

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

Date: 9/04/2020 18:54:56 .

2010 Mathematics Subject Classification. 11B85, 11J70, 11B50, 11Y65, 05A15.

Key words and phrases. automatic sequence, continued fraction, Thue-Morse sequence.

* This paper was automatically generated from a computer program developed by the authors, with 6.5 hours CPU time used.

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

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

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

$$p_0(z) = z^{18} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^9 + z^8 + z^7 + z^6 + z^5 + z^4 + z^3 + z^2 + z + 1,$$

$$p_1(z) = z^{23} + z^{22} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^7 + z^6 + z^5 + z^4 + z,$$

$$p_2(z) = z^{24} + z^{22} + z^{20} + z^{18} + z^{16} + z^{10} + z^8 + z^6 + z^4 + z^2,$$

$$p_3(z) = z^{23} + z^{22} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^7 + z^6 + z^5 + z^4 + z,$$

$$p_4(z) = z^{22} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^9 + z^8 + z^7 + z^5 + z^4 + z^3 + z,$$

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

$$p_0(z) = z^{20} + z^{18} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z^2 + z,$$

$$p_1(z) = z^{23} + z^{22} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^7 + z^6 + z^5 + z^4 + z,$$

$$p_2(z) = z^{24} + z^{22} + z^{20} + z^{18} + z^{16} + z^{10} + z^8 + z^6 + z^4 + z^2,$$

$$p_3(z) = z^{23} + z^{22} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^7 + z^6 + z^5 + z^4 + z,$$

$$p_4(z) = z^{22} + z^{20} + z^{14} + z^{13} + z^{11} + z^9 + z^7 + z^5 + z^4 + z^3 + z + 1.$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

of the vector

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

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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

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

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

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

which can be rewritten as

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

$$(2.8) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[101w]_2] + T[[111w]_2],$$

$$(2.9) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1000w]_2],$$

$$(2.10) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1001w]_2],$$

$$(2.11) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

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

$$(2.14) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[101w]_2] + T[[111w]_2],$$

$$(2.15) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1000w]_2],$$

$$(2.16) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8192 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

$$(2.19) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 110)),$$

$$(2.20) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 111)),$$

$$(2.21) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1000)),$$

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

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

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

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

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

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

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

$$(2.25) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 110)),$$

$$(2.26) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 111)),$$

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

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

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

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

$$\begin{aligned}
(2.29) \quad & + \tau(A(s, 1010)), \\
& 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) \\
(2.30) \quad & + \tau(A(s, 1011)),
\end{aligned}$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{148}), E_{148}) = (A(i, 0^{24}), E_{24})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 74$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

We give the proof of

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

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

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

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

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

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 $CF(a, b)$; for $CF(b, a)$, 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),

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

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

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

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 $CF(a, b) = f(1/z)$. $\square$

