} + x^{55} + x^{52} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} \\
&\quad + x^{44} + x^{41} + x^{40} + x^{38} + x^{35} + x^{33} + x^{32} + x^{27} + x^{25} + x^{23} + x^{22} \\
&\quad + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{13} + x^9, \\
p_6(x) &= x^{138} + x^{136} + x^{134} + x^{126} + x^{122} + x^{110} + x^{108} + x^{104} + x^{100} + x^{90} \\
&\quad + x^{88} + x^{86} + x^{84} + x^{80} + x^{78} + x^{76} + x^{74} + x^{66} + x^{64} + x^{54} + x^{50} \\
&\quad + x^{46} + x^{44} + x^{42} + x^{32} + x^{20} + x^{10} + x^6, \\
p_9(x) &= x^{139} + x^{138} + x^{137} + x^{132} + x^{131} + x^{130} + x^{128} + x^{127} + x^{126} + x^{124} \\
&\quad + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{112} + x^{111} + x^{109} \\
&\quad + x^{108} + x^{105} + x^{103} + x^{100} + x^{98} + x^{96} + x^{95} + x^{94} + x^{92} + x^{90} \\
&\quad + x^{88} + x^{87} + x^{85} + x^{84} + x^{82} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{69} \\
&\quad + x^{64} + x^{63} + x^{61} + x^{60} + x^{57} + x^{55} + x^{52} + x^{50} + x^{48} + x^{47} + x^{46} \\
&\quad + x^{44} + x^{42} + x^{40} + x^{39} + x^{37} + x^{36} + x^{34} + x^{30} + x^{29} + x^{26} + x^{25} \\
&\quad + x^{24} + x^{21} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^7 + x^3, \\
p_{12}(x) &= x^{140} + x^{128} + x^{124} + x^{120} + x^{116} + x^{108} + x^{100} + x^{88} + x^{84} + x^{80} \\
&\quad + x^{76} + x^{72} + x^{64} + x^{60} + x^{52} + x^{40} + x^{36} + x^{32} + x^{28} + x^{24} + x^{16} \\
&\quad + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{109} \\
&\quad + x^{107} + x^{105} + x^{102} + x^{101} + x^{97} + x^{94} + x^{92} + x^{88} + x^{87} + x^{86} \\
&\quad + x^{84} + x^{82} + x^{81} + x^{78} + x^{77} + x^{76} + x^{73} + x^{71} + x^{69} + x^{66} + x^{65} \\
&\quad + x^{63} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{53} + x^{52} + x^{48} + x^{47} + x^{46} \\
&\quad + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{37} + x^{36} + x^{34} + x^{30} + x^{29} + x^{27} \\
&\quad + x^{24} + x^{23} + x^{22} + x^{18}, \\
p_3(x) &= x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{110} + x^{108} + x^{107} + x^{103} + x^{102} \\
&\quad + x^{99} + x^{98} + x^{97} + x^{96} + x^{93} + x^{89} + x^{77} + x^{76} + x^{74} + x^{72} + x^{71} \\
&\quad + x^{70} + x^{69} + x^{67} + x^{66} + x^{64} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} \\
&\quad + x^{53} + x^{51} + x^{50} + x^{48} + x^{45} + x^{41} + x^{37} + x^{36} + x^{34} + x^{32} + x^{31} \\
&\quad + x^{30} + x^{28} + x^{27} + x^{23} + x^{22} + x^{19} + x^{18} + x^{17} + x^{16} + x^{13} + x^9, \\
p_6(x) &= x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} \\
&\quad + x^{90} + x^{88} + x^{86} + x^{82} + x^{80} + x^{76} + x^{68} + x^{64} + x^{62} + x^{60} + x^{58}
\end{aligned}$$

$$\begin{aligned}
& + x^{56} + x^{52} + x^{50} + x^{46} + x^{44} + x^{40} + x^{34} + x^{26} + x^{22} + x^{20} + x^{18} \\
& + x^{10} + x^6, \\
p_9(x) = & x^{119} + x^{118} + x^{117} + x^{112} + x^{109} + x^{108} + x^{107} + x^{106} + x^{103} + x^{99} \\
& + x^{87} + x^{86} + x^{85} + x^{80} + x^{77} + x^{76} + x^{75} + x^{74} + x^{70} + x^{69} + x^{67} \\
& + x^{64} + x^{61} + x^{60} + x^{59} + x^{58} + x^{55} + x^{51} + x^{39} + x^{38} + x^{37} + x^{32} \\
& + x^{29} + x^{28} + x^{27} + x^{26} + x^{22} + x^{21} + x^{19} + x^{16} + x^{13} + x^{12} + x^{11} \\
& + x^{10} + x^7 + x^3, \\
p_{12}(x) = & x^{120} + x^{112} + x^{108} + x^{100} + x^{96} + x^{88} + x^{80} + x^{76} + x^{72} + x^{68} + x^{60} \\
& + x^{52} + x^{48} + x^{40} + x^{32} + x^{28} + x^{24} + x^{20} + x^{12} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{121} + x^{120} + x^{119} + x^{114} + x^{113} + x^{112} + x^{108} + x^{106} + x^{105} \\
& + x^{104} + x^{103} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} + x^{88} \\
& + x^{84} + x^{83} + x^{81} + x^{80} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{67} + x^{60} \\
& + x^{58} + x^{55} + x^{54} + x^{53} + x^{52} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} \\
& + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{30}, \\
p_3(x) = & x^{125} + x^{124} + x^{123} + x^{121} + x^{120} + x^{118} + x^{117} + x^{116} + x^{113} + x^{112} \\
& + x^{110} + x^{109} + x^{107} + x^{105} + x^{103} + x^{101} + x^{99} + x^{98} + x^{97} + x^{96} \\
& + x^{95} + x^{93} + x^{90} + x^{89} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} \\
& + x^{72} + x^{70} + x^{67} + x^{66} + x^{65} + x^{63} + x^{61} + x^{58} + x^{57} + x^{54} + x^{51} \\
& + x^{49} + x^{48} + x^{47} + x^{45} + x^{44} + x^{43} + x^{42} + x^{36} + x^{29} + x^{27} + x^{23} \\
& + x^{21} + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{12}, \\
p_6(x) = & x^{125} + x^{124} + x^{123} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{107} \\
& + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\
& + x^{95} + x^{92} + x^{89} + x^{85} + x^{82} + x^{81} + x^{80} + x^{78} + x^{70} + x^{68} + x^{67} \\
& + x^{65} + x^{64} + x^{63} + x^{61} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{52} + x^{49} \\
& + x^{48} + x^{47} + x^{46} + x^{36} + x^{35} + x^{28} + x^{26} + x^{24} + x^{23} + x^{19} + x^{17} \\
& + x^{15} + x^{14} + x^{13} + x^{11} + x^{10} + x^8 + x^5 + x^3 + 1, \\
p_9(x) = & x^{125} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{105} \\
& + x^{103} + x^{100} + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{80} \\
& + x^{77} + x^{75} + x^{72} + x^{69} + x^{67} + x^{64} + x^{57} + x^{55} + x^{52} + x^{45} + x^{43} \\
& + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{32} + x^{29} + x^{27} + x^{24} + x^{21} \\
& + x^{19} + x^{16} + x^9 + x^7 + x^4, \\
p_{12}(x) = & x^{125} + x^{123} + x^{120} + x^{117} + x^{115} + x^{113} + x^{112} + x^{111} + x^{108} + x^{105} \\
& + x^{103} + x^{101} + x^{100} + x^{99} + x^{96} + x^{93} + x^{91} + x^{88} + x^{85} + x^{83} + x^{81}
\end{aligned}$$

$$\begin{aligned}
& + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{68} + x^{65} + x^{63} \\
& + x^{60} + x^{57} + x^{55} + x^{53} + x^{52} + x^{51} + x^{48} + x^{45} + x^{43} + x^{40} + x^{37} \\
& + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{20} \\
& + x^{17} + x^{15} + x^{12} + x^9 + x^7 + x^5 + x^4 + x^3 + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2048	[3260, 3261]	4096	[5362, 3184]	6144	[6972, 4521]
1	[3, 4]	2049	[3262, 3263]	4097	[5363, 5364]	6145	[6973, 6929]
2	[5, 6]	2050	[3264, 3087]	4098	[5365, 3103]	6146	[6974, 5245]
3	[7, 8]	2051	[3265, 1397]	4099	[5366, 2935]	6147	[4139, 4335]
4	[9, 10]	2052	[3266, 3267]	4100	[5367, 1512]	6148	[4501, 6677]
5	[11, 12]	2053	[3268, 3269]	4101	[5368, 5369]	6149	[6975, 2281]
6	[13, 14]	2054	[3270, 3271]	4102	[5370, 306]	6150	[6976, 6977]
7	[15, 16]	2055	[3272, 3273]	4103	[5371, 1396]	6151	[6978, 4130]
8	[17, 18]	2056	[3274, 3275]	4104	[3796, 1554]	6152	[2201, 6915]
9	[19, 20]	2057	[3276, 3277]	4105	[5372, 2908]	6153	[2452, 2229]
10	[21, 22]	2058	[1537, 3278]	4106	[5373, 2793]	6154	[6979, 4850]
11	[23, 24]	2059	[340, 3279]	4107	[5374, 5375]	6155	[6980, 2403]
12	[25, 26]	2060	[3280, 3281]	4108	[5376, 5377]	6156	[6981, 1790]
13	[27, 28]	2061	[3282, 3283]	4109	[5378, 399]	6157	[6982, 183]
14	[29, 30]	2062	[3284, 3285]	4110	[5379, 2893]	6158	[6983, 4867]
15	[31, 32]	2063	[3286, 2710]	4111	[5380, 5381]	6159	[6984, 6334]
16	[33, 34]	2064	[3287, 3205]	4112	[5382, 3744]	6160	[4434, 2363]
17	[35, 36]	2065	[3288, 3289]	4113	[5383, 974]	6161	[6481, 6883]
18	[37, 38]	2066	[3100, 3290]	4114	[5384, 1037]	6162	[6985, 6986]
19	[39, 40]	2067	[3291, 1331]	4115	[5385, 5386]	6163	[6987, 1991]
20	[41, 42]	2068	[1409, 3292]	4116	[5387, 1050]	6164	[6988, 5205]
21	[43, 44]	2069	[3293, 3294]	4117	[3247, 3139]	6165	[6989, 6622]
22	[45, 46]	2070	[3295, 3296]	4118	[5388, 3019]	6166	[6990, 6572]
23	[47, 48]	2071	[1358, 3297]	4119	[5389, 5390]	6167	[6991, 6556]
24	[49, 50]	2072	[3298, 3170]	4120	[2718, 5391]	6168	[2312, 243]
25	[51, 52]	2073	[1057, 3299]	4121	[270, 1110]	6169	[6992, 2212]
26	[53, 54]	2074	[3300, 3301]	4122	[5392, 2724]	6170	[130, 6955]
27	[55, 56]	2075	[3302, 2732]	4123	[5393, 5394]	6171	[6993, 4744]
28	[57, 58]	2076	[3303, 3304]	4124	[1447, 3977]	6172	[6994, 2580]
29	[59, 60]	2077	[3305, 2928]	4125	[5395, 3088]	6173	[6995, 2636]
30	[61, 62]	2078	[3306, 286]	4126	[5396, 1544]	6174	[2259, 2280]
31	[63, 64]	2079	[3140, 3307]	4127	[5397, 2700]	6175	[6996, 1668]
32	[65, 66]	2080	[3308, 2947]	4128	[3530, 1466]	6176	[4085, 2279]
33	[67, 68]	2081	[3309, 3243]	4129	[1154, 1489]	6177	[6997, 2397]

34	[69, 70]	2082	[268, 3310]	4130	[5398, 3390]	6178	[6998, 6873]
35	[71, 72]	2083	[3311, 3312]	4131	[3139, 3246]	6179	[5105, 4058]
36	[73, 74]	2084	[1061, 3313]	4132	[66, 2853]	6180	[6999, 4115]
37	[75, 76]	2085	[3314, 1244]	4133	[3277, 1629]	6181	[7000, 6953]
38	[77, 78]	2086	[1293, 3315]	4134	[5399, 5400]	6182	[7001, 5066]
39	[79, 80]	2087	[1642, 3316]	4135	[3037, 1104]	6183	[4770, 740]
40	[81, 82]	2088	[3317, 1330]	4136	[5401, 5402]	6184	[7002, 4820]
41	[83, 84]	2089	[1194, 3318]	4137	[5403, 3606]	6185	[669, 4910]
42	[85, 86]	2090	[3319, 3320]	4138	[5404, 2735]	6186	[42, 31]
43	[87, 88]	2091	[3158, 3321]	4139	[2781, 3811]	6187	[5097, 4297]
44	[89, 90]	2092	[3322, 1083]	4140	[5405, 5406]	6188	[4611, 6671]
45	[91, 92]	2093	[3323, 1582]	4141	[972, 5407]	6189	[4804, 4945]
46	[93, 94]	2094	[1266, 3324]	4142	[5408, 5409]	6190	[7003, 2528]
47	[95, 96]	2095	[3325, 3326]	4143	[5410, 5411]	6191	[4240, 5025]
48	[97, 98]	2096	[3327, 3328]	4144	[5412, 1170]	6192	[4138, 4099]
49	[99, 100]	2097	[3329, 1202]	4145	[5413, 5414]	6193	[7004, 6374]
50	[101, 102]	2098	[3330, 3331]	4146	[5415, 5416]	6194	[7005, 1747]
51	[103, 104]	2099	[428, 3332]	4147	[448, 3047]	6195	[7006, 5040]
52	[105, 106]	2100	[459, 2899]	4148	[5417, 5418]	6196	[4359, 2609]
53	[107, 108]	2101	[3333, 2812]	4149	[3888, 1338]	6197	[7007, 6394]
54	[109, 110]	2102	[3334, 2814]	4150	[5419, 1042]	6198	[6516, 4538]
55	[111, 112]	2103	[3335, 3336]	4151	[344, 5420]	6199	[7008, 5023]
56	[113, 114]	2104	[3337, 3014]	4152	[92, 3810]	6200	[7009, 4418]
57	[115, 116]	2105	[3338, 3339]	4153	[2760, 5421]	6201	[4735, 549]
58	[117, 118]	2106	[3340, 3341]	4154	[5422, 1309]	6202	[2461, 6778]
59	[119, 120]	2107	[3342, 3217]	4155	[5423, 2992]	6203	[7010, 5066]
60	[121, 122]	2108	[1552, 3124]	4156	[3663, 5424]	6204	[4306, 5062]
61	[123, 124]	2109	[3343, 3232]	4157	[5425, 5426]	6205	[7011, 5041]
62	[125, 126]	2110	[3344, 2766]	4158	[5427, 1555]	6206	[7012, 197]
63	[127, 128]	2111	[3345, 485]	4159	[5428, 2701]	6207	[7013, 4906]
64	[129, 130]	2112	[3346, 3347]	4160	[5429, 3014]	6208	[1798, 2414]
65	[131, 132]	2113	[2754, 3348]	4161	[5430, 5431]	6209	[7014, 4814]
66	[133, 134]	2114	[3349, 3350]	4162	[5432, 3582]	6210	[4697, 777]
67	[135, 136]	2115	[3351, 1217]	4163	[5433, 927]	6211	[4521, 6506]
68	[137, 138]	2116	[3352, 381]	4164	[5434, 2918]	6212	[7015, 4346]
69	[139, 140]	2117	[1282, 3353]	4165	[5435, 5436]	6213	[7016, 4071]
70	[141, 142]	2118	[3354, 3355]	4166	[5437, 5438]	6214	[7017, 4434]
71	[143, 144]	2119	[2988, 87]	4167	[5439, 84]	6215	[7018, 4488]
72	[145, 146]	2120	[3356, 1000]	4168	[5440, 1047]	6216	[7019, 6671]
73	[147, 148]	2121	[1190, 3357]	4169	[3753, 5416]	6217	[7020, 5143]
74	[149, 150]	2122	[2921, 3358]	4170	[3263, 1521]	6218	[1724, 7021]
75	[151, 152]	2123	[3359, 962]	4171	[5441, 87]	6219	[2483, 569]
76	[153, 154]	2124	[3360, 2747]	4172	[5442, 3474]	6220	[221, 6662]
77	[155, 156]	2125	[467, 3361]	4173	[5443, 1579]	6221	[7022, 531]

78	[157, 158]	2126	[3362, 1212]	4174	[5444, 3361]	6222	[7023, 2258]
79	[159, 160]	2127	[3363, 3364]	4175	[5445, 2797]	6223	[7024, 4447]
80	[128, 161]	2128	[3365, 1091]	4176	[480, 2717]	6224	[6977, 4237]
81	[162, 163]	2129	[2897, 1355]	4177	[5446, 3490]	6225	[5186, 5099]
82	[164, 165]	2130	[3366, 3367]	4178	[5447, 1557]	6226	[7025, 4385]
83	[166, 167]	2131	[2925, 329]	4179	[1272, 1029]	6227	[4340, 2188]
84	[168, 169]	2132	[3368, 3369]	4180	[2828, 3088]	6228	[2082, 6926]
85	[170, 171]	2133	[3370, 3371]	4181	[5448, 322]	6229	[7026, 4446]
86	[172, 173]	2134	[3372, 1320]	4182	[5449, 5355]	6230	[7027, 6489]
87	[174, 175]	2135	[3373, 967]	4183	[5450, 1295]	6231	[2168, 51]
88	[176, 177]	2136	[3374, 926]	4184	[5451, 3247]	6232	[7028, 4605]
89	[178, 179]	2137	[1311, 3375]	4185	[3989, 5452]	6233	[7029, 652]
90	[180, 181]	2138	[3376, 289]	4186	[1475, 422]	6234	[7030, 2402]
91	[182, 183]	2139	[3156, 3377]	4187	[5453, 5454]	6235	[7031, 4225]
92	[184, 185]	2140	[3378, 3379]	4188	[5455, 3612]	6236	[158, 6637]
93	[186, 187]	2141	[3380, 3381]	4189	[440, 1469]	6237	[7032, 5244]
94	[188, 189]	2142	[3082, 3382]	4190	[3017, 1201]	6238	[7033, 6644]
95	[190, 191]	2143	[3383, 3066]	4191	[5456, 3242]	6239	[7034, 7033]
96	[192, 193]	2144	[3384, 1193]	4192	[5457, 5458]	6240	[7035, 7036]
97	[194, 195]	2145	[3126, 116]	4193	[5459, 5460]	6241	[4844, 207]
98	[196, 197]	2146	[1379, 3128]	4194	[5461, 3452]	6242	[7037, 4976]
99	[198, 199]	2147	[1192, 1550]	4195	[5462, 327]	6243	[2124, 2258]
100	[200, 201]	2148	[3385, 1412]	4196	[5463, 5464]	6244	[7038, 2190]
101	[202, 203]	2149	[288, 3386]	4197	[5465, 5466]	6245	[4524, 7039]
102	[204, 205]	2150	[3387, 3388]	4198	[5467, 3756]	6246	[7040, 2243]
103	[206, 207]	2151	[3389, 1428]	4199	[5468, 995]	6247	[7041, 530]
104	[208, 209]	2152	[3390, 1463]	4200	[5469, 3254]	6248	[1664, 1801]
105	[210, 211]	2153	[3391, 1601]	4201	[5470, 3896]	6249	[4810, 4252]
106	[212, 213]	2154	[3392, 3393]	4202	[2913, 3678]	6250	[2369, 4222]
107	[214, 215]	2155	[3394, 3308]	4203	[2872, 3731]	6251	[7042, 31]
108	[216, 217]	2156	[3395, 3396]	4204	[5471, 3752]	6252	[7043, 693]
109	[218, 219]	2157	[3397, 1072]	4205	[5472, 1371]	6253	[2500, 4659]
110	[220, 221]	2158	[3398, 3180]	4206	[5473, 3815]	6254	[7044, 5258]
111	[222, 223]	2159	[3399, 3400]	4207	[5474, 5475]	6255	[7045, 141]
112	[224, 225]	2160	[3401, 3402]	4208	[277, 5476]	6256	[7046, 5167]
113	[62, 226]	2161	[3403, 1614]	4209	[5477, 3936]	6257	[7047, 6399]
114	[227, 228]	2162	[3404, 3405]	4210	[1431, 3368]	6258	[7048, 7049]
115	[229, 230]	2163	[3103, 1074]	4211	[5478, 5479]	6259	[801, 6682]
116	[231, 232]	2164	[3406, 3407]	4212	[3041, 477]	6260	[7050, 1838]
117	[233, 234]	2165	[3408, 3409]	4213	[5480, 5481]	6261	[1744, 2459]
118	[235, 236]	2166	[3410, 425]	4214	[354, 5482]	6262	[2149, 6342]
119	[237, 238]	2167	[2874, 3411]	4215	[5483, 1163]	6263	[7051, 7052]
120	[239, 240]	2168	[3412, 3413]	4216	[2893, 3959]	6264	[7053, 4076]
121	[241, 242]	2169	[3414, 1590]	4217	[30, 1166]	6265	[7054, 2509]

122	[243, 244]	2170	[3415, 3416]	4218	[5484, 5420]	6266	[6479, 6580]
123	[245, 246]	2171	[3417, 3418]	4219	[1647, 2936]	6267	[1830, 2033]
124	[247, 248]	2172	[3419, 312]	4220	[3606, 5485]	6268	[4575, 1818]
125	[249, 250]	2173	[3420, 3421]	4221	[2816, 1329]	6269	[7055, 6705]
126	[251, 252]	2174	[3422, 3384]	4222	[5486, 3801]	6270	[7056, 4345]
127	[253, 254]	2175	[3423, 3416]	4223	[5487, 5351]	6271	[7057, 2527]
128	[255, 256]	2176	[3424, 3425]	4224	[2956, 3445]	6272	[7058, 2103]
129	[257, 258]	2177	[3426, 3427]	4225	[5488, 5322]	6273	[7059, 5239]
130	[259, 260]	2178	[3428, 1194]	4226	[5481, 971]	6274	[7060, 1873]
131	[261, 21]	2179	[3429, 3357]	4227	[5489, 3241]	6275	[7061, 7062]
132	[262, 263]	2180	[3430, 3431]	4228	[5490, 1427]	6276	[7063, 7064]
133	[264, 265]	2181	[1490, 3432]	4229	[301, 27]	6277	[7065, 1720]
134	[18, 266]	2182	[3433, 3434]	4230	[5491, 5369]	6278	[562, 6383]
135	[267, 268]	2183	[949, 106]	4231	[5492, 5493]	6279	[7066, 5217]
136	[269, 270]	2184	[3435, 2950]	4232	[5494, 1474]	6280	[7067, 5068]
137	[271, 272]	2185	[378, 1579]	4233	[5495, 3382]	6281	[7068, 2434]
138	[273, 76]	2186	[3436, 3437]	4234	[5496, 3653]	6282	[7069, 7070]
139	[274, 275]	2187	[2736, 3438]	4235	[5497, 3581]	6283	[4920, 6975]
140	[276, 277]	2188	[3439, 3440]	4236	[5498, 3759]	6284	[4495, 4529]
141	[78, 278]	2189	[3441, 3442]	4237	[5499, 3484]	6285	[7071, 1948]
142	[279, 280]	2190	[3443, 265]	4238	[5500, 1511]	6286	[4007, 2658]
143	[281, 282]	2191	[3444, 3445]	4239	[5501, 3894]	6287	[7072, 1827]
144	[283, 284]	2192	[1127, 3446]	4240	[5502, 3607]	6288	[7073, 7074]
145	[285, 286]	2193	[3447, 3448]	4241	[5503, 3264]	6289	[4111, 6572]
146	[287, 288]	2194	[3449, 3450]	4242	[5504, 311]	6290	[7075, 1877]
147	[289, 290]	2195	[3451, 2765]	4243	[5505, 987]	6291	[1691, 4344]
148	[291, 292]	2196	[3452, 3453]	4244	[5506, 2731]	6292	[5226, 4591]
149	[293, 294]	2197	[3454, 3455]	4245	[5507, 5382]	6293	[7076, 4414]
150	[295, 96]	2198	[1340, 3456]	4246	[5508, 1044]	6294	[7077, 4963]
151	[296, 297]	2199	[3457, 2861]	4247	[3556, 3190]	6295	[4345, 909]
152	[298, 299]	2200	[1483, 1448]	4248	[5317, 3958]	6296	[230, 6960]
153	[300, 301]	2201	[319, 488]	4249	[5509, 321]	6297	[7078, 1929]
154	[302, 303]	2202	[3458, 1069]	4250	[5510, 2736]	6298	[6767, 6528]
155	[304, 305]	2203	[3459, 2848]	4251	[3289, 2915]	6299	[7079, 4835]
156	[306, 307]	2204	[1516, 3460]	4252	[5511, 5512]	6300	[5218, 6919]
157	[308, 309]	2205	[3461, 1496]	4253	[1003, 465]	6301	[6366, 848]
158	[310, 311]	2206	[3462, 2900]	4254	[3097, 2972]	6302	[7080, 2657]
159	[312, 313]	2207	[3463, 415]	4255	[2731, 3121]	6303	[1819, 2588]
160	[314, 315]	2208	[3464, 364]	4256	[5513, 2833]	6304	[2213, 5175]
161	[254, 316]	2209	[3465, 1018]	4257	[5514, 5321]	6305	[7081, 5219]
162	[317, 290]	2210	[3466, 3467]	4258	[5515, 1365]	6306	[7082, 5022]
163	[318, 319]	2211	[3468, 3469]	4259	[3590, 3218]	6307	[7083, 2322]
164	[320, 321]	2212	[3470, 3280]	4260	[5516, 5517]	6308	[7084, 4970]
165	[322, 323]	2213	[3471, 3472]	4261	[5354, 5518]	6309	[7085, 4538]

166	[324, 325]	2214	[3473, 3474]	4262	[5519, 2949]	6310	[7086, 606]
167	[326, 327]	2215	[3475, 3476]	4263	[5520, 2709]	6311	[4196, 887]
168	[328, 329]	2216	[2708, 3477]	4264	[3050, 1636]	6312	[2439, 6502]
169	[330, 331]	2217	[943, 3478]	4265	[3931, 2840]	6313	[7087, 6380]
170	[329, 332]	2218	[3479, 3480]	4266	[1510, 3131]	6314	[6684, 6887]
171	[333, 334]	2219	[3481, 3482]	4267	[5521, 1307]	6315	[7088, 1860]
172	[335, 336]	2220	[3483, 3484]	4268	[5522, 1387]	6316	[7089, 5238]
173	[337, 338]	2221	[3485, 2922]	4269	[5523, 3633]	6317	[4399, 2296]
174	[339, 340]	2222	[3486, 3293]	4270	[3872, 5524]	6318	[7090, 2457]
175	[341, 342]	2223	[3487, 3488]	4271	[2822, 5525]	6319	[7091, 4753]
176	[343, 344]	2224	[2715, 3489]	4272	[1170, 5526]	6320	[841, 674]
177	[345, 346]	2225	[3490, 3491]	4273	[5527, 1007]	6321	[7092, 6621]
178	[347, 348]	2226	[3492, 3493]	4274	[5528, 3489]	6322	[2653, 7093]
179	[349, 350]	2227	[1495, 2964]	4275	[5529, 1274]	6323	[7094, 6729]
180	[351, 352]	2228	[1035, 1532]	4276	[3448, 2867]	6324	[398, 3587]
181	[353, 354]	2229	[3494, 1074]	4277	[5530, 3702]	6325	[7095, 2795]
182	[355, 356]	2230	[1235, 3495]	4278	[5531, 5532]	6326	[7096, 5532]
183	[357, 358]	2231	[1454, 82]	4279	[5533, 5534]	6327	[3183, 5409]
184	[359, 360]	2232	[1241, 3496]	4280	[3474, 5535]	6328	[7097, 6204]
185	[361, 362]	2233	[2877, 3425]	4281	[3123, 2695]	6329	[7098, 5627]
186	[363, 364]	2234	[3357, 3199]	4282	[5536, 1031]	6330	[7099, 3657]
187	[365, 366]	2235	[3497, 2829]	4283	[3511, 5537]	6331	[7100, 1155]
188	[367, 368]	2236	[3498, 3499]	4284	[380, 3927]	6332	[7101, 487]
189	[369, 370]	2237	[2727, 940]	4285	[2885, 2971]	6333	[7102, 7103]
190	[371, 372]	2238	[3500, 2836]	4286	[5538, 5539]	6334	[6063, 5786]
191	[373, 374]	2239	[3501, 3323]	4287	[5540, 2923]	6335	[5285, 3061]
192	[375, 376]	2240	[3502, 3503]	4288	[5541, 1589]	6336	[5406, 5381]
193	[377, 378]	2241	[3504, 445]	4289	[3054, 3882]	6337	[7104, 3001]
194	[379, 380]	2242	[3505, 483]	4290	[5542, 5543]	6338	[7105, 5958]
195	[381, 382]	2243	[3506, 3012]	4291	[2818, 3029]	6339	[7106, 5517]
196	[383, 384]	2244	[3507, 108]	4292	[5544, 3066]	6340	[7107, 5715]
197	[385, 386]	2245	[3508, 3460]	4293	[5545, 1384]	6341	[3072, 5744]
198	[90, 387]	2246	[3509, 3072]	4294	[5546, 1484]	6342	[7108, 5310]
199	[388, 389]	2247	[2755, 1594]	4295	[5547, 5548]	6343	[7109, 2832]
200	[390, 391]	2248	[3510, 3511]	4296	[5549, 5550]	6344	[6293, 3153]
201	[392, 393]	2249	[2910, 3441]	4297	[5551, 2969]	6345	[7110, 3453]
202	[394, 395]	2250	[3512, 967]	4298	[5552, 2973]	6346	[7111, 5800]
203	[396, 397]	2251	[3513, 304]	4299	[5553, 5554]	6347	[5981, 3350]
204	[331, 398]	2252	[3514, 3009]	4300	[5555, 2725]	6348	[5409, 3795]
205	[399, 400]	2253	[3515, 3516]	4301	[5556, 1633]	6349	[7112, 310]
206	[401, 402]	2254	[3517, 3518]	4302	[5557, 988]	6350	[74, 3657]
207	[403, 404]	2255	[3519, 933]	4303	[5558, 1424]	6351	[7113, 461]
208	[405, 406]	2256	[3520, 2765]	4304	[5559, 5560]	6352	[935, 3027]
209	[407, 408]	2257	[3521, 3522]	4305	[5561, 5562]	6353	[7114, 959]

210	[409, 410]	2258	[3523, 1410]	4306	[5563, 5564]	6354	[1005, 5859]
211	[411, 412]	2259	[3524, 1312]	4307	[5565, 3497]	6355	[7115, 428]
212	[413, 414]	2260	[3525, 3400]	4308	[3199, 1010]	6356	[2710, 5768]
213	[415, 416]	2261	[2706, 1043]	4309	[3281, 5566]	6357	[7116, 3780]
214	[417, 418]	2262	[1589, 3504]	4310	[5567, 5568]	6358	[7117, 410]
215	[419, 420]	2263	[3526, 3527]	4311	[5569, 3011]	6359	[1077, 5715]
216	[421, 422]	2264	[3528, 1238]	4312	[5570, 3595]	6360	[2725, 6306]
217	[423, 424]	2265	[3529, 2994]	4313	[5307, 3642]	6361	[3974, 2760]
218	[425, 426]	2266	[3163, 3530]	4314	[1186, 1147]	6362	[2723, 5716]
219	[427, 428]	2267	[3531, 3532]	4315	[5571, 1524]	6363	[7118, 5476]
220	[429, 430]	2268	[3533, 3534]	4316	[3971, 1544]	6364	[5292, 3203]
221	[431, 432]	2269	[2722, 3535]	4317	[5572, 2838]	6365	[5418, 3761]
222	[433, 434]	2270	[3536, 1522]	4318	[5573, 5512]	6366	[7119, 1577]
223	[435, 436]	2271	[3537, 3538]	4319	[424, 5574]	6367	[7120, 1159]
224	[437, 438]	2272	[3539, 386]	4320	[5575, 305]	6368	[5548, 3526]
225	[439, 440]	2273	[3540, 1600]	4321	[3711, 1527]	6369	[7121, 2981]
226	[441, 442]	2274	[3541, 2961]	4322	[5576, 3040]	6370	[7122, 1067]
227	[443, 444]	2275	[3542, 325]	4323	[5577, 5467]	6371	[7123, 98]
228	[445, 446]	2276	[272, 3277]	4324	[5578, 942]	6372	[7124, 5729]
229	[447, 448]	2277	[3431, 3543]	4325	[5579, 332]	6373	[7125, 1565]
230	[449, 324]	2278	[3544, 1533]	4326	[5580, 5333]	6374	[7126, 1283]
231	[450, 451]	2279	[3545, 3546]	4327	[5581, 5582]	6375	[6213, 1406]
232	[452, 453]	2280	[3547, 1187]	4328	[5583, 113]	6376	[1255, 7127]
233	[454, 455]	2281	[3548, 1299]	4329	[5584, 1260]	6377	[7128, 1298]
234	[456, 457]	2282	[3549, 2983]	4330	[5585, 5586]	6378	[7129, 3200]
235	[458, 459]	2283	[3550, 3551]	4331	[5587, 1510]	6379	[7130, 440]
236	[460, 461]	2284	[3552, 3553]	4332	[3125, 1025]	6380	[7131, 5595]
237	[462, 463]	2285	[1017, 3554]	4333	[5588, 2798]	6381	[1424, 5368]
238	[464, 465]	2286	[3555, 1196]	4334	[2790, 3516]	6382	[7132, 5915]
239	[466, 467]	2287	[3233, 3556]	4335	[5589, 5590]	6383	[7133, 6017]
240	[468, 469]	2288	[3557, 1027]	4336	[5591, 946]	6384	[3622, 3054]
241	[470, 471]	2289	[3438, 3558]	4337	[3821, 2858]	6385	[5852, 429]
242	[263, 472]	2290	[3559, 1305]	4338	[5592, 420]	6386	[2764, 3312]
243	[473, 474]	2291	[3560, 3274]	4339	[3467, 2862]	6387	[3121, 3700]
244	[475, 476]	2292	[3561, 3562]	4340	[5564, 5593]	6388	[7134, 3807]
245	[477, 478]	2293	[3563, 3564]	4341	[5594, 5595]	6389	[7135, 1647]
246	[479, 480]	2294	[1290, 3565]	4342	[5596, 5597]	6390	[7136, 3253]
247	[481, 482]	2295	[3566, 3567]	4343	[366, 5598]	6391	[7137, 2808]
248	[28, 483]	2296	[3568, 3569]	4344	[5599, 5422]	6392	[7138, 3496]
249	[484, 485]	2297	[3570, 3571]	4345	[5600, 372]	6393	[7139, 482]
250	[486, 487]	2298	[3572, 1616]	4346	[5601, 1504]	6394	[7140, 7141]
251	[488, 489]	2299	[3573, 3574]	4347	[3954, 1303]	6395	[5746, 1340]
252	[490, 405]	2300	[1349, 3575]	4348	[5602, 2907]	6396	[7142, 5874]
253	[491, 492]	2301	[3576, 3577]	4349	[5603, 460]	6397	[7141, 3271]