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

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

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{125} + x^{124} + x^{120} + x^{113} + x^{109} + x^{108} + x^{107} + x^{104} + x^{103} \\ &\quad + x^{101} + x^{99} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{88} + x^{86} + x^{85} + x^{82} \\ &\quad + x^{80} + x^{79} + x^{77} + x^{75} + x^{73} + x^{71} + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} \\ &\quad + x^{63} + x^{62} + x^{59} + x^{56} + x^{52} + x^{51} + x^{50} + x^{49} + x^{43} + x^{42} + x^{41} \\ &\quad + x^{40} + x^{35} + x^{33} + x^{32} + x^{26} + x^{24}, \\ p_3(x) &= x^{124} + x^{121} + x^{120} + x^{118} + x^{113} + x^{111} + x^{108} + x^{107} + x^{106} + x^{103} \\ &\quad + x^{100} + x^{99} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{82} \\ &\quad + x^{81} + x^{74} + x^{71} + x^{68} + x^{67} + x^{66} + x^{63} + x^{59} + x^{57} + x^{56} + x^{54} \\ &\quad + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{40} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} \\ &\quad + x^{33} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{19} + x^{18} + x^{16} + x^{14} \\ &\quad + x^{10} + x^9, \end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{123} + x^{118} + x^{117} + x^{115} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{102} \\
&\quad + x^{101} + x^{96} + x^{95} + x^{93} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} \\
&\quad + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{68} + x^{63} + x^{59} \\
&\quad + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} \\
&\quad + x^{42} + x^{33} + x^{28} + x^{27} + x^{25} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{15} \\
&\quad + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6, \\
p_9(x) &= x^{122} + x^{119} + x^{118} + x^{114} + x^{113} + x^{110} + x^{107} + x^{104} + x^{103} + x^{100} \\
&\quad + x^{97} + x^{96} + x^{92} + x^{91} + x^{88} + x^{85} + x^{82} + x^{81} + x^{78} + x^{76} + x^{75} \\
&\quad + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{60} + x^{55} \\
&\quad + x^{53} + x^{50} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} \\
&\quad + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{27} + x^{23} + x^{21} \\
&\quad + x^{20} + x^{18} + x^{16} + x^{12} + x^{11} + x^8 + x^6 + x^5 + x^4 + x^3, \\
p_{12}(x) &= x^{121} + x^{116} + x^{105} + x^{101} + x^{100} + x^{96} + x^{89} + x^{85} + x^{84} + x^{80} + x^{73} \\
&\quad + x^{69} + x^{68} + x^{64} + x^{57} + x^{53} + x^{52} + x^{48} + x^{41} + x^{37} + x^{36} + x^{32} \\
&\quad + x^{25} + x^{21} + x^{20} + x^{16} + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{120} + x^{113} + x^{109} + x^{108} + x^{107} + x^{104} + x^{103} \\
&\quad + x^{101} + x^{99} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{88} + x^{86} + x^{85} + x^{82} \\
&\quad + x^{80} + x^{79} + x^{77} + x^{75} + x^{73} + x^{71} + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} \\
&\quad + x^{63} + x^{62} + x^{59} + x^{56} + x^{52} + x^{51} + x^{50} + x^{49} + x^{43} + x^{42} + x^{41} \\
&\quad + x^{40} + x^{35} + x^{33} + x^{32} + x^{26} + x^{24}, \\
p_3(x) &= x^{124} + x^{121} + x^{120} + x^{118} + x^{113} + x^{111} + x^{108} + x^{107} + x^{106} + x^{103} \\
&\quad + x^{100} + x^{99} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{82} \\
&\quad + x^{81} + x^{74} + x^{71} + x^{68} + x^{67} + x^{66} + x^{63} + x^{59} + x^{57} + x^{56} + x^{54} \\
&\quad + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{40} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} \\
&\quad + x^{33} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{19} + x^{18} + x^{16} + x^{14} \\
&\quad + x^{10} + x^9, \\
p_6(x) &= x^{123} + x^{118} + x^{117} + x^{115} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{102} \\
&\quad + x^{101} + x^{96} + x^{95} + x^{93} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} \\
&\quad + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{68} + x^{63} + x^{59} \\
&\quad + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} \\
&\quad + x^{42} + x^{33} + x^{28} + x^{27} + x^{25} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{15} \\
&\quad + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6, \\
p_9(x) &= x^{122} + x^{119} + x^{118} + x^{114} + x^{113} + x^{110} + x^{107} + x^{104} + x^{103} + x^{100}
\end{aligned}$$

$$\begin{aligned}
& + x^{97} + x^{96} + x^{92} + x^{91} + x^{88} + x^{85} + x^{82} + x^{81} + x^{78} + x^{76} + x^{75} \\
& + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{60} + x^{55} \\
& + x^{53} + x^{50} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} \\
& + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{27} + x^{23} + x^{21} \\
& + x^{20} + x^{18} + x^{16} + x^{12} + x^{11} + x^8 + x^6 + x^5 + x^4 + x^3, \\
p_{12}(x) = & x^{121} + x^{116} + x^{105} + x^{101} + x^{100} + x^{96} + x^{89} + x^{85} + x^{84} + x^{80} + x^{73} \\
& + x^{69} + x^{68} + x^{64} + x^{57} + x^{53} + x^{52} + x^{48} + x^{41} + x^{37} + x^{36} + x^{32} \\
& + x^{25} + x^{21} + x^{20} + x^{16} + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{134} + x^{122} + x^{118} + x^{114} + x^{112} + x^{110} + x^{102} + x^{94} + x^{90} \\
& + x^{86} + x^{82} + x^{74} + x^{70} + x^{64} + x^{60} + x^{54} + x^{52} + x^{50} + x^{48} + x^{44} \\
& + x^{42} + x^{40} + x^{38} + x^{36}, \\
p_3(x) = & x^{132} + x^{130} + x^{128} + x^{120} + x^{118} + x^{114} + x^{106} + x^{104} + x^{100} + x^{98} \\
& + x^{96} + x^{90} + x^{86} + x^{80} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} \\
& + x^{56} + x^{54} + x^{52} + x^{46} + x^{38} + x^{36} + x^{32} + x^{28} + x^{26} + x^{22} + x^{18} \\
& + x^{16} + x^{14} + x^8 + x^6, \\
p_6(x) = & x^{132} + x^{128} + x^{124} + x^{120} + x^{118} + x^{114} + x^{110} + x^{108} + x^{104} + x^{100} \\
& + x^{94} + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{72} + x^{70} + x^{68} + x^{66} + x^{64} \\
& + x^{60} + x^{58} + x^{54} + x^{40} + x^{38} + x^{36} + x^{32} + x^{30} + x^{26} + x^{22} + x^{16} \\
& + x^{14} + x^{12} + x^{10} + x^8 + x^6 + 1, \\
p_9(x) = & x^{130} + x^{124} + x^{122} + x^{118} + x^{116} + x^{104} + x^{102} + x^{98} + x^{92} + x^{90} \\
& + x^{88} + x^{86} + x^{82} + x^{78} + x^{74} + x^{72} + x^{70} + x^{66} + x^{64} + x^{58} + x^{56} \\
& + x^{54} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} + x^{26} + x^{24} + x^{12} + x^4 + x^2, \\
p_{12}(x) = & x^{130} + x^{128} + x^{122} + x^{120} + x^{98} + x^{96} + x^{82} + x^{80} + x^{66} + x^{64} + x^{50} \\
& + x^{48} + x^{34} + x^{32} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{132} + x^{128} + x^{116} + x^{108} + x^{104} + x^{98} + x^{96} + x^{94} + x^{92} \\
& + x^{90} + x^{86} + x^{82} + x^{76} + x^{68} + x^{66} + x^{62} + x^{56} + x^{54} + x^{52} + x^{42} \\
& + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{28} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_3(x) = & x^{132} + x^{130} + x^{126} + x^{124} + x^{118} + x^{114} + x^{112} + x^{110} + x^{108} + x^{106} \\
& + x^{104} + x^{100} + x^{94} + x^{92} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{76} \\
& + x^{72} + x^{70} + x^{68} + x^{64} + x^{56} + x^{52} + x^{48} + x^{46} + x^{44} + x^{42} + x^{36} \\
& + x^{34} + x^{32} + x^{28} + x^{24} + x^{16} + x^{14} + x^{10} + x^8,
\end{aligned}$$

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

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{119} + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} \\
&\quad + x^{100} + x^{97} + x^{96} + x^{95} + x^{91} + x^{89} + x^{86} + x^{85} + x^{83} + x^{82} + x^{81} \\
&\quad + x^{80} + x^{77} + x^{76} + x^{72} + x^{70} + x^{69} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} \\
&\quad + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{45} \\
&\quad + x^{43} + x^{37} + x^{35} + x^{34} + x^{32} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} \\
&\quad + x^{18}, \\
p_3(x) &= x^{124} + x^{121} + x^{120} + x^{118} + x^{113} + x^{111} + x^{108} + x^{107} + x^{106} + x^{103} \\
&\quad + x^{100} + x^{99} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{82} \\
&\quad + x^{81} + x^{74} + x^{71} + x^{68} + x^{67} + x^{66} + x^{63} + x^{59} + x^{57} + x^{56} + x^{54} \\
&\quad + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{40} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} \\
&\quad + x^{33} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{19} + x^{18} + x^{16} + x^{14} \\
&\quad + x^{10} + x^9, \\
p_6(x) &= x^{123} + x^{118} + x^{117} + x^{115} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{102} \\
&\quad + x^{101} + x^{96} + x^{95} + x^{93} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} \\
&\quad + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{68} + x^{63} + x^{59} \\
&\quad + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} \\
&\quad + x^{42} + x^{33} + x^{28} + x^{27} + x^{25} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{15} \\
&\quad + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6, \\
p_9(x) &= x^{122} + x^{119} + x^{118} + x^{114} + x^{113} + x^{110} + x^{107} + x^{104} + x^{103} + x^{100} \\
&\quad + x^{97} + x^{96} + x^{92} + x^{91} + x^{88} + x^{85} + x^{82} + x^{81} + x^{78} + x^{76} + x^{75} \\
&\quad + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{60} + x^{55} \\
&\quad + x^{53} + x^{50} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} \\
&\quad + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{27} + x^{23} + x^{21} \\
&\quad + x^{20} + x^{18} + x^{16} + x^{12} + x^{11} + x^8 + x^6 + x^5 + x^4 + x^3, \\
p_{12}(x) &= x^{121} + x^{116} + x^{105} + x^{101} + x^{100} + x^{96} + x^{89} + x^{85} + x^{84} + x^{80} + x^{73}
\end{aligned}$$