254	[493, 494]	2302	[3578, 3579]	4350	[3950, 3804]	6398	[1635, 1454]
255	[495, 496]	2303	[3307, 267]	4351	[1288, 1174]	6399	[7143, 3933]
256	[497, 498]	2304	[1605, 360]	4352	[5604, 2692]	6400	[1648, 1111]
257	[499, 500]	2305	[3580, 1328]	4353	[5605, 268]	6401	[7144, 273]
258	[501, 502]	2306	[3581, 3582]	4354	[5606, 1640]	6402	[7145, 3811]
259	[503, 504]	2307	[389, 3583]	4355	[5607, 3300]	6403	[7146, 1360]
260	[505, 506]	2308	[1613, 3584]	4356	[5608, 2825]	6404	[3211, 5436]
261	[507, 508]	2309	[3585, 117]	4357	[5609, 2883]	6405	[5333, 1187]
262	[509, 510]	2310	[3586, 3587]	4358	[1557, 319]	6406	[7147, 1185]
263	[511, 512]	2311	[3588, 3589]	4359	[5610, 3919]	6407	[7148, 1035]
264	[513, 514]	2312	[1584, 3590]	4360	[5611, 1342]	6408	[7149, 302]
265	[515, 516]	2313	[3591, 3592]	4361	[5612, 5349]	6409	[7150, 363]
266	[36, 517]	2314	[2784, 3593]	4362	[5613, 1602]	6410	[7151, 5391]
267	[518, 134]	2315	[3594, 3595]	4363	[5614, 5615]	6411	[3807, 2927]
268	[519, 520]	2316	[3596, 337]	4364	[5616, 1049]	6412	[7152, 362]
269	[50, 521]	2317	[3597, 3351]	4365	[5617, 1351]	6413	[5595, 3949]
270	[522, 523]	2318	[3598, 3282]	4366	[1575, 3419]	6414	[3117, 3754]
271	[524, 525]	2319	[3599, 1331]	4367	[5618, 1543]	6415	[7153, 3751]
272	[526, 527]	2320	[979, 3600]	4368	[5619, 3564]	6416	[5411, 5794]
273	[528, 529]	2321	[3152, 3601]	4369	[5436, 1185]	6417	[7154, 3401]
274	[530, 531]	2322	[3602, 3426]	4370	[5620, 380]	6418	[7155, 1464]
275	[532, 533]	2323	[3603, 489]	4371	[5621, 5377]	6419	[5460, 5442]
276	[534, 535]	2324	[3604, 3605]	4372	[5304, 2714]	6420	[7156, 1223]
277	[536, 537]	2325	[482, 3606]	4373	[5622, 3693]	6421	[7157, 7158]
278	[156, 538]	2326	[3607, 995]	4374	[5623, 5624]	6422	[7159, 5686]
279	[539, 540]	2327	[3608, 3609]	4375	[1593, 2980]	6423	[7160, 5772]
280	[541, 542]	2328	[3610, 1052]	4376	[1590, 1642]	6424	[7161, 3181]
281	[543, 544]	2329	[3611, 1147]	4377	[1040, 3403]	6425	[2908, 7103]
282	[545, 546]	2330	[3612, 2706]	4378	[5625, 2733]	6426	[2769, 3238]
283	[547, 548]	2331	[1324, 3487]	4379	[5626, 1260]	6427	[7162, 5304]
284	[549, 550]	2332	[3613, 1595]	4380	[3643, 1240]	6428	[3659, 1124]
285	[551, 552]	2333	[3614, 3396]	4381	[3995, 5627]	6429	[7163, 2714]
286	[553, 554]	2334	[3579, 3615]	4382	[1415, 3904]	6430	[7164, 3714]
287	[555, 556]	2335	[3616, 1053]	4383	[5628, 2999]	6431	[6144, 7165]
288	[557, 558]	2336	[3617, 2785]	4384	[5629, 2862]	6432	[7166, 6306]
289	[559, 560]	2337	[3204, 1235]	4385	[5630, 5285]	6433	[7167, 2900]
290	[561, 562]	2338	[3618, 3020]	4386	[1019, 5546]	6434	[3261, 431]
291	[563, 564]	2339	[3331, 1252]	4387	[5631, 3102]	6435	[1315, 5466]
292	[565, 566]	2340	[3619, 3620]	4388	[5482, 5287]	6436	[7168, 5837]
293	[567, 568]	2341	[3621, 3622]	4389	[256, 5632]	6437	[7169, 1377]
294	[569, 570]	2342	[485, 3289]	4390	[5633, 2755]	6438	[110, 3388]
295	[571, 572]	2343	[3091, 3254]	4391	[3213, 2848]	6439	[7170, 3143]
296	[573, 574]	2344	[3283, 3623]	4392	[5634, 1004]	6440	[7171, 6171]
297	[575, 576]	2345	[1198, 3624]	4393	[5635, 5636]	6441	[2738, 3997]

298	[577, 578]	2346	[3625, 3626]	4394	[5637, 5638]	6442	[3701, 2724]
299	[579, 161]	2347	[3627, 3628]	4395	[5639, 1250]	6443	[3442, 2732]
300	[580, 581]	2348	[1527, 1192]	4396	[980, 5548]	6444	[7172, 3110]
301	[582, 583]	2349	[3629, 1345]	4397	[5640, 418]	6445	[7173, 7106]
302	[584, 585]	2350	[3630, 3442]	4398	[1301, 3022]	6446	[3133, 368]
303	[586, 587]	2351	[3631, 3112]	4399	[5641, 2953]	6447	[3791, 412]
304	[588, 589]	2352	[3632, 1066]	4400	[5642, 1411]	6448	[3941, 3135]
305	[590, 591]	2353	[1200, 18]	4401	[1354, 1401]	6449	[1391, 3426]
306	[592, 593]	2354	[3633, 3634]	4402	[3361, 5343]	6450	[3709, 1141]
307	[594, 595]	2355	[122, 2998]	4403	[5643, 1531]	6451	[7174, 5918]
308	[596, 597]	2356	[3635, 3353]	4404	[5644, 5645]	6452	[7175, 1334]
309	[598, 599]	2357	[3636, 3637]	4405	[3907, 5646]	6453	[7176, 445]
310	[600, 601]	2358	[2938, 3638]	4406	[3638, 5647]	6454	[2861, 2940]
311	[602, 603]	2359	[3639, 1268]	4407	[3491, 5376]	6455	[1627, 3225]
312	[604, 605]	2360	[3640, 3641]	4408	[5648, 3779]	6456	[7177, 1030]
313	[606, 600]	2361	[3642, 3643]	4409	[5649, 5650]	6457	[3683, 2992]
314	[607, 608]	2362	[3644, 3645]	4410	[5651, 3152]	6458	[7178, 345]
315	[609, 610]	2363	[3646, 3380]	4411	[5652, 2859]	6459	[7179, 5861]
316	[492, 611]	2364	[3647, 1167]	4412	[5653, 3331]	6460	[5774, 5954]
317	[612, 613]	2365	[3648, 2921]	4413	[5654, 944]	6461	[7180, 2913]
318	[614, 615]	2366	[3649, 3399]	4414	[3225, 3579]	6462	[3763, 3823]
319	[616, 617]	2367	[3650, 3651]	4415	[5655, 3461]	6463	[7181, 2728]
320	[618, 619]	2368	[3652, 3307]	4416	[5656, 3274]	6464	[3620, 2772]
321	[620, 621]	2369	[1452, 3653]	4417	[5657, 5658]	6465	[7182, 978]
322	[622, 623]	2370	[3654, 1608]	4418	[5659, 5660]	6466	[7183, 2863]
323	[624, 597]	2371	[3655, 3656]	4419	[5661, 3275]	6467	[7184, 3527]
324	[625, 626]	2372	[1555, 2969]	4420	[1541, 5662]	6468	[7185, 5298]
325	[627, 628]	2373	[3657, 3172]	4421	[5663, 323]	6469	[3900, 5697]
326	[629, 630]	2374	[3658, 3659]	4422	[5664, 3793]	6470	[7186, 1029]
327	[631, 632]	2375	[3660, 2850]	4423	[5665, 2737]	6471	[7187, 29]
328	[540, 633]	2376	[3661, 126]	4424	[5666, 5667]	6472	[3963, 1529]
329	[634, 635]	2377	[3662, 3663]	4425	[3917, 5668]	6473	[7188, 2718]
330	[636, 637]	2378	[3664, 3665]	4426	[1071, 5669]	6474	[7189, 3263]
331	[638, 639]	2379	[3666, 3106]	4427	[2902, 1090]	6475	[7190, 3256]
332	[640, 641]	2380	[1208, 1047]	4428	[2933, 5670]	6476	[7191, 1386]
333	[642, 643]	2381	[3667, 3583]	4429	[5671, 376]	6477	[3416, 5667]
334	[644, 645]	2382	[3668, 3267]	4430	[5672, 2743]	6478	[7192, 101]
335	[646, 647]	2383	[3669, 3670]	4431	[5673, 3619]	6479	[7193, 3035]
336	[648, 649]	2384	[3671, 3672]	4432	[5674, 5406]	6480	[5859, 5626]
337	[650, 651]	2385	[3673, 2931]	4433	[5675, 3491]	6481	[7194, 5461]
338	[652, 653]	2386	[3674, 3079]	4434	[5676, 5671]	6482	[7195, 1126]
339	[654, 655]	2387	[3675, 2990]	4435	[5677, 5678]	6483	[5466, 1264]
340	[656, 657]	2388	[2839, 1300]	4436	[5679, 279]	6484	[1046, 1144]
341	[658, 220]	2389	[1025, 3676]	4437	[1286, 3956]	6485	[7196, 2780]

342	[659, 660]	2390	[3086, 1493]	4438	[5680, 938]	6486	[7197, 2807]
343	[661, 662]	2391	[3677, 3678]	4439	[5681, 3348]	6487	[7198, 3718]
344	[663, 664]	2392	[2830, 3679]	4440	[5682, 2843]	6488	[5426, 3835]
345	[544, 665]	2393	[3680, 3681]	4441	[5683, 3163]	6489	[7199, 6099]
346	[666, 667]	2394	[3682, 3683]	4442	[5684, 2996]	6490	[7200, 7201]
347	[668, 669]	2395	[2785, 439]	4443	[990, 363]	6491	[3194, 3921]
348	[670, 671]	2396	[3684, 3685]	4444	[5685, 1324]	6492	[2939, 1132]
349	[672, 673]	2397	[3686, 3687]	4445	[2819, 5594]	6493	[3332, 3830]
350	[674, 675]	2398	[3688, 3689]	4446	[5686, 5687]	6494	[7202, 3098]
351	[676, 677]	2399	[3690, 3099]	4447	[5688, 5689]	6495	[1265, 5437]
352	[678, 516]	2400	[3691, 3692]	4448	[5690, 3177]	6496	[3847, 5798]
353	[679, 228]	2401	[3170, 3693]	4449	[5691, 3814]	6497	[6249, 1167]
354	[680, 681]	2402	[3694, 2857]	4450	[5650, 3117]	6498	[7158, 1643]
355	[682, 683]	2403	[3695, 1115]	4451	[5407, 2928]	6499	[7203, 2757]
356	[185, 684]	2404	[3696, 3130]	4452	[5420, 5692]	6500	[7204, 2752]
357	[685, 686]	2405	[3697, 1231]	4453	[5693, 1100]	6501	[7205, 5779]
358	[687, 630]	2406	[3698, 3699]	4454	[1119, 3834]	6502	[7206, 3688]
359	[688, 233]	2407	[3700, 3701]	4455	[5694, 979]	6503	[3626, 6232]
360	[689, 690]	2408	[2943, 3702]	4456	[5695, 22]	6504	[7207, 6190]
361	[691, 692]	2409	[3703, 2826]	4457	[5696, 5697]	6505	[7208, 1388]
362	[693, 623]	2410	[3704, 3705]	4458	[5698, 5292]	6506	[7209, 475]
363	[694, 695]	2411	[3706, 366]	4459	[3174, 5338]	6507	[7210, 335]
364	[696, 697]	2412	[3707, 3401]	4460	[5699, 1208]	6508	[3074, 3791]
365	[698, 699]	2413	[3708, 3709]	4461	[1361, 3322]	6509	[7211, 935]
366	[700, 48]	2414	[3710, 3711]	4462	[5700, 336]	6510	[7212, 6046]
367	[701, 702]	2415	[3712, 3713]	4463	[5424, 1511]	6511	[2699, 3434]
368	[703, 704]	2416	[3714, 3715]	4464	[5701, 5702]	6512	[3350, 5918]
369	[705, 706]	2417	[3716, 3717]	4465	[5703, 5674]	6513	[7213, 5442]
370	[599, 707]	2418	[3267, 344]	4466	[5704, 5705]	6514	[7214, 3992]
371	[708, 574]	2419	[3347, 3718]	4467	[5485, 2814]	6515	[3440, 1306]
372	[709, 710]	2420	[3719, 2796]	4468	[5340, 5706]	6516	[7215, 1162]
373	[711, 712]	2421	[3623, 1320]	4469	[5707, 5708]	6517	[7216, 2972]
374	[713, 714]	2422	[2981, 2737]	4470	[5709, 1101]	6518	[7217, 945]
375	[715, 716]	2423	[3720, 1028]	4471	[5710, 5711]	6519	[7218, 3369]
376	[717, 718]	2424	[2894, 1120]	4472	[1533, 3098]	6520	[7219, 3754]
377	[719, 720]	2425	[3721, 3722]	4473	[5712, 1625]	6521	[1531, 7158]
378	[721, 722]	2426	[3723, 3504]	4474	[1350, 5713]	6522	[3039, 2702]
379	[723, 724]	2427	[3724, 3725]	4475	[5714, 1576]	6523	[3326, 1348]
380	[725, 726]	2428	[3503, 3726]	4476	[5715, 5323]	6524	[7220, 7221]
381	[727, 728]	2429	[3727, 3446]	4477	[5716, 5324]	6525	[7222, 3775]
382	[729, 730]	2430	[3728, 1363]	4478	[5717, 5287]	6526	[7223, 5677]
383	[731, 732]	2431	[260, 3729]	4479	[5718, 416]	6527	[7224, 3973]
384	[733, 734]	2432	[3730, 3731]	4480	[5719, 3576]	6528	[7225, 1463]
385	[735, 736]	2433	[3689, 1567]	4481	[5720, 937]	6529	[3453, 3001]

386	[737, 738]	2434	[3732, 3733]	4482	[988, 5721]	6530	[2787, 3717]
387	[739, 740]	2435	[3734, 3262]	4483	[5722, 5723]	6531	[7226, 3520]
388	[741, 742]	2436	[3735, 2840]	4484	[1097, 5724]	6532	[3841, 5809]
389	[743, 744]	2437	[3736, 2858]	4485	[5725, 1475]	6533	[5891, 3774]
390	[745, 746]	2438	[3737, 3738]	4486	[3328, 3033]	6534	[3895, 3240]
391	[747, 185]	2439	[3739, 3740]	4487	[2763, 5726]	6535	[461, 1402]
392	[748, 749]	2440	[3741, 3742]	4488	[5727, 1623]	6536	[5702, 3685]
393	[750, 751]	2441	[3743, 3744]	4489	[5728, 5470]	6537	[84, 6026]
394	[752, 753]	2442	[3745, 3746]	4490	[5729, 1412]	6538	[7227, 2783]
395	[754, 755]	2443	[2978, 1487]	4491	[5730, 5731]	6539	[1545, 3455]
396	[756, 757]	2444	[3292, 3747]	4492	[5732, 2809]	6540	[7228, 980]
397	[758, 629]	2445	[3297, 1379]	4493	[286, 1480]	6541	[7229, 2896]
398	[637, 759]	2446	[3748, 943]	4494	[5733, 397]	6542	[342, 5539]
399	[760, 761]	2447	[3749, 3285]	4495	[5734, 5704]	6543	[6011, 1404]
400	[762, 763]	2448	[3750, 3751]	4496	[5735, 1056]	6544	[7230, 3265]
401	[764, 765]	2449	[3752, 3753]	4497	[5736, 3520]	6545	[937, 5590]
402	[766, 767]	2450	[3754, 1542]	4498	[2811, 3894]	6546	[1091, 5650]
403	[768, 769]	2451	[3755, 1406]	4499	[5737, 1075]	6547	[7231, 2805]
404	[770, 225]	2452	[3756, 3757]	4500	[5738, 77]	6548	[7232, 6129]
405	[771, 772]	2453	[3758, 3759]	4501	[5739, 5720]	6549	[5566, 3405]
406	[773, 774]	2454	[3760, 3761]	4502	[5740, 2974]	6550	[7233, 7185]
407	[775, 776]	2455	[3762, 3763]	4503	[5741, 1389]	6551	[7234, 3204]
408	[777, 778]	2456	[3558, 3764]	4504	[5742, 5743]	6552	[7235, 393]
409	[779, 698]	2457	[3765, 3766]	4505	[5744, 3078]	6553	[7236, 2773]
410	[780, 781]	2458	[3767, 3768]	4506	[5745, 5746]	6554	[7237, 3395]
411	[782, 783]	2459	[3769, 1422]	4507	[2826, 5747]	6555	[7238, 5437]
412	[784, 785]	2460	[3770, 3476]	4508	[5748, 3722]	6556	[7239, 320]
413	[786, 787]	2461	[3771, 3772]	4509	[5749, 5750]	6557	[1344, 3158]
414	[788, 789]	2462	[3773, 342]	4510	[1464, 5534]	6558	[7240, 986]
415	[790, 791]	2463	[446, 1624]	4511	[5751, 1354]	6559	[7241, 406]
416	[792, 793]	2464	[3774, 3775]	4512	[5752, 5343]	6560	[5782, 3209]
417	[794, 795]	2465	[3522, 1396]	4513	[5753, 2780]	6561	[7242, 2844]
418	[796, 689]	2466	[3776, 3030]	4514	[3241, 1363]	6562	[7243, 3584]
419	[797, 518]	2467	[3196, 931]	4515	[5754, 2729]	6563	[7244, 2695]
420	[798, 799]	2468	[3777, 3778]	4516	[5755, 3002]	6564	[7245, 1440]
421	[800, 801]	2469	[3779, 3780]	4517	[5756, 2846]	6565	[5298, 3742]
422	[802, 664]	2470	[3781, 2884]	4518	[5757, 5750]	6566	[7246, 3133]
423	[803, 804]	2471	[3782, 3240]	4519	[5758, 1261]	6567	[7247, 6082]
424	[805, 806]	2472	[3783, 3784]	4520	[5759, 5760]	6568	[7248, 7165]
425	[807, 808]	2473	[3785, 3786]	4521	[5761, 1392]	6569	[1239, 2933]
426	[809, 810]	2474	[2918, 3787]	4522	[5762, 1203]	6570	[3600, 3273]
427	[811, 812]	2475	[3788, 3789]	4523	[3670, 5763]	6571	[7249, 3227]
428	[813, 814]	2476	[3790, 3791]	4524	[3751, 2691]	6572	[7250, 1366]
429	[815, 816]	2477	[3792, 2839]	4525	[114, 3636]	6573	[7127, 3206]

430	[817, 818]	2478	[931, 3793]	4526	[5764, 3848]	6574	[1083, 5582]
431	[819, 820]	2479	[3217, 1197]	4527	[294, 5765]	6575	[7251, 5564]
432	[821, 822]	2480	[3794, 3609]	4528	[5766, 1559]	6576	[3692, 4]
433	[823, 824]	2481	[3795, 3796]	4529	[5767, 5768]	6577	[7252, 316]
434	[825, 226]	2482	[3797, 1107]	4530	[3976, 1255]	6578	[7253, 466]
435	[246, 826]	2483	[3798, 3799]	4531	[3744, 1164]	6579	[7254, 1193]
436	[827, 828]	2484	[3115, 2994]	4532	[5769, 2890]	6580	[7255, 5669]
437	[829, 830]	2485	[1369, 3091]	4533	[5770, 5771]	6581	[102, 2869]
438	[831, 832]	2486	[3800, 3036]	4534	[5772, 3673]	6582	[6163, 3467]
439	[833, 834]	2487	[3801, 1556]	4535	[5773, 5774]	6583	[7256, 3065]
440	[835, 836]	2488	[1372, 3802]	4536	[2993, 5640]	6584	[7257, 3951]
441	[837, 838]	2489	[3803, 3804]	4537	[3488, 3551]	6585	[7258, 1097]
442	[839, 172]	2490	[2931, 1434]	4538	[5775, 984]	6586	[5820, 3068]
443	[840, 841]	2491	[3805, 1477]	4539	[2792, 468]	6587	[7259, 3637]
444	[842, 843]	2492	[3806, 3131]	4540	[2697, 5776]	6588	[5844, 3395]
445	[138, 844]	2493	[3455, 3807]	4541	[3421, 5777]	6589	[7260, 5640]
446	[845, 846]	2494	[3808, 1289]	4542	[5778, 5340]	6590	[3405, 1360]
447	[847, 848]	2495	[3809, 3810]	4543	[1422, 5609]	6591	[1163, 3641]
448	[849, 850]	2496	[3811, 3541]	4544	[5660, 3097]	6592	[3810, 1416]
449	[851, 852]	2497	[1158, 1523]	4545	[5438, 5779]	6593	[3904, 2837]
450	[853, 854]	2498	[1159, 951]	4546	[5780, 379]	6594	[7261, 7262]
451	[855, 856]	2499	[3812, 3662]	4547	[5781, 2988]	6595	[5798, 3147]
452	[857, 617]	2500	[3499, 3501]	4548	[5768, 5782]	6596	[7263, 3419]
453	[570, 858]	2501	[3312, 3336]	4549	[5783, 5784]	6597	[104, 1285]
454	[859, 860]	2502	[1550, 3813]	4550	[1577, 1507]	6598	[7264, 1541]
455	[861, 862]	2503	[3814, 3815]	4551	[5785, 5326]	6599	[5999, 5698]
456	[863, 864]	2504	[3554, 3816]	4552	[5786, 3534]	6600	[5632, 5723]
457	[865, 866]	2505	[1621, 3648]	4553	[5787, 5788]	6601	[7265, 118]
458	[867, 868]	2506	[1535, 89]	4554	[3432, 3420]	6602	[1637, 5944]
459	[869, 870]	2507	[3817, 3818]	4555	[5789, 2985]	6603	[7266, 1448]
460	[871, 872]	2508	[374, 1238]	4556	[5790, 5438]	6604	[7267, 2726]
461	[873, 874]	2509	[3819, 3598]	4557	[5687, 5791]	6605	[7268, 3916]
462	[875, 876]	2510	[3820, 3283]	4558	[5792, 3407]	6606	[7269, 3577]
463	[179, 877]	2511	[368, 3821]	4559	[5793, 365]	6607	[7270, 7271]
464	[878, 879]	2512	[3822, 3183]	4560	[5794, 1227]	6608	[3828, 5874]
465	[880, 650]	2513	[3823, 1409]	4561	[5795, 3296]	6609	[7272, 1058]
466	[881, 882]	2514	[1110, 3645]	4562	[5796, 2723]	6610	[7273, 3575]
467	[883, 884]	2515	[3637, 3824]	4563	[1571, 1321]	6611	[3861, 3784]
468	[885, 886]	2516	[3825, 3826]	4564	[5797, 5798]	6612	[7274, 1338]
469	[887, 888]	2517	[3827, 3828]	4565	[5799, 1099]	6613	[6229, 1456]
470	[889, 890]	2518	[3829, 3830]	4566	[5800, 5801]	6614	[3358, 324]
471	[891, 892]	2519	[3831, 3796]	4567	[5802, 1225]	6615	[7103, 1376]
472	[510, 893]	2520	[3411, 3832]	4568	[2962, 3961]	6616	[7275, 1046]
473	[894, 895]	2521	[3833, 3834]	4569	[5803, 121]	6617	[7276, 1441]

474	[896, 897]	2522	[3835, 2875]	4570	[5804, 2996]	6618	[7277, 5956]
475	[898, 899]	2523	[3836, 3837]	4571	[5805, 3758]	6619	[7278, 1447]
476	[900, 901]	2524	[3838, 3252]	4572	[2855, 1337]	6620	[7279, 2708]
477	[902, 903]	2525	[3223, 1535]	4573	[5806, 3422]	6621	[7280, 1043]
478	[904, 172]	2526	[3839, 1638]	4574	[5726, 2720]	6622	[7281, 3109]
479	[905, 906]	2527	[1161, 2846]	4575	[5807, 2944]	6623	[7282, 6271]
480	[907, 908]	2528	[3840, 1096]	4576	[5808, 2998]	6624	[3427, 5330]
481	[909, 910]	2529	[3184, 3841]	4577	[5809, 3215]	6625	[1352, 7214]
482	[911, 912]	2530	[3842, 3843]	4578	[5810, 1297]	6626	[7283, 5323]
483	[56, 913]	2531	[3844, 3518]	4579	[5811, 3044]	6627	[7284, 957]
484	[914, 915]	2532	[3202, 1611]	4580	[5812, 1414]	6628	[7285, 5810]
485	[916, 917]	2533	[3845, 1629]	4581	[5813, 351]	6629	[7286, 3313]
486	[918, 919]	2534	[3846, 3847]	4582	[5814, 3601]	6630	[7287, 1346]
487	[920, 921]	2535	[3848, 3155]	4583	[5815, 1419]	6631	[7288, 3781]
488	[922, 923]	2536	[2964, 452]	4584	[5816, 459]	6632	[2904, 5317]
489	[617, 924]	2537	[3849, 2751]	4585	[1215, 3076]	6633	[7289, 7290]
490	[925, 224]	2538	[3850, 2975]	4586	[5817, 3988]	6634	[108, 486]
491	[926, 927]	2539	[3851, 353]	4587	[3036, 3983]	6635	[7291, 1018]
492	[928, 929]	2540	[3852, 3853]	4588	[408, 3627]	6636	[5394, 3944]
493	[930, 931]	2541	[3854, 3855]	4589	[5818, 5410]	6637	[7292, 1306]
494	[932, 933]	2542	[3275, 3023]	4590	[5819, 5820]	6638	[7293, 3794]
495	[934, 935]	2543	[3856, 3857]	4591	[5821, 5748]	6639	[7294, 1271]
496	[936, 937]	2544	[3858, 3095]	4592	[3679, 3185]	6640	[7295, 3203]
497	[938, 939]	2545	[1468, 1382]	4593	[5822, 3153]	6641	[7296, 6015]
498	[940, 941]	2546	[307, 3018]	4594	[5823, 2838]	6642	[6071, 3899]
499	[942, 943]	2547	[3859, 1060]	4595	[5824, 2717]	6643	[7297, 3206]
500	[944, 945]	2548	[3860, 71]	4596	[1237, 5825]	6644	[7298, 5716]
501	[946, 947]	2549	[1322, 480]	4597	[5826, 3402]	6645	[6082, 3837]
502	[948, 949]	2550	[2758, 3861]	4598	[5827, 3844]	6646	[7299, 2993]
503	[950, 951]	2551	[3862, 3863]	4599	[5828, 3259]	6647	[1559, 3711]
504	[952, 953]	2552	[3582, 3399]	4600	[5829, 1599]	6648	[7201, 3767]
505	[954, 955]	2553	[3301, 3864]	4601	[5830, 1627]	6649	[7300, 3631]
506	[956, 957]	2554	[3865, 3866]	4602	[5831, 3280]	6650	[6204, 1325]
507	[958, 355]	2555	[1466, 3114]	4603	[5832, 1624]	6651	[7301, 3813]
508	[959, 960]	2556	[3867, 3114]	4604	[5586, 3483]	6652	[7302, 1609]
509	[961, 962]	2557	[986, 3392]	4605	[1229, 3040]	6653	[7303, 6256]
510	[963, 964]	2558	[3843, 3162]	4606	[5833, 1496]	6654	[478, 85]
511	[965, 966]	2559	[3294, 3566]	4607	[3076, 5383]	6655	[5535, 5760]
512	[967, 968]	2560	[3868, 266]	4608	[3899, 1414]	6656	[1630, 5572]
513	[969, 970]	2561	[3869, 2940]	4609	[5834, 5835]	6657	[7262, 5386]
514	[971, 972]	2562	[3870, 2887]	4610	[3108, 5836]	6658	[1562, 7304]
515	[973, 974]	2563	[3722, 3871]	4611	[3094, 5837]	6659	[1069, 5656]
516	[975, 976]	2564	[3042, 3872]	4612	[5838, 437]	6660	[7305, 1012]
517	[72, 977]	2565	[3316, 2748]	4613	[2990, 3639]	6661	[2995, 264]

518	[16, 978]	2566	[3480, 93]	4614	[3681, 2860]	6662	[7306, 5957]
519	[20, 979]	2567	[3873, 1645]	4615	[3970, 289]	6663	[939, 5422]
520	[22, 980]	2568	[3874, 3023]	4616	[3084, 3863]	6664	[7307, 5474]
521	[981, 982]	2569	[929, 3840]	4617	[1383, 1060]	6665	[1359, 5457]
522	[983, 984]	2570	[3875, 2978]	4618	[2793, 1500]	6666	[6017, 5418]
523	[985, 986]	2571	[3876, 3840]	4619	[1206, 3202]	6667	[1367, 83]
524	[987, 988]	2572	[3877, 3745]	4620	[3733, 3264]	6668	[5325, 3778]
525	[989, 990]	2573	[3878, 1503]	4621	[3665, 3814]	6669	[7308, 1231]
526	[991, 992]	2574	[3786, 970]	4622	[3400, 5757]	6670	[3789, 5479]
527	[953, 107]	2575	[3879, 1509]	4623	[5839, 2816]	6671	[7309, 6065]
528	[993, 994]	2576	[3880, 1137]	4624	[5840, 3639]	6672	[7304, 1180]
529	[995, 996]	2577	[3881, 3279]	4625	[5841, 5593]	6673	[7310, 1359]
530	[997, 998]	2578	[3882, 3306]	4626	[5842, 2917]	6674	[3592, 5774]
531	[999, 264]	2579	[3883, 427]	4627	[5843, 5844]	6675	[3367, 5393]
532	[1000, 1001]	2580	[3884, 431]	4628	[3997, 5845]	6676	[7311, 287]
533	[1002, 1003]	2581	[1433, 310]	4629	[5846, 5847]	6677	[7312, 2977]
534	[1004, 1005]	2582	[3885, 3521]	4630	[5848, 476]	6678	[7313, 7247]
535	[1006, 1007]	2583	[3886, 2784]	4631	[5849, 5753]	6679	[2824, 3383]
536	[1008, 1009]	2584	[3887, 3888]	4632	[5850, 1327]	6680	[7314, 1456]
537	[1010, 1011]	2585	[3889, 2781]	4633	[3834, 3465]	6681	[7315, 1051]
538	[305, 1012]	2586	[3890, 1184]	4634	[5851, 5777]	6682	[7316, 3841]
539	[1013, 1005]	2587	[3172, 3891]	4635	[1112, 5852]	6683	[7317, 6201]
540	[1014, 1015]	2588	[3892, 3893]	4636	[5402, 5623]	6684	[7318, 5794]
541	[1016, 1017]	2589	[3894, 3895]	4637	[5853, 441]	6685	[7319, 3740]
542	[1018, 1019]	2590	[3896, 1211]	4638	[3853, 5711]	6686	[3981, 2709]
543	[1020, 1021]	2591	[1125, 1205]	4639	[5854, 3893]	6687	[7320, 3027]
544	[1022, 1023]	2592	[3589, 3355]	4640	[5598, 3973]	6688	[5582, 2763]
545	[1024, 1025]	2593	[3718, 3537]	4641	[3318, 3177]	6689	[7321, 1205]
546	[70, 1026]	2594	[3897, 3482]	4642	[1625, 5855]	6690	[7322, 2911]
547	[1027, 1028]	2595	[3898, 3899]	4643	[5856, 5857]	6691	[2923, 3179]
548	[1029, 463]	2596	[3813, 3900]	4644	[3932, 1017]	6692	[3934, 2743]
549	[1030, 409]	2597	[3901, 3902]	4645	[5858, 5859]	6693	[7323, 408]
550	[1031, 1002]	2598	[3903, 3904]	4646	[5860, 3664]	6694	[7165, 1312]
551	[1032, 453]	2599	[3493, 2746]	4647	[3249, 2857]	6695	[7324, 3860]
552	[1033, 1034]	2600	[3905, 1151]	4648	[3279, 5282]	6696	[7325, 71]
553	[118, 1035]	2601	[3906, 3907]	4649	[3693, 3681]	6697	[7326, 5949]
554	[1036, 1037]	2602	[3908, 949]	4650	[5517, 5861]	6698	[5976, 282]
555	[964, 1038]	2603	[3909, 3005]	4651	[5862, 1290]	6699	[7327, 109]
556	[1039, 1040]	2604	[3910, 3258]	4652	[5647, 3440]	6700	[2985, 121]
557	[1041, 1042]	2605	[3911, 3912]	4653	[3830, 1514]	6701	[7328, 2937]
558	[1043, 1044]	2606	[3913, 3914]	4654	[5863, 1176]	6702	[7329, 5955]
559	[1045, 1046]	2607	[3915, 3049]	4655	[5864, 5657]	6703	[7330, 6069]
560	[1047, 1048]	2608	[3916, 3917]	4656	[3731, 1639]	6704	[7331, 1392]
561	[1049, 1050]	2609	[3918, 3788]	4657	[3056, 5728]	6705	[7332, 5935]

562	[68, 1051]	2610	[3919, 3129]	4658	[5865, 1138]	6706	[7333, 481]
563	[1052, 1053]	2611	[3920, 1521]	4659	[5866, 5394]	6707	[7334, 5452]
564	[1054, 1055]	2612	[3921, 1461]	4660	[5867, 5574]	6708	[6161, 3692]
565	[1056, 1057]	2613	[3922, 1568]	4661	[5868, 5869]	6709	[7335, 3537]
566	[1058, 1059]	2614	[3923, 3373]	4662	[5870, 3824]	6710	[1211, 3227]
567	[1060, 1061]	2615	[3924, 3471]	4663	[5871, 1108]	6711	[7336, 2961]
568	[1062, 1063]	2616	[3925, 1399]	4664	[5872, 5873]	6712	[992, 1334]
569	[1064, 1065]	2617	[3926, 3927]	4665	[5874, 3799]	6713	[5352, 341]
570	[1066, 1067]	2618	[3928, 2995]	4666	[5875, 1284]	6714	[1108, 3146]
571	[1068, 1069]	2619	[2890, 3629]	4667	[5876, 3304]	6715	[7337, 5383]
572	[1070, 1071]	2620	[3929, 1429]	4668	[5877, 3298]	6716	[7338, 2889]
573	[1072, 1073]	2621	[2880, 2735]	4669	[284, 3844]	6717	[7339, 7214]
574	[1074, 1075]	2622	[3930, 3931]	4670	[3571, 987]	6718	[7340, 3629]
575	[1076, 1077]	2623	[1505, 3932]	4671	[5878, 5879]	6719	[7341, 3556]
576	[1078, 1079]	2624	[3933, 3934]	4672	[5880, 1063]	6720	[321, 5350]
577	[1080, 1081]	2625	[3935, 1276]	4673	[1573, 3008]	6721	[7342, 3281]
578	[1082, 1083]	2626	[2734, 471]	4674	[5881, 5320]	6722	[476, 3770]
579	[1084, 1085]	2627	[1599, 3936]	4675	[3239, 448]	6723	[1596, 475]
580	[1086, 1087]	2628	[2777, 3937]	4676	[5882, 3351]	6724	[7343, 5349]
581	[1088, 1089]	2629	[3938, 1120]	4677	[5883, 3935]	6725	[3587, 3633]
582	[1090, 1091]	2630	[3939, 3756]	4678	[5884, 1438]	6726	[3816, 3300]
583	[1092, 1093]	2631	[3940, 3941]	4679	[5885, 5526]	6727	[7344, 3561]
584	[1094, 1095]	2632	[3942, 1119]	4680	[5886, 1011]	6728	[3742, 3450]
585	[1096, 1097]	2633	[3943, 3944]	4681	[5887, 477]	6729	[7345, 975]
586	[474, 1098]	2634	[3945, 1118]	4682	[5888, 3888]	6730	[7346, 1026]
587	[1099, 1100]	2635	[3946, 1245]	4683	[5390, 1087]	6731	[1543, 1236]
588	[1101, 404]	2636	[2704, 1558]	4684	[5889, 3326]	6732	[7347, 432]
589	[489, 1102]	2637	[1326, 3947]	4685	[1148, 5890]	6733	[7348, 295]
590	[1103, 1104]	2638	[3948, 3949]	4686	[3033, 1593]	6734	[7349, 6055]
591	[1105, 347]	2639	[1227, 3950]	4687	[3484, 5891]	6735	[7350, 5854]
592	[1106, 1040]	2640	[1404, 3951]	4688	[3469, 437]	6736	[7351, 2715]
593	[1107, 1108]	2641	[3952, 3726]	4689	[5892, 5893]	6737	[7352, 1495]
594	[1109, 1110]	2642	[3953, 2844]	4690	[5894, 1540]	6738	[7353, 3747]
595	[1111, 1112]	2643	[275, 3954]	4691	[5452, 385]	6739	[1330, 5702]
596	[1113, 1114]	2644	[3955, 3956]	4692	[5895, 2865]	6740	[7354, 5968]
597	[1115, 1116]	2645	[3802, 1257]	4693	[5896, 1612]	6741	[5645, 5356]
598	[346, 1117]	2646	[3957, 3485]	4694	[5897, 277]	6742	[7355, 280]
599	[1118, 1119]	2647	[3958, 1212]	4695	[5898, 423]	6743	[7356, 3318]
600	[1120, 1121]	2648	[3959, 3738]	4696	[5899, 114]	6744	[6189, 3604]
601	[1122, 1123]	2649	[2881, 3211]	4697	[5345, 1419]	6745	[7357, 1266]
602	[1124, 1125]	2650	[3951, 1066]	4698	[3219, 5864]	6746	[7358, 257]
603	[1126, 1127]	2651	[3960, 3961]	4699	[5900, 3417]	6747	[7359, 2767]
604	[1128, 1124]	2652	[3962, 3963]	4700	[5901, 1383]	6748	[3128, 5930]
605	[1129, 1126]	2653	[3964, 3965]	4701	[5902, 2885]	6749	[5375, 392]

606	[1130, 1122]	2654	[1026, 474]	4702	[455, 1341]	6750	[1547, 3105]
607	[1131, 1132]	2655	[3273, 1244]	4703	[5903, 94]	6751	[7360, 953]
608	[1133, 308]	2656	[3966, 3532]	4704	[5904, 1384]	6752	[7361, 2738]
609	[1134, 468]	2657	[3967, 1643]	4705	[5905, 2878]	6753	[7362, 996]
610	[1135, 1136]	2658	[3968, 3477]	4706	[5906, 3605]	6754	[7363, 3879]
611	[927, 1137]	2659	[3969, 3970]	4707	[5907, 5345]	6755	[1529, 3039]
612	[1138, 1139]	2660	[3595, 3971]	4708	[5908, 5909]	6756	[7364, 5670]
613	[1140, 1141]	2661	[3972, 1542]	4709	[3476, 3779]	6757	[7365, 1278]
614	[1142, 111]	2662	[3377, 2949]	4710	[5910, 5911]	6758	[7366, 1171]
615	[1143, 1144]	2663	[3973, 1115]	4711	[5912, 3497]	6759	[5708, 335]
616	[1145, 1146]	2664	[3778, 3974]	4712	[5913, 1446]	6760	[3460, 3987]
617	[1147, 1148]	2665	[3975, 3976]	4713	[5914, 1356]	6761	[7367, 1272]
618	[1149, 1150]	2666	[3977, 2865]	4714	[420, 2794]	6762	[3068, 270]
619	[1151, 1152]	2667	[3978, 3979]	4715	[5915, 5857]	6763	[5861, 5958]
620	[1153, 1154]	2668	[3980, 3981]	4716	[5916, 1009]	6764	[7368, 3126]
621	[1155, 1156]	2669	[3982, 3983]	4717	[3110, 441]	6765	[3137, 6061]
622	[1157, 1158]	2670	[2859, 3422]	4718	[5917, 2693]	6766	[7369, 5950]
623	[1055, 1159]	2671	[3984, 2749]	4719	[5918, 5677]	6767	[3215, 5893]
624	[1160, 1161]	2672	[3985, 3689]	4720	[5919, 932]	6768	[7370, 5809]
625	[1162, 1163]	2673	[3986, 3987]	4721	[5920, 3795]	6769	[7371, 356]
626	[1164, 1165]	2674	[3988, 3989]	4722	[977, 5448]	6770	[395, 5431]
627	[1166, 1070]	2675	[3990, 1209]	4723	[3567, 2797]	6771	[7372, 5644]
628	[1167, 1168]	2676	[3991, 3992]	4724	[1305, 5921]	6772	[7373, 1080]
629	[1169, 1170]	2677	[3993, 2758]	4725	[5922, 5923]	6773	[7374, 1373]
630	[1171, 1172]	2678	[3994, 1502]	4726	[2836, 3232]	6774	[5475, 1215]
631	[1173, 1174]	2679	[3315, 3461]	4727	[3478, 3931]	6775	[7375, 7376]
632	[1175, 1176]	2680	[3914, 3995]	4728	[5924, 3700]	6776	[7377, 125]
633	[1177, 1178]	2681	[3996, 3997]	4729	[5925, 5869]	6777	[7378, 5518]
634	[1179, 1180]	2682	[3998, 3259]	4730	[5926, 1618]	6778	[7379, 5424]
635	[1181, 1182]	2683	[3009, 929]	4731	[5927, 1523]	6779	[3052, 5355]
636	[1183, 1184]	2684	[3477, 1114]	4732	[5928, 3648]	6780	[2974, 2968]
637	[1185, 1186]	2685	[3999, 333]	4733	[5929, 5930]	6781	[3553, 3223]
638	[1187, 401]	2686	[3186, 3303]	4734	[5931, 2851]	6782	[7380, 5713]
639	[1100, 1188]	2687	[3200, 3480]	4735	[3634, 1031]	6783	[7381, 3590]
640	[1189, 23]	2688	[4000, 1073]	4736	[5932, 426]	6784	[7382, 3749]
641	[406, 1190]	2689	[1887, 4001]	4737	[5933, 258]	6785	[3320, 5873]
642	[1191, 1192]	2690	[4002, 2522]	4738	[5934, 1516]	6786	[7383, 3541]
643	[1193, 1194]	2691	[4003, 2043]	4739	[3699, 5935]	6787	[7384, 1616]
644	[1195, 1196]	2692	[4004, 2345]	4740	[451, 946]	6788	[7385, 3058]
645	[1197, 1198]	2693	[2282, 884]	4741	[5936, 3456]	6789	[7386, 3912]
646	[1199, 1200]	2694	[4005, 181]	4742	[5937, 3292]	6790	[3864, 5474]
647	[1201, 1202]	2695	[4006, 4007]	4743	[5938, 5645]	6791	[7387, 3953]
648	[1203, 1204]	2696	[4008, 4009]	4744	[3772, 1425]	6792	[3353, 6144]
649	[1205, 1206]	2697	[1826, 4010]	4745	[5939, 3573]	6793	[7388, 1123]

650	[1207, 1208]	2698	[4011, 1717]	4746	[5940, 260]	6794	[6279, 3916]
651	[358, 1209]	2699	[4012, 1856]	4747	[2756, 934]	6795	[3715, 1014]
652	[1210, 1211]	2700	[4013, 756]	4748	[3577, 1572]	6796	[7389, 5747]
653	[1212, 1213]	2701	[4014, 758]	4749	[5836, 2769]	6797	[7390, 3328]
654	[1214, 1215]	2702	[4015, 1837]	4750	[5941, 419]	6798	[7391, 2869]
655	[1216, 1217]	2703	[4016, 2568]	4751	[5942, 3291]	6799	[7392, 3621]
656	[1218, 1219]	2704	[4017, 2569]	4752	[3450, 414]	6800	[2883, 3785]
657	[1081, 1220]	2705	[4018, 2338]	4753	[5943, 5944]	6801	[3078, 3911]
658	[1221, 1071]	2706	[4019, 2344]	4754	[5945, 484]	6802	[7393, 3358]
659	[1222, 1223]	2707	[4020, 4021]	4755	[5946, 3530]	6803	[7394, 3757]
660	[1224, 1225]	2708	[4022, 4023]	4756	[5416, 3941]	6804	[7395, 1220]
661	[1226, 1227]	2709	[4024, 1868]	4757	[5947, 1613]	6805	[7396, 1019]
662	[1228, 1229]	2710	[4025, 4026]	4758	[3757, 990]	6806	[7397, 3623]
663	[1230, 469]	2711	[4027, 2444]	4759	[5948, 5324]	6807	[7398, 5647]
664	[1231, 1232]	2712	[755, 4028]	4760	[5949, 5950]	6808	[7399, 3620]
665	[1021, 1233]	2713	[635, 4029]	4761	[5951, 5952]	6809	[7400, 3291]
666	[1234, 1235]	2714	[4030, 4031]	4762	[94, 1224]	6810	[1413, 2777]
667	[1236, 1237]	2715	[4032, 2154]	4763	[5953, 439]	6811	[1079, 2872]
668	[1238, 1239]	2716	[4033, 4034]	4764	[5954, 1078]	6812	[2947, 3521]
669	[1240, 1241]	2717	[4035, 2540]	4765	[3209, 5955]	6813	[7401, 3995]
670	[1242, 1125]	2718	[4036, 4037]	4766	[2911, 5956]	6814	[7402, 402]
671	[1243, 1203]	2719	[4038, 2116]	4767	[3437, 3687]	6815	[7403, 3472]
672	[1244, 1245]	2720	[4039, 2018]	4768	[5493, 3026]	6816	[7404, 5868]
673	[1202, 1246]	2721	[4040, 209]	4769	[5957, 1259]	6817	[7405, 5572]
674	[1247, 1248]	2722	[4041, 4042]	4770	[3759, 1427]	6818	[3046, 7221]
675	[1249, 1250]	2723	[498, 4043]	4771	[1274, 3818]	6819	[278, 3671]
676	[1251, 1252]	2724	[4044, 2237]	4772	[5958, 5810]	6820	[400, 3065]
677	[1087, 1253]	2725	[4045, 4046]	4773	[5959, 385]	6821	[1640, 3431]
678	[1254, 1255]	2726	[4047, 1674]	4774	[3143, 5454]	6822	[7406, 5524]
679	[1256, 1257]	2727	[4048, 1676]	4775	[3863, 1357]	6823	[7407, 3101]
680	[1258, 1259]	2728	[2408, 4049]	4776	[5960, 1499]	6824	[7408, 1519]
681	[1260, 1261]	2729	[4050, 4051]	4777	[5961, 1057]	6825	[5670, 5978]
682	[1262, 1263]	2730	[2626, 1670]	4778	[5962, 3864]	6826	[3166, 3697]
683	[410, 365]	2731	[4052, 1673]	4779	[5963, 3105]	6827	[1485, 3293]
684	[1264, 1265]	2732	[4053, 4054]	4780	[5964, 5965]	6828	[7409, 484]
685	[1263, 1266]	2733	[4055, 891]	4781	[5966, 3812]	6829	[7410, 3786]
686	[1267, 1189]	2734	[4056, 2626]	4782	[1012, 3571]	6830	[7411, 2939]
687	[1268, 455]	2735	[4057, 2589]	4783	[5377, 5967]	6831	[5615, 7247]
688	[1269, 1270]	2736	[1774, 1664]	4784	[5568, 3812]	6832	[7412, 3432]
689	[1271, 1272]	2737	[4058, 4059]	4785	[3290, 3852]	6833	[7413, 1637]
690	[1273, 1274]	2738	[4060, 4061]	4786	[5968, 1178]	6834	[7414, 993]
691	[1275, 1276]	2739	[4062, 719]	4787	[5969, 1059]	6835	[3601, 306]
692	[1277, 1278]	2740	[1909, 721]	4788	[5970, 3024]	6836	[3562, 3205]
693	[1279, 1280]	2741	[160, 788]	4789	[3746, 3976]	6837	[418, 1605]

694	[1281, 1282]	2742	[4063, 222]	4790	[5971, 1407]	6838	[7415, 309]
695	[1283, 1284]	2743	[4064, 645]	4791	[5972, 3219]	6839	[5692, 956]
696	[1285, 1286]	2744	[2316, 2173]	4792	[5973, 5636]	6840	[7416, 1502]
697	[1287, 1288]	2745	[4065, 230]	4793	[5974, 1239]	6841	[7417, 5864]
698	[1289, 1290]	2746	[2234, 4066]	4794	[5975, 3315]	6842	[1644, 5335]
699	[1291, 435]	2747	[4067, 2058]	4795	[338, 5976]	6843	[7418, 24]
700	[1292, 1293]	2748	[2678, 2550]	4796	[5977, 5978]	6844	[7419, 1172]
701	[1294, 1295]	2749	[4068, 4069]	4797	[5979, 1298]	6845	[5537, 490]
702	[1296, 1297]	2750	[4070, 4071]	4798	[3826, 2943]	6846	[6, 932]
703	[1298, 1299]	2751	[4072, 4073]	4799	[5980, 5981]	6847	[7420, 5612]
704	[1300, 1301]	2752	[4074, 2581]	4800	[5982, 5983]	6848	[7421, 3074]
705	[1302, 1092]	2753	[4075, 4076]	4801	[5984, 3994]	6849	[7422, 3638]
706	[1303, 1304]	2754	[4077, 1933]	4802	[5985, 5912]	6850	[2845, 3063]
707	[1117, 1305]	2755	[4078, 4079]	4803	[5978, 5771]	6851	[442, 7262]
708	[1306, 1307]	2756	[2417, 4080]	4804	[3161, 5942]	6852	[7423, 1190]
709	[1308, 1309]	2757	[4081, 4082]	4805	[5986, 2916]	6853	[3489, 383]
710	[1310, 1311]	2758	[4083, 1764]	4806	[5987, 1002]	6854	[7424, 3377]
711	[1312, 1313]	2759	[4084, 4085]	4807	[5988, 1349]	6855	[3132, 1351]
712	[1314, 1315]	2760	[4086, 1671]	4808	[5989, 5845]	6856	[7425, 3509]
713	[1316, 1317]	2761	[4087, 214]	4809	[2832, 1391]	6857	[7426, 2884]
714	[960, 101]	2762	[4009, 4088]	4810	[2834, 1423]	6858	[7427, 3393]
715	[1318, 72]	2763	[4089, 2497]	4811	[5364, 3159]	6859	[3070, 948]
716	[1319, 1166]	2764	[2377, 4090]	4812	[5990, 436]	6860	[3799, 5382]
717	[1320, 955]	2765	[4091, 4092]	4813	[5731, 5991]	6861	[7428, 1345]
718	[1321, 1322]	2766	[4093, 2312]	4814	[5992, 5993]	6862	[7429, 456]
719	[1323, 1324]	2767	[2104, 1871]	4815	[933, 2975]	6863	[7430, 1398]
720	[1325, 1326]	2768	[4094, 4095]	4816	[5994, 1327]	6864	[7431, 5791]
721	[1327, 942]	2769	[4096, 922]	4817	[5995, 3080]	6865	[7432, 346]
722	[1328, 944]	2770	[2044, 4097]	4818	[1075, 1440]	6866	[7433, 3917]
723	[1329, 1330]	2771	[4098, 4099]	4819	[5996, 5997]	6867	[3676, 3714]
724	[1331, 1150]	2772	[4100, 4101]	4820	[5998, 1207]	6868	[7434, 3937]
725	[1332, 1333]	2773	[4102, 155]	4821	[1188, 5999]	6869	[7435, 7180]
726	[1334, 1335]	2774	[2581, 157]	4822	[6000, 3346]	6870	[7436, 1520]
727	[1336, 1337]	2775	[4103, 762]	4823	[1217, 3020]	6871	[7437, 405]
728	[1338, 1219]	2776	[4104, 4105]	4824	[6001, 5525]	6872	[7438, 3323]
729	[1339, 1340]	2777	[4106, 60]	4825	[5837, 1504]	6873	[7439, 3697]
730	[1341, 1342]	2778	[1763, 811]	4826	[6002, 3596]	6874	[7440, 3900]
731	[1343, 1344]	2779	[4107, 1687]	4827	[6003, 3383]	6875	[7290, 3597]
732	[1345, 1346]	2780	[4108, 2670]	4828	[5306, 5511]	6876	[7441, 3438]
733	[982, 1347]	2781	[4109, 1680]	4829	[6004, 6005]	6877	[3624, 7271]
734	[1348, 1349]	2782	[4110, 4111]	4830	[6006, 478]	6878	[5550, 5543]
735	[24, 1350]	2783	[4112, 4113]	4831	[6007, 5482]	6879	[7442, 5651]
736	[1351, 1352]	2784	[4114, 1835]	4832	[1204, 3933]	6880	[5678, 1369]
737	[1353, 1354]	2785	[4034, 835]	4833	[3871, 276]	6881	[7443, 1630]

738	[1355, 1356]	2786	[4115, 4116]	4834	[6008, 2901]	6882	[7444, 1615]
739	[1357, 1358]	2787	[4117, 2498]	4835	[6009, 6010]	6883	[5724, 3462]
740	[1259, 1359]	2788	[4118, 2338]	4836	[1525, 6011]	6884	[1280, 3589]
741	[1360, 1361]	2789	[2098, 4119]	4837	[6012, 5761]	6885	[996, 1045]
742	[1362, 1081]	2790	[4120, 1667]	4838	[3937, 3257]	6886	[5788, 5761]
743	[1363, 1364]	2791	[4121, 2478]	4839	[6013, 3934]	6887	[7445, 7446]
744	[1038, 1365]	2792	[4122, 242]	4840	[1441, 2987]	6888	[2798, 5597]
745	[1366, 1367]	2793	[623, 2497]	4841	[6014, 5624]	6889	[1176, 379]
746	[1368, 1369]	2794	[4123, 1748]	4842	[3609, 1023]	6890	[7447, 2815]
747	[1370, 1264]	2795	[799, 4124]	4843	[3583, 2822]	6891	[7448, 3679]
748	[1371, 1372]	2796	[4125, 1925]	4844	[6015, 5299]	6892	[7449, 1078]
749	[1373, 1374]	2797	[4126, 4127]	4845	[6016, 1348]	6893	[3947, 7180]
750	[1375, 1376]	2798	[4128, 4129]	4846	[1595, 6017]	6894	[2952, 2977]
751	[487, 1377]	2799	[2640, 4130]	4847	[6018, 5776]	6895	[7450, 334]
752	[1378, 1379]	2800	[4131, 4132]	4848	[6019, 370]	6896	[1539, 5651]
753	[1380, 429]	2801	[4133, 4134]	4849	[3369, 6020]	6897	[7451, 3406]
754	[303, 1381]	2802	[4135, 529]	4850	[3382, 5820]	6898	[7452, 347]
755	[1382, 1383]	2803	[4136, 4042]	4851	[6021, 1241]	6899	[7453, 1570]
756	[1384, 1385]	2804	[4137, 4138]	4852	[6022, 1195]	6900	[7454, 1355]
757	[1386, 1387]	2805	[757, 4139]	4853	[3253, 3619]	6901	[1611, 2825]
758	[1388, 1171]	2806	[2628, 1879]	4854	[6023, 5782]	6902	[6135, 2953]
759	[1184, 1389]	2807	[4140, 4141]	4855	[2750, 1293]	6903	[7455, 6027]
760	[1390, 1391]	2808	[4142, 4143]	4856	[6024, 5742]	6904	[6086, 5835]
761	[1392, 1393]	2809	[4144, 234]	4857	[6025, 6026]	6905	[7456, 1186]
762	[1394, 1395]	2810	[520, 2212]	4858	[6027, 3371]	6906	[1132, 3390]
763	[1396, 68]	2811	[4145, 866]	4859	[6028, 6029]	6907	[7457, 2734]
764	[1397, 1398]	2812	[4146, 4147]	4860	[6030, 3073]	6908	[3534, 64]
765	[1067, 1399]	2813	[4148, 4149]	4861	[6031, 3565]	6909	[3651, 1621]
766	[1400, 1401]	2814	[4150, 2452]	4862	[5706, 3612]	6910	[3113, 2796]
767	[1402, 1277]	2815	[4151, 2593]	4863	[6032, 3591]	6911	[7458, 6183]
768	[1403, 1404]	2816	[4152, 2049]	4864	[6033, 1165]	6912	[1497, 3670]
769	[1405, 1111]	2817	[1729, 1956]	4865	[6034, 3971]	6913	[1389, 272]
770	[1406, 1407]	2818	[4153, 4154]	4866	[1172, 2877]	6914	[7459, 1201]
771	[1408, 1409]	2819	[175, 2059]	4867	[6035, 6036]	6915	[7460, 490]
772	[1410, 1411]	2820	[2496, 4155]	4868	[2692, 5983]	6916	[5721, 3168]
773	[1412, 1413]	2821	[4156, 4157]	4869	[1522, 5795]	6917	[7461, 6140]
774	[1414, 1415]	2822	[4158, 2061]	4870	[6037, 5721]	6918	[3230, 1138]
775	[1416, 1189]	2823	[2469, 4159]	4871	[6038, 3701]	6919	[7462, 5991]
776	[258, 1417]	2824	[824, 2181]	4872	[1232, 395]	6920	[3278, 5911]
777	[1418, 28]	2825	[4160, 1972]	4873	[2712, 5303]	6921	[5713, 6129]
778	[1419, 1420]	2826	[4161, 2650]	4874	[6039, 3797]	6922	[7463, 5724]
779	[1421, 1291]	2827	[4162, 4163]	4875	[124, 1371]	6923	[3912, 5364]
780	[372, 1422]	2828	[4164, 870]	4876	[1399, 1065]	6924	[2929, 1248]
781	[1423, 1424]	2829	[4165, 4166]	4877	[106, 3808]	6925	[7464, 1198]

782	[1425, 111]	2830	[4167, 1823]	4878	[5955, 3339]	6926	[7465, 5658]
783	[1426, 83]	2831	[4168, 2347]	4879	[5776, 3367]	6927	[3388, 6279]
784	[1427, 1428]	2832	[4169, 4170]	4880	[2740, 377]	6928	[5991, 1072]
785	[76, 1429]	2833	[4171, 2078]	4881	[1297, 407]	6929	[7466, 6206]
786	[1430, 1431]	2834	[795, 4172]	4882	[6040, 1485]	6930	[1165, 5981]
787	[1432, 947]	2835	[4173, 1967]	4883	[6041, 1041]	6931	[6046, 259]
788	[313, 1433]	2836	[4174, 540]	4884	[6042, 3218]	6932	[7467, 1268]
789	[1434, 1344]	2837	[4175, 2135]	4885	[5967, 330]	6933	[7468, 3753]
790	[1435, 1436]	2838	[4176, 2566]	4886	[325, 353]	6934	[7469, 1222]
791	[1437, 1438]	2839	[4177, 2224]	4887	[6043, 5684]	6935	[3747, 5310]
792	[1439, 322]	2840	[4178, 1807]	4888	[5662, 287]	6936	[7470, 6237]
793	[1440, 1441]	2841	[4179, 4180]	4889	[6044, 1350]	6937	[7471, 1357]
794	[1442, 400]	2842	[2485, 2598]	4890	[430, 1584]	6938	[7472, 1182]
795	[1443, 1006]	2843	[4181, 2564]	4891	[6045, 5307]	6939	[3543, 3848]
796	[1444, 1273]	2844	[4182, 4183]	4892	[1059, 254]	6940	[7473, 3262]
797	[1445, 338]	2845	[4184, 4185]	4893	[1245, 6046]	6941	[7474, 1014]
798	[1446, 1447]	2846	[4092, 4186]	4894	[5574, 2874]	6942	[7475, 3785]
799	[1448, 1449]	2847	[4187, 2548]	4895	[6047, 5457]	6943	[7476, 3124]
800	[1450, 97]	2848	[195, 2453]	4896	[6048, 3921]	6944	[7477, 7226]
801	[1451, 1452]	2849	[1862, 4188]	4897	[457, 6036]	6945	[7478, 3891]
802	[1453, 1454]	2850	[4189, 4190]	4898	[6049, 450]	6946	[7479, 5979]
803	[1455, 1413]	2851	[4191, 2204]	4899	[6050, 2886]	6947	[7480, 1232]
804	[1456, 1457]	2852	[4192, 4193]	4900	[1633, 296]	6948	[1420, 3909]
805	[1458, 1459]	2853	[901, 4194]	4901	[6051, 5350]	6949	[6173, 1608]
806	[1123, 1460]	2854	[4195, 4196]	4902	[5689, 5850]	6950	[7481, 5330]
807	[1461, 1462]	2855	[4197, 4087]	4903	[6052, 2829]	6951	[3418, 7153]
808	[1463, 1464]	2856	[4198, 2451]	4904	[6053, 5705]	6952	[7482, 5643]
809	[1465, 1466]	2857	[4199, 528]	4905	[6054, 5890]	6953	[7483, 5954]
810	[1467, 1468]	2858	[4200, 2653]	4906	[5646, 5414]	6954	[265, 3448]
811	[1469, 1470]	2859	[1789, 4201]	4907	[6055, 26]	6955	[7484, 6061]
812	[1471, 273]	2860	[4202, 781]	4908	[6056, 5626]	6956	[3149, 6058]
813	[1472, 1473]	2861	[2524, 167]	4909	[6057, 6058]	6957	[3015, 6163]
814	[1474, 1475]	2862	[1991, 2487]	4910	[3987, 2740]	6958	[7485, 2756]
815	[1476, 961]	2863	[2604, 4070]	4911	[6059, 283]	6959	[1284, 1388]
816	[1477, 1478]	2864	[4203, 2483]	4912	[6060, 3554]	6960	[7486, 3627]
817	[1479, 1480]	2865	[2421, 1721]	4913	[6061, 5570]	6961	[7487, 5698]
818	[1053, 1481]	2866	[4204, 4205]	4914	[6062, 6063]	6962	[7488, 5763]
819	[1482, 1483]	2867	[4206, 4207]	4915	[3381, 3705]	6963	[2813, 5464]
820	[1484, 1485]	2868	[4208, 1708]	4916	[1044, 1089]	6964	[7489, 93]
821	[1486, 1487]	2869	[4209, 915]	4917	[6064, 3787]	6965	[7490, 3682]
822	[316, 1488]	2870	[787, 4210]	4918	[1168, 2966]	6966	[3891, 358]
823	[1489, 1490]	2871	[4211, 2468]	4919	[5300, 74]	6967	[7491, 1488]
824	[1491, 948]	2872	[4212, 2464]	4920	[1374, 5644]	6968	[7492, 1243]
825	[1089, 1492]	2873	[189, 4213]	4921	[5526, 6065]	6969	[2863, 1333]

826	[1493, 1494]	2874	[4214, 1817]	4922	[6066, 6067]	6970	[7493, 5850]
827	[393, 1495]	2875	[4215, 4216]	4923	[6068, 1287]	6971	[7494, 5904]
828	[1496, 1497]	2876	[4217, 4105]	4924	[1220, 2711]	6972	[7495, 5411]
829	[1498, 1499]	2877	[4218, 2119]	4925	[1156, 6069]	6973	[5760, 2958]
830	[1500, 1501]	2878	[4219, 2422]	4926	[6070, 6071]	6974	[6005, 1021]
831	[1502, 1503]	2879	[4220, 4221]	4927	[945, 5949]	6975	[7496, 5376]
832	[1504, 1505]	2880	[4222, 612]	4928	[6072, 3715]	6976	[7497, 3018]
833	[1506, 1507]	2881	[826, 831]	4929	[436, 104]	6977	[7498, 3707]
834	[998, 1200]	2882	[4223, 2057]	4930	[6073, 2879]	6978	[5335, 7185]
835	[299, 1273]	2883	[4224, 765]	4931	[6074, 5609]	6979	[332, 381]
836	[1508, 261]	2884	[4225, 4226]	4932	[6075, 5341]	6980	[7499, 3037]
837	[1509, 1510]	2885	[4227, 2246]	4933	[5524, 100]	6981	[3818, 2896]
838	[1511, 1512]	2886	[4228, 1726]	4934	[5400, 5560]	6982	[6010, 1207]
839	[1513, 1514]	2887	[572, 4229]	4935	[3961, 458]	6983	[3496, 7141]
840	[1515, 1516]	2888	[4230, 2584]	4936	[6076, 5325]	6984	[7500, 382]
841	[1517, 1249]	2889	[4231, 4232]	4937	[1050, 333]	6985	[1150, 3847]
842	[1518, 1471]	2890	[4233, 816]	4938	[5308, 3212]	6986	[7501, 2938]
843	[1519, 1520]	2891	[4234, 4235]	4939	[6077, 3418]	6987	[2937, 3801]
844	[1521, 1522]	2892	[4236, 804]	4940	[2850, 3621]	6988	[6237, 1052]
845	[1523, 1524]	2893	[4237, 2412]	4941	[3784, 2721]	6989	[1121, 3745]
846	[951, 1525]	2894	[4238, 2292]	4942	[3256, 5568]	6990	[7502, 7127]
847	[1526, 1527]	2895	[4239, 4240]	4943	[3546, 3109]	6991	[3780, 5968]
848	[1528, 1529]	2896	[4241, 2496]	4944	[6078, 1148]	6992	[970, 3471]
849	[1530, 1531]	2897	[734, 2299]	4945	[3685, 3879]	6993	[7503, 1152]
850	[1532, 1533]	2898	[4242, 4243]	4946	[1015, 3308]	6994	[7504, 2941]
851	[1534, 1535]	2899	[868, 807]	4947	[6079, 5448]	6995	[7505, 1556]
852	[1536, 1537]	2900	[4244, 2076]	4948	[6080, 112]	6996	[3168, 3707]
853	[1538, 1539]	2901	[4245, 689]	4949	[6081, 6082]	6997	[7506, 5668]
854	[1540, 1541]	2902	[1938, 1688]	4950	[6083, 3140]	6998	[397, 292]
855	[1542, 1543]	2903	[4246, 2686]	4951	[6084, 3672]	6999	[7507, 3526]
856	[1544, 1545]	2904	[4026, 4247]	4952	[6085, 1548]	7000	[7508, 3989]
857	[1546, 1547]	2905	[4248, 4249]	4953	[6067, 6086]	7001	[7509, 3861]
858	[1524, 1548]	2906	[4250, 204]	4954	[3238, 998]	7002	[7510, 3887]
859	[1549, 1550]	2907	[4251, 4252]	4955	[6087, 1303]	7003	[3641, 1473]
860	[1551, 1552]	2908	[4253, 1886]	4956	[6088, 5743]	7004	[7511, 3543]
861	[1553, 1425]	2909	[4254, 2026]	4957	[6089, 6090]	7005	[7512, 2837]
862	[1554, 1555]	2910	[4255, 4051]	4958	[6091, 6092]	7006	[7513, 5831]
863	[1556, 1557]	2911	[4249, 2647]	4959	[3768, 6093]	7007	[3725, 5854]
864	[1558, 1559]	2912	[2674, 4256]	4960	[426, 5731]	7008	[7514, 2700]
865	[1560, 1561]	2913	[4257, 2274]	4961	[6094, 3178]	7009	[7515, 1206]
866	[1213, 1562]	2914	[4258, 920]	4962	[6095, 3871]	7010	[7516, 3604]
867	[1563, 1461]	2915	[4259, 2017]	4963	[6096, 6097]	7011	[7517, 3411]
868	[1564, 1565]	2916	[4260, 4261]	4964	[6098, 5511]	7012	[1567, 3242]
869	[1566, 1567]	2917	[4262, 917]	4965	[3178, 6099]	7013	[7518, 1374]

870	[1568, 1569]	2918	[4263, 4264]	4966	[6100, 1121]	7014	[7519, 3768]
871	[1570, 926]	2919	[4265, 1749]	4967	[5845, 1564]	7015	[384, 7469]
872	[438, 1571]	2920	[4266, 4267]	4968	[96, 1155]	7016	[3456, 5284]
873	[1572, 1573]	2921	[4268, 1976]	4969	[3310, 5952]	7017	[7520, 3410]
874	[1574, 1575]	2922	[632, 2422]	4970	[6101, 3770]	7018	[3804, 3749]
875	[1576, 1577]	2923	[4269, 4270]	4971	[6102, 5685]	7019	[3002, 1283]
876	[1578, 934]	2924	[2036, 634]	4972	[3296, 6103]	7020	[3446, 5880]
877	[1579, 1580]	2925	[4271, 855]	4973	[6104, 1098]	7021	[7521, 1467]
878	[1581, 1582]	2926	[4272, 4001]	4974	[6105, 23]	7022	[7522, 1497]
879	[1583, 1584]	2927	[4273, 2612]	4975	[6106, 371]	7023	[7523, 3089]
880	[1585, 398]	2928	[4274, 244]	4976	[6107, 2835]	7024	[1494, 7106]
881	[1586, 1102]	2929	[4275, 1744]	4977	[5711, 1068]	7025	[5543, 2800]
882	[1587, 1588]	2930	[4276, 2404]	4978	[1278, 5689]	7026	[7524, 3808]
883	[1501, 1589]	2931	[4277, 4278]	4979	[6108, 1564]	7027	[7525, 3421]
884	[1299, 1590]	2932	[4279, 2176]	4980	[1582, 5402]	7028	[7526, 1347]
885	[1591, 458]	2933	[4280, 4281]	4981	[6109, 1061]	7029	[6315, 5847]
886	[1116, 460]	2934	[595, 2514]	4982	[6110, 5393]	7030	[7527, 3465]
887	[1592, 1593]	2935	[4282, 4283]	4983	[6111, 5397]	7031	[7528, 3278]
888	[1594, 1595]	2936	[4284, 2144]	4984	[6112, 1079]	7032	[7529, 2813]
889	[1460, 1596]	2937	[2687, 2532]	4985	[6113, 3660]	7033	[7530, 7531]
890	[1597, 1598]	2938	[4285, 2643]	4986	[1609, 6097]	7034	[3089, 5619]
891	[941, 1599]	2939	[4286, 2482]	4987	[6114, 1162]	7035	[6036, 6135]
892	[1600, 1601]	2940	[4287, 4192]	4988	[6115, 297]	7036	[7532, 6207]
893	[962, 1602]	2941	[4288, 1850]	4989	[6116, 3324]	7037	[7533, 3665]
894	[1603, 312]	2942	[4289, 4290]	4990	[3740, 3123]	7038	[5636, 2757]
895	[1604, 1605]	2943	[4291, 2408]	4991	[6117, 1492]	7039	[7534, 3739]
896	[1606, 1607]	2944	[4292, 494]	4992	[6118, 2806]	7040	[7535, 3622]
897	[1608, 1609]	2945	[4293, 4294]	4993	[984, 3964]	7041	[7536, 3207]
898	[1610, 1611]	2946	[4295, 4296]	4994	[6119, 3823]	7042	[3285, 304]
899	[1612, 1613]	2947	[2194, 2431]	4995	[6120, 939]	7043	[5593, 1055]
900	[1614, 1615]	2948	[4297, 882]	4996	[3713, 3511]	7044	[7537, 6093]
901	[1429, 481]	2949	[4298, 1842]	4997	[6121, 2722]	7045	[7538, 3553]
902	[350, 1366]	2950	[906, 1854]	4998	[5993, 3261]	7046	[7539, 3125]
903	[1616, 1036]	2951	[4299, 1946]	4999	[6122, 5485]	7047	[7540, 392]
904	[1617, 337]	2952	[1949, 4281]	5000	[3944, 5753]	7048	[3551, 1587]
905	[1618, 1619]	2953	[4300, 2113]	5001	[5560, 3251]	7049	[7541, 3337]
906	[1620, 1621]	2954	[4301, 4302]	5002	[6123, 5825]	7050	[7542, 1195]
907	[1622, 1623]	2955	[4303, 4304]	5003	[6124, 1068]	7051	[7543, 1341]
908	[1624, 1625]	2956	[4305, 4306]	5004	[6125, 5356]	7052	[7544, 2888]
909	[1626, 486]	2957	[2135, 4307]	5005	[6126, 326]	7053	[7271, 3255]
910	[976, 1627]	2958	[4308, 2066]	5006	[6127, 259]	7054	[1428, 2843]
911	[1628, 968]	2959	[132, 4122]	5007	[6128, 1372]	7055	[5431, 1537]
912	[1629, 113]	2960	[4309, 4310]	5008	[6129, 5674]	7056	[5956, 1249]
913	[112, 1630]	2961	[4311, 2306]	5009	[6130, 3052]	7057	[3764, 2790]