$$\begin{aligned}
& + x^{69} + x^{68} + x^{64} + x^{57} + x^{53} + x^{52} + x^{48} + x^{41} + x^{37} + x^{36} + x^{32} \\
& + x^{25} + x^{21} + x^{20} + x^{16} + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{123} + x^{119} + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} \\
& + x^{100} + x^{97} + x^{96} + x^{95} + x^{91} + x^{89} + x^{86} + x^{85} + x^{83} + x^{82} + x^{81} \\
& + x^{80} + x^{77} + x^{76} + x^{72} + x^{70} + x^{69} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} \\
& + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{45} \\
& + x^{43} + x^{37} + x^{35} + x^{34} + x^{32} + x^{29} + x^{28} + x^{25} + x^{24} + x^{23} + x^{22} \\
& + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{124} + x^{121} + x^{120} + x^{118} + x^{113} + x^{111} + x^{108} + x^{107} + x^{106} + x^{103} \\
& + x^{100} + x^{99} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{82} \\
& + x^{81} + x^{74} + x^{71} + x^{68} + x^{67} + x^{66} + x^{63} + x^{59} + x^{57} + x^{56} + x^{54} \\
& + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{40} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} \\
& + x^{33} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{19} + x^{18} + x^{16} + x^{14} \\
& + x^{10} + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{123} + x^{118} + x^{117} + x^{115} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{102} \\
& + x^{101} + x^{96} + x^{95} + x^{93} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} \\
& + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{68} + x^{63} + x^{59} \\
& + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} \\
& + x^{42} + x^{33} + x^{28} + x^{27} + x^{25} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{15} \\
& + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{122} + x^{119} + x^{118} + x^{114} + x^{113} + x^{110} + x^{107} + x^{104} + x^{103} + x^{100} \\
& + x^{97} + x^{96} + x^{92} + x^{91} + x^{88} + x^{85} + x^{82} + x^{81} + x^{78} + x^{76} + x^{75} \\
& + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{60} + x^{55} \\
& + x^{53} + x^{50} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} \\
& + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{27} + x^{23} + x^{21} \\
& + x^{20} + x^{18} + x^{16} + x^{12} + x^{11} + x^8 + x^6 + x^5 + x^4 + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{121} + x^{116} + x^{105} + x^{101} + x^{100} + x^{96} + x^{89} + x^{85} + x^{84} + x^{80} + x^{73} \\
& + x^{69} + x^{68} + x^{64} + x^{57} + x^{53} + x^{52} + x^{48} + x^{41} + x^{37} + x^{36} + x^{32} \\
& + x^{25} + x^{21} + x^{20} + x^{16} + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{114} + x^{104} + x^{100} + x^{98} + x^{90} + x^{88} + x^{82} + x^{80} + x^{78} + x^{76} + x^{62} \\
& + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} + x^{44} + x^{42} + x^{34} + x^{26} + x^{24},
\end{aligned}$$