914	[1631, 1632]	2962	[4312, 4313]	5010	[968, 5684]	7058	[7545, 5300]
915	[1304, 1633]	2963	[4314, 857]	5011	[6131, 21]	7059	[7546, 1301]
916	[1634, 1635]	2964	[4315, 570]	5012	[6132, 985]	7060	[3181, 3660]
917	[1636, 1637]	2965	[4316, 855]	5013	[6133, 1423]	7061	[5791, 2791]
918	[1638, 1004]	2966	[4317, 2378]	5014	[6134, 6135]	7062	[7547, 3423]
919	[1639, 1640]	2967	[4318, 4088]	5015	[6136, 1572]	7063	[7548, 488]
920	[1641, 1642]	2968	[4319, 599]	5016	[6137, 5311]	7064	[7549, 1236]
921	[1643, 1644]	2969	[4320, 4321]	5017	[6138, 1038]	7065	[1114, 120]
922	[297, 1158]	2970	[4322, 4323]	5018	[3083, 5912]	7066	[7550, 3628]
923	[1645, 1646]	2971	[4324, 4007]	5019	[6139, 956]	7067	[3434, 2892]
924	[1146, 1647]	2972	[4325, 2563]	5020	[6140, 3108]	7068	[7551, 2902]
925	[1037, 1648]	2973	[4326, 2287]	5021	[3235, 256]	7069	[7552, 1127]
926	[1649, 1650]	2974	[4327, 2051]	5022	[5421, 1317]	7070	[7553, 2903]
927	[1651, 1652]	2975	[4328, 55]	5023	[6141, 3113]	7071	[6099, 3591]
928	[1653, 1654]	2976	[4329, 4330]	5024	[6142, 3531]	7072	[2999, 5909]
929	[1655, 1656]	2977	[4331, 508]	5025	[6143, 6144]	7073	[7554, 69]
930	[1657, 1658]	2978	[4281, 4332]	5026	[3965, 5461]	7074	[7555, 1622]
931	[1659, 1660]	2979	[4333, 2556]	5027	[5479, 69]	7075	[3527, 5960]
932	[1661, 1662]	2980	[4216, 2017]	5028	[6145, 5662]	7076	[3705, 66]
933	[14, 248]	2981	[643, 2147]	5029	[6146, 3043]	7077	[7556, 7390]
934	[1663, 1664]	2982	[4334, 4335]	5030	[6147, 1558]	7078	[382, 3095]
935	[1665, 1666]	2983	[4336, 4337]	5031	[2916, 2835]	7079	[7557, 5921]
936	[1667, 1668]	2984	[4338, 850]	5032	[5386, 3298]	7080	[7558, 5358]
937	[1669, 549]	2985	[4339, 4340]	5033	[6148, 3255]	7081	[7446, 2704]
938	[1670, 1671]	2986	[4341, 4342]	5034	[1347, 5493]	7082	[5723, 5879]
939	[1672, 1673]	2987	[2412, 4343]	5035	[2971, 6015]	7083	[7559, 3558]
940	[1674, 1675]	2988	[4344, 2113]	5036	[6149, 430]	7084	[7560, 3325]
941	[1676, 1677]	2989	[1998, 4345]	5037	[6150, 1117]	7085	[7561, 2792]
942	[608, 732]	2990	[4346, 1920]	5038	[6151, 5880]	7086	[7562, 5378]
943	[1678, 668]	2991	[4347, 4348]	5039	[6152, 1156]	7087	[1459, 2888]
944	[1679, 1680]	2992	[4349, 2373]	5040	[6153, 6154]	7088	[3011, 3788]
945	[1681, 562]	2993	[4350, 130]	5041	[6155, 3600]	7089	[7563, 330]
946	[1682, 1683]	2994	[4351, 2093]	5042	[6156, 1008]	7090	[7564, 3767]
947	[1684, 1685]	2995	[4352, 612]	5043	[6157, 1010]	7091	[7565, 1515]
948	[1686, 1687]	2996	[1722, 583]	5044	[315, 1006]	7092	[7566, 5706]
949	[1688, 1689]	2997	[4353, 2081]	5045	[6158, 6159]	7093	[7567, 1310]
950	[1690, 1691]	2998	[4354, 4172]	5046	[6160, 409]	7094	[3409, 3734]
951	[1692, 1693]	2999	[244, 586]	5047	[5669, 3855]	7095	[4261, 4743]
952	[1694, 1695]	3000	[4355, 4356]	5048	[3815, 6161]	7096	[4725, 7568]
953	[1696, 714]	3001	[4357, 500]	5049	[1102, 2699]	7097	[2449, 1691]
954	[1697, 1698]	3002	[4358, 2200]	5050	[6162, 6163]	7098	[7569, 5223]
955	[1699, 1700]	3003	[508, 2328]	5051	[6164, 5852]	7099	[4363, 7570]
956	[1701, 1702]	3004	[1922, 4359]	5052	[6165, 941]	7100	[7571, 2021]
957	[1703, 671]	3005	[4360, 2599]	5053	[3538, 3857]	7101	[720, 2517]

958	[1704, 1705]	3006	[4361, 2417]	5054	[6166, 2819]	7102	[1779, 6944]
959	[1706, 1707]	3007	[4362, 4363]	5055	[5332, 3485]	7103	[7572, 4040]
960	[1708, 204]	3008	[4364, 218]	5056	[6167, 5678]	7104	[7573, 6583]
961	[1709, 1710]	3009	[4365, 4366]	5057	[6020, 3688]	7105	[7574, 4095]
962	[1711, 757]	3010	[4367, 180]	5058	[6168, 3597]	7106	[7575, 6593]
963	[1712, 7]	3011	[4368, 4369]	5059	[5909, 5957]	7107	[7576, 6919]
964	[1713, 1714]	3012	[4370, 4069]	5060	[6169, 5450]	7108	[7577, 4800]
965	[1715, 1716]	3013	[4371, 4372]	5061	[6026, 5460]	7109	[7578, 4857]
966	[1717, 1718]	3014	[4373, 4374]	5062	[5562, 3552]	7110	[7579, 4799]
967	[1719, 1720]	3015	[707, 4375]	5063	[5518, 5400]	7111	[7580, 6887]
968	[1721, 1722]	3016	[4190, 2085]	5064	[6170, 5421]	7112	[7581, 4021]
969	[1723, 1724]	3017	[4376, 2086]	5065	[6171, 3887]	7113	[7582, 6649]
970	[1725, 1726]	3018	[593, 4377]	5066	[6172, 6173]	7114	[169, 1708]
971	[1727, 146]	3019	[4378, 4379]	5067	[6174, 1434]	7115	[7583, 4681]
972	[1728, 1729]	3020	[4380, 668]	5068	[6175, 1490]	7116	[6337, 5042]
973	[1730, 1731]	3021	[4381, 4238]	5069	[6176, 1039]	7117	[7584, 4299]
974	[1732, 1733]	3022	[4382, 2198]	5070	[6177, 451]	7118	[7585, 4750]
975	[1734, 1729]	3023	[4383, 910]	5071	[1520, 5294]	7119	[4080, 7006]
976	[1735, 791]	3024	[4384, 1765]	5072	[6178, 1525]	7120	[4330, 7586]
977	[144, 1736]	3025	[4283, 4385]	5073	[6179, 2744]	7121	[7587, 4058]
978	[32, 1737]	3026	[2285, 4386]	5074	[6180, 2984]	7122	[7588, 2360]
979	[40, 1683]	3027	[4387, 1935]	5075	[6181, 3838]	7123	[7589, 6506]
980	[44, 1738]	3028	[4388, 496]	5076	[1009, 20]	7124	[2277, 1790]
981	[1739, 1740]	3029	[4389, 4049]	5077	[6182, 5765]	7125	[4985, 6977]
982	[1741, 1742]	3030	[4390, 4391]	5078	[3407, 2833]	7126	[812, 7077]
983	[1743, 1744]	3031	[4392, 4393]	5079	[86, 3659]	7127	[2575, 2680]
984	[1745, 1746]	3032	[4394, 1840]	5080	[5667, 6183]	7128	[4536, 2386]
985	[1747, 1748]	3033	[4395, 4216]	5081	[6184, 5470]	7129	[7590, 6633]
986	[1749, 1750]	3034	[4396, 1767]	5082	[3535, 3733]	7130	[7591, 786]
987	[1751, 1752]	3035	[4397, 684]	5083	[3893, 6185]	7131	[7592, 1776]
988	[1753, 1754]	3036	[4398, 2390]	5084	[6186, 3866]	7132	[864, 4465]
989	[1755, 1756]	3037	[783, 55]	5085	[6187, 3147]	7133	[7593, 2534]
990	[1757, 696]	3038	[818, 4399]	5086	[6188, 6189]	7134	[2386, 747]
991	[1758, 1759]	3039	[4400, 2166]	5087	[2720, 6092]	7135	[7594, 7595]
992	[1760, 1761]	3040	[2645, 4401]	5088	[5879, 2818]	7136	[7596, 2583]
993	[1762, 1763]	3041	[535, 4402]	5089	[6190, 1263]	7137	[7597, 8]
994	[1764, 718]	3042	[4403, 2032]	5090	[6191, 2919]	7138	[7598, 5006]
995	[1765, 1766]	3043	[4404, 4405]	5091	[6185, 3561]	7139	[7599, 2022]
996	[1767, 1768]	3044	[2359, 4406]	5092	[6192, 3882]	7140	[7600, 6528]
997	[1769, 1770]	3045	[4407, 4408]	5093	[3495, 1561]	7141	[7601, 144]
998	[1771, 1772]	3046	[1989, 2424]	5094	[6193, 6194]	7142	[2346, 4022]
999	[1773, 1774]	3047	[512, 2235]	5095	[3379, 3490]	7143	[7602, 5234]
1000	[1775, 44]	3048	[633, 2039]	5096	[6195, 1367]	7144	[7603, 153]
1001	[1776, 1777]	3049	[4409, 4410]	5097	[6196, 1587]	7145	[4913, 4891]

1002	[1778, 1779]	3050	[4411, 506]	5098	[6197, 5744]	7146	[4911, 6879]
1003	[1780, 1781]	3051	[2341, 543]	5099	[6198, 5836]	7147	[583, 2064]
1004	[1782, 1783]	3052	[2627, 1674]	5100	[3949, 5635]	7148	[7604, 7605]
1005	[1784, 1785]	3053	[4412, 4325]	5101	[1588, 6173]	7149	[6648, 5074]
1006	[1786, 1787]	3054	[4413, 2470]	5102	[5322, 2726]	7150	[2344, 4157]
1007	[610, 240]	3055	[4414, 4132]	5103	[6199, 1460]	7151	[7606, 505]
1008	[1788, 1789]	3056	[2481, 2321]	5104	[6200, 5306]	7152	[7607, 1867]
1009	[1790, 1791]	3057	[581, 7]	5105	[5779, 6201]	7153	[7608, 4003]
1010	[1792, 1793]	3058	[4415, 4416]	5106	[3793, 5358]	7154	[4712, 4755]
1011	[183, 650]	3059	[4417, 2015]	5107	[6202, 1311]	7155	[58, 7033]
1012	[589, 1794]	3060	[4418, 805]	5108	[5624, 1049]	7156	[1720, 7605]
1013	[1795, 1796]	3061	[4419, 4420]	5109	[6203, 452]	7157	[4127, 7609]
1014	[1797, 1798]	3062	[496, 4163]	5110	[3445, 6204]	7158	[2619, 4748]
1015	[1799, 1800]	3063	[4421, 2361]	5111	[2941, 279]	7159	[7610, 6410]
1016	[1801, 1802]	3064	[4422, 2280]	5112	[3565, 3166]	7160	[6499, 6372]
1017	[1803, 812]	3065	[4423, 1679]	5113	[3336, 5685]	7161	[7611, 4586]
1018	[1804, 1805]	3066	[4424, 4425]	5114	[5952, 371]	7162	[7612, 7568]
1019	[1806, 1807]	3067	[4426, 4103]	5115	[1462, 1645]	7163	[7613, 4032]
1020	[1808, 1809]	3068	[4427, 4083]	5116	[3866, 3843]	7164	[7614, 5104]
1021	[1810, 722]	3069	[4428, 2646]	5117	[6205, 3042]	7165	[7615, 2439]
1022	[1811, 1812]	3070	[4429, 1688]	5118	[6206, 3017]	7166	[7616, 2026]
1023	[1813, 1814]	3071	[4430, 4431]	5119	[3824, 6207]	7167	[7617, 4245]
1024	[1815, 1796]	3072	[4101, 1714]	5120	[6208, 3441]	7168	[832, 6897]
1025	[1816, 1817]	3073	[4432, 2474]	5121	[5893, 6029]	7169	[7618, 1709]
1026	[1818, 1819]	3074	[2131, 2395]	5122	[6209, 994]	7170	[232, 1929]
1027	[1820, 159]	3075	[4433, 4434]	5123	[1063, 5671]	7171	[6512, 5192]
1028	[1821, 1822]	3076	[2102, 1732]	5124	[6210, 407]	7172	[677, 7619]
1029	[1823, 1824]	3077	[4435, 4436]	5125	[6211, 3213]	7173	[7620, 4824]
1030	[1825, 1826]	3078	[4437, 738]	5126	[6212, 6213]	7174	[5238, 4204]
1031	[1827, 1828]	3079	[4438, 2011]	5127	[6214, 1313]	7175	[7621, 6926]
1032	[1829, 1830]	3080	[886, 235]	5128	[3324, 1243]	7176	[7622, 6975]
1033	[1831, 1717]	3081	[4439, 4440]	5129	[6215, 1562]	7177	[2494, 779]
1034	[1832, 1833]	3082	[4186, 54]	5130	[356, 434]	7178	[7064, 666]
1035	[1834, 1835]	3083	[4441, 2639]	5131	[6216, 3056]	7179	[7623, 2296]
1036	[1836, 1837]	3084	[4442, 2301]	5132	[6217, 3676]	7180	[7624, 6335]
1037	[1838, 644]	3085	[4443, 2486]	5133	[6207, 3573]	7181	[7625, 5050]
1038	[882, 1839]	3086	[4444, 2487]	5134	[6218, 971]	7182	[6680, 803]
1039	[1840, 1841]	3087	[2508, 4445]	5135	[6058, 1118]	7183	[7626, 4097]
1040	[1842, 1843]	3088	[4185, 1746]	5136	[6219, 3535]	7184	[2550, 2656]
1041	[1844, 572]	3089	[4243, 4446]	5137	[6220, 5338]	7185	[7627, 4254]
1042	[1845, 1846]	3090	[4201, 4447]	5138	[6221, 3970]	7186	[7628, 4029]
1043	[1847, 835]	3091	[2319, 2061]	5139	[6222, 3729]	7187	[7629, 61]
1044	[525, 1848]	3092	[4448, 2669]	5140	[3192, 3981]	7188	[2000, 4535]
1045	[1849, 1850]	3093	[2147, 4449]	5141	[6223, 5728]	7189	[7630, 2521]

1046	[1851, 1852]	3094	[4450, 1722]	5142	[6224, 2892]	7190	[1693, 4589]
1047	[1853, 1854]	3095	[4451, 4452]	5143	[6225, 3774]	7191	[7631, 5033]
1048	[1855, 1856]	3096	[2425, 4325]	5144	[6226, 1188]	7192	[7632, 4705]
1049	[1857, 1858]	3097	[4453, 2642]	5145	[6194, 2919]	7193	[7633, 1770]
1050	[1859, 644]	3098	[4454, 4309]	5146	[6227, 5632]	7194	[7634, 4720]
1051	[808, 1860]	3099	[2536, 231]	5147	[3180, 3664]	7195	[7635, 6494]
1052	[1861, 1862]	3100	[4455, 2421]	5148	[5668, 340]	7196	[7074, 7052]
1053	[1863, 1695]	3101	[4456, 517]	5149	[6228, 6229]	7197	[4589, 4142]
1054	[1864, 1865]	3102	[4457, 820]	5150	[6230, 3332]	7198	[7636, 2346]
1055	[1866, 1692]	3103	[2012, 4458]	5151	[6231, 6232]	7199	[7637, 4297]
1056	[1867, 1868]	3104	[4459, 4068]	5152	[2803, 1395]	7200	[7638, 4831]
1057	[1869, 721]	3105	[4460, 4316]	5153	[6233, 3488]	7201	[7639, 4765]
1058	[1742, 1870]	3106	[550, 1943]	5154	[6234, 5843]	7202	[7640, 6687]
1059	[1871, 1872]	3107	[4461, 4018]	5155	[6235, 3375]	7203	[7641, 521]
1060	[1873, 1874]	3108	[4462, 4270]	5156	[6236, 1457]	7204	[2251, 4102]
1061	[1875, 1876]	3109	[4463, 837]	5157	[2741, 3379]	7205	[7642, 6734]
1062	[167, 1877]	3110	[1738, 2167]	5158	[5554, 6237]	7206	[7643, 4676]
1063	[1878, 1879]	3111	[2476, 4464]	5159	[2746, 5979]	7207	[7644, 6578]
1064	[1880, 507]	3112	[4465, 4466]	5160	[6238, 6114]	7208	[7645, 2042]
1065	[1881, 586]	3113	[4467, 4468]	5161	[1246, 444]	7209	[6677, 6745]
1066	[1882, 1883]	3114	[4469, 2565]	5162	[6239, 110]	7210	[7646, 4359]
1067	[1884, 868]	3115	[1781, 2217]	5163	[6093, 3668]	7211	[4857, 4905]
1068	[1885, 1763]	3116	[4470, 2613]	5164	[6240, 1420]	7212	[7647, 6554]
1069	[1886, 1887]	3117	[4471, 251]	5165	[6241, 3734]	7213	[4431, 1983]
1070	[1888, 1889]	3118	[4472, 1932]	5166	[6242, 5535]	7214	[7648, 4232]
1071	[1890, 1891]	3119	[4473, 2613]	5167	[3341, 97]	7215	[664, 4816]
1072	[1892, 1893]	3120	[4474, 4475]	5168	[6243, 1636]	7216	[7649, 4305]
1073	[537, 502]	3121	[4476, 4477]	5169	[6244, 1402]	7217	[7650, 4891]
1074	[1894, 1895]	3122	[4478, 4006]	5170	[6245, 1417]	7218	[7651, 51]
1075	[1896, 1897]	3123	[4479, 1760]	5171	[6246, 1596]	7219	[7036, 7079]
1076	[1898, 1899]	3124	[2561, 1816]	5172	[955, 92]	7220	[7652, 1901]
1077	[1900, 1676]	3125	[2563, 1783]	5173	[1478, 415]	7221	[7653, 4406]
1078	[1901, 1902]	3126	[4480, 4442]	5174	[6247, 5855]	7222	[7586, 2618]
1079	[1903, 1862]	3127	[4481, 2551]	5175	[6248, 1285]	7223	[7654, 2425]
1080	[1716, 1904]	3128	[4482, 2318]	5176	[3472, 6249]	7224	[7655, 803]
1081	[1905, 1816]	3129	[4483, 4484]	5177	[3956, 3763]	7225	[4820, 6664]
1082	[1906, 1907]	3130	[4485, 4092]	5178	[6250, 3483]	7226	[7656, 2172]
1083	[1908, 1909]	3131	[4486, 4487]	5179	[6251, 3671]	7227	[7657, 4102]
1084	[1910, 1911]	3132	[1752, 2318]	5180	[5597, 2984]	7228	[7658, 4204]
1085	[1085, 1085]	3133	[4488, 4489]	5181	[6252, 361]	7229	[6334, 6653]
1086	[199, 1912]	3134	[1936, 2622]	5182	[6253, 3186]	7230	[7659, 2356]
1087	[1913, 1914]	3135	[4490, 2174]	5183	[6254, 5598]	7231	[7660, 6952]
1088	[1915, 1916]	3136	[4491, 4492]	5184	[6255, 6256]	7232	[6734, 2310]
1089	[1917, 1918]	3137	[4493, 4375]	5185	[6065, 2950]	7233	[6936, 914]

1090	[1919, 1920]	3138	[4494, 4495]	5186	[6257, 5368]	7234	[7661, 227]
1091	[1921, 1922]	3139	[4496, 1965]	5187	[6258, 3852]	7235	[7662, 4909]
1092	[1923, 1924]	3140	[8, 518]	5188	[6259, 5635]	7236	[846, 4725]
1093	[1925, 1926]	3141	[4497, 2582]	5189	[6260, 1036]	7237	[7663, 6936]
1094	[1927, 1928]	3142	[4498, 2588]	5190	[6261, 1474]	7238	[7664, 6456]
1095	[1929, 1930]	3143	[1812, 2490]	5191	[6262, 2712]	7239	[7665, 5003]
1096	[1656, 1931]	3144	[4499, 2140]	5192	[6263, 1240]	7240	[7666, 4743]
1097	[1932, 1933]	3145	[4500, 4501]	5193	[6264, 6255]	7241	[7667, 2055]
1098	[895, 159]	3146	[4502, 1841]	5194	[3375, 299]	7242	[1841, 4845]
1099	[1934, 872]	3147	[4503, 4504]	5195	[6097, 456]	7243	[7668, 4305]
1100	[1935, 1936]	3148	[4505, 4506]	5196	[6265, 1509]	7244	[6955, 4491]
1101	[1937, 1938]	3149	[2263, 4507]	5197	[6266, 5844]	7245	[7669, 6378]
1102	[1939, 1940]	3150	[4508, 4119]	5198	[5414, 3979]	7246	[7670, 7039]
1103	[1941, 581]	3151	[761, 2432]	5199	[6267, 1164]	7247	[810, 4925]
1104	[1942, 1943]	3152	[4509, 58]	5200	[3005, 3409]	7248	[6903, 2128]
1105	[1944, 706]	3153	[4410, 2481]	5201	[5339, 3086]	7249	[4738, 4191]
1106	[1945, 1946]	3154	[4510, 2210]	5202	[3364, 3373]	7250	[7671, 6509]
1107	[1947, 576]	3155	[4511, 2645]	5203	[453, 3576]	7251	[6500, 6571]
1108	[1948, 1949]	3156	[4391, 2247]	5204	[6268, 70]	7252	[7672, 7673]
1109	[1950, 1951]	3157	[4512, 2455]	5205	[6269, 3100]	7253	[7674, 6745]
1110	[1952, 838]	3158	[4513, 4514]	5206	[6270, 2779]	7254	[7675, 688]
1111	[1953, 1876]	3159	[4515, 4226]	5207	[1225, 6010]	7255	[7676, 817]
1112	[1954, 1955]	3160	[4066, 4516]	5208	[6271, 6]	7256	[7677, 7678]
1113	[1956, 1957]	3161	[4517, 814]	5209	[6272, 352]	7257	[2466, 1882]
1114	[1958, 1959]	3162	[4518, 2089]	5210	[2800, 6189]	7258	[7679, 6485]
1115	[1960, 871]	3163	[2530, 2161]	5211	[6273, 3959]	7259	[7680, 5136]
1116	[1961, 873]	3164	[4264, 4262]	5212	[2694, 959]	7260	[7681, 160]
1117	[665, 1962]	3165	[4519, 4520]	5213	[6274, 1571]	7261	[7682, 4240]
1118	[1963, 175]	3166	[2114, 4521]	5214	[3738, 1270]	7262	[7683, 4751]
1119	[1964, 1965]	3167	[2351, 676]	5215	[6275, 3998]	7263	[7684, 604]
1120	[1966, 1967]	3168	[4522, 653]	5216	[6276, 1433]	7264	[4883, 6621]
1121	[1968, 1852]	3169	[2471, 1780]	5217	[6277, 5708]	7265	[7685, 1834]
1122	[1969, 1970]	3170	[4523, 4524]	5218	[3628, 3265]	7266	[7686, 2423]
1123	[1971, 1972]	3171	[4525, 4526]	5219	[6278, 6279]	7267	[2515, 5187]
1124	[1973, 1974]	3172	[150, 4527]	5220	[1139, 3320]	7268	[4310, 7687]
1125	[1975, 1976]	3173	[4528, 4529]	5221	[1095, 3838]	7269	[5065, 2583]
1126	[1977, 1978]	3174	[4530, 4531]	5222	[6280, 2730]	7270	[7688, 2168]
1127	[1979, 1980]	3175	[4532, 2618]	5223	[6281, 5619]	7271	[7689, 6656]
1128	[1981, 1975]	3176	[791, 1966]	5224	[6282, 5546]	7272	[7690, 7609]
1129	[240, 1979]	3177	[4533, 4534]	5225	[6283, 5801]	7273	[7691, 719]
1130	[1883, 1971]	3178	[4535, 4536]	5226	[6284, 3958]	7274	[7692, 2111]
1131	[1982, 1983]	3179	[4537, 2295]	5227	[6285, 3322]	7275	[1668, 541]
1132	[1984, 1897]	3180	[4538, 4539]	5228	[3258, 5562]	7276	[5075, 5239]
1133	[1985, 1986]	3181	[4001, 4540]	5229	[6286, 976]	7277	[7693, 5146]

1134	[1987, 887]	3182	[4541, 672]	5230	[6287, 3084]	7278	[6376, 6337]
1135	[1988, 1989]	3183	[4542, 2345]	5231	[3678, 2828]	7279	[7694, 885]
1136	[1666, 1990]	3184	[2392, 4543]	5232	[6288, 3566]	7280	[171, 525]
1137	[1650, 1991]	3185	[4544, 1839]	5233	[6289, 401]	7281	[4405, 6538]
1138	[1992, 156]	3186	[4369, 4545]	5234	[6290, 3420]	7282	[1957, 6452]
1139	[1993, 1994]	3187	[4546, 2116]	5235	[2729, 5320]	7283	[7695, 6329]
1140	[1995, 1996]	3188	[4547, 2118]	5236	[6291, 1253]	7284	[500, 4949]
1141	[1997, 1998]	3189	[4548, 4549]	5237	[1565, 6090]	7285	[7678, 6876]
1142	[1999, 2000]	3190	[899, 1667]	5238	[6292, 6293]	7286	[7696, 6377]
1143	[2001, 2002]	3191	[4550, 4084]	5239	[6294, 5891]	7287	[7697, 5279]
1144	[2003, 2004]	3192	[4551, 4552]	5240	[6295, 1286]	7288	[4213, 4225]
1145	[2005, 2006]	3193	[4553, 1947]	5241	[6296, 3592]	7289	[7698, 5064]
1146	[558, 2007]	3194	[4554, 4313]	5242	[6297, 1449]	7290	[7699, 4340]
1147	[2008, 923]	3195	[4555, 4174]	5243	[3146, 2952]	7291	[7700, 1806]
1148	[2009, 2010]	3196	[4556, 741]	5244	[292, 326]	7292	[1850, 6639]
1149	[2011, 2012]	3197	[4557, 49]	5245	[6298, 5531]	7293	[4445, 725]
1150	[2013, 2014]	3198	[4558, 2521]	5246	[98, 1547]	7294	[7701, 7702]
1151	[2015, 1833]	3199	[2068, 1700]	5247	[465, 1622]	7295	[7703, 4256]
1152	[2016, 546]	3200	[4559, 186]	5248	[6299, 384]	7296	[6953, 1759]
1153	[2017, 2018]	3201	[4560, 2396]	5249	[1398, 3043]	7297	[7704, 4565]
1154	[2019, 155]	3202	[4561, 699]	5250	[5747, 5831]	7298	[7705, 5187]
1155	[2020, 673]	3203	[4562, 1800]	5251	[6300, 940]	7299	[6697, 6604]
1156	[2021, 593]	3204	[1924, 2390]	5252	[6301, 472]	7300	[7706, 4465]
1157	[2022, 2023]	3205	[4563, 1764]	5253	[6302, 1416]	7301	[7707, 7074]
1158	[2024, 897]	3206	[4564, 1728]	5254	[1356, 3699]	7302	[4814, 7064]
1159	[2004, 2025]	3207	[4565, 4566]	5255	[3653, 3998]	7303	[5056, 7708]
1160	[2026, 2027]	3208	[639, 199]	5256	[6303, 6103]	7304	[7709, 772]
1161	[2028, 2029]	3209	[4567, 1978]	5257	[6304, 3301]	7305	[7710, 2567]
1162	[2030, 1819]	3210	[4568, 4569]	5258	[6305, 3185]	7306	[6372, 6456]
1163	[2031, 1949]	3211	[4570, 726]	5259	[6306, 5326]	7307	[7711, 5029]
1164	[215, 2032]	3212	[4571, 195]	5260	[6307, 3257]	7308	[7052, 2130]
1165	[2033, 2034]	3213	[4572, 566]	5261	[3482, 3914]	7309	[893, 906]
1166	[2035, 2036]	3214	[1662, 148]	5262	[6308, 354]	7310	[2279, 7712]
1167	[2037, 231]	3215	[4573, 2298]	5263	[6309, 3179]	7311	[7713, 7712]
1168	[2038, 571]	3216	[4574, 4575]	5264	[6310, 5352]	7312	[7714, 4643]
1169	[2039, 2040]	3217	[4576, 1787]	5265	[6311, 122]	7313	[1680, 6768]
1170	[2041, 1765]	3218	[4577, 533]	5266	[6312, 1468]	7314	[5165, 2434]
1171	[2042, 843]	3219	[619, 4405]	5267	[3832, 1477]	7315	[7715, 5045]
1172	[2043, 2044]	3220	[4578, 2064]	5268	[6313, 288]	7316	[7716, 580]
1173	[2045, 1890]	3221	[4579, 4580]	5269	[6314, 6315]	7317	[7717, 6735]
1174	[2046, 2047]	3222	[4581, 2539]	5270	[6316, 88]	7318	[7718, 7570]
1175	[2048, 528]	3223	[4582, 10]	5271	[6317, 1353]	7319	[888, 693]
1176	[2049, 2050]	3224	[4583, 2106]	5272	[6318, 5494]	7320	[7719, 7010]
1177	[2051, 2052]	3225	[4584, 4585]	5273	[6319, 5976]	7321	[7720, 6782]

1178	[2053, 692]	3226	[4586, 2673]	5274	[6320, 349]	7322	[4506, 4705]
1179	[2054, 2055]	3227	[4587, 4201]	5275	[6321, 3082]	7323	[242, 4533]
1180	[2056, 2050]	3228	[4588, 4589]	5276	[6322, 3574]	7324	[7721, 143]
1181	[2057, 2058]	3229	[4590, 4591]	5277	[3063, 1508]	7325	[2314, 6343]
1182	[2059, 2060]	3230	[4592, 1993]	5278	[1480, 3682]	7326	[7722, 6715]
1183	[2061, 724]	3231	[4593, 1957]	5279	[6323, 5960]	7327	[7723, 5097]
1184	[2062, 830]	3232	[4594, 4504]	5280	[6324, 4449]	7328	[858, 2088]
1185	[2063, 213]	3233	[4595, 899]	5281	[6325, 4923]	7329	[6623, 6942]
1186	[2064, 2009]	3234	[4596, 2105]	5282	[657, 4013]	7330	[7724, 2572]
1187	[2065, 177]	3235	[2249, 4154]	5283	[6326, 5075]	7331	[6649, 2350]
1188	[872, 2066]	3236	[4597, 2186]	5284	[6327, 697]	7332	[4458, 7062]
1189	[2067, 782]	3237	[4598, 615]	5285	[6328, 1737]	7333	[7725, 2090]
1190	[772, 2068]	3238	[4599, 2084]	5286	[6329, 6330]	7334	[7726, 7586]
1191	[2069, 2070]	3239	[4307, 512]	5287	[6331, 5071]	7335	[7727, 4889]
1192	[2071, 2072]	3240	[4600, 4183]	5288	[6332, 6333]	7336	[7728, 5042]
1193	[728, 2073]	3241	[4601, 2112]	5289	[38, 4436]	7337	[7729, 6960]
1194	[2074, 776]	3242	[4602, 2059]	5290	[4580, 6334]	7338	[6735, 4364]
1195	[2075, 2076]	3243	[4603, 4604]	5291	[5219, 4728]	7339	[7730, 1658]
1196	[2077, 2078]	3244	[4605, 1890]	5292	[5210, 6335]	7340	[7731, 2281]
1197	[2079, 2080]	3245	[1770, 4606]	5293	[6336, 6337]	7341	[7732, 2001]
1198	[2081, 2082]	3246	[4607, 4543]	5294	[6338, 6339]	7342	[1687, 4908]
1199	[1914, 2083]	3247	[2052, 764]	5295	[4614, 2041]	7343	[4699, 6946]
1200	[2084, 2047]	3248	[1766, 686]	5296	[1754, 4346]	7344	[7733, 6903]
1201	[2085, 647]	3249	[4608, 2453]	5297	[4172, 4245]	7345	[4029, 1735]
1202	[2086, 2087]	3250	[4609, 4302]	5298	[6340, 4361]	7346	[7734, 2459]
1203	[2088, 1795]	3251	[4610, 182]	5299	[1759, 4764]	7347	[2597, 4078]
1204	[2089, 1922]	3252	[1930, 4611]	5300	[4514, 6341]	7348	[4880, 192]
1205	[2090, 643]	3253	[4612, 169]	5301	[738, 510]	7349	[7735, 6864]
1206	[1976, 2091]	3254	[4613, 4614]	5302	[1695, 4295]	7350	[4464, 4373]
1207	[2092, 2073]	3255	[4615, 4572]	5303	[6342, 4030]	7351	[7736, 4845]
1208	[1848, 2093]	3256	[4616, 4617]	5304	[6343, 6344]	7352	[7737, 2507]
1209	[686, 2094]	3257	[60, 4618]	5305	[6345, 6346]	7353	[7738, 4773]
1210	[2095, 2096]	3258	[4619, 2010]	5306	[6347, 6348]	7354	[7739, 4122]
1211	[2097, 2098]	3259	[4620, 2049]	5307	[6349, 4754]	7355	[5025, 4595]
1212	[1777, 2099]	3260	[4393, 2451]	5308	[1702, 4572]	7356	[7740, 4533]
1213	[2100, 1893]	3261	[4621, 4622]	5309	[6350, 2410]	7357	[7741, 6869]
1214	[2101, 2102]	3262	[207, 4020]	5310	[6351, 4461]	7358	[6883, 4979]
1215	[2103, 2104]	3263	[187, 2221]	5311	[4800, 900]	7359	[7742, 2413]
1216	[2105, 2106]	3264	[4623, 4220]	5312	[205, 2630]	7360	[7743, 214]
1217	[2107, 2108]	3265	[4624, 2358]	5313	[6352, 4215]	7361	[7744, 4901]
1218	[2109, 2110]	3266	[4625, 2288]	5314	[6353, 507]	7362	[7745, 6481]
1219	[2111, 2112]	3267	[4626, 4627]	5315	[4141, 152]	7363	[191, 2507]
1220	[1904, 755]	3268	[4628, 4629]	5316	[6354, 4699]	7364	[4655, 4643]
1221	[2113, 2114]	3269	[4054, 4052]	5317	[6355, 1777]	7365	[7746, 2211]