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

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{122} + x^{120} + x^{119} + x^{117} + x^{116} + x^{111} + x^{108} + x^{101} \\
&\quad + x^{100} + x^{97} + x^{95} + x^{94} + x^{91} + x^{86} + x^{85} + x^{83} + x^{80} + x^{78} + x^{76} \\
&\quad + x^{75} + x^{67} + x^{66} + x^{63} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{51} \\
&\quad + x^{50} + x^{48} + x^{47} + x^{46} + x^{42} + x^{41} + x^{40} + x^{38} + x^{34} + x^{33} + x^{30} \\
&\quad + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{14} \\
&\quad + x^{12}, \\
p_3(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{117} + x^{116} + x^{114} + x^{111} + x^{109} \\
&\quad + x^{107} + x^{105} + x^{102} + x^{100} + x^{99} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} \\
&\quad + x^{83} + x^{81} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{69} + x^{68} \\
&\quad + x^{67} + x^{66} + x^{63} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{51} + x^{50} + x^{48} \\
&\quad + x^{47} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{37} + x^{36} + x^{35} + x^{33} \\
&\quad + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{26} + x^{24} + x^{21} + x^{20} + x^{19} + x^{18} \\
&\quad + x^{15} + x^{13} + x^{10} + x^8, \\
p_6(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{114} + x^{109} \\
&\quad + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{101} + x^{100} + x^{97} + x^{94} \\
&\quad + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{83} + x^{82} + x^{81} + x^{79} \\
&\quad + x^{78} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} \\
&\quad + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{54} + x^{53} + x^{52} + x^{49} + x^{47} + x^{46} \\
&\quad + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{36} + x^{33} + x^{31} + x^{25} + x^{24}
\end{aligned}$$