1222	[2115, 236]	3270	[4348, 2251]	5318	[6356, 750]	7366	[4149, 6433]
1223	[2116, 194]	3271	[4630, 4566]	5319	[6357, 6358]	7367	[4440, 7649]
1224	[2117, 913]	3272	[4631, 4299]	5320	[4049, 4054]	7368	[7747, 7748]
1225	[2118, 2119]	3273	[4632, 4633]	5321	[4051, 6359]	7369	[5038, 7749]
1226	[1733, 2120]	3274	[4634, 2098]	5322	[6360, 4043]	7370	[5126, 137]
1227	[2121, 2122]	3275	[4635, 4636]	5323	[6361, 4050]	7371	[6687, 4111]
1228	[2123, 2124]	3276	[2310, 860]	5324	[4043, 891]	7372	[7750, 2438]
1229	[2125, 535]	3277	[4637, 62]	5325	[6359, 4477]	7373	[7751, 666]
1230	[2126, 2127]	3278	[2541, 4638]	5326	[6362, 6359]	7374	[6344, 2327]
1231	[2128, 2129]	3279	[655, 4585]	5327	[4132, 6363]	7375	[7752, 6874]
1232	[2130, 1784]	3280	[4639, 1962]	5328	[6364, 4558]	7376	[7753, 4466]
1233	[1809, 2131]	3281	[4640, 4641]	5329	[6365, 6366]	7377	[7754, 7079]
1234	[2132, 2133]	3282	[1756, 4642]	5330	[6367, 2241]	7378	[681, 6952]
1235	[2134, 2135]	3283	[2007, 171]	5331	[6368, 2182]	7379	[7755, 590]
1236	[2136, 2137]	3284	[4643, 4330]	5332	[6369, 632]	7380	[2534, 2601]
1237	[2138, 2139]	3285	[4644, 567]	5333	[6370, 764]	7381	[4591, 7756]
1238	[712, 1760]	3286	[4645, 4646]	5334	[6371, 6372]	7382	[7757, 2335]
1239	[2140, 2141]	3287	[4647, 1762]	5335	[6373, 5121]	7383	[7758, 4311]
1240	[2142, 1990]	3288	[4475, 2123]	5336	[6374, 5092]	7384	[1895, 4497]
1241	[2143, 11]	3289	[2244, 217]	5337	[1718, 4988]	7385	[7759, 4949]
1242	[2144, 2090]	3290	[2060, 4648]	5338	[6375, 558]	7386	[6363, 1808]
1243	[2145, 2089]	3291	[814, 1754]	5339	[4531, 6376]	7387	[5060, 4182]
1244	[2146, 2147]	3292	[2374, 2587]	5340	[502, 4094]	7388	[7039, 2438]
1245	[2148, 2149]	3293	[4649, 4650]	5341	[6377, 4261]	7389	[7760, 2130]
1246	[647, 672]	3294	[4651, 2559]	5342	[6378, 2572]	7390	[7761, 6576]
1247	[2150, 2151]	3295	[4652, 2148]	5343	[884, 2262]	7391	[7762, 2634]
1248	[2152, 807]	3296	[4653, 2173]	5344	[876, 2348]	7392	[2458, 4958]
1249	[2153, 2154]	3297	[4134, 912]	5345	[4332, 1652]	7393	[7702, 6782]
1250	[2155, 2079]	3298	[4654, 1828]	5346	[6379, 5273]	7394	[4900, 5154]
1251	[2156, 2157]	3299	[4646, 4655]	5347	[6380, 5136]	7395	[702, 6823]
1252	[2158, 194]	3300	[4656, 4010]	5348	[6381, 6382]	7396	[7763, 6637]
1253	[2159, 2160]	3301	[4540, 4657]	5349	[6383, 2369]	7397	[7764, 2254]
1254	[2161, 2162]	3302	[2172, 4658]	5350	[6384, 4525]	7398	[7765, 5149]
1255	[2163, 601]	3303	[4659, 2239]	5351	[621, 4129]	7399	[4854, 4926]
1256	[2164, 1811]	3304	[4660, 4661]	5352	[1996, 659]	7400	[7766, 6524]
1257	[2165, 2166]	3305	[4662, 2673]	5353	[6385, 1657]	7401	[2027, 7701]
1258	[2167, 2168]	3306	[4099, 1679]	5354	[6386, 2628]	7402	[7767, 6950]
1259	[2169, 557]	3307	[10, 519]	5355	[6387, 4046]	7403	[5062, 4799]
1260	[2170, 140]	3308	[4663, 2079]	5356	[6388, 605]	7404	[6330, 6814]
1261	[2171, 2172]	3309	[4664, 2676]	5357	[6389, 5004]	7405	[7768, 4497]
1262	[2173, 2070]	3310	[4193, 4339]	5358	[6390, 2347]	7406	[7769, 6338]
1263	[2174, 903]	3311	[4665, 2651]	5359	[6391, 2311]	7407	[7770, 4140]
1264	[2175, 1843]	3312	[4666, 1791]	5360	[2236, 6346]	7408	[7771, 4837]
1265	[2176, 2177]	3313	[1874, 4190]	5361	[2198, 771]	7409	[2361, 174]

1266	[2178, 2145]	3314	[146, 2148]	5362	[6392, 6393]	7410	[7749, 1725]
1267	[203, 2179]	3315	[4071, 4468]	5363	[6394, 128]	7411	[7772, 4142]
1268	[2180, 527]	3316	[2612, 4487]	5364	[6395, 4507]	7412	[4849, 7773]
1269	[2181, 2182]	3317	[4667, 769]	5365	[6396, 4078]	7413	[7774, 4356]
1270	[2183, 877]	3318	[4668, 2540]	5366	[6397, 1971]	7414	[2488, 7084]
1271	[2184, 1823]	3319	[4669, 783]	5367	[152, 4034]	7415	[2253, 2495]
1272	[2185, 179]	3320	[4670, 2493]	5368	[6398, 1979]	7416	[7775, 2197]
1273	[578, 657]	3321	[2455, 4073]	5369	[6399, 201]	7417	[7776, 6616]
1274	[2186, 2108]	3322	[4671, 710]	5370	[6400, 594]	7418	[7595, 5258]
1275	[2187, 2188]	3323	[4527, 2086]	5371	[6401, 137]	7419	[7777, 674]
1276	[2189, 1675]	3324	[903, 2144]	5372	[924, 2038]	7420	[7778, 6383]
1277	[2190, 1694]	3325	[4672, 4673]	5373	[6402, 2495]	7421	[736, 6555]
1278	[2191, 2192]	3326	[4674, 4675]	5374	[6403, 5096]	7422	[2528, 6504]
1279	[2193, 2194]	3327	[1868, 4676]	5375	[6404, 2087]	7423	[2257, 153]
1280	[2195, 733]	3328	[4677, 2637]	5376	[6405, 587]	7424	[7779, 4326]
1281	[2196, 2197]	3329	[4678, 4679]	5377	[6406, 636]	7425	[6541, 6374]
1282	[730, 2198]	3330	[4680, 4210]	5378	[6407, 50]	7426	[7780, 4227]
1283	[2199, 223]	3331	[4543, 4113]	5379	[6408, 6409]	7427	[7781, 7782]
1284	[2200, 2201]	3332	[4681, 4604]	5380	[4059, 6410]	7428	[7783, 2283]
1285	[2202, 154]	3333	[4682, 4148]	5381	[6411, 2314]	7429	[653, 865]
1286	[209, 641]	3334	[4683, 676]	5382	[6412, 215]	7430	[7784, 7086]
1287	[2203, 1924]	3335	[4684, 40]	5383	[6413, 1681]	7431	[7785, 6879]
1288	[2204, 2036]	3336	[4685, 2488]	5384	[6414, 2041]	7432	[7786, 7756]
1289	[213, 1772]	3337	[4686, 707]	5385	[2091, 2472]	7433	[6847, 6626]
1290	[683, 1889]	3338	[4687, 2120]	5386	[6415, 4523]	7434	[4865, 6513]
1291	[2205, 827]	3339	[4688, 2395]	5387	[1943, 4134]	7435	[7787, 4378]
1292	[2206, 2207]	3340	[4689, 4690]	5388	[2029, 4326]	7436	[6445, 6338]
1293	[2208, 2209]	3341	[4691, 196]	5389	[6416, 2170]	7437	[856, 2000]
1294	[2210, 2211]	3342	[4692, 4296]	5390	[6417, 2159]	7438	[7788, 2598]
1295	[2212, 2213]	3343	[4693, 4595]	5391	[6418, 2610]	7439	[7789, 2128]
1296	[2214, 2215]	3344	[4694, 2027]	5392	[6419, 2630]	7440	[7790, 4136]
1297	[2216, 2217]	3345	[4695, 2244]	5393	[6420, 4458]	7441	[7791, 4905]
1298	[2218, 2219]	3346	[4696, 2357]	5394	[6421, 4902]	7442	[1918, 4509]
1299	[2220, 2221]	3347	[4420, 4170]	5395	[6422, 4243]	7443	[7792, 6559]
1300	[2222, 2223]	3348	[4076, 4697]	5396	[6423, 5253]	7444	[7793, 6504]
1301	[2224, 2225]	3349	[4698, 4699]	5397	[6424, 720]	7445	[921, 4837]
1302	[2226, 1928]	3350	[4700, 46]	5398	[2427, 6378]	7446	[7794, 2034]
1303	[2227, 2228]	3351	[4701, 2659]	5399	[6425, 2319]	7447	[7795, 4863]
1304	[2229, 573]	3352	[4702, 729]	5400	[6426, 4945]	7448	[7796, 7649]
1305	[667, 2230]	3353	[4703, 2552]	5401	[6427, 4355]	7449	[1707, 1903]
1306	[2231, 2232]	3354	[2333, 2685]	5402	[6428, 2494]	7450	[7797, 4333]
1307	[2233, 2234]	3355	[4704, 4013]	5403	[564, 2333]	7451	[1731, 4551]
1308	[2235, 2236]	3356	[4705, 1776]	5404	[6429, 1774]	7452	[7798, 4409]
1309	[1673, 2237]	3357	[4706, 4020]	5405	[830, 6430]	7453	[7799, 1649]

1310	[2238, 2239]	3358	[4267, 1954]	5406	[6431, 4343]	7454	[7800, 6999]
1311	[2240, 2241]	3359	[4707, 4708]	5407	[6432, 5053]	7455	[6946, 1703]
1312	[2242, 2104]	3360	[4709, 4710]	5408	[6433, 5117]	7456	[7801, 2633]
1313	[2243, 1742]	3361	[4711, 1824]	5409	[6434, 4229]	7457	[4726, 2105]
1314	[1705, 2244]	3362	[1748, 4712]	5410	[6435, 2299]	7458	[820, 6873]
1315	[2245, 2246]	3363	[4713, 2124]	5411	[4116, 150]	7459	[1974, 2597]
1316	[2247, 2248]	3364	[4714, 1719]	5412	[6436, 5092]	7460	[7802, 771]
1317	[1671, 2249]	3365	[2651, 2180]	5413	[6437, 5263]	7461	[2334, 2448]
1318	[2250, 2251]	3366	[4715, 680]	5414	[4520, 4852]	7462	[560, 7049]
1319	[2252, 2253]	3367	[4716, 2181]	5415	[6438, 5056]	7463	[7803, 6638]
1320	[2254, 2219]	3368	[2400, 4717]	5416	[6439, 2435]	7464	[7804, 4239]
1321	[2255, 595]	3369	[4718, 4719]	5417	[4270, 6440]	7465	[7805, 7687]
1322	[2256, 2257]	3370	[1893, 4720]	5418	[6441, 874]	7466	[4534, 564]
1323	[2258, 2259]	3371	[4721, 4410]	5419	[516, 191]	7467	[828, 833]
1324	[2260, 2223]	3372	[4722, 2432]	5420	[4627, 1804]	7468	[6874, 1709]
1325	[2261, 2262]	3373	[4723, 1721]	5421	[6442, 1670]	7469	[7806, 6670]
1326	[2182, 2263]	3374	[4724, 4725]	5422	[6443, 1900]	7470	[4850, 4249]
1327	[2264, 1678]	3375	[2239, 4726]	5423	[6444, 6445]	7471	[4947, 2423]
1328	[763, 1681]	3376	[4727, 4553]	5424	[6446, 2503]	7472	[7807, 1977]
1329	[2265, 1938]	3377	[4728, 2637]	5425	[5245, 5146]	7473	[4852, 6798]
1330	[2266, 2201]	3378	[4729, 4730]	5426	[6447, 4388]	7474	[1796, 1799]
1331	[2267, 252]	3379	[4731, 1959]	5427	[6448, 2327]	7475	[6573, 6950]
1332	[2268, 716]	3380	[4732, 2282]	5428	[6449, 2210]	7476	[7570, 4304]
1333	[2269, 1887]	3381	[4733, 1747]	5429	[5195, 5215]	7477	[4021, 2457]
1334	[2270, 2271]	3382	[4734, 4735]	5430	[1920, 6382]	7478	[7808, 7797]
1335	[1761, 1702]	3383	[4736, 822]	5431	[6450, 221]	7479	[7809, 634]
1336	[2272, 787]	3384	[4737, 2074]	5432	[1785, 1715]	7480	[7810, 4470]
1337	[793, 165]	3385	[2642, 4738]	5433	[6451, 6452]	7481	[7811, 6917]
1338	[2273, 2274]	3386	[556, 744]	5434	[6453, 2123]	7482	[6682, 7678]
1339	[651, 2275]	3387	[4739, 2541]	5435	[2207, 2063]	7483	[1970, 1901]
1340	[2276, 2072]	3388	[4740, 4124]	5436	[6454, 1779]	7484	[1824, 6986]
1341	[527, 2277]	3389	[4741, 2259]	5437	[6455, 5110]	7485	[7812, 678]
1342	[862, 782]	3390	[4742, 806]	5438	[6456, 4735]	7486	[7813, 4963]
1343	[2278, 2279]	3391	[4673, 890]	5439	[4278, 4288]	7487	[7814, 1808]
1344	[2280, 711]	3392	[4743, 4744]	5440	[6457, 1855]	7488	[4760, 6607]
1345	[2281, 2282]	3393	[4745, 4605]	5441	[6458, 176]	7489	[7815, 188]
1346	[2283, 2284]	3394	[4746, 2194]	5442	[6459, 2358]	7490	[2639, 5006]
1347	[542, 2285]	3395	[4747, 4748]	5443	[6460, 6363]	7491	[7816, 4022]
1348	[2286, 2287]	3396	[4749, 603]	5444	[2209, 4575]	7492	[7817, 2088]
1349	[2288, 2289]	3397	[2608, 4750]	5445	[6461, 4947]	7493	[1965, 1884]
1350	[2290, 818]	3398	[4751, 2364]	5446	[5169, 238]	7494	[7818, 6784]
1351	[2291, 2292]	3399	[4752, 1662]	5447	[6462, 2222]	7495	[197, 6999]
1352	[2293, 741]	3400	[2624, 827]	5448	[6463, 2469]	7496	[7819, 4971]
1353	[2294, 2295]	3401	[4753, 4754]	5449	[6464, 4295]	7497	[7820, 6353]

1354	[2296, 1826]	3402	[4755, 798]	5450	[6465, 1694]	7498	[7821, 4753]
1355	[2297, 2298]	3403	[1946, 585]	5451	[5171, 1867]	7499	[2295, 6618]
1356	[2299, 2300]	3404	[4756, 2240]	5452	[2129, 737]	7500	[2538, 5002]
1357	[2301, 1858]	3405	[4757, 2307]	5453	[6466, 2193]	7501	[6505, 4971]
1358	[2302, 2040]	3406	[4758, 4726]	5454	[6467, 730]	7502	[1854, 4564]
1359	[2303, 2304]	3407	[4759, 4760]	5455	[6468, 1981]	7503	[7822, 1716]
1360	[2305, 2306]	3408	[4761, 4355]	5456	[852, 2057]	7504	[6869, 2585]
1361	[2307, 2308]	3409	[4762, 828]	5457	[6469, 2099]	7505	[4988, 2567]
1362	[2309, 2310]	3410	[4763, 4764]	5458	[2304, 135]	7506	[7823, 2077]
1363	[2311, 2312]	3411	[660, 4765]	5459	[4526, 9]	7507	[514, 4631]
1364	[2313, 690]	3412	[4766, 4631]	5460	[6470, 2482]	7508	[4690, 4470]
1365	[1714, 2314]	3413	[4767, 4768]	5461	[6471, 4374]	7509	[7824, 7084]
1366	[2315, 2316]	3414	[704, 2523]	5462	[6472, 5272]	7510	[7605, 7782]
1367	[2317, 2091]	3415	[4679, 1654]	5463	[6473, 4237]	7511	[4836, 4609]
1368	[2318, 2319]	3416	[4769, 4770]	5464	[6474, 4420]	7512	[4675, 4146]
1369	[2320, 2321]	3417	[4771, 2167]	5465	[6475, 4323]	7513	[7825, 4205]
1370	[2322, 2176]	3418	[4772, 4650]	5466	[6476, 2141]	7514	[7782, 2595]
1371	[2323, 2324]	3419	[4773, 1998]	5467	[6477, 2300]	7515	[7826, 4333]
1372	[248, 2325]	3420	[4774, 4775]	5468	[2666, 1767]	7516	[7827, 6550]
1373	[2326, 1950]	3421	[1877, 4776]	5469	[6478, 6479]	7517	[228, 5143]
1374	[2327, 1970]	3422	[4777, 728]	5470	[2321, 4104]	7518	[7828, 6607]
1375	[2328, 2329]	3423	[4778, 4366]	5471	[6480, 768]	7519	[7829, 7749]
1376	[2330, 2331]	3424	[4779, 4780]	5472	[5128, 5160]	7520	[706, 2491]
1377	[919, 534]	3425	[4781, 834]	5473	[4484, 6481]	7521	[7830, 2448]
1378	[2332, 2333]	3426	[4782, 4783]	5474	[6482, 677]	7522	[7773, 688]
1379	[2040, 2334]	3427	[613, 4784]	5475	[5029, 4461]	7523	[7831, 5151]
1380	[2335, 817]	3428	[4785, 4668]	5476	[6483, 135]	7524	[4205, 2633]
1381	[2336, 2131]	3429	[4786, 4684]	5477	[6484, 2236]	7525	[4468, 6941]
1382	[2337, 832]	3430	[4787, 4788]	5478	[2066, 6485]	7526	[6520, 2413]
1383	[2338, 1875]	3431	[4789, 4186]	5479	[4436, 141]	7527	[2034, 6775]
1384	[2339, 602]	3432	[2479, 4698]	5480	[4888, 1727]	7528	[4765, 4745]
1385	[2340, 2341]	3433	[2622, 4790]	5481	[6486, 1728]	7529	[7832, 4755]
1386	[2110, 2029]	3434	[4791, 4149]	5482	[6487, 6488]	7530	[7833, 5192]
1387	[2112, 2342]	3435	[2274, 2015]	5483	[6489, 895]	7531	[7834, 4638]
1388	[2343, 2043]	3436	[4792, 2631]	5484	[6490, 6393]	7532	[7835, 7702]
1389	[724, 2344]	3437	[4793, 2674]	5485	[912, 5010]	7533	[5094, 6695]
1390	[2345, 2346]	3438	[4794, 4166]	5486	[6491, 4399]	7534	[6440, 5064]
1391	[2347, 560]	3439	[4795, 4796]	5487	[2587, 4889]	7535	[7836, 4286]
1392	[2348, 2349]	3440	[4797, 4772]	5488	[6492, 4895]	7536	[7837, 7021]
1393	[2350, 2351]	3441	[4046, 2407]	5489	[879, 2311]	7537	[7838, 4995]
1394	[2352, 569]	3442	[4798, 2407]	5490	[6493, 568]	7538	[7839, 4624]
1395	[2353, 2354]	3443	[4799, 4800]	5491	[2232, 6494]	7539	[7840, 6823]
1396	[2355, 808]	3444	[4801, 4802]	5492	[6495, 6440]	7540	[250, 750]
1397	[2356, 2357]	3445	[4803, 2025]	5493	[6496, 1936]	7541	[7841, 4373]

1398	[2358, 2359]	3446	[1978, 4804]	5494	[6497, 142]	7542	[2578, 2077]
1399	[2360, 2361]	3447	[531, 4805]	5495	[6498, 6499]	7543	[4822, 2322]
1400	[2362, 2363]	3448	[4806, 532]	5496	[2230, 6500]	7544	[5272, 4231]
1401	[2364, 1685]	3449	[2248, 4730]	5497	[6501, 2537]	7545	[7842, 809]
1402	[2365, 864]	3450	[4807, 4087]	5498	[6502, 2397]	7546	[7843, 4955]
1403	[2366, 2367]	3451	[4808, 2360]	5499	[6503, 4036]	7547	[6814, 4779]
1404	[2368, 2369]	3452	[4809, 4810]	5500	[1852, 4558]	7548	[521, 1830]
1405	[2370, 852]	3453	[4374, 14]	5501	[6504, 6505]	7549	[7844, 2138]
1406	[2371, 1730]	3454	[4811, 4738]	5502	[6506, 6422]	7550	[6986, 4624]
1407	[2372, 1794]	3455	[4812, 1846]	5503	[6507, 4808]	7551	[2073, 6559]
1408	[2373, 2374]	3456	[2275, 4003]	5504	[6508, 4564]	7552	[7845, 6942]
1409	[2375, 924]	3457	[4813, 700]	5505	[1740, 607]	7553	[7846, 6519]
1410	[2376, 2377]	3458	[4710, 4814]	5506	[2464, 5068]	7554	[7847, 7708]
1411	[759, 2378]	3459	[4815, 631]	5507	[6509, 4006]	7555	[6578, 4922]
1412	[2379, 193]	3460	[4816, 1909]	5508	[4304, 4394]	7556	[7848, 1799]
1413	[2380, 2044]	3461	[4817, 2490]	5509	[4302, 6510]	7557	[7849, 4307]
1414	[2381, 1874]	3462	[1933, 4254]	5510	[12, 604]	7558	[7850, 4664]
1415	[675, 626]	3463	[4818, 792]	5511	[6511, 1870]	7559	[4529, 6333]
1416	[2382, 858]	3464	[4819, 4820]	5512	[6348, 6512]	7560	[7851, 4182]
1417	[2383, 2384]	3465	[4606, 4821]	5513	[6513, 795]	7561	[597, 885]
1418	[2385, 2386]	3466	[4372, 4822]	5514	[6514, 2406]	7562	[7852, 32]
1419	[2387, 2388]	3467	[4823, 639]	5515	[6515, 4659]	7563	[7853, 6500]
1420	[1652, 2389]	3468	[4010, 4824]	5516	[4232, 6516]	7564	[5083, 5090]
1421	[2390, 246]	3469	[4825, 831]	5517	[4824, 4127]	7565	[7854, 1882]
1422	[2391, 2392]	3470	[4826, 4827]	5518	[1860, 4510]	7566	[7855, 4269]
1423	[2078, 43]	3471	[4828, 4810]	5519	[6517, 1840]	7567	[2262, 2240]
1424	[2393, 2394]	3472	[1726, 2071]	5520	[2, 1986]	7568	[7856, 5805]
1425	[2395, 224]	3473	[4829, 4830]	5521	[1889, 1762]	7569	[5341, 3196]
1426	[611, 2396]	3474	[1983, 2340]	5522	[6518, 4187]	7570	[7857, 3481]
1427	[2397, 2398]	3475	[1768, 4831]	5523	[6519, 6520]	7571	[7858, 1107]
1428	[2399, 2326]	3476	[4832, 4833]	5524	[2032, 6521]	7572	[7859, 3132]
1429	[529, 1974]	3477	[4834, 793]	5525	[6522, 2445]	7573	[3304, 7390]
1430	[1940, 2400]	3478	[4835, 4836]	5526	[6523, 2257]	7574	[3024, 3607]
1431	[2401, 1872]	3479	[4837, 4440]	5527	[6524, 2081]	7575	[5873, 5375]
1432	[2402, 2403]	3480	[1879, 4838]	5528	[6525, 4576]	7576	[966, 5965]
1433	[605, 602]	3481	[4839, 4821]	5529	[6526, 5188]	7577	[7860, 1614]
1434	[2404, 1842]	3482	[165, 4840]	5530	[4313, 4629]	7578	[7861, 1554]
1435	[2405, 2406]	3483	[4604, 908]	5531	[6527, 4030]	7579	[3983, 3709]
1436	[2407, 2408]	3484	[4841, 778]	5532	[6528, 5121]	7580	[7862, 276]
1437	[2409, 2263]	3485	[4842, 4094]	5533	[6529, 6342]	7581	[1548, 3337]
1438	[2410, 2373]	3486	[4843, 1951]	5534	[219, 4075]	7582	[3321, 2783]
1439	[2403, 624]	3487	[2398, 4844]	5535	[6530, 863]	7583	[3243, 5586]
1440	[2411, 2412]	3488	[2223, 4622]	5536	[6531, 6502]	7584	[7863, 1569]
1441	[1897, 1656]	3489	[4845, 733]	5537	[5035, 4768]	7585	[3271, 7226]

1442	[2413, 2283]	3490	[4846, 2080]	5538	[6532, 4213]	7586	[7864, 1045]
1443	[2414, 2415]	3491	[238, 767]	5539	[6533, 1785]	7587	[1580, 1598]
1444	[860, 2186]	3492	[2354, 2335]	5540	[6534, 2471]	7588	[7865, 3642]
1445	[2416, 2417]	3493	[4847, 4442]	5541	[6535, 5038]	7589	[6232, 3406]
1446	[2418, 2419]	3494	[4848, 1896]	5542	[5112, 4854]	7590	[5777, 2925]
1447	[2420, 2421]	3495	[2133, 4849]	5543	[6536, 4804]	7591	[7866, 3746]
1448	[2422, 1814]	3496	[1990, 4850]	5544	[5223, 2617]	7592	[7867, 2764]
1449	[2423, 1925]	3497	[4851, 4852]	5545	[769, 4976]	7593	[7868, 3115]
1450	[2424, 2425]	3498	[4853, 4854]	5546	[1805, 2474]	7594	[1104, 6140]
1451	[2426, 2427]	3499	[4855, 4527]	5547	[6537, 6538]	7595	[7869, 7870]
1452	[2428, 638]	3500	[4856, 4594]	5548	[6539, 4877]	7596	[5784, 5997]
1453	[2429, 2415]	3501	[4180, 548]	5549	[6540, 6541]	7597	[7871, 1352]
1454	[2430, 2431]	3502	[716, 4857]	5550	[6542, 4180]	7598	[5847, 6206]
1455	[2432, 2021]	3503	[4858, 2359]	5551	[6543, 2436]	7599	[7872, 3282]
1456	[2433, 1805]	3504	[2498, 845]	5552	[6544, 4327]	7600	[3564, 3713]
1457	[2434, 2435]	3505	[4569, 59]	5553	[6545, 2400]	7601	[7873, 1237]
1458	[2076, 2436]	3506	[4023, 4371]	5554	[6546, 6512]	7602	[1011, 3596]
1459	[2437, 1768]	3507	[4859, 4860]	5555	[4507, 1899]	7603	[1065, 302]
1460	[2438, 2439]	3508	[2676, 802]	5556	[6547, 4464]	7604	[5944, 6067]
1461	[2440, 1678]	3509	[4861, 2284]	5557	[6548, 162]	7605	[7874, 6277]
1462	[2441, 2442]	3510	[4641, 4796]	5558	[6549, 4065]	7606	[7875, 1501]
1463	[2443, 219]	3511	[4862, 844]	5559	[641, 6550]	7607	[7876, 3008]
1464	[806, 2444]	3512	[2584, 4863]	5560	[6551, 2687]	7608	[7877, 3252]
1465	[2445, 211]	3513	[1876, 590]	5561	[915, 4899]	7609	[7878, 7879]
1466	[2446, 1781]	3514	[4864, 4865]	5562	[6552, 4059]	7610	[5627, 389]
1467	[2447, 1778]	3515	[2292, 143]	5563	[6553, 4534]	7611	[7880, 7304]
1468	[2448, 2449]	3516	[4866, 4075]	5564	[6554, 6488]	7612	[7881, 1213]
1469	[2450, 651]	3517	[4867, 4826]	5565	[6555, 4165]	7613	[7882, 3392]
1470	[2451, 2452]	3518	[4868, 4869]	5566	[1962, 5083]	7614	[1001, 3174]
1471	[2453, 774]	3519	[4221, 4870]	5567	[1972, 6556]	7615	[7883, 267]
1472	[2454, 2455]	3520	[4871, 1883]	5568	[6557, 4139]	7616	[3855, 5638]
1473	[2456, 1761]	3521	[4872, 789]	5569	[2055, 4138]	7617	[3992, 1271]
1474	[2457, 2458]	3522	[163, 4873]	5570	[4375, 5278]	7618	[7884, 2778]
1475	[2459, 2392]	3523	[913, 4874]	5571	[6558, 2556]	7619	[7885, 341]
1476	[2460, 2461]	3524	[4356, 2243]	5572	[6559, 1730]	7620	[3355, 5397]
1477	[2462, 2213]	3525	[4875, 4870]	5573	[4069, 493]	7621	[1365, 5450]
1478	[2463, 2464]	3526	[4876, 846]	5574	[6560, 660]	7622	[1503, 3101]
1479	[2465, 2466]	3527	[4877, 2493]	5575	[6488, 1811]	7623	[7886, 1015]
1480	[2467, 11]	3528	[2363, 2140]	5576	[1839, 1995]	7624	[5935, 3094]
1481	[2468, 2469]	3529	[4878, 777]	5577	[1986, 2537]	7625	[1561, 3380]
1482	[2470, 2471]	3530	[4879, 1689]	5578	[4658, 4235]	7626	[1333, 3182]
1483	[2472, 2473]	3531	[1683, 4880]	5579	[6561, 1975]	7627	[3413, 3865]
1484	[1807, 2122]	3532	[4881, 1955]	5580	[6562, 624]	7628	[3299, 5742]
1485	[2474, 523]	3533	[4882, 4883]	5581	[2188, 5269]	7629	[6069, 125]

1486	[2475, 2476]	3534	[4884, 4885]	5582	[6563, 2051]	7630	[7887, 3835]
1487	[2477, 2387]	3535	[4886, 856]	5583	[2241, 227]	7631	[7888, 1484]
1488	[494, 2478]	3536	[4887, 4586]	5584	[6494, 5165]	7632	[7889, 5570]
1489	[2018, 2479]	3537	[4170, 4888]	5585	[6564, 4914]	7633	[7890, 3381]
1490	[2480, 2481]	3538	[4889, 2171]	5586	[6565, 4445]	7634	[5539, 6063]
1491	[2482, 2483]	3539	[778, 1932]	5587	[6566, 4808]	7635	[3574, 7201]
1492	[2484, 2485]	3540	[4890, 1956]	5588	[6567, 6568]	7636	[3615, 1446]
1493	[2486, 186]	3541	[4891, 4312]	5589	[1833, 2370]	7637	[7891, 1048]
1494	[2487, 2331]	3542	[4466, 4175]	5590	[6569, 5195]	7638	[6029, 6190]
1495	[749, 2488]	3543	[4788, 4892]	5591	[6570, 4623]	7639	[3927, 3161]
1496	[2489, 2074]	3544	[4893, 4712]	5592	[2518, 4982]	7640	[472, 3919]
1497	[2490, 1918]	3545	[2415, 4690]	5593	[6571, 2004]	7641	[3207, 5494]
1498	[2491, 2492]	3546	[4894, 1738]	5594	[6572, 6573]	7642	[7892, 396]
1499	[2493, 2494]	3547	[4895, 4495]	5595	[6574, 4332]	7643	[2808, 5843]
1500	[2495, 2496]	3548	[4896, 1698]	5596	[740, 4392]	7644	[5658, 5426]
1501	[2497, 2498]	3549	[2684, 2569]	5597	[6575, 4339]	7645	[1387, 1519]
1502	[834, 2499]	3550	[4897, 821]	5598	[2638, 34]	7646	[3656, 1008]
1503	[2197, 2500]	3551	[4898, 2014]	5599	[6576, 4475]	7647	[7893, 977]
1504	[2501, 2325]	3552	[4899, 4900]	5600	[2525, 2024]	7648	[7894, 3954]
1505	[2502, 2503]	3553	[4901, 4902]	5601	[6577, 4826]	7649	[7895, 5563]
1506	[252, 2265]	3554	[1802, 4202]	5602	[517, 6578]	7650	[1619, 5746]
1507	[2504, 2505]	3555	[4903, 1743]	5603	[6579, 6580]	7651	[7896, 3055]
1508	[2506, 43]	3556	[4504, 1749]	5604	[6581, 6433]	7652	[5705, 3413]
1509	[2507, 2508]	3557	[4904, 2615]	5605	[6582, 4193]	7653	[5983, 2690]
1510	[2509, 1752]	3558	[4905, 4906]	5606	[4629, 2127]	7654	[5763, 5378]
1511	[2510, 1795]	3559	[4907, 4908]	5607	[6583, 4062]	7655	[7897, 1153]
1512	[2503, 2511]	3560	[2610, 4909]	5608	[6584, 4161]	7656	[5476, 1291]
1513	[2192, 2512]	3561	[4416, 837]	5609	[1907, 2578]	7657	[7898, 86]
1514	[2513, 2514]	3562	[4910, 2232]	5610	[6585, 4483]	7658	[7899, 3593]
1515	[1902, 2515]	3563	[4768, 4911]	5611	[6586, 4612]	7659	[7900, 3636]
1516	[2516, 2458]	3564	[4912, 1710]	5612	[6587, 1902]	7660	[5950, 6022]
1517	[1959, 2155]	3565	[2083, 4913]	5613	[874, 4856]	7661	[3593, 1576]
1518	[2517, 2518]	3566	[4650, 4614]	5614	[5188, 4983]	7662	[7870, 374]
1519	[2519, 2520]	3567	[2559, 2294]	5615	[6588, 4151]	7663	[7901, 6027]
1520	[2342, 2419]	3568	[4914, 4580]	5616	[6589, 1812]	7664	[7902, 3634]
1521	[2521, 2522]	3569	[4915, 235]	5617	[6590, 2293]	7665	[7903, 3321]
1522	[2523, 2524]	3570	[4916, 779]	5618	[2154, 4233]	7666	[3339, 3772]
1523	[2023, 2525]	3571	[4917, 4539]	5619	[6591, 4840]	7667	[7904, 3031]
1524	[897, 919]	3572	[4918, 1836]	5620	[5163, 4896]	7668	[7905, 3495]
1525	[2025, 1707]	3573	[4919, 519]	5621	[4402, 6366]	7669	[7906, 1646]
1526	[1856, 2526]	3574	[4906, 4920]	5622	[6592, 4516]	7670	[1376, 3469]
1527	[2527, 2528]	3575	[2287, 4026]	5623	[2599, 6593]	7671	[7907, 1168]
1528	[2529, 2530]	3576	[4921, 4611]	5624	[6594, 131]	7672	[7908, 3950]
1529	[2531, 2532]	3577	[2179, 4192]	5625	[6595, 4085]	7673	[7909, 3572]

1530	[2533, 2534]	3578	[4922, 4923]	5626	[6596, 2171]	7674	[7910, 5692]
1531	[2535, 1871]	3579	[2659, 2684]	5627	[6597, 4925]	7675	[7911, 313]
1532	[236, 2100]	3580	[2544, 552]	5628	[2215, 2393]	7676	[7912, 3673]
1533	[1835, 2536]	3581	[4924, 4752]	5629	[776, 2604]	7677	[7913, 3403]
1534	[2537, 2538]	3582	[201, 2624]	5630	[6598, 4419]	7678	[7914, 5332]
1535	[2539, 180]	3583	[4925, 696]	5631	[6599, 2012]	7679	[1381, 3073]
1536	[2540, 2541]	3584	[4926, 2574]	5632	[6600, 5235]	7680	[7915, 378]
1537	[2542, 1750]	3585	[4927, 4928]	5633	[6601, 2617]	7681	[3402, 3010]
1538	[2543, 2544]	3586	[4929, 4874]	5634	[6358, 753]	7682	[7916, 2945]
1539	[2545, 2546]	3587	[4930, 4776]	5635	[6602, 157]	7683	[5697, 6071]
1540	[2547, 2548]	3588	[1899, 4363]	5636	[4337, 4083]	7684	[7917, 1129]
1541	[1822, 555]	3589	[4931, 2442]	5637	[6580, 1961]	7685	[7918, 2965]
1542	[2549, 2550]	3590	[2601, 619]	5638	[6603, 798]	7686	[7919, 1393]
1543	[2551, 2552]	3591	[4932, 1732]	5639	[5142, 4576]	7687	[7920, 3162]
1544	[2505, 704]	3592	[4933, 554]	5640	[6604, 4760]	7688	[3726, 6154]
1545	[2094, 2553]	3593	[4113, 4531]	5641	[177, 2634]	7689	[7921, 350]
1546	[2554, 2085]	3594	[4934, 2048]	5642	[6605, 6358]	7690	[7922, 1000]
1547	[2555, 550]	3595	[2388, 2505]	5643	[6606, 2619]	7691	[7923, 5566]
1548	[2556, 2557]	3596	[4935, 4844]	5644	[6607, 6608]	7692	[5464, 3346]
1549	[2558, 1831]	3597	[4936, 4023]	5645	[6609, 2139]	7693	[7924, 3368]
1550	[2070, 2559]	3598	[4937, 2007]	5646	[5205, 2137]	7694	[5825, 3423]
1551	[2560, 2561]	3599	[4938, 2013]	5647	[2643, 5035]	7695	[5391, 1568]
1552	[2562, 2563]	3600	[4939, 698]	5648	[4545, 5104]	7696	[1051, 5354]
1553	[699, 222]	3601	[4940, 4941]	5649	[4838, 5234]	7697	[7925, 3964]
1554	[1793, 2564]	3602	[4942, 613]	5650	[6610, 2256]	7698	[7926, 1644]
1555	[2565, 2485]	3603	[4943, 1939]	5651	[6611, 4940]	7699	[5590, 3249]
1556	[2532, 2566]	3604	[4944, 4642]	5652	[6612, 4777]	7700	[7927, 2922]
1557	[2567, 922]	3605	[4945, 4751]	5653	[2211, 1649]	7701	[7928, 3330]
1558	[2568, 2387]	3606	[910, 250]	5654	[6613, 1731]	7702	[7929, 7153]
1559	[2569, 2527]	3607	[4946, 4377]	5655	[6614, 1923]	7703	[5965, 5643]
1560	[2570, 544]	3608	[4754, 4947]	5656	[6615, 749]	7704	[5294, 5800]
1561	[2571, 1718]	3609	[4948, 131]	5657	[6616, 5217]	7705	[352, 3988]
1562	[2099, 2200]	3610	[4949, 2367]	5658	[6617, 2647]	7706	[5743, 5704]
1563	[2572, 2441]	3611	[4950, 2657]	5659	[6618, 4140]	7707	[7930, 3947]
1564	[2573, 667]	3612	[4951, 2449]	5660	[6619, 4959]	7708	[7931, 5656]
1565	[2574, 2575]	3613	[4952, 4598]	5661	[6620, 4191]	7709	[7932, 1112]
1566	[2576, 662]	3614	[1891, 2681]	5662	[6621, 557]	7710	[7933, 5407]
1567	[2577, 2578]	3615	[4923, 4953]	5663	[6622, 6623]	7711	[7934, 1361]
1568	[2579, 218]	3616	[4408, 2468]	5664	[4982, 4365]	7712	[7935, 7901]
1569	[2580, 220]	3617	[4954, 833]	5665	[6624, 4060]	7713	[7936, 3452]
1570	[789, 2581]	3618	[4955, 1944]	5666	[843, 5060]	7714	[311, 1437]
1571	[2582, 2256]	3619	[4956, 2640]	5667	[6625, 1693]	7715	[7937, 3015]
1572	[2583, 2584]	3620	[4957, 2470]	5668	[6626, 4361]	7716	[2853, 5390]
1573	[2585, 1660]	3621	[4188, 38]	5669	[6627, 4372]	7717	[5930, 5660]

1574	[2586, 2587]	3622	[4958, 4959]	5670	[6628, 2394]	7718	[7938, 2841]
1575	[2588, 2589]	3623	[4642, 4940]	5671	[6629, 4070]	7719	[7939, 7469]
1576	[2590, 2591]	3624	[2080, 2303]	5672	[6630, 5040]	7720	[7940, 3662]
1577	[2592, 2593]	3625	[4960, 4293]	5673	[6631, 4957]	7721	[6201, 283]
1578	[2594, 1996]	3626	[4961, 4717]	5674	[6632, 737]	7722	[3717, 5615]
1579	[2595, 636]	3627	[4962, 4900]	5675	[234, 4239]	7723	[7941, 3316]
1580	[722, 499]	3628	[4963, 1895]	5676	[1814, 6633]	7724	[7942, 442]
1581	[2596, 2597]	3629	[4964, 761]	5677	[46, 4617]	7725	[5765, 3035]
1582	[2598, 2599]	3630	[4965, 4658]	5678	[6634, 4510]	7726	[7943, 1415]
1583	[2600, 2601]	3631	[4966, 573]	5679	[6635, 541]	7727	[5801, 3417]
1584	[2602, 665]	3632	[4967, 1884]	5680	[6636, 2614]	7728	[7944, 3386]
1585	[2603, 2604]	3633	[4968, 232]	5681	[6637, 6638]	7729	[7945, 3087]
1586	[2605, 2606]	3634	[4776, 1778]	5682	[6639, 2215]	7730	[7946, 303]
1587	[2607, 2608]	3635	[4969, 4371]	5683	[546, 6640]	7731	[7947, 3549]
1588	[2609, 2610]	3636	[4159, 2608]	5684	[2661, 4316]	7732	[7948, 3487]
1589	[2611, 138]	3637	[4970, 504]	5685	[6641, 2398]	7733	[6103, 1034]
1590	[1698, 2612]	3638	[4971, 758]	5686	[6642, 4545]	7734	[3061, 5904]
1591	[2613, 869]	3639	[4972, 2511]	5687	[6410, 2307]	7735	[3396, 5788]
1592	[2614, 2615]	3640	[2406, 4501]	5688	[6643, 6644]	7736	[280, 982]
1593	[2616, 2525]	3641	[4973, 711]	5689	[6645, 2405]	7737	[7949, 3129]
1594	[2617, 553]	3642	[4790, 871]	5690	[6646, 4535]	7738	[7950, 296]
1595	[2618, 2619]	3643	[4974, 2143]	5691	[6647, 2512]	7739	[7951, 3832]
1596	[2620, 900]	3644	[2566, 4975]	5692	[6393, 6648]	7740	[7879, 5772]
1597	[2621, 2622]	3645	[1951, 2145]	5693	[751, 6649]	7741	[3605, 2878]
1598	[2623, 2624]	3646	[4976, 4733]	5694	[697, 2509]	7742	[7952, 2860]
1599	[1675, 1900]	3647	[4977, 2038]	5695	[6650, 4310]	7743	[5638, 419]
1600	[2625, 2626]	3648	[4090, 4636]	5696	[4902, 4684]	7744	[7953, 3462]
1601	[892, 2627]	3649	[4978, 4979]	5697	[6651, 189]	7745	[5344, 7376]
1602	[1710, 2628]	3650	[4452, 1845]	5698	[6652, 4393]	7746	[7954, 5458]
1603	[2629, 606]	3651	[4980, 4090]	5699	[4719, 4668]	7747	[5525, 2802]
1604	[2630, 2631]	3652	[4981, 4982]	5700	[6653, 4679]	7748	[7955, 6022]
1605	[2632, 888]	3653	[2435, 4620]	5701	[2217, 2042]	7749	[7956, 2802]
1606	[2633, 176]	3654	[4983, 4664]	5702	[6654, 5185]	7750	[7957, 6020]
1607	[2634, 598]	3655	[4984, 4985]	5703	[5253, 4802]	7751	[7958, 6161]
1608	[2635, 600]	3656	[838, 182]	5704	[6655, 4910]	7752	[7959, 3041]
1609	[2636, 863]	3657	[4986, 1980]	5705	[6656, 4877]	7753	[7960, 3347]
1610	[2637, 2638]	3658	[4987, 4988]	5706	[2384, 4523]	7754	[7961, 1397]
1611	[2396, 2639]	3659	[4989, 635]	5707	[4622, 2661]	7755	[3687, 7446]
1612	[2436, 2640]	3660	[4990, 4880]	5708	[2591, 648]	7756	[7962, 3294]
1613	[2641, 2642]	3661	[4294, 4457]	5709	[6657, 5014]	7757	[3251, 5729]
1614	[1843, 2643]	3662	[4991, 2377]	5710	[6658, 4480]	7758	[5369, 3581]
1615	[2644, 2645]	3663	[4775, 567]	5711	[4401, 1886]	7759	[3190, 3860]
1616	[2646, 2209]	3664	[4992, 4220]	5712	[6659, 6618]	7760	[7963, 3013]
1617	[2647, 652]	3665	[4539, 4993]	5713	[6660, 1904]	7761	[5458, 124]

1618	[2648, 2304]	3666	[4928, 4994]	5714	[6661, 6662]	7762	[5311, 466]
1619	[2649, 2536]	3667	[226, 2006]	5715	[2237, 5235]	7763	[2987, 5686]
1620	[2650, 2651]	3668	[4995, 4675]	5716	[6663, 2249]	7764	[1337, 3481]
1621	[2652, 2653]	3669	[4996, 4997]	5717	[6664, 5256]	7765	[7964, 3290]
1622	[2654, 2225]	3670	[4998, 1950]	5718	[5004, 4197]	7766	[7965, 2831]
1623	[2655, 2499]	3671	[4999, 2384]	5719	[6665, 2179]	7767	[3044, 7531]
1624	[844, 785]	3672	[538, 2546]	5720	[6666, 2479]	7768	[1261, 3079]
1625	[2656, 2324]	3673	[2682, 4673]	5721	[6667, 5010]	7769	[7966, 3896]
1626	[2657, 920]	3674	[5000, 4091]	5722	[4031, 6329]	7770	[7967, 972]
1627	[2658, 2659]	3675	[5001, 811]	5723	[6668, 4052]	7771	[7221, 6171]
1628	[2660, 2661]	3676	[1783, 4833]	5724	[6485, 1914]	7772	[7968, 3965]
1629	[2662, 1926]	3677	[5002, 2110]	5725	[6669, 802]	7773	[7969, 3010]
1630	[223, 1836]	3678	[4256, 4185]	5726	[4088, 6670]	7774	[7970, 1322]
1631	[2663, 661]	3679	[4166, 4369]	5727	[5091, 4238]	7775	[2841, 3499]
1632	[2664, 2627]	3680	[5003, 5004]	5728	[6671, 695]	7776	[5869, 6277]
1633	[2665, 2666]	3681	[5005, 2524]	5729	[6672, 2553]	7777	[7971, 3192]
1634	[2667, 2441]	3682	[554, 2228]	5730	[6673, 4983]	7778	[1457, 1452]
1635	[2668, 610]	3683	[5006, 4350]	5731	[6674, 4648]	7779	[3584, 320]
1636	[2669, 1989]	3684	[1737, 2096]	5732	[4892, 4867]	7780	[2772, 3509]
1637	[506, 2670]	3685	[5007, 751]	5733	[6675, 4856]	7781	[7972, 6249]
1638	[2671, 1784]	3686	[1916, 4788]	5734	[6676, 6677]	7782	[7973, 3182]
1639	[2672, 886]	3687	[5008, 2342]	5735	[6678, 6623]	7783	[7974, 3552]
1640	[2673, 2674]	3688	[5009, 4379]	5736	[870, 4091]	7784	[7975, 5795]
1641	[2675, 2676]	3689	[4676, 4627]	5737	[1654, 2356]	7785	[7976, 3562]
1642	[2677, 2678]	3690	[5010, 4480]	5738	[6679, 6680]	7786	[7977, 3872]
1643	[2679, 2680]	3691	[5011, 9]	5739	[6681, 6682]	7787	[7978, 5687]
1644	[2681, 2682]	3692	[5012, 4141]	5740	[6683, 6684]	7788	[1307, 3493]
1645	[2683, 2684]	3693	[5013, 4202]	5741	[6685, 2582]	7789	[7979, 2897]
1646	[2685, 2686]	3694	[1837, 5014]	5742	[6686, 555]	7790	[1364, 3725]
1647	[2006, 2687]	3695	[5015, 1961]	5743	[52, 6656]	7791	[7980, 5646]
1648	[2688, 1954]	3696	[5016, 869]	5744	[2284, 5112]	7792	[2915, 2809]
1649	[2689, 2690]	3697	[5017, 2650]	5745	[2137, 6687]	7793	[1385, 5554]
1650	[2691, 2692]	3698	[5018, 5019]	5746	[6688, 4402]	7794	[7981, 5942]
1651	[2693, 2694]	3699	[5020, 4620]	5747	[5023, 532]	7795	[3112, 7290]
1652	[2695, 992]	3700	[5021, 1085]	5748	[6689, 4836]	7796	[7982, 1288]
1653	[2696, 2697]	3701	[4477, 4045]	5749	[6690, 5096]	7797	[7983, 1135]
1654	[2698, 2699]	3702	[5022, 4050]	5750	[6691, 649]	7798	[7984, 1505]
1655	[2700, 2701]	3703	[2120, 5023]	5751	[6692, 2364]	7799	[7985, 2691]
1656	[2702, 1169]	3704	[5024, 5025]	5752	[4321, 876]	7800	[6090, 1431]
1657	[2703, 2704]	3705	[5026, 901]	5753	[6693, 2143]	7801	[7986, 1329]
1658	[2705, 2706]	3706	[5027, 2638]	5754	[6694, 5137]	7802	[3837, 1410]
1659	[2707, 1385]	3707	[5028, 4147]	5755	[2093, 2383]	7803	[7987, 3501]
1660	[1488, 2708]	3708	[4097, 5029]	5756	[6695, 4187]	7804	[5351, 3030]
1661	[2709, 2710]	3709	[5030, 4080]	5757	[4870, 748]	7805	[7988, 1139]

1662	[2711, 2712]	3710	[5031, 12]	5758	[6696, 1818]	7806	[7989, 1300]
1663	[2713, 90]	3711	[5032, 2071]	5759	[2219, 6697]	7807	[7990, 27]
1664	[2714, 2715]	3712	[5033, 4708]	5760	[6698, 2230]	7808	[3857, 7870]
1665	[2716, 1204]	3713	[5034, 5035]	5761	[6699, 2666]	7809	[1473, 6229]
1666	[1377, 961]	3714	[5036, 4784]	5762	[6700, 6640]	7810	[7991, 5726]
1667	[2717, 2718]	3715	[5037, 4661]	5763	[4997, 4283]	7811	[7992, 3853]
1668	[2719, 2720]	3716	[548, 5038]	5764	[6701, 1809]	7812	[7993, 3895]
1669	[2721, 2722]	3717	[5039, 810]	5765	[568, 2084]	7813	[7994, 3047]
1670	[1276, 2723]	3718	[2357, 4525]	5766	[6702, 6408]	7814	[7995, 331]
1671	[2724, 2725]	3719	[2050, 1923]	5767	[2520, 6519]	7815	[309, 369]
1672	[2726, 2727]	3720	[5040, 5041]	5768	[6703, 4953]	7816	[7996, 5303]
1673	[2728, 2729]	3721	[5042, 5043]	5769	[6704, 4964]	7817	[3575, 2903]
1674	[1601, 2730]	3722	[5044, 534]	5770	[4082, 6705]	7818	[7997, 5594]
1675	[1632, 2731]	3723	[2106, 5045]	5771	[6706, 6339]	7819	[7998, 2881]
1676	[2732, 1436]	3724	[4446, 768]	5772	[6707, 6344]	7820	[7999, 1116]
1677	[2733, 2734]	3725	[5046, 2557]	5773	[591, 2466]	7821	[8000, 5945]
1678	[1346, 2693]	3726	[5047, 5048]	5774	[6708, 2424]	7822	[8001, 1335]
1679	[2735, 2736]	3727	[5049, 4526]	5775	[6709, 2151]	7823	[1144, 1638]
1680	[2737, 2738]	3728	[5050, 5033]	5776	[1685, 628]	7824	[3672, 5805]
1681	[1395, 294]	3729	[5051, 1935]	5777	[6710, 4066]	7825	[8002, 3615]
1682	[2739, 2740]	3730	[2431, 792]	5778	[6711, 2533]	7826	[8003, 424]
1683	[80, 2741]	3731	[5052, 5053]	5779	[5110, 4414]	7827	[5750, 3675]
1684	[2742, 278]	3732	[2325, 4623]	5780	[6712, 725]	7828	[7531, 3828]
1685	[2743, 2744]	3733	[5054, 2508]	5781	[6713, 174]	7829	[8004, 446]
1686	[2745, 2746]	3734	[5055, 187]	5782	[6714, 6521]	7830	[360, 3752]
1687	[2747, 1129]	3735	[2593, 5056]	5783	[1750, 6715]	7831	[463, 7879]
1688	[2748, 2749]	3736	[5057, 5058]	5784	[6716, 2463]	7832	[8005, 3624]
1689	[376, 2750]	3737	[5059, 5060]	5785	[6335, 4290]	7833	[2886, 3137]
1690	[2751, 2752]	3738	[5061, 5062]	5786	[6717, 4391]	7834	[8006, 5475]
1691	[2753, 2754]	3739	[5063, 2235]	5787	[2680, 2410]	7835	[8007, 1265]
1692	[432, 2755]	3740	[5064, 5065]	5788	[6718, 2348]	7836	[8008, 3149]
1693	[1470, 2756]	3741	[5066, 655]	5789	[4342, 691]	7837	[8009, 5537]
1694	[2757, 2758]	3742	[5067, 788]	5790	[523, 1724]	7838	[8010, 3239]
1695	[978, 423]	3743	[5068, 4860]	5791	[6719, 5105]	7839	[8011, 2904]
1696	[2759, 2760]	3744	[5069, 4264]	5792	[4585, 578]	7840	[8012, 1093]
1697	[2761, 1481]	3745	[5070, 5071]	5793	[5167, 700]	7841	[8013, 5623]
1698	[2762, 2763]	3746	[2002, 4640]	5794	[6720, 5243]	7842	[8014, 1545]
1699	[1492, 1459]	3747	[2606, 514]	5795	[2522, 4633]	7843	[8015, 3643]
1700	[1411, 2764]	3748	[5072, 4835]	5796	[5198, 6622]	7844	[8016, 3156]
1701	[2765, 2766]	3749	[5073, 571]	5797	[6662, 6331]	7845	[8017, 6185]
1702	[2767, 1058]	3750	[5074, 5075]	5798	[6721, 4536]	7846	[386, 263]
1703	[2768, 2769]	3751	[5076, 4104]	5799	[2492, 4418]	7847	[8018, 78]
1704	[2770, 1493]	3752	[5077, 921]	5800	[6722, 845]	7848	[8019, 3683]
1705	[2771, 2772]	3753	[690, 4179]	5801	[6339, 4772]	7849	[3135, 2907]

1706	[1407, 1030]	3754	[5078, 2334]	5802	[4869, 61]	7850	[8020, 5290]
1707	[2773, 2774]	3755	[2139, 2207]	5803	[6723, 243]	7851	[8021, 3310]
1708	[2775, 399]	3756	[5079, 637]	5804	[6724, 4994]	7852	[8022, 2962]
1709	[2776, 2777]	3757	[2300, 5080]	5805	[6725, 173]	7853	[5890, 5563]
1710	[2778, 2779]	3758	[5081, 854]	5806	[6726, 4737]	7854	[8023, 457]
1711	[2780, 2781]	3759	[173, 2354]	5807	[4386, 4293]	7855	[2968, 5748]
1712	[2782, 1289]	3760	[48, 2190]	5808	[6727, 6330]	7856	[8024, 4509]
1713	[2783, 2784]	3761	[5082, 5083]	5809	[6728, 6341]	7857	[8025, 2054]
1714	[1512, 2785]	3762	[5084, 5085]	5810	[4095, 2326]	7858	[2108, 1948]
1715	[2786, 2787]	3763	[5086, 1930]	5811	[5176, 6616]	7859	[4566, 4068]
1716	[2788, 1382]	3764	[5087, 799]	5812	[6409, 6509]	7860	[8026, 2644]
1717	[2789, 2790]	3765	[2349, 4895]	5813	[6729, 678]	7861	[8027, 2150]
1718	[2791, 2792]	3766	[5088, 1677]	5814	[6730, 59]	7862	[8028, 7701]
1719	[323, 2793]	3767	[4831, 5089]	5815	[6731, 5186]	7863	[8029, 4865]
1720	[2794, 2795]	3768	[5090, 5091]	5816	[5137, 5226]	7864	[8030, 4231]
1721	[2796, 1092]	3769	[5092, 1907]	5817	[6732, 4805]	7865	[4827, 4974]
1722	[2797, 1353]	3770	[5093, 4920]	5818	[6733, 4116]	7866	[4708, 5179]
1723	[974, 2798]	3771	[4061, 5094]	5819	[4323, 6734]	7867	[8031, 192]
1724	[2799, 2800]	3772	[5095, 158]	5820	[54, 1993]	7868	[2526, 2150]
1725	[2801, 1358]	3773	[5096, 5097]	5821	[2394, 6423]	7869	[8032, 1735]
1726	[2802, 2803]	3774	[5098, 4079]	5822	[601, 6735]	7870	[8033, 1736]
1727	[2804, 89]	3775	[5099, 4101]	5823	[6736, 4177]	7871	[5160, 1968]
1728	[2805, 2806]	3776	[5100, 4392]	5824	[4183, 4036]	7872	[2511, 7595]
1729	[2807, 2808]	3777	[5101, 2]	5825	[6737, 659]	7873	[6538, 5263]
1730	[2809, 1153]	3778	[5102, 4045]	5826	[6738, 4974]	7874	[8034, 7006]
1731	[2810, 2811]	3779	[5103, 4312]	5827	[6739, 6740]	7875	[8035, 2297]
1732	[2812, 2813]	3780	[5104, 5105]	5828	[2010, 2048]	7876	[8036, 4365]
1733	[2814, 351]	3781	[4784, 4084]	5829	[6741, 6475]	7877	[4885, 4612]
1734	[2815, 2816]	3782	[5106, 2155]	5830	[6742, 4197]	7878	[8037, 1727]
1735	[2817, 2818]	3783	[5107, 2329]	5831	[6743, 4640]	7879	[8038, 2682]
1736	[282, 345]	3784	[5108, 4838]	5832	[6744, 2656]	7880	[8039, 7077]
1737	[64, 80]	3785	[5109, 2082]	5833	[6745, 2193]	7881	[8040, 6564]
1738	[88, 2819]	3786	[765, 5110]	5834	[6746, 1912]	7882	[8041, 4745]
1739	[2820, 1105]	3787	[917, 1822]	5835	[6747, 4697]	7883	[8042, 7093]
1740	[2821, 2822]	3788	[5111, 5112]	5836	[6748, 6749]	7884	[8043, 4107]
1741	[2823, 2824]	3789	[5113, 1931]	5837	[4449, 2502]	7885	[8044, 4779]
1742	[2825, 2826]	3790	[5114, 5094]	5838	[504, 4569]	7886	[2289, 2111]
1743	[2827, 2828]	3791	[5115, 1994]	5839	[6750, 2265]	7887	[1787, 4215]
1744	[2829, 2830]	3792	[2331, 2222]	5840	[6751, 2180]	7888	[8045, 6555]
1745	[2831, 2832]	3793	[1658, 2636]	5841	[6752, 5256]	7889	[34, 7036]
1746	[2833, 2834]	3794	[5116, 2294]	5842	[1928, 4263]	7890	[8046, 5279]
1747	[2835, 2836]	3795	[5117, 1793]	5843	[6753, 873]	7891	[5014, 2016]
1748	[2837, 2812]	3796	[746, 2565]	5844	[4143, 6348]	7892	[4860, 5149]
1749	[2838, 2839]	3797	[5118, 2308]	5845	[6754, 2574]	7893	[2162, 6432]

1750	[2840, 2841]	3798	[5119, 2052]	5846	[1817, 1657]	7894	[8047, 6847]
1751	[2842, 284]	3799	[5120, 5065]	5847	[6755, 629]	7895	[4157, 6554]
1752	[2843, 1373]	3800	[5121, 824]	5848	[4994, 2001]	7896	[8048, 7773]
1753	[2844, 2845]	3801	[5122, 591]	5849	[6756, 2402]	7897	[848, 1834]
1754	[2846, 2847]	3802	[2324, 589]	5850	[6644, 2011]	7898	[781, 2254]
1755	[2848, 1101]	3803	[5123, 5124]	5851	[6757, 6520]	7899	[4296, 7719]
1756	[2849, 2850]	3804	[2122, 2234]	5852	[6758, 1891]	7900	[8049, 4970]
1757	[2851, 1287]	3805	[5125, 5126]	5853	[6759, 839]	7901	[8050, 6648]
1758	[2852, 2853]	3806	[5127, 162]	5854	[6760, 669]	7902	[1772, 1827]
1759	[2854, 1648]	3807	[2553, 5128]	5855	[785, 4869]	7903	[2177, 6403]
1760	[1313, 2767]	3808	[211, 683]	5856	[4335, 6445]	7904	[148, 4883]
1761	[416, 2855]	3809	[4830, 1705]	5857	[6761, 2196]	7905	[6633, 4148]
1762	[2856, 1469]	3810	[5129, 2009]	5858	[6762, 6717]	7906	[4873, 6605]
1763	[2857, 1471]	3811	[2670, 4783]	5859	[6763, 4194]	7907	[1689, 7748]
1764	[2858, 2859]	3812	[4617, 4775]	5860	[6764, 607]	7908	[822, 1769]
1765	[2860, 2861]	3813	[2072, 2445]	5861	[6593, 6749]	7909	[4633, 2646]
1766	[2862, 2863]	3814	[5130, 1766]	5862	[6765, 2083]	7910	[8051, 6775]
1767	[2864, 1090]	3815	[2512, 4321]	5863	[6766, 2518]	7911	[8052, 7611]
1768	[2865, 2815]	3816	[5131, 4540]	5864	[533, 6767]	7912	[7609, 4032]
1769	[2866, 2867]	3817	[5132, 1944]	5865	[4748, 4103]	7913	[8053, 7073]
1770	[2868, 387]	3818	[5133, 734]	5866	[6768, 1896]	7914	[673, 6791]
1771	[2869, 1315]	3819	[908, 1756]	5867	[6769, 6664]	7915	[8054, 2595]
1772	[414, 2870]	3820	[5134, 4430]	5868	[6770, 556]	7916	[6929, 7673]
1773	[2871, 2872]	3821	[4489, 1789]	5869	[671, 2591]	7917	[7687, 1977]
1774	[2873, 2874]	3822	[1660, 841]	5870	[6771, 5051]	7918	[8055, 853]
1775	[2875, 1027]	3823	[5135, 4618]	5871	[6772, 2023]	7919	[8056, 2668]
1776	[2876, 2877]	3824	[5136, 2185]	5872	[1794, 6729]	7920	[4377, 2530]
1777	[2878, 1483]	3825	[2478, 5137]	5873	[6773, 748]	7921	[8057, 6915]
1778	[2879, 2880]	3826	[4154, 5022]	5874	[4638, 6774]	7922	[8058, 6573]
1779	[1499, 2881]	3827	[2157, 4546]	5875	[6775, 6776]	7923	[8059, 865]
1780	[2882, 2883]	3828	[5138, 611]	5876	[6777, 6778]	7924	[4028, 492]
1781	[2884, 2885]	3829	[5139, 4914]	5877	[4079, 1981]	7925	[2557, 5151]
1782	[26, 2886]	3830	[5140, 4993]	5878	[2308, 661]	7926	[877, 4565]
1783	[2887, 391]	3831	[5141, 5142]	5879	[6779, 892]	7927	[2564, 4269]
1784	[2888, 2889]	3832	[5143, 2463]	5880	[6780, 4698]	7928	[2686, 580]
1785	[2749, 2890]	3833	[5144, 4606]	5881	[6781, 2414]	7929	[8060, 8061]
1786	[2891, 1462]	3834	[5145, 1804]	5882	[6782, 1958]	7930	[8062, 4016]
1787	[2892, 2893]	3835	[5146, 4278]	5883	[574, 5050]	7931	[8063, 4634]
1788	[327, 1539]	3836	[628, 2486]	5884	[4720, 4016]	7932	[850, 6377]
1789	[1623, 2894]	3837	[5147, 759]	5885	[6783, 6422]	7933	[8064, 2658]
1790	[2895, 85]	3838	[5148, 2277]	5886	[6784, 5142]	7934	[7093, 4671]
1791	[2896, 2897]	3839	[5149, 1865]	5887	[6785, 2275]	7935	[4210, 2054]
1792	[2898, 2899]	3840	[4366, 736]	5888	[6786, 2273]	7936	[4163, 6824]
1793	[2900, 2901]	3841	[5150, 4873]	5889	[2141, 2404]	7937	[8065, 6824]

1794	[404, 2902]	3842	[5151, 702]	5890	[6787, 2149]	7938	[2127, 7070]
1795	[2903, 2904]	3843	[5152, 4702]	5891	[6788, 4061]	7939	[8066, 6653]
1796	[2905, 2906]	3844	[5153, 2502]	5892	[4235, 6756]	7940	[8067, 6941]
1797	[2907, 2908]	3845	[5154, 2253]	5893	[6341, 4752]	7941	[4750, 6524]
1798	[1152, 1080]	3846	[5155, 2609]	5894	[585, 6789]	7942	[8068, 4975]
1799	[2909, 2910]	3847	[5156, 681]	5895	[6790, 6768]	7943	[4863, 6490]
1800	[2906, 2911]	3848	[5157, 756]	5896	[6791, 2641]	7944	[8069, 6856]
1801	[2912, 2913]	3849	[5158, 2491]	5897	[6792, 1995]	7945	[8070, 6695]
1802	[2914, 2915]	3850	[5159, 5160]	5898	[6793, 805]	7946	[7568, 2644]
1803	[1174, 2916]	3851	[4379, 680]	5899	[6794, 4159]	7947	[8071, 4336]
1804	[2917, 2918]	3852	[5161, 4401]	5900	[6795, 6639]	7948	[7619, 4955]
1805	[2919, 985]	3853	[4648, 4309]	5901	[2546, 1873]	7949	[217, 2668]
1806	[2920, 2921]	3854	[4796, 4419]	5902	[6796, 4263]	7950	[8072, 2350]
1807	[2922, 2923]	3855	[5162, 5163]	5903	[6797, 6798]	7951	[8073, 5090]
1808	[2924, 2925]	3856	[5164, 5165]	5904	[6799, 2340]	7952	[4979, 2454]
1809	[2926, 2927]	3857	[5166, 5167]	5905	[6800, 2472]	7953	[8074, 4344]
1810	[2928, 2929]	3858	[5168, 5169]	5906	[6789, 4430]	7954	[6608, 6564]
1811	[2930, 2931]	3859	[5170, 5171]	5907	[662, 6408]	7955	[8075, 2075]
1812	[2932, 2933]	3860	[5172, 4028]	5908	[6801, 5074]	7956	[923, 4136]
1813	[2934, 2935]	3861	[5124, 4040]	5909	[6802, 2177]	7957	[5193, 2273]
1814	[2936, 2937]	3862	[5173, 4018]	5910	[6803, 4546]	7958	[8076, 2641]
1815	[402, 2938]	3863	[5174, 2473]	5911	[6804, 4294]	7959	[8077, 7080]
1816	[266, 2939]	3864	[5175, 5176]	5912	[6805, 6608]	7960	[6776, 7086]
1817	[2940, 2941]	3865	[5177, 538]	5913	[6806, 2420]	7961	[8078, 4830]
1818	[2942, 2943]	3866	[5178, 4489]	5914	[6807, 6756]	7962	[6749, 8061]
1819	[2944, 2945]	3867	[5179, 879]	5915	[6808, 4350]	7963	[6897, 4964]
1820	[2946, 2947]	3868	[4874, 4286]	5916	[4425, 5058]	7964	[5269, 8029]
1821	[2948, 964]	3869	[5180, 4288]	5917	[6809, 4431]	7965	[7712, 7611]
1822	[2949, 1039]	3870	[5181, 747]	5918	[4247, 196]	7966	[8079, 4004]
1823	[1034, 966]	3871	[5043, 536]	5919	[4147, 6583]	7967	[8080, 6432]
1824	[2950, 1151]	3872	[5041, 2520]	5920	[2087, 746]	7968	[8081, 4415]
1825	[2951, 2952]	3873	[5182, 2685]	5921	[6810, 4386]	7969	[8082, 5084]
1826	[2953, 1607]	3874	[649, 4267]	5922	[6811, 4822]	7970	[7062, 6353]
1827	[2954, 2936]	3875	[1912, 45]	5923	[6812, 5080]	7971	[2442, 4227]
1828	[2870, 1570]	3876	[193, 4342]	5924	[6774, 2]	7972	[8083, 2526]
1829	[2955, 2956]	3877	[5183, 2002]	5925	[1870, 6380]	7973	[684, 4634]
1830	[2957, 2958]	3878	[5184, 1966]	5926	[6813, 6814]	7974	[4447, 4901]
1831	[2959, 2791]	3879	[5185, 42]	5927	[6815, 6816]	7975	[8084, 2454]
1832	[2960, 1001]	3880	[5048, 5186]	5928	[6798, 4777]	7976	[8085, 7619]
1833	[2961, 2962]	3881	[5187, 5188]	5929	[1800, 2293]	7977	[767, 715]
1834	[2963, 2964]	3882	[5189, 553]	5930	[6817, 2500]	7978	[4129, 4660]
1835	[2965, 450]	3883	[5190, 813]	5931	[718, 4737]	7979	[7673, 2297]
1836	[434, 2824]	3884	[161, 821]	5932	[6818, 136]	7980	[7748, 4520]
1837	[2966, 295]	3885	[5191, 163]	5933	[6819, 2383]	7981	[7756, 6489]

1838	[2967, 2968]	3886	[1994, 2157]	5934	[6820, 4816]	7982	[6556, 4645]
1839	[2969, 1612]	3887	[5192, 4719]	5935	[6821, 2389]	7983	[8086, 7010]
1840	[2970, 2971]	3888	[4744, 1798]	5936	[4229, 1831]	7984	[2225, 2165]
1841	[2972, 2956]	3889	[854, 5193]	5937	[4226, 2606]	7985	[645, 4004]
1842	[2867, 275]	3890	[5194, 4896]	5938	[6822, 4165]	7986	[4941, 1773]
1843	[2973, 2974]	3891	[1980, 5195]	5939	[2329, 5273]	7987	[4959, 7797]
1844	[2975, 301]	3892	[566, 4506]	5940	[6823, 5051]	7988	[816, 6548]
1845	[2976, 2966]	3893	[5196, 4416]	5941	[6824, 5084]	7989	[8087, 6876]
1846	[2977, 2978]	3894	[5197, 5091]	5942	[4516, 2678]	7990	[4487, 853]
1847	[2979, 2980]	3895	[866, 5198]	5943	[6825, 5193]	7991	[2058, 4761]
1848	[334, 2981]	3896	[695, 5185]	5944	[6826, 1733]	7992	[4037, 7080]
1849	[2982, 2983]	3897	[2367, 1806]	5945	[6827, 2160]	7993	[4549, 4995]
1850	[2984, 2985]	3898	[2378, 594]	5946	[6828, 1802]	7994	[8088, 691]
1851	[2986, 2987]	3899	[5199, 675]	5947	[6829, 4926]	7995	[8089, 5154]
1852	[1253, 2988]	3900	[5200, 2068]	5948	[1736, 2614]	7996	[8090, 6343]
1853	[2989, 2990]	3901	[4908, 4378]	5949	[6830, 5089]	7997	[8091, 2328]
1854	[1602, 2805]	3902	[5201, 2247]	5950	[6715, 6831]	7998	[8092, 6594]
1855	[2991, 1154]	3903	[5202, 4175]	5951	[6832, 4115]	7999	[4492, 6507]
1856	[2992, 2993]	3904	[5203, 4657]	5952	[6833, 893]	8000	[8093, 914]
1857	[2994, 2995]	3905	[5204, 2016]	5953	[6834, 4394]	8001	[7708, 4415]
1858	[2996, 2965]	3906	[710, 5205]	5954	[6835, 6767]	8002	[8094, 6605]
1859	[2997, 1197]	3907	[5206, 4913]	5955	[6521, 5243]	8003	[8095, 6409]
1860	[2998, 2999]	3908	[5058, 813]	5956	[6836, 5198]	8004	[8096, 6971]
1861	[3000, 1136]	3909	[5207, 648]	5957	[6837, 2303]	8005	[8097, 1725]
1862	[2774, 77]	3910	[5208, 2374]	5958	[6838, 2224]	8006	[7049, 2103]
1863	[3001, 3002]	3911	[5209, 5210]	5959	[6839, 6430]	8007	[2548, 7073]
1864	[3003, 1181]	3912	[5211, 4885]	5960	[6840, 826]	8008	[8098, 6604]
1865	[3004, 3005]	3913	[5212, 4911]	5961	[6841, 4646]	8009	[1967, 6971]
1866	[3006, 1470]	3914	[5213, 536]	5962	[6842, 4146]	8010	[2228, 849]
1867	[3007, 383]	3915	[5214, 5215]	5963	[4636, 6740]	8011	[6917, 4336]
1868	[3008, 3009]	3916	[5216, 203]	5964	[6843, 4733]	8012	[8099, 4645]
1869	[3010, 3011]	3917	[5217, 5218]	5965	[6844, 763]	8013	[836, 6594]
1870	[3012, 3013]	3918	[154, 5219]	5966	[2499, 4991]	8014	[8100, 4200]
1871	[483, 29]	3919	[5220, 2349]	5967	[587, 638]	8015	[8101, 6507]
1872	[3014, 3015]	3920	[5221, 2523]	5968	[6845, 6774]	8016	[8102, 4728]
1873	[3016, 3017]	3921	[5222, 2351]	5969	[6846, 493]	8017	[6346, 7017]
1874	[3018, 2934]	3922	[753, 2580]	5970	[6333, 2022]	8018	[8103, 6548]
1875	[3019, 2973]	3923	[4343, 5223]	5971	[4909, 4177]	8019	[8104, 2665]
1876	[3020, 1105]	3924	[5224, 4492]	5972	[726, 6847]	8020	[4821, 4928]
1877	[3021, 3022]	3925	[5225, 5226]	5973	[2444, 6680]	8021	[8105, 4884]
1878	[3023, 3024]	3926	[5227, 2063]	5974	[6848, 4491]	8022	[8106, 4671]
1879	[2779, 427]	3927	[5228, 4524]	5975	[2096, 1838]	8023	[8107, 2191]
1880	[3025, 3026]	3928	[5053, 1855]	5976	[6849, 4849]	8024	[5282, 6055]
1881	[3027, 1099]	3929	[5229, 909]	5977	[6638, 6399]	8025	[6154, 5531]

1882	[3028, 3029]	3930	[5230, 5043]	5978	[6850, 2060]	8026	[8108, 3802]
1883	[3030, 3031]	3931	[5231, 4179]	5979	[6851, 56]	8027	[8109, 3306]
1884	[3032, 3033]	3932	[5232, 2161]	5980	[6852, 2568]	8028	[8110, 1532]
1885	[3034, 2934]	3933	[5233, 1875]	5981	[6853, 4247]	8029	[8111, 369]
1886	[444, 349]	3934	[5234, 2316]	5982	[6854, 5117]	8030	[8112, 102]
1887	[1401, 2697]	3935	[5235, 498]	5983	[6855, 5128]	8031	[2980, 6159]
1888	[3035, 3036]	3936	[1677, 4056]	5984	[6856, 786]	8032	[8113, 5657]
1889	[412, 3037]	3937	[4105, 862]	5985	[6550, 4161]	8033	[5923, 3598]
1890	[3038, 3039]	3938	[5236, 1968]	5986	[4552, 36]	8034	[5532, 5945]
1891	[3040, 3041]	3939	[134, 5019]	5987	[6857, 1780]	8035	[8114, 2721]
1892	[1098, 3042]	3940	[2631, 2427]	5988	[890, 6684]	8036	[8115, 1575]
1893	[3043, 3044]	3941	[5237, 499]	5989	[4802, 2561]	8037	[2983, 5720]
1894	[3045, 3046]	3942	[1911, 5238]	5990	[6858, 2492]	8038	[8116, 1573]
1895	[3047, 361]	3943	[5239, 2539]	5991	[6859, 537]	8039	[336, 6213]
1896	[3048, 2702]	3944	[5240, 4143]	5992	[4130, 5169]	8040	[5857, 3902]
1897	[370, 3049]	3945	[5085, 1964]	5993	[6860, 836]	8041	[3155, 1229]
1898	[2889, 3050]	3946	[576, 4060]	5994	[6861, 608]	8042	[5290, 5410]
1899	[3051, 1619]	3947	[5241, 2196]	5995	[6862, 233]	8043	[1007, 2747]
1900	[2730, 3052]	3948	[4252, 2476]	5996	[136, 5126]	8044	[8117, 5299]
1901	[3053, 3054]	3949	[5242, 4337]	5997	[6863, 2192]	8045	[2935, 16]
1902	[3055, 3056]	3950	[5243, 4082]	5998	[742, 1916]	8046	[8118, 7922]
1903	[3057, 467]	3951	[5244, 2405]	5999	[4385, 5210]	8047	[6159, 2787]
1904	[1335, 3058]	3952	[1846, 5245]	6000	[6452, 6784]	8048	[7376, 3739]
1905	[3059, 2880]	3953	[5246, 4031]	6001	[6864, 6479]	8049	[8119, 952]
1906	[3060, 3061]	3954	[4207, 5048]	6002	[6865, 4922]	8050	[8120, 30]
1907	[3062, 3063]	3955	[5247, 729]	6003	[6866, 4424]	8051	[290, 5784]
1908	[3064, 2875]	3956	[5248, 2204]	6004	[6867, 6789]	8052	[8121, 261]
1909	[3065, 1328]	3957	[4155, 2544]	6005	[6868, 4892]	8053	[387, 2944]
1910	[3066, 1552]	3958	[5249, 2100]	6006	[1700, 6869]	8054	[8122, 1183]
1911	[3067, 3068]	3959	[804, 4770]	6007	[6870, 6331]	8055	[1028, 1540]
1912	[3069, 3070]	3960	[5250, 2440]	6008	[615, 1743]	8056	[3979, 1135]
1913	[3071, 3072]	3961	[5251, 4484]	6009	[6871, 4780]	8057	[5454, 5993]
1914	[3073, 3074]	3962	[5252, 5253]	6010	[6872, 1848]	8058	[8123, 3384]
1915	[3075, 3076]	3963	[630, 4702]	6011	[6873, 5244]	8059	[1137, 5923]
1916	[3077, 3078]	3964	[2151, 2271]	6012	[5215, 6874]	8060	[1180, 3794]
1917	[3079, 315]	3965	[1746, 4809]	6013	[1865, 5171]	8061	[8124, 3191]
1918	[3080, 117]	3966	[5254, 4188]	6014	[6875, 6516]	8062	[8125, 5339]
1919	[3081, 1494]	3967	[5255, 2681]	6015	[2246, 4514]	8063	[3246, 3330]
1920	[2847, 3082]	3968	[1, 1958]	6016	[6876, 2288]	8064	[3775, 6194]
1921	[1342, 3083]	3969	[5256, 4207]	6017	[6877, 2285]	8065	[8126, 5308]
1922	[116, 3084]	3970	[5071, 621]	6018	[6878, 5175]	8066	[5381, 2811]
1923	[3085, 3086]	3971	[5257, 2094]	6019	[6879, 4409]	8067	[5855, 1041]
1924	[3087, 2879]	3972	[2306, 2551]	6020	[4717, 6576]	8068	[364, 3070]
1925	[1393, 1635]	3973	[5258, 5163]	6021	[4042, 4408]	8069	[6256, 975]

1926	[3088, 3089]	3974	[5259, 4056]	6022	[6880, 5218]	8070	[8127, 3969]
1927	[3090, 3091]	3975	[5260, 4827]	6023	[6778, 2420]	8071	[8128, 3821]
1928	[3092, 3050]	3976	[5261, 2575]	6024	[6881, 52]	8072	[8129, 6011]
1929	[3093, 3094]	3977	[2419, 4151]	6025	[4975, 4957]	8073	[6092, 6271]
1930	[3095, 1282]	3978	[5262, 4167]	6026	[6882, 6883]	8074	[8130, 3427]
1931	[2701, 396]	3979	[5263, 1666]	6027	[6884, 4809]	8075	[8131, 3303]
1932	[3096, 3097]	3980	[5264, 1964]	6028	[6885, 1715]	8076	[8132, 1478]
1933	[3098, 3099]	3981	[5265, 598]	6029	[2298, 2174]	8077	[3348, 3325]
1934	[1182, 3100]	3982	[692, 2133]	6030	[2615, 6541]	8078	[8133, 1500]
1935	[3101, 2807]	3983	[5266, 5176]	6031	[6886, 2114]	8079	[2899, 2751]
1936	[3102, 3103]	3984	[5267, 4233]	6032	[6887, 1740]	8080	[8134, 3538]
1937	[3104, 2748]	3985	[4780, 4327]	6033	[6888, 715]	8081	[8135, 3567]
1938	[3105, 3106]	3986	[5268, 5269]	6034	[6889, 6791]	8082	[8136, 3478]
1939	[3107, 3108]	3987	[5270, 2289]	6035	[6890, 6505]	8083	[5911, 3194]
1940	[3109, 3110]	3988	[5271, 2129]	6036	[6891, 6831]	8084	[8137, 2948]
1941	[3111, 3112]	3989	[4805, 1692]	6037	[140, 2013]	8085	[5997, 6114]
1942	[1257, 3113]	3990	[1858, 5272]	6038	[2160, 1911]	8086	[8138, 2847]
1943	[3114, 3115]	3991	[5273, 2669]	6039	[6892, 1947]	8087	[8139, 435]
1944	[3116, 3117]	3992	[5274, 2185]	6040	[6893, 1769]	8088	[8140, 1277]
1945	[3118, 1096]	3993	[2514, 5124]	6041	[6894, 1845]	8089	[3393, 3191]
1946	[3119, 1321]	3994	[2119, 4452]	6042	[6895, 6510]	8090	[3371, 6293]
1947	[3120, 3121]	3995	[4840, 1719]	6043	[6896, 6897]	8091	[3516, 5915]
1948	[3122, 3123]	3996	[5275, 5099]	6044	[6898, 762]	8092	[82, 7901]
1949	[3124, 3125]	3997	[5276, 4425]	6045	[6899, 4790]	8093	[8141, 1304]
1950	[3099, 3126]	3998	[5277, 5278]	6046	[6900, 4037]	8094	[6183, 3626]
1951	[3127, 3128]	3999	[5279, 4196]	6047	[6901, 543]	8095	[8142, 3522]
1952	[391, 355]	4000	[4657, 4488]	6048	[732, 2440]	8096	[2945, 3797]
1953	[3129, 3130]	4001	[5280, 3909]	6049	[6902, 633]	8097	[8143, 2750]
1954	[3131, 3132]	4002	[5281, 5282]	6050	[744, 6499]	8098	[8144, 5999]
1955	[1073, 3133]	4003	[1209, 3963]	6051	[1828, 4553]	8099	[8145, 3233]
1956	[3134, 3135]	4004	[5283, 5284]	6052	[552, 4167]	8100	[120, 7922]
1957	[3136, 3137]	4005	[3013, 5285]	6053	[181, 6903]	8101	[8146, 3299]
1958	[3138, 3139]	4006	[5286, 2929]	6054	[6904, 4899]	8102	[8147, 1326]
1959	[4, 3140]	4007	[5287, 3969]	6055	[6905, 4655]	8103	[5835, 3953]
1960	[3141, 438]	4008	[5288, 2830]	6056	[4833, 2170]	8104	[1233, 5550]
1961	[3142, 1574]	4009	[5289, 3789]	6057	[6906, 4262]	8105	[5771, 6315]
1962	[1023, 3143]	4010	[3569, 5290]	6058	[6907, 4552]	8106	[8148, 6086]
1963	[3144, 107]	4011	[5291, 5292]	6059	[6908, 2370]	8107	[1615, 3364]
1964	[3145, 3146]	4012	[5293, 5294]	6060	[774, 4681]	8108	[8149, 2165]
1965	[3147, 2948]	4013	[1219, 1386]	6061	[6909, 2388]	8109	[7070, 4598]
1966	[3148, 348]	4014	[5295, 1169]	6062	[2014, 6717]	8110	[8150, 7719]
1967	[1438, 3149]	4015	[3022, 3012]	6063	[6910, 520]	8111	[8151, 6423]
1968	[3150, 2794]	4016	[5296, 3675]	6064	[6911, 2033]	8112	[8152, 6626]
1969	[3151, 3152]	4017	[3130, 1161]	6065	[6912, 4221]	8113	[8153, 1903]

1970	[3153, 3055]	4018	[5297, 5298]	6066	[2552, 6568]	8114	[626, 188]
1971	[3154, 3155]	4019	[3532, 3907]	6067	[6913, 4888]	8115	[8061, 4773]
1972	[3031, 3156]	4020	[5299, 5300]	6068	[6914, 5085]	8116	[8154, 4364]
1973	[2744, 1574]	4021	[5301, 3911]	6069	[6915, 251]	8117	[8155, 6403]
1974	[994, 2778]	4022	[5302, 2727]	6070	[6640, 2118]	8118	[6670, 4710]
1975	[3157, 3158]	4023	[5303, 5304]	6071	[6916, 4941]	8119	[8156, 1696]
1976	[3159, 2917]	4024	[5305, 983]	6072	[6705, 6917]	8120	[8157, 6513]
1977	[3160, 3161]	4025	[3729, 5306]	6073	[6918, 4222]	8121	[2271, 4065]
1978	[3162, 3163]	4026	[1196, 983]	6074	[6919, 801]	8122	[4618, 2062]
1979	[1136, 3046]	4027	[1048, 5307]	6075	[6920, 4958]	8123	[8158, 5002]
1980	[469, 3080]	4028	[3058, 5308]	6076	[142, 6475]	8124	[8159, 4551]
1981	[3164, 3159]	4029	[5309, 1437]	6077	[1955, 839]	8125	[2589, 6856]
1982	[3165, 3166]	4030	[3386, 1146]	6078	[6831, 1939]	8126	[8160, 7017]
1983	[3167, 3168]	4031	[5310, 5311]	6079	[6921, 712]	8127	[8161, 5179]
1984	[3169, 3170]	4032	[5312, 3974]	6080	[6922, 6776]	8128	[4993, 4200]
1985	[3171, 3172]	4033	[5313, 3668]	6081	[6923, 742]	8129	[8162, 202]
1986	[3173, 3174]	4034	[5314, 1508]	6082	[6924, 6376]	8130	[4406, 4311]
1987	[3175, 1594]	4035	[5315, 2803]	6083	[6925, 2538]	8131	[8163, 4660]
1988	[3176, 2894]	4036	[5316, 5317]	6084	[6926, 2533]	8132	[6382, 1696]
1989	[3177, 3178]	4037	[1295, 952]	6085	[6927, 2517]	8133	[8164, 4761]
1990	[3179, 3180]	4038	[5318, 1246]	6086	[6568, 2159]	8134	[8165, 5166]
1991	[2690, 3181]	4039	[2901, 3437]	6087	[6928, 2229]	8135	[8166, 2062]
1992	[3182, 3183]	4040	[3645, 3656]	6088	[5080, 6929]	8136	[8167, 4155]
1993	[422, 3184]	4041	[5319, 3663]	6089	[6930, 2162]	8137	[5045, 2226]
1994	[3185, 3186]	4042	[1646, 3549]	6090	[6931, 2341]	8138	[8168, 4609]
1995	[3187, 1222]	4043	[5320, 5321]	6091	[2389, 4348]	8139	[2221, 7821]
1996	[3188, 1224]	4044	[5321, 5322]	6092	[6932, 1650]	8140	[603, 2191]
1997	[3189, 3190]	4045	[5323, 3935]	6093	[5089, 4388]	8141	[4124, 2665]
1998	[3191, 3192]	4046	[5324, 3235]	6094	[6933, 6571]	8142	[4073, 6961]
1999	[3106, 1467]	4047	[3269, 1632]	6095	[5278, 2461]	8143	[1926, 4107]
2000	[3193, 3194]	4048	[3936, 2733]	6096	[6934, 6697]	8144	[8169, 849]
2001	[3195, 3196]	4049	[3029, 3826]	6097	[6935, 4641]	8145	[8170, 2226]
2002	[3197, 3083]	4050	[1309, 1077]	6098	[1791, 6936]	8146	[4953, 4819]
2003	[3198, 3199]	4051	[1317, 938]	6099	[6937, 542]	8147	[4194, 5241]
2004	[2752, 2773]	4052	[3766, 5325]	6100	[6938, 4594]	8148	[1872, 5166]
2005	[2806, 3200]	4053	[5326, 3766]	6101	[6939, 132]	8149	[1248, 3410]
2006	[3201, 3202]	4054	[3702, 2728]	6102	[225, 857]	8150	[8171, 3977]
2007	[1042, 2887]	4055	[471, 1600]	6103	[6940, 1940]	8151	[5512, 2906]
2008	[3203, 1280]	4056	[1436, 3269]	6104	[4290, 6816]	8152	[8172, 5344]
2009	[1093, 3204]	4057	[5327, 1233]	6105	[714, 49]	8153	[957, 1618]
2010	[3205, 993]	4058	[5328, 3932]	6106	[6430, 4483]	8154	[8173, 425]
2011	[3206, 3207]	4059	[1598, 257]	6107	[6941, 4174]	8155	[5921, 2754]
2012	[3208, 3209]	4060	[5329, 1381]	6108	[6942, 5003]	8156	[8174, 960]
2013	[3210, 3211]	4061	[5330, 3781]	6109	[6943, 6490]	8157	[8175, 5757]

2014	[3212, 3213]	4062	[5331, 1325]	6110	[6944, 4424]	8158	[8176, 1175]
2015	[3214, 3215]	4063	[1507, 5332]	6111	[4764, 6864]	8159	[8177, 5786]
2016	[3216, 2694]	4064	[1481, 5333]	6112	[6945, 6946]	8160	[8178, 1580]
2017	[1250, 3217]	4065	[5334, 5335]	6113	[6947, 4062]	8161	[8179, 2870]
2018	[3218, 3219]	4066	[3425, 3994]	6114	[6948, 2515]	8162	[100, 5467]
2019	[3220, 1003]	4067	[5336, 3297]	6115	[6949, 2024]	8163	[348, 5868]
2020	[1514, 1122]	4068	[5337, 3758]	6116	[6950, 4985]	8164	[1270, 5481]
2021	[3221, 1364]	4069	[5338, 5339]	6117	[4661, 4997]	8165	[1223, 3341]
2022	[3222, 3223]	4070	[1417, 5340]	6118	[6951, 4991]	8166	[3787, 6005]
2023	[3224, 3225]	4071	[3313, 5341]	6119	[6952, 6953]	8167	[3026, 6255]
2024	[3226, 1639]	4072	[5342, 307]	6120	[6954, 6955]	8168	[5534, 3631]
2025	[3227, 2851]	4073	[5343, 5344]	6121	[6956, 1801]	8169	[3049, 3230]
2026	[3228, 3212]	4074	[1607, 308]	6122	[6957, 4457]	8170	[8180, 377]
2027	[3229, 3230]	4075	[1487, 5345]	6123	[6958, 4168]	8171	[8181, 8029]
2028	[3231, 2855]	4076	[5346, 3764]	6124	[6959, 6944]	8172	[8182, 5241]
2029	[3232, 3233]	4077	[5347, 1588]	6125	[6960, 4168]	8173	[7021, 809]
2030	[3234, 3235]	4078	[5348, 2711]	6126	[2047, 631]	8174	[1931, 202]
2031	[3236, 2741]	4079	[3902, 3019]	6127	[5019, 505]	8175	[8183, 7821]
2032	[362, 1056]	4080	[5349, 1515]	6128	[6961, 530]	8176	[8184, 1773]
2033	[3237, 3238]	4081	[2766, 3569]	6129	[6962, 4306]	8177	[4783, 4884]
2034	[2958, 3239]	4082	[5350, 5351]	6130	[6963, 2248]	8178	[8185, 4829]
2035	[3240, 3241]	4083	[1449, 1095]	6131	[6964, 45]	8179	[8186, 6961]
2036	[3242, 1181]	4084	[1141, 5352]	6132	[2473, 4549]	8180	[8187, 4819]
2037	[2927, 3243]	4085	[5353, 5354]	6133	[6965, 2393]	8181	[8188, 5967]
2038	[3244, 1070]	4086	[5355, 2910]	6134	[4119, 2075]	8182	[1252, 3546]
2039	[3245, 3246]	4087	[5356, 2831]	6135	[6966, 205]	8183	[3518, 3651]
2040	[1178, 3247]	4088	[5357, 3816]	6136	[6967, 2585]	8184	[5284, 3572]
2041	[3248, 3249]	4089	[5358, 3503]	6137	[6510, 2102]	8185	[8189, 1489]
2042	[3250, 3251]	4090	[126, 3102]	6138	[2166, 6394]	8186	[2795, 5612]
2043	[3252, 3253]	4091	[5359, 2845]	6139	[6968, 1703]	8187	[3761, 1310]
2044	[3254, 1183]	4092	[1569, 109]	6140	[6969, 2301]	8188	[6816, 4829]
2045	[3255, 3256]	4093	[5360, 2834]	6141	[6970, 2039]	8189	[4730, 8046]
2046	[3257, 3258]	4094	[947, 3531]	6142	[6971, 4009]		
2047	[3259, 1175]	4095	[5361, 3865]	6143	[6740, 2138]		

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1366	1	2732	0	4098	1	5464	0	6830	1
1	0	1367	0	2733	0	4099	1	5465	0	6831	1
2	0	1368	0	2734	1	4100	0	5466	1	6832	0
3	0	1369	1	2735	0	4101	1	5467	0	6833	0
4	0	1370	0	2736	1	4102	0	5468	0	6834	1
5	0	1371	0	2737	0	4103	0	5469	1	6835	1
6	0	1372	1	2738	0	4104	0	5470	0	6836	1

7	0	1373	1	2739	0	4105	1	5471	1	6837	0
8	0	1374	0	2740	0	4106	0	5472	1	6838	1
9	0	1375	0	2741	1	4107	1	5473	0	6839	1
10	0	1376	0	2742	1	4108	0	5474	1	6840	0
11	0	1377	1	2743	0	4109	1	5475	1	6841	0
12	1	1378	0	2744	1	4110	1	5476	1	6842	1
13	0	1379	0	2745	0	4111	1	5477	0	6843	1
14	1	1380	0	2746	0	4112	0	5478	1	6844	1
15	0	1381	0	2747	1	4113	1	5479	0	6845	1
16	1	1382	1	2748	1	4114	1	5480	0	6846	0
17	0	1383	0	2749	1	4115	1	5481	0	6847	0
18	1	1384	1	2750	0	4116	1	5482	1	6848	0
19	0	1385	0	2751	1	4117	1	5483	1	6849	1
20	0	1386	0	2752	0	4118	0	5484	0	6850	1
21	0	1387	0	2753	0	4119	1	5485	1	6851	1
22	1	1388	0	2754	1	4120	0	5486	1	6852	1
23	0	1389	0	2755	1	4121	1	5487	1	6853	0
24	0	1390	0	2756	0	4122	1	5488	0	6854	1
25	1	1391	1	2757	1	4123	0	5489	0	6855	1
26	1	1392	1	2758	1	4124	0	5490	1	6856	1
27	0	1393	0	2759	0	4125	0	5491	0	6857	0
28	1	1394	0	2760	0	4126	1	5492	1	6858	0
29	1	1395	1	2761	1	4127	0	5493	0	6859	0
30	1	1396	0	2762	0	4128	0	5494	1	6860	0
31	0	1397	1	2763	1	4129	1	5495	1	6861	0
32	1	1398	0	2764	1	4130	0	5496	0	6862	0
33	1	1399	0	2765	1	4131	0	5497	1	6863	0
34	1	1400	1	2766	1	4132	0	5498	0	6864	0
35	0	1401	0	2767	0	4133	0	5499	1	6865	1
36	0	1402	1	2768	1	4134	1	5500	1	6866	0
37	1	1403	1	2769	1	4135	1	5501	1	6867	0
38	0	1404	1	2770	1	4136	1	5502	1	6868	1
39	0	1405	1	2771	1	4137	1	5503	1	6869	1
40	1	1406	0	2772	0	4138	0	5504	1	6870	0
41	0	1407	1	2773	0	4139	1	5505	0	6871	0
42	0	1408	0	2774	0	4140	0	5506	0	6872	0
43	0	1409	1	2775	0	4141	0	5507	1	6873	0
44	1	1410	0	2776	0	4142	0	5508	0	6874	1
45	1	1411	0	2777	0	4143	1	5509	0	6875	0
46	1	1412	0	2778	0	4144	0	5510	1	6876	0
47	0	1413	1	2779	1	4145	0	5511	0	6877	1
48	1	1414	1	2780	0	4146	0	5512	1	6878	1
49	0	1415	1	2781	1	4147	1	5513	0	6879	0
50	0	1416	0	2782	1	4148	0	5514	0	6880	1

51	1	1417	0	2783	0	4149	1	5515	1	6881	0
52	0	1418	1	2784	1	4150	1	5516	1	6882	0
53	1	1419	1	2785	0	4151	1	5517	0	6883	0
54	1	1420	0	2786	1	4152	1	5518	0	6884	1
55	0	1421	0	2787	1	4153	0	5519	0	6885	0
56	1	1422	1	2788	0	4154	0	5520	0	6886	0
57	1	1423	1	2789	0	4155	1	5521	1	6887	0
58	1	1424	1	2790	0	4156	0	5522	1	6888	0
59	1	1425	0	2791	1	4157	0	5523	1	6889	1
60	0	1426	1	2792	1	4158	1	5524	1	6890	0
61	1	1427	1	2793	0	4159	1	5525	1	6891	0
62	1	1428	0	2794	0	4160	1	5526	1	6892	0
63	0	1429	0	2795	1	4161	0	5527	1	6893	0
64	1	1430	0	2796	0	4162	1	5528	1	6894	0
65	1	1431	0	2797	1	4163	1	5529	0	6895	1
66	0	1432	1	2798	0	4164	1	5530	1	6896	1
67	1	1433	0	2799	1	4165	0	5531	1	6897	1
68	1	1434	1	2800	0	4166	0	5532	1	6898	1
69	1	1435	1	2801	0	4167	1	5533	1	6899	0
70	0	1436	1	2802	1	4168	0	5534	1	6900	1
71	0	1437	0	2803	1	4169	1	5535	1	6901	1
72	0	1438	0	2804	1	4170	1	5536	1	6902	1
73	0	1439	0	2805	0	4171	0	5537	1	6903	1
74	0	1440	0	2806	0	4172	1	5538	0	6904	1
75	1	1441	1	2807	0	4173	1	5539	1	6905	0
76	1	1442	1	2808	0	4174	1	5540	0	6906	1
77	0	1443	1	2809	0	4175	1	5541	1	6907	1
78	0	1444	0	2810	1	4176	1	5542	0	6908	1
79	0	1445	1	2811	0	4177	0	5543	0	6909	0
80	0	1446	0	2812	0	4178	1	5544	1	6910	1
81	1	1447	0	2813	0	4179	0	5545	1	6911	1
82	1	1448	1	2814	1	4180	1	5546	0	6912	1
83	0	1449	1	2815	1	4181	1	5547	0	6913	0
84	0	1450	1	2816	1	4182	0	5548	0	6914	1
85	0	1451	1	2817	0	4183	0	5549	0	6915	0
86	1	1452	1	2818	0	4184	1	5550	1	6916	0
87	0	1453	0	2819	1	4185	1	5551	0	6917	1
88	1	1454	0	2820	1	4186	0	5552	0	6918	0
89	1	1455	1	2821	0	4187	0	5553	1	6919	0
90	0	1456	1	2822	1	4188	0	5554	0	6920	1
91	1	1457	0	2823	1	4189	1	5555	0	6921	1
92	1	1458	1	2824	1	4190	0	5556	1	6922	1
93	1	1459	1	2825	1	4191	0	5557	0	6923	0
94	1	1460	0	2826	0	4192	1	5558	0	6924	0

95	0	1461	1	2827	1	4193	1	5559	0	6925	1
96	1	1462	1	2828	1	4194	0	5560	1	6926	0
97	1	1463	0	2829	0	4195	0	5561	0	6927	0
98	0	1464	0	2830	1	4196	1	5562	1	6928	0
99	0	1465	1	2831	0	4197	0	5563	1	6929	0
100	1	1466	0	2832	1	4198	0	5564	0	6930	0
101	0	1467	1	2833	0	4199	0	5565	0	6931	1
102	0	1468	1	2834	1	4200	1	5566	0	6932	1
103	1	1469	1	2835	1	4201	0	5567	1	6933	1
104	0	1470	0	2836	1	4202	0	5568	1	6934	1
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106	0	1472	1	2838	1	4204	1	5570	0	6936	1
107	1	1473	1	2839	0	4205	1	5571	0	6937	1
108	1	1474	1	2840	1	4206	0	5572	1	6938	1
109	1	1475	0	2841	0	4207	1	5573	1	6939	0
110	0	1476	0	2842	1	4208	1	5574	0	6940	1
111	0	1477	0	2843	1	4209	0	5575	1	6941	0
112	1	1478	1	2844	0	4210	0	5576	1	6942	1
113	1	1479	1	2845	1	4211	1	5577	0	6943	1
114	1	1480	1	2846	0	4212	0	5578	1	6944	1
115	1	1481	0	2847	0	4213	0	5579	1	6945	0
116	0	1482	1	2848	1	4214	1	5580	1	6946	1
117	1	1483	1	2849	0	4215	1	5581	0	6947	0
118	0	1484	1	2850	1	4216	1	5582	1	6948	0
119	1	1485	0	2851	0	4217	1	5583	0	6949	0
120	1	1486	1	2852	1	4218	0	5584	1	6950	1
121	0	1487	0	2853	0	4219	0	5585	1	6951	1
122	0	1488	0	2854	0	4220	0	5586	0	6952	0
123	1	1489	0	2855	0	4221	1	5587	0	6953	0
124	0	1490	1	2856	0	4222	1	5588	1	6954	0
125	1	1491	1	2857	0	4223	1	5589	0	6955	1
126	1	1492	0	2858	1	4224	0	5590	0	6956	0
127	0	1493	1	2859	1	4225	0	5591	1	6957	1
128	0	1494	1	2860	0	4226	0	5592	0	6958	1
129	1	1495	1	2861	1	4227	0	5593	0	6959	1
130	1	1496	1	2862	1	4228	1	5594	0	6960	0
131	1	1497	1	2863	1	4229	0	5595	1	6961	1
132	0	1498	1	2864	0	4230	0	5596	1	6962	1
133	0	1499	0	2865	1	4231	1	5597	0	6963	0
134	1	1500	0	2866	1	4232	1	5598	0	6964	0
135	1	1501	0	2867	0	4233	1	5599	1	6965	0
136	0	1502	0	2868	1	4234	0	5600	1	6966	1
137	1	1503	1	2869	0	4235	1	5601	1	6967	0
138	0	1504	0	2870	1	4236	0	5602	0	6968	0

139	1	1505	1	2871	1	4237	1	5603	1	6969	1
140	1	1506	1	2872	0	4238	1	5604	0	6970	1
141	0	1507	1	2873	1	4239	1	5605	0	6971	0
142	0	1508	0	2874	1	4240	1	5606	0	6972	0
143	0	1509	1	2875	1	4241	1	5607	1	6973	1
144	0	1510	0	2876	1	4242	1	5608	0	6974	1
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146	0	1512	1	2878	0	4244	0	5610	0	6976	1
147	0	1513	1	2879	0	4245	1	5611	1	6977	0
148	1	1514	1	2880	1	4246	0	5612	0	6978	0
149	0	1515	1	2881	1	4247	1	5613	1	6979	1
150	1	1516	0	2882	1	4248	0	5614	1	6980	0
151	1	1517	0	2883	0	4249	0	5615	1	6981	0
152	0	1518	1	2884	0	4250	1	5616	1	6982	0
153	1	1519	1	2885	0	4251	0	5617	0	6983	0
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155	0	1521	0	2887	0	4253	1	5619	1	6985	0
156	0	1522	1	2888	0	4254	1	5620	0	6986	0
157	0	1523	1	2889	1	4255	1	5621	1	6987	0
158	0	1524	1	2890	1	4256	0	5622	1	6988	1
159	0	1525	0	2891	0	4257	0	5623	1	6989	1
160	1	1526	1	2892	0	4258	1	5624	0	6990	0
161	0	1527	1	2893	1	4259	0	5625	1	6991	0
162	1	1528	1	2894	1	4260	1	5626	0	6992	0
163	1	1529	1	2895	1	4261	1	5627	0	6993	0
164	1	1530	1	2896	1	4262	0	5628	1	6994	1
165	0	1531	1	2897	0	4263	0	5629	0	6995	0
166	0	1532	1	2898	1	4264	0	5630	0	6996	1
167	1	1533	0	2899	1	4265	0	5631	0	6997	1
168	0	1534	0	2900	0	4266	0	5632	1	6998	0
169	0	1535	0	2901	1	4267	1	5633	0	6999	1
170	0	1536	0	2902	1	4268	1	5634	1	7000	1
171	0	1537	0	2903	0	4269	1	5635	1	7001	0
172	1	1538	0	2904	1	4270	0	5636	0	7002	1
173	0	1539	1	2905	0	4271	1	5637	1	7003	0
174	0	1540	1	2906	1	4272	1	5638	0	7004	0
175	1	1541	0	2907	0	4273	1	5639	0	7005	0
176	1	1542	0	2908	1	4274	1	5640	0	7006	0
177	0	1543	1	2909	1	4275	0	5641	0	7007	0
178	1	1544	0	2910	1	4276	0	5642	1	7008	1
179	0	1545	0	2911	0	4277	1	5643	0	7009	0
180	0	1546	1	2912	0	4278	1	5644	0	7010	1
181	0	1547	0	2913	0	4279	1	5645	1	7011	0
182	1	1548	1	2914	1	4280	1	5646	1	7012	1

183	0	1549	1	2915	0	4281	0	5647	1	7013	0
184	1	1550	1	2916	1	4282	1	5648	0	7014	1
185	1	1551	0	2917	0	4283	1	5649	1	7015	1
186	1	1552	0	2918	0	4284	0	5650	1	7016	1
187	1	1553	0	2919	0	4285	0	5651	0	7017	1
188	1	1554	0	2920	0	4286	0	5652	0	7018	1
189	1	1555	1	2921	1	4287	0	5653	1	7019	0
190	0	1556	0	2922	1	4288	1	5654	1	7020	1
191	0	1557	0	2923	1	4289	1	5655	1	7021	0
192	1	1558	1	2924	0	4290	0	5656	1	7022	0
193	1	1559	0	2925	1	4291	0	5657	1	7023	0
194	1	1560	1	2926	1	4292	1	5658	1	7024	1
195	1	1561	1	2927	1	4293	1	5659	1	7025	0
196	0	1562	1	2928	1	4294	0	5660	1	7026	1
197	0	1563	0	2929	0	4295	0	5661	1	7027	0
198	0	1564	1	2930	0	4296	0	5662	0	7028	0
199	1	1565	1	2931	1	4297	0	5663	1	7029	1
200	1	1566	0	2932	1	4298	0	5664	1	7030	1
201	0	1567	1	2933	1	4299	1	5665	0	7031	1
202	0	1568	0	2934	0	4300	0	5666	1	7032	1
203	1	1569	0	2935	1	4301	1	5667	0	7033	1
204	0	1570	1	2936	0	4302	0	5668	1	7034	0
205	0	1571	0	2937	0	4303	0	5669	0	7035	0
206	1	1572	1	2938	0	4304	0	5670	0	7036	0
207	1	1573	1	2939	0	4305	0	5671	0	7037	0
208	0	1574	1	2940	0	4306	1	5672	1	7038	0
209	0	1575	1	2941	1	4307	0	5673	0	7039	0
210	0	1576	1	2942	1	4308	1	5674	1	7040	1
211	0	1577	0	2943	0	4309	0	5675	0	7041	0
212	0	1578	1	2944	1	4310	1	5676	0	7042	1
213	1	1579	1	2945	1	4311	0	5677	1	7043	0
214	1	1580	0	2946	0	4312	0	5678	1	7044	0
215	1	1581	0	2947	1	4313	1	5679	0	7045	1
216	1	1582	0	2948	0	4314	0	5680	0	7046	1
217	1	1583	0	2949	0	4315	0	5681	0	7047	0
218	1	1584	1	2950	1	4316	0	5682	1	7048	1
219	1	1585	1	2951	1	4317	1	5683	0	7049	0
220	0	1586	1	2952	0	4318	1	5684	0	7050	0
221	1	1587	0	2953	0	4319	1	5685	0	7051	1
222	0	1588	0	2954	1	4320	1	5686	0	7052	0
223	1	1589	0	2955	0	4321	0	5687	1	7053	1
224	1	1590	0	2956	0	4322	1	5688	0	7054	0
225	1	1591	0	2957	0	4323	0	5689	0	7055	1
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227	1	1593	0	2959	0	4325	1	5691	0	7057	1
228	0	1594	1	2960	0	4326	1	5692	1	7058	1
229	1	1595	1	2961	0	4327	0	5693	1	7059	0
230	0	1596	0	2962	0	4328	0	5694	1	7060	1
231	0	1597	1	2963	0	4329	1	5695	1	7061	1
232	1	1598	1	2964	0	4330	1	5696	0	7062	0
233	1	1599	1	2965	0	4331	0	5697	0	7063	1
234	0	1600	0	2966	1	4332	0	5698	0	7064	0
235	0	1601	0	2967	1	4333	1	5699	1	7065	0
236	1	1602	0	2968	1	4334	0	5700	0	7066	0
237	1	1603	0	2969	1	4335	0	5701	1	7067	1
238	0	1604	1	2970	1	4336	1	5702	0	7068	1
239	1	1605	0	2971	1	4337	0	5703	0	7069	1
240	0	1606	1	2972	1	4338	0	5704	1	7070	1
241	0	1607	0	2973	1	4339	1	5705	1	7071	1
242	1	1608	1	2974	0	4340	0	5706	1	7072	1
243	0	1609	0	2975	0	4341	0	5707	1	7073	1
244	1	1610	1	2976	1	4342	1	5708	0	7074	0
245	1	1611	1	2977	0	4343	1	5709	0	7075	0
246	1	1612	1	2978	0	4344	1	5710	1	7076	0
247	0	1613	0	2979	1	4345	1	5711	0	7077	1
248	1	1614	1	2980	1	4346	1	5712	1	7078	0
249	1	1615	1	2981	1	4347	1	5713	1	7079	1
250	0	1616	1	2982	0	4348	0	5714	0	7080	0
251	1	1617	0	2983	1	4349	1	5715	0	7081	1
252	1	1618	1	2984	0	4350	0	5716	0	7082	1
253	0	1619	1	2985	1	4351	0	5717	0	7083	0
254	0	1620	1	2986	0	4352	0	5718	0	7084	1
255	0	1621	0	2987	1	4353	0	5719	0	7085	0
256	1	1622	1	2988	1	4354	0	5720	1	7086	1
257	1	1623	1	2989	0	4355	1	5721	0	7087	1
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259	1	1625	1	2991	1	4357	0	5723	1	7089	1
260	1	1626	0	2992	1	4358	0	5724	0	7090	0
261	1	1627	0	2993	0	4359	0	5725	0	7091	1
262	0	1628	0	2994	0	4360	1	5726	0	7092	1
263	1	1629	1	2995	0	4361	0	5727	0	7093	0
264	0	1630	1	2996	1	4362	1	5728	0	7094	1
265	0	1631	1	2997	0	4363	1	5729	1	7095	1
266	0	1632	1	2998	0	4364	1	5730	0	7096	0
267	1	1633	0	2999	1	4365	0	5731	1	7097	0
268	0	1634	1	3000	1	4366	1	5732	1	7098	0
269	0	1635	1	3001	0	4367	1	5733	0	7099	1
270	1	1636	1	3002	0	4368	1	5734	1	7100	0

271	1	1637	1	3003	1	4369	1	5735	0	7101	1
272	1	1638	0	3004	0	4370	0	5736	0	7102	0
273	0	1639	1	3005	1	4371	1	5737	1	7103	1
274	1	1640	1	3006	0	4372	1	5738	1	7104	0
275	1	1641	1	3007	1	4373	1	5739	0	7105	0
276	1	1642	0	3008	1	4374	1	5740	0	7106	0
277	1	1643	0	3009	0	4375	0	5741	1	7107	0
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279	0	1645	0	3011	1	4377	0	5743	0	7109	1
280	0	1646	1	3012	0	4378	1	5744	0	7110	0
281	0	1647	0	3013	1	4379	0	5745	0	7111	1
282	1	1648	0	3014	1	4380	0	5746	1	7112	1
283	0	1649	0	3015	1	4381	1	5747	1	7113	0
284	1	1650	1	3016	0	4382	1	5748	1	7114	0
285	0	1651	1	3017	0	4383	1	5749	0	7115	0
286	0	1652	0	3018	0	4384	0	5750	1	7116	0
287	0	1653	1	3019	1	4385	0	5751	0	7117	1
288	0	1654	1	3020	0	4386	0	5752	0	7118	0
289	0	1655	0	3021	1	4387	0	5753	1	7119	0
290	0	1656	1	3022	1	4388	1	5754	1	7120	1
291	1	1657	0	3023	1	4389	1	5755	1	7121	0
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293	0	1659	0	3025	1	4391	0	5757	1	7123	0
294	1	1660	0	3026	0	4392	1	5758	1	7124	1
295	1	1661	0	3027	0	4393	1	5759	0	7125	0
296	1	1662	1	3028	1	4394	1	5760	1	7126	1
297	1	1663	0	3029	1	4395	0	5761	1	7127	1
298	0	1664	1	3030	0	4396	1	5762	1	7128	0
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300	1	1666	1	3032	1	4398	0	5764	1	7130	0
301	0	1667	0	3033	0	4399	0	5765	1	7131	1
302	0	1668	1	3034	1	4400	1	5766	0	7132	1
303	1	1669	1	3035	0	4401	0	5767	0	7133	0
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305	0	1671	1	3037	1	4403	0	5769	0	7135	0
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307	0	1673	0	3039	1	4405	1	5771	1	7137	1
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311	1	1677	0	3043	0	4409	1	5775	0	7141	1
312	0	1678	1	3044	0	4410	0	5776	0	7142	1
313	0	1679	0	3045	0	4411	0	5777	1	7143	0
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317	1	1683	0	3049	1	4415	1	5781	0	7147	0
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319	0	1685	0	3051	0	4417	1	5783	1	7149	1
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321	0	1687	1	3053	1	4419	1	5785	0	7151	1
322	0	1688	1	3054	1	4420	0	5786	1	7152	0
323	1	1689	0	3055	1	4421	1	5787	1	7153	0
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333	0	1699	0	3065	0	4431	0	5797	1	7163	0
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335	1	1701	1	3067	0	4433	0	5799	1	7165	1
336	0	1702	0	3068	1	4434	0	5800	1	7166	0
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338	0	1704	1	3070	0	4436	0	5802	1	7168	0
339	0	1705	1	3071	1	4437	0	5803	0	7169	0
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341	1	1707	0	3073	1	4439	0	5805	0	7171	0
342	1	1708	0	3074	1	4440	1	5806	0	7172	1
343	1	1709	0	3075	0	4441	0	5807	0	7173	0
344	1	1710	0	3076	0	4442	0	5808	1	7174	1
345	0	1711	0	3077	1	4443	0	5809	0	7175	1
346	0	1712	1	3078	0	4444	0	5810	1	7176	1
347	1	1713	0	3079	0	4445	1	5811	1	7177	0
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350	1	1716	0	3082	0	4448	0	5814	1	7180	1
351	0	1717	0	3083	0	4449	0	5815	1	7181	1
352	1	1718	1	3084	0	4450	1	5816	1	7182	0
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355	1	1721	0	3087	1	4453	1	5819	0	7185	0
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357	0	1723	0	3089	0	4455	1	5821	0	7187	0
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362	1	1728	0	3094	1	4460	1	5826	1	7192	1
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369	1	1735	0	3101	1	4467	1	5833	1	7199	1
370	1	1736	1	3102	0	4468	0	5834	0	7200	0
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372	1	1738	1	3104	0	4470	0	5836	0	7202	1
373	0	1739	1	3105	1	4471	1	5837	0	7203	1
374	1	1740	0	3106	1	4472	0	5838	1	7204	0
375	1	1741	1	3107	0	4473	1	5839	0	7205	1
376	0	1742	1	3108	0	4474	0	5840	0	7206	0
377	1	1743	1	3109	0	4475	0	5841	1	7207	1
378	0	1744	0	3110	1	4476	0	5842	0	7208	0
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380	0	1746	0	3112	0	4478	0	5844	1	7210	1
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386	1	1752	1	3118	0	4484	0	5850	1	7216	0
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388	1	1754	0	3120	0	4486	0	5852	1	7218	1
389	0	1755	1	3121	0	4487	1	5853	0	7219	0
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391	0	1757	0	3123	0	4489	0	5855	1	7221	1
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395	1	1761	0	3127	1	4493	0	5859	1	7225	1
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405	0	1771	0	3137	0	4503	1	5869	0	7235	1
406	0	1772	0	3138	0	4504	1	5870	1	7236	1
407	0	1773	1	3139	0	4505	0	5871	1	7237	0
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409	0	1775	1	3141	0	4507	0	5873	0	7239	0
410	1	1776	1	3142	0	4508	1	5874	0	7240	0
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412	1	1778	0	3144	1	4510	0	5876	0	7242	1
413	0	1779	0	3145	1	4511	0	5877	1	7243	1
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415	1	1781	0	3147	1	4513	1	5879	1	7245	1
416	0	1782	1	3148	0	4514	1	5880	0	7246	0
417	1	1783	0	3149	0	4515	1	5881	1	7247	1
418	0	1784	0	3150	1	4516	1	5882	1	7248	1
419	1	1785	1	3151	1	4517	0	5883	0	7249	0
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422	0	1788	1	3154	0	4520	0	5886	0	7252	1
423	1	1789	1	3155	0	4521	1	5887	1	7253	0
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439	1	1805	0	3171	1	4537	0	5903	0	7269	0
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449	0	1815	1	3181	1	4547	0	5913	0	7279	1
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452	1	1818	1	3184	1	4550	0	5916	0	7282	0
453	1	1819	1	3185	1	4551	0	5917	0	7283	1
454	1	1820	0	3186	1	4552	1	5918	1	7284	0
455	0	1821	0	3187	0	4553	1	5919	1	7285	0
456	0	1822	0	3188	0	4554	1	5920	0	7286	0
457	1	1823	0	3189	0	4555	1	5921	1	7287	1
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475	1	1841	1	3207	1	4573	0	5939	1	7305	1
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479	1	1845	1	3211	1	4577	0	5943	0	7309	0
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532	1	1898	1	3264	0	4630	0	5996	0	7362	1
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539	0	1905	1	3271	0	4637	0	6003	0	7369	0
540	0	1906	1	3272	0	4638	0	6004	0	7370	1
541	0	1907	0	3273	1	4639	0	6005	1	7371	0
542	0	1908	1	3274	0	4640	0	6006	0	7372	1
543	0	1909	0	3275	0	4641	1	6007	0	7373	1
544	0	1910	1	3276	0	4642	1	6008	1	7374	0
545	1	1911	0	3277	0	4643	0	6009	0	7375	0
546	0	1912	1	3278	1	4644	1	6010	0	7376	1
547	0	1913	1	3279	0	4645	1	6011	0	7377	1
548	0	1914	1	3280	0	4646	1	6012	1	7378	0
549	1	1915	0	3281	0	4647	0	6013	0	7379	1
550	1	1916	1	3282	0	4648	0	6014	0	7380	1
551	0	1917	0	3283	1	4649	0	6015	0	7381	0
552	0	1918	0	3284	0	4650	0	6016	0	7382	0
553	0	1919	0	3285	1	4651	0	6017	1	7383	0
554	0	1920	0	3286	1	4652	1	6018	1	7384	1
555	0	1921	0	3287	0	4653	0	6019	0	7385	1
556	1	1922	0	3288	0	4654	0	6020	1	7386	0
557	0	1923	0	3289	0	4655	0	6021	1	7387	0
558	1	1924	1	3290	0	4656	1	6022	1	7388	0
559	0	1925	0	3291	1	4657	0	6023	1	7389	1
560	0	1926	1	3292	0	4658	1	6024	0	7390	0
561	0	1927	0	3293	0	4659	1	6025	1	7391	1
562	1	1928	0	3294	0	4660	0	6026	0	7392	0
563	1	1929	0	3295	1	4661	1	6027	1	7393	0
564	1	1930	0	3296	0	4662	1	6028	0	7394	0
565	1	1931	0	3297	1	4663	1	6029	0	7395	0
566	1	1932	0	3298	0	4664	0	6030	1	7396	1
567	0	1933	1	3299	1	4665	0	6031	0	7397	0
568	1	1934	0	3300	1	4666	0	6032	0	7398	0
569	1	1935	1	3301	0	4667	0	6033	0	7399	1
570	1	1936	0	3302	1	4668	1	6034	1	7400	0
571	1	1937	0	3303	1	4669	1	6035	0	7401	0
572	0	1938	1	3304	0	4670	1	6036	0	7402	0
573	1	1939	0	3305	1	4671	0	6037	1	7403	1
574	0	1940	0	3306	1	4672	0	6038	0	7404	1
575	1	1941	0	3307	0	4673	1	6039	0	7405	0
576	1	1942	0	3308	1	4674	1	6040	0	7406	1
577	0	1943	1	3309	0	4675	0	6041	0	7407	0
578	1	1944	0	3310	1	4676	1	6042	1	7408	1

579	1	1945	0	3311	0	4677	0	6043	1	7409	1
580	1	1946	1	3312	0	4678	1	6044	1	7410	0
581	0	1947	0	3313	0	4679	0	6045	0	7411	1
582	0	1948	0	3314	0	4680	0	6046	1	7412	0
583	0	1949	0	3315	0	4681	1	6047	1	7413	0
584	0	1950	0	3316	1	4682	0	6048	0	7414	1
585	1	1951	1	3317	0	4683	0	6049	1	7415	1
586	1	1952	0	3318	1	4684	1	6050	0	7416	0
587	0	1953	0	3319	1	4685	0	6051	1	7417	0
588	0	1954	0	3320	1	4686	0	6052	0	7418	1
589	0	1955	1	3321	0	4687	0	6053	0	7419	1
590	0	1956	0	3322	0	4688	0	6054	1	7420	0
591	0	1957	0	3323	1	4689	1	6055	0	7421	0
592	0	1958	0	3324	1	4690	1	6056	0	7422	1
593	0	1959	0	3325	0	4691	0	6057	1	7423	1
594	0	1960	0	3326	1	4692	1	6058	1	7424	1
595	0	1961	0	3327	1	4693	0	6059	1	7425	1
596	0	1962	0	3328	0	4694	0	6060	1	7426	0
597	0	1963	1	3329	1	4695	0	6061	0	7427	0
598	0	1964	1	3330	0	4696	0	6062	0	7428	0
599	1	1965	1	3331	1	4697	0	6063	1	7429	0
600	0	1966	0	3332	1	4698	1	6064	1	7430	0
601	1	1967	0	3333	0	4699	1	6065	1	7431	0
602	1	1968	1	3334	0	4700	0	6066	0	7432	1
603	0	1969	1	3335	1	4701	1	6067	0	7433	0
604	0	1970	0	3336	0	4702	0	6068	1	7434	1
605	0	1971	0	3337	0	4703	0	6069	0	7435	1
606	0	1972	1	3338	0	4704	0	6070	1	7436	0
607	1	1973	1	3339	0	4705	0	6071	0	7437	0
608	1	1974	1	3340	1	4706	0	6072	0	7438	0
609	0	1975	0	3341	0	4707	1	6073	0	7439	0
610	0	1976	1	3342	1	4708	0	6074	0	7440	1
611	1	1977	0	3343	0	4709	1	6075	1	7441	0
612	1	1978	1	3344	0	4710	0	6076	0	7442	0
613	0	1979	1	3345	0	4711	1	6077	1	7443	0
614	1	1980	1	3346	0	4712	0	6078	1	7444	0
615	1	1981	0	3347	0	4713	0	6079	1	7445	0
616	0	1982	1	3348	0	4714	0	6080	1	7446	1
617	0	1983	1	3349	1	4715	1	6081	0	7447	0
618	1	1984	1	3350	0	4716	0	6082	0	7448	0
619	1	1985	1	3351	1	4717	1	6083	1	7449	0
620	0	1986	0	3352	0	4718	0	6084	0	7450	1
621	1	1987	0	3353	0	4719	1	6085	0	7451	1
622	0	1988	0	3354	1	4720	1	6086	1	7452	1

623	0	1989	0	3355	0	4721	0	6087	0	7453	0
624	1	1990	0	3356	0	4722	0	6088	0	7454	1
625	0	1991	1	3357	0	4723	0	6089	0	7455	1
626	1	1992	1	3358	1	4724	0	6090	1	7456	0
627	1	1993	0	3359	1	4725	0	6091	0	7457	1
628	1	1994	1	3360	1	4726	1	6092	1	7458	1
629	1	1995	0	3361	1	4727	0	6093	0	7459	1
630	0	1996	0	3362	1	4728	1	6094	1	7460	0
631	1	1997	0	3363	0	4729	0	6095	1	7461	1
632	1	1998	0	3364	0	4730	0	6096	1	7462	0
633	0	1999	1	3365	1	4731	1	6097	1	7463	1
634	0	2000	1	3366	1	4732	1	6098	1	7464	1
635	0	2001	1	3367	0	4733	1	6099	1	7465	0
636	0	2002	1	3368	0	4734	1	6100	1	7466	0
637	1	2003	1	3369	0	4735	0	6101	0	7467	1
638	0	2004	0	3370	0	4736	0	6102	1	7468	1
639	1	2005	0	3371	0	4737	0	6103	1	7469	1
640	1	2006	0	3372	0	4738	0	6104	0	7470	1
641	0	2007	1	3373	0	4739	1	6105	0	7471	1
642	0	2008	0	3374	0	4740	0	6106	1	7472	1
643	1	2009	0	3375	1	4741	0	6107	0	7473	1
644	1	2010	0	3376	0	4742	0	6108	1	7474	0
645	0	2011	1	3377	1	4743	1	6109	1	7475	1
646	1	2012	1	3378	0	4744	1	6110	1	7476	1
647	0	2013	0	3379	1	4745	1	6111	1	7477	1
648	0	2014	0	3380	1	4746	0	6112	0	7478	0
649	1	2015	1	3381	1	4747	0	6113	0	7479	1
650	0	2016	0	3382	1	4748	1	6114	0	7480	0
651	0	2017	0	3383	0	4749	0	6115	0	7481	1
652	0	2018	0	3384	0	4750	1	6116	1	7482	0
653	0	2019	1	3385	0	4751	1	6117	1	7483	0
654	0	2020	1	3386	1	4752	1	6118	1	7484	1
655	0	2021	1	3387	1	4753	0	6119	0	7485	1
656	0	2022	0	3388	0	4754	0	6120	0	7486	0
657	1	2023	1	3389	0	4755	1	6121	0	7487	1
658	1	2024	0	3390	0	4756	1	6122	1	7488	1
659	1	2025	0	3391	1	4757	0	6123	1	7489	0
660	0	2026	1	3392	1	4758	0	6124	1	7490	0
661	1	2027	0	3393	1	4759	1	6125	0	7491	0
662	1	2028	1	3394	0	4760	1	6126	0	7492	0
663	1	2029	0	3395	0	4761	0	6127	0	7493	1
664	1	2030	0	3396	0	4762	1	6128	1	7494	0
665	1	2031	1	3397	1	4763	1	6129	1	7495	0
666	0	2032	1	3398	1	4764	1	6130	0	7496	1

667	0	2033	0	3399	1	4765	1	6131	0	7497	1
668	1	2034	1	3400	1	4766	0	6132	1	7498	0
669	0	2035	1	3401	0	4767	0	6133	0	7499	0
670	0	2036	0	3402	1	4768	0	6134	1	7500	0
671	0	2037	1	3403	1	4769	0	6135	1	7501	0
672	0	2038	0	3404	1	4770	0	6136	0	7502	0
673	0	2039	1	3405	0	4771	0	6137	1	7503	0
674	1	2040	0	3406	0	4772	1	6138	1	7504	1
675	1	2041	1	3407	1	4773	1	6139	0	7505	0
676	0	2042	0	3408	0	4774	1	6140	1	7506	1
677	1	2043	0	3409	1	4775	0	6141	1	7507	1
678	1	2044	1	3410	1	4776	0	6142	0	7508	1
679	0	2045	1	3411	0	4777	0	6143	1	7509	0
680	1	2046	0	3412	0	4778	1	6144	0	7510	1
681	0	2047	0	3413	0	4779	1	6145	1	7511	0
682	1	2048	1	3414	1	4780	1	6146	1	7512	0
683	1	2049	1	3415	0	4781	0	6147	1	7513	0
684	1	2050	0	3416	0	4782	0	6148	0	7514	1
685	0	2051	0	3417	0	4783	0	6149	1	7515	0
686	1	2052	1	3418	1	4784	1	6150	1	7516	1
687	0	2053	0	3419	1	4785	0	6151	0	7517	0
688	1	2054	0	3420	1	4786	1	6152	0	7518	0
689	0	2055	0	3421	1	4787	0	6153	1	7519	1
690	1	2056	0	3422	0	4788	0	6154	1	7520	1
691	1	2057	0	3423	1	4789	1	6155	0	7521	0
692	1	2058	0	3424	1	4790	1	6156	0	7522	0
693	1	2059	0	3425	0	4791	1	6157	0	7523	0
694	1	2060	0	3426	0	4792	0	6158	0	7524	1
695	1	2061	0	3427	0	4793	0	6159	0	7525	0
696	0	2062	0	3428	0	4794	1	6160	0	7526	0
697	1	2063	1	3429	1	4795	0	6161	1	7527	1
698	1	2064	0	3430	0	4796	1	6162	0	7528	1
699	0	2065	0	3431	1	4797	1	6163	0	7529	1
700	1	2066	1	3432	1	4798	0	6164	1	7530	1
701	1	2067	1	3433	1	4799	1	6165	1	7531	0
702	0	2068	1	3434	1	4800	1	6166	0	7532	0
703	1	2069	0	3435	0	4801	1	6167	0	7533	0
704	1	2070	1	3436	0	4802	1	6168	1	7534	0
705	1	2071	0	3437	0	4803	1	6169	0	7535	1
706	1	2072	0	3438	1	4804	0	6170	1	7536	0
707	1	2073	1	3439	0	4805	1	6171	0	7537	0
708	0	2074	1	3440	1	4806	0	6172	1	7538	1
709	1	2075	1	3441	1	4807	1	6173	0	7539	1
710	0	2076	1	3442	0	4808	1	6174	0	7540	0

711	0	2077	1	3443	1	4809	1	6175	1	7541	0
712	1	2078	1	3444	1	4810	1	6176	1	7542	0
713	1	2079	0	3445	1	4811	1	6177	1	7543	1
714	0	2080	1	3446	1	4812	0	6178	0	7544	0
715	1	2081	0	3447	1	4813	1	6179	1	7545	1
716	0	2082	0	3448	0	4814	0	6180	1	7546	0
717	0	2083	0	3449	1	4815	1	6181	1	7547	0
718	1	2084	1	3450	1	4816	0	6182	0	7548	1
719	1	2085	0	3451	1	4817	0	6183	0	7549	0
720	1	2086	0	3452	1	4818	0	6184	1	7550	0
721	0	2087	0	3453	1	4819	0	6185	0	7551	1
722	0	2088	0	3454	1	4820	1	6186	0	7552	1
723	1	2089	1	3455	0	4821	0	6187	0	7553	1
724	0	2090	1	3456	1	4822	1	6188	1	7554	1
725	0	2091	1	3457	1	4823	1	6189	0	7555	0
726	1	2092	0	3458	0	4824	0	6190	0	7556	1
727	1	2093	1	3459	1	4825	0	6191	1	7557	1
728	1	2094	0	3460	0	4826	1	6192	0	7558	0
729	0	2095	0	3461	0	4827	0	6193	0	7559	0
730	0	2096	1	3462	1	4828	0	6194	0	7560	1
731	0	2097	1	3463	0	4829	0	6195	0	7561	0
732	0	2098	0	3464	0	4830	0	6196	0	7562	1
733	1	2099	1	3465	1	4831	0	6197	0	7563	1
734	0	2100	0	3466	1	4832	1	6198	1	7564	0
735	0	2101	0	3467	1	4833	0	6199	1	7565	1
736	0	2102	0	3468	1	4834	1	6200	0	7566	1
737	1	2103	1	3469	0	4835	0	6201	0	7567	0
738	1	2104	0	3470	1	4836	0	6202	1	7568	1
739	1	2105	0	3471	0	4837	1	6203	1	7569	0
740	1	2106	1	3472	1	4838	1	6204	1	7570	1
741	1	2107	1	3473	0	4839	0	6205	0	7571	0
742	1	2108	0	3474	1	4840	1	6206	1	7572	1
743	0	2109	0	3475	1	4841	0	6207	0	7573	0
744	0	2110	0	3476	1	4842	1	6208	0	7574	0
745	1	2111	0	3477	1	4843	1	6209	1	7575	0
746	0	2112	0	3478	0	4844	0	6210	0	7576	0
747	0	2113	1	3479	1	4845	0	6211	1	7577	0
748	0	2114	1	3480	1	4846	1	6212	1	7578	1
749	1	2115	1	3481	0	4847	1	6213	1	7579	0
750	0	2116	0	3482	0	4848	0	6214	1	7580	1
751	1	2117	0	3483	0	4849	0	6215	1	7581	1
752	0	2118	1	3484	0	4850	1	6216	0	7582	0
753	0	2119	1	3485	1	4851	1	6217	1	7583	0
754	1	2120	0	3486	1	4852	1	6218	1	7584	1

755	1	2121	0	3487	0	4853	1	6219	1	7585	0
756	1	2122	1	3488	0	4854	1	6220	1	7586	1
757	0	2123	1	3489	0	4855	0	6221	0	7587	0
758	0	2124	1	3490	1	4856	0	6222	0	7588	0
759	0	2125	0	3491	0	4857	1	6223	1	7589	0
760	0	2126	1	3492	1	4858	1	6224	0	7590	1
761	1	2127	0	3493	1	4859	0	6225	0	7591	0
762	0	2128	1	3494	0	4860	1	6226	0	7592	1
763	0	2129	0	3495	0	4861	0	6227	0	7593	0
764	1	2130	1	3496	0	4862	1	6228	0	7594	0
765	1	2131	1	3497	1	4863	0	6229	1	7595	1
766	1	2132	0	3498	1	4864	0	6230	0	7596	1
767	1	2133	0	3499	0	4865	1	6231	0	7597	1
768	1	2134	0	3500	0	4866	0	6232	0	7598	1
769	1	2135	0	3501	1	4867	0	6233	1	7599	1
770	0	2136	0	3502	0	4868	0	6234	1	7600	1
771	0	2137	0	3503	1	4869	1	6235	1	7601	1
772	0	2138	0	3504	0	4870	1	6236	0	7602	0
773	0	2139	0	3505	0	4871	0	6237	1	7603	0
774	1	2140	0	3506	0	4872	1	6238	1	7604	1
775	0	2141	1	3507	0	4873	1	6239	0	7605	1
776	0	2142	0	3508	1	4874	0	6240	0	7606	1
777	1	2143	0	3509	0	4875	0	6241	0	7607	0
778	1	2144	0	3510	1	4876	0	6242	0	7608	0
779	0	2145	0	3511	1	4877	0	6243	1	7609	1
780	1	2146	0	3512	1	4878	1	6244	0	7610	0
781	1	2147	0	3513	0	4879	0	6245	1	7611	0
782	0	2148	0	3514	0	4880	0	6246	1	7612	1
783	1	2149	0	3515	1	4881	1	6247	0	7613	0
784	1	2150	1	3516	0	4882	0	6248	1	7614	1
785	1	2151	0	3517	0	4883	0	6249	1	7615	1
786	0	2152	0	3518	0	4884	1	6250	1	7616	0
787	1	2153	1	3519	1	4885	0	6251	1	7617	0
788	0	2154	1	3520	0	4886	1	6252	0	7618	0
789	1	2155	0	3521	1	4887	1	6253	0	7619	1
790	1	2156	0	3522	1	4888	0	6254	0	7620	0
791	0	2157	1	3523	1	4889	1	6255	1	7621	1
792	0	2158	1	3524	0	4890	1	6256	1	7622	1
793	0	2159	1	3525	0	4891	0	6257	0	7623	1
794	1	2160	0	3526	0	4892	1	6258	1	7624	1
795	1	2161	1	3527	0	4893	0	6259	1	7625	1
796	0	2162	1	3528	0	4894	0	6260	0	7626	0
797	1	2163	1	3529	1	4895	1	6261	0	7627	0
798	0	2164	0	3530	0	4896	0	6262	0	7628	1

799	1	2165	0	3531	0	4897	1	6263	1	7629	0
800	1	2166	1	3532	1	4898	1	6264	1	7630	0
801	1	2167	1	3533	0	4899	0	6265	0	7631	1
802	0	2168	0	3534	1	4900	0	6266	0	7632	1
803	1	2169	1	3535	1	4901	1	6267	0	7633	0
804	1	2170	0	3536	1	4902	0	6268	0	7634	1
805	1	2171	0	3537	1	4903	0	6269	1	7635	1
806	0	2172	1	3538	1	4904	0	6270	1	7636	1
807	1	2173	1	3539	1	4905	1	6271	1	7637	1
808	0	2174	0	3540	1	4906	1	6272	1	7638	0
809	1	2175	1	3541	0	4907	0	6273	0	7639	1
810	1	2176	1	3542	1	4908	0	6274	1	7640	1
811	1	2177	0	3543	0	4909	1	6275	1	7641	1
812	1	2178	0	3544	0	4910	1	6276	1	7642	1
813	1	2179	1	3545	0	4911	1	6277	0	7643	0
814	1	2180	0	3546	0	4912	1	6278	1	7644	1
815	0	2181	1	3547	1	4913	0	6279	0	7645	0
816	0	2182	1	3548	0	4914	0	6280	1	7646	1
817	1	2183	1	3549	1	4915	1	6281	1	7647	1
818	0	2184	0	3550	1	4916	1	6282	1	7648	0
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821	1	2187	1	3553	1	4919	1	6285	1	7651	1
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824	1	2190	1	3556	1	4922	0	6288	1	7654	0
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826	1	2192	1	3558	1	4924	0	6290	0	7656	1
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828	1	2194	1	3560	0	4926	1	6292	1	7658	0
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831	0	2197	1	3563	0	4929	0	6295	1	7661	1
832	0	2198	1	3564	1	4930	0	6296	0	7662	1
833	1	2199	1	3565	0	4931	0	6297	0	7663	0
834	0	2200	1	3566	0	4932	1	6298	0	7664	0
835	1	2201	0	3567	0	4933	1	6299	1	7665	0
836	0	2202	0	3568	0	4934	1	6300	1	7666	0
837	1	2203	1	3569	1	4935	1	6301	0	7667	1
838	1	2204	0	3570	1	4936	0	6302	0	7668	1
839	1	2205	0	3571	1	4937	0	6303	1	7669	1
840	1	2206	1	3572	0	4938	0	6304	0	7670	0
841	0	2207	0	3573	1	4939	1	6305	1	7671	0
842	1	2208	0	3574	1	4940	1	6306	1	7672	1

843	1	2209	1	3575	0	4941	0	6307	0	7673	0
844	0	2210	1	3576	1	4942	0	6308	1	7674	0
845	1	2211	1	3577	1	4943	0	6309	0	7675	1
846	1	2212	1	3578	0	4944	1	6310	1	7676	1
847	1	2213	0	3579	1	4945	1	6311	1	7677	1
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851	0	2217	1	3583	1	4949	0	6315	1	7681	1
852	0	2218	1	3584	1	4950	1	6316	1	7682	0
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862	0	2228	0	3594	1	4960	1	6326	0	7692	0
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868	1	2234	0	3600	1	4966	1	6332	1	7698	1
869	0	2235	1	3601	1	4967	0	6333	0	7699	0
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872	0	2238	0	3604	1	4970	0	6336	0	7702	0
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874	1	2240	0	3606	0	4972	0	6338	0	7704	0
875	1	2241	0	3607	1	4973	0	6339	0	7705	1
876	1	2242	0	3608	0	4974	0	6340	0	7706	0
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880	1	2246	0	3612	0	4978	1	6344	0	7710	1
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884	0	2250	1	3616	0	4982	1	6348	1	7714	1
885	0	2251	0	3617	0	4983	1	6349	1	7715	0
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887	1	2253	1	3619	0	4985	0	6351	0	7717	0
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889	0	2255	1	3621	0	4987	0	6353	0	7719	0
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891	0	2257	1	3623	1	4989	1	6355	0	7721	0
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894	0	2260	0	3626	1	4992	1	6358	1	7724	0
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896	1	2262	0	3628	1	4994	0	6360	1	7726	0
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901	0	2267	0	3633	1	4999	1	6365	0	7731	0
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905	1	2271	1	3637	0	5003	1	6369	0	7735	0
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913	1	2279	0	3645	1	5011	0	6377	0	7743	0
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916	1	2282	1	3648	1	5014	1	6380	1	7746	0
917	1	2283	1	3649	1	5015	0	6381	1	7747	1
918	0	2284	0	3650	1	5016	1	6382	1	7748	0
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921	0	2287	0	3653	0	5019	0	6385	1	7751	1
922	1	2288	0	3654	1	5020	1	6386	1	7752	0
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924	1	2290	0	3656	1	5022	0	6388	1	7754	1
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942	1	2308	0	3674	1	5040	1	6406	0	7772	1
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982	1	2348	1	3714	1	5080	0	6446	0	7812	1
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1339	0	2705	1	4071	0	5437	0	6803	0	8169	1
1340	1	2706	1	4072	1	5438	0	6804	0	8170	1
1341	0	2707	0	4073	0	5439	1	6805	1	8171	1
1342	0	2708	1	4074	0	5440	0	6806	0	8172	1
1343	0	2709	0	4075	0	5441	0	6807	0	8173	0
1344	1	2710	1	4076	0	5442	1	6808	1	8174	0
1345	0	2711	1	4077	1	5443	1	6809	0	8175	0
1346	1	2712	1	4078	1	5444	1	6810	1	8176	1
1347	0	2713	0	4079	1	5445	1	6811	0	8177	0
1348	0	2714	1	4080	0	5446	0	6812	1	8178	0
1349	0	2715	0	4081	1	5447	1	6813	0	8179	1
1350	0	2716	1	4082	0	5448	1	6814	0	8180	1
1351	0	2717	0	4083	1	5449	0	6815	1	8181	1
1352	0	2718	0	4084	0	5450	0	6816	1	8182	1
1353	1	2719	1	4085	1	5451	1	6817	0	8183	0
1354	0	2720	1	4086	0	5452	0	6818	0	8184	1
1355	1	2721	1	4087	1	5453	0	6819	0	8185	0
1356	1	2722	0	4088	0	5454	1	6820	0	8186	1
1357	1	2723	0	4089	1	5455	0	6821	1	8187	1
1358	0	2724	1	4090	1	5456	0	6822	1	8188	1
1359	0	2725	1	4091	1	5457	1	6823	0	8189	0
1360	1	2726	0	4092	0	5458	0	6824	1		
1361	0	2727	0	4093	1	5459	1	6825	0		
1362	1	2728	0	4094	1	5460	1	6826	1		
1363	0	2729	0	4095	1	5461	0	6827	0		
1364	1	2730	1	4096	1	5462	0	6828	1		
1365	1	2731	1	4097	1	5463	1	6829	0		

UNIVERSITÉ DE STRASBOURG, CNRS, IRMA UMR 7501, F-67000 STRASBOURG, FRANCE
Email address: `guoniu.han@unistra.fr`

SCHOOL OF MATHEMATICS AND STATISTICS, HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, WUHAN, PR CHINA
Email address: `huyining@hust.edu.cn`