$$\begin{aligned}
& + x^{23} + x^{21} + x^{20} + x^{17} + x^{15} + x^{14} + x^{11} + x^9 + x^6 + x^5 + x^4 + 1, \\
p_9(x) = & x^{125} + x^{120} + x^{117} + x^{113} + x^{112} + x^{108} + x^{105} + x^{101} + x^{100} + x^{97} \\
& + x^{96} + x^{92} + x^{89} + x^{85} + x^{84} + x^{81} + x^{80} + x^{76} + x^{73} + x^{69} + x^{68} \\
& + x^{65} + x^{64} + x^{60} + x^{57} + x^{53} + x^{52} + x^{49} + x^{48} + x^{44} + x^{41} + x^{37} \\
& + x^{36} + x^{33} + x^{32} + x^{28} + x^{25} + x^{21} + x^{20} + x^{17} + x^{16} + x^{13} + x^{12} \\
& + x^9 + x^8 + x^4, \\
p_{12}(x) = & x^{125} + x^{121} + x^{120} + x^{117} + x^{116} + x^{113} + x^{112} + x^{108} + x^{97} + x^{92} \\
& + x^{81} + x^{76} + x^{65} + x^{60} + x^{49} + x^{44} + x^{33} + x^{28} + x^{17} + x^{13} + x^{12} \\
& + x^9 + x^8 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{140} + x^{137} + x^{136} + x^{135} + x^{133} + x^{132} + x^{131} + x^{125} + x^{123} + x^{122} \\
& + x^{121} + x^{120} + x^{116} + x^{114} + x^{113} + x^{110} + x^{107} + x^{103} + x^{100} \\
& + x^{97} + x^{96} + x^{94} + x^{92} + x^{90} + x^{87} + x^{84} + x^{79} + x^{75} + x^{74} + x^{72} \\
& + x^{71} + x^{69} + x^{68} + x^{66} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{56} + x^{55} \\
& + x^{53} + x^{52} + x^{49} + x^{46} + x^{43} + x^{42} + x^{40} + x^{39} + x^{36} + x^{34} + x^{32} \\
& + x^{30} + x^{29} + x^{28} + x^{24}, \\
p_3(x) = & x^{133} + x^{131} + x^{130} + x^{127} + x^{124} + x^{122} + x^{119} + x^{117} + x^{114} + x^{112} \\
& + x^{106} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{97} + x^{94} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{87} + x^{85} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} \\
& + x^{67} + x^{64} + x^{62} + x^{61} + x^{58} + x^{57} + x^{55} + x^{54} + x^{50} + x^{49} + x^{45} \\
& + x^{44} + x^{40} + x^{39} + x^{35} + x^{34} + x^{30} + x^{29} + x^{25} + x^{24} + x^{21} + x^{20} \\
& + x^{18} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{134} + x^{130} + x^{128} + x^{118} + x^{112} + x^{100} + x^{94} + x^{90} + x^{88} + x^{84} \\
& + x^{78} + x^{76} + x^{74} + x^{66} + x^{58} + x^{50} + x^{48} + x^{44} + x^{42} + x^{40} + x^{38} \\
& + x^{28} + x^{26} + x^{24} + x^{20} + x^{18} + x^8 + x^6, \\
p_9(x) = & x^{135} + x^{133} + x^{132} + x^{131} + x^{129} + x^{128} + x^{127} + x^{125} + x^{124} + x^{122} \\
& + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{110} \\
& + x^{105} + x^{102} + x^{101} + x^{98} + x^{95} + x^{94} + x^{89} + x^{86} + x^{85} + x^{82} + x^{79} \\
& + x^{78} + x^{73} + x^{70} + x^{69} + x^{66} + x^{63} + x^{62} + x^{57} + x^{54} + x^{53} + x^{50} \\
& + x^{47} + x^{46} + x^{41} + x^{38} + x^{37} + x^{34} + x^{31} + x^{30} + x^{25} + x^{23} + x^{22} \\
& + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^7 \\
& + x^4 + x^3, \\
p_{12}(x) = & x^{136} + x^{128} + x^{116} + x^{104} + x^{100} + x^{96} + x^{88} + x^{84} + x^{80} + x^{72} + x^{68} \\
& + x^{64} + x^{56} + x^{52} + x^{48} + x^{40} + x^{36} + x^{32} + x^{20} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{122} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{110} + x^{108} + x^{105} + x^{104} \\ & + x^{100} + x^{97} + x^{96} + x^{93} + x^{89} + x^{88} + x^{85} + x^{82} + x^{81} + x^{78} + x^{77} \\ & + x^{75} + x^{68} + x^{63} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{50} + x^{49} + x^{48} \\ & + x^{47} + x^{46} + x^{45} + x^{44} + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{29} + x^{25} \\ & + x^{20} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{121} + x^{119} + x^{118} + x^{115} + x^{113} + x^{112} + x^{111} + x^{105} + x^{104} + x^{101} \\ & + x^{100} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{83} \\ & + x^{79} + x^{77} + x^{76} + x^{74} + x^{72} + x^{71} + x^{65} + x^{64} + x^{61} + x^{60} + x^{58} \\ & + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{40} + x^{38} + x^{35} \\ & + x^{31} + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} + x^{19} + x^{17} + x^{14} + x^{13} \\ & + x^{12} + x^{11} + x^{10} + x^9, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{122} + x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{96} \\ & + x^{94} + x^{92} + x^{90} + x^{86} + x^{78} + x^{68} + x^{62} + x^{56} + x^{48} + x^{42} + x^{32} \\ & + x^{28} + x^{26} + x^{24} + x^{20} + x^{18} + x^{16} + x^{14} + x^8 + x^6, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{111} + x^{110} + x^{109} + x^{106} \\ & + x^{101} + x^{99} + x^{95} + x^{94} + x^{93} + x^{90} + x^{85} + x^{83} + x^{79} + x^{78} + x^{77} \\ & + x^{74} + x^{69} + x^{67} + x^{63} + x^{62} + x^{61} + x^{58} + x^{53} + x^{51} + x^{47} + x^{46} \\ & + x^{45} + x^{42} + x^{37} + x^{35} + x^{31} + x^{30} + x^{29} + x^{26} + x^{21} + x^{19} + x^{15} \\ & + x^{14} + x^{13} + x^{11} + x^{10} + x^9 + x^8 + x^7 + x^4 + x^3, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{124} + x^{108} + x^{96} + x^{92} + x^{80} + x^{76} + x^{64} + x^{60} + x^{48} + x^{44} + x^{32} \\ & + x^{28} + x^{16} + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{124} + x^{121} + x^{117} + x^{113} + x^{111} + x^{109} + x^{108} + x^{104} + x^{102} \\ & + x^{100} + x^{94} + x^{93} + x^{91} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} \\ & + x^{73} + x^{72} + x^{71} + x^{69} + x^{65} + x^{62} + x^{53} + x^{51} + x^{40} + x^{38} + x^{37} \\ & + x^{30}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{125} + x^{124} + x^{122} + x^{119} + x^{118} + x^{113} + x^{112} + x^{109} + x^{108} + x^{107} \\ & + x^{106} + x^{103} + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{92} + x^{90} + x^{86} + x^{85} \\ & + x^{83} + x^{81} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{72} + x^{71} + x^{70} + x^{69} \\ & + x^{67} + x^{65} + x^{62} + x^{59} + x^{58} + x^{56} + x^{55} + x^{53} + x^{52} + x^{49} + x^{46} \\ & + x^{41} + x^{38} + x^{36} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} + x^{26} + x^{24} + x^{22} \\ & + x^{20} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12}, \end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{119} + x^{116} + x^{115} + x^{114} + x^{110} + x^{109} \\
&\quad + x^{108} + x^{106} + x^{104} + x^{103} + x^{102} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} \\
&\quad + x^{86} + x^{84} + x^{81} + x^{79} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} \\
&\quad + x^{68} + x^{67} + x^{65} + x^{64} + x^{62} + x^{61} + x^{58} + x^{57} + x^{55} + x^{53} + x^{51} \\
&\quad + x^{50} + x^{49} + x^{44} + x^{43} + x^{41} + x^{37} + x^{36} + x^{33} + x^{32} + x^{31} + x^{27} \\
&\quad + x^{24} + x^{22} + x^{21} + x^{18} + x^{14} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + 1, \\
p_9(x) &= x^{125} + x^{120} + x^{117} + x^{113} + x^{112} + x^{108} + x^{105} + x^{101} + x^{100} + x^{97} \\
&\quad + x^{96} + x^{92} + x^{89} + x^{85} + x^{84} + x^{81} + x^{80} + x^{76} + x^{73} + x^{69} + x^{68} \\
&\quad + x^{65} + x^{64} + x^{60} + x^{57} + x^{53} + x^{52} + x^{49} + x^{48} + x^{44} + x^{41} + x^{37} \\
&\quad + x^{36} + x^{33} + x^{32} + x^{28} + x^{25} + x^{21} + x^{20} + x^{17} + x^{16} + x^{13} + x^{12} \\
&\quad + x^9 + x^8 + x^4, \\
p_{12}(x) &= x^{125} + x^{121} + x^{120} + x^{117} + x^{116} + x^{113} + x^{112} + x^{108} + x^{97} + x^{92} \\
&\quad + x^{81} + x^{76} + x^{65} + x^{60} + x^{49} + x^{44} + x^{33} + x^{28} + x^{17} + x^{13} + x^{12} \\
&\quad + x^9 + x^8 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{122} + x^{120} + x^{119} + x^{117} + x^{116} + x^{111} + x^{108} + x^{101} \\
&\quad + x^{100} + x^{97} + x^{95} + x^{94} + x^{91} + x^{86} + x^{85} + x^{83} + x^{80} + x^{78} + x^{76} \\
&\quad + x^{75} + x^{67} + x^{66} + x^{63} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{51} \\
&\quad + x^{50} + x^{48} + x^{47} + x^{46} + x^{42} + x^{41} + x^{40} + x^{38} + x^{34} + x^{33} + x^{30} \\
&\quad + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{14} \\
&\quad + x^{12}, \\
p_3(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{117} + x^{116} + x^{114} + x^{111} + x^{109} \\
&\quad + x^{107} + x^{105} + x^{102} + x^{100} + x^{99} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} \\
&\quad + x^{83} + x^{81} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{69} + x^{68} \\
&\quad + x^{67} + x^{66} + x^{63} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{51} + x^{50} + x^{48} \\
&\quad + x^{47} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{37} + x^{36} + x^{35} + x^{33} \\
&\quad + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{26} + x^{24} + x^{21} + x^{20} + x^{19} + x^{18} \\
&\quad + x^{15} + x^{13} + x^{10} + x^8, \\
p_6(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{114} + x^{109} \\
&\quad + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{101} + x^{100} + x^{97} + x^{94} \\
&\quad + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{83} + x^{82} + x^{81} + x^{79} \\
&\quad + x^{78} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} \\
&\quad + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{54} + x^{53} + x^{52} + x^{49} + x^{47} + x^{46} \\
&\quad + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{36} + x^{33} + x^{31} + x^{25} + x^{24}
\end{aligned}$$

$$\begin{aligned}
& + x^{23} + x^{21} + x^{20} + x^{17} + x^{15} + x^{14} + x^{11} + x^9 + x^6 + x^5 + x^4 + 1, \\
p_9(x) = & x^{125} + x^{120} + x^{117} + x^{113} + x^{112} + x^{108} + x^{105} + x^{101} + x^{100} + x^{97} \\
& + x^{96} + x^{92} + x^{89} + x^{85} + x^{84} + x^{81} + x^{80} + x^{76} + x^{73} + x^{69} + x^{68} \\
& + x^{65} + x^{64} + x^{60} + x^{57} + x^{53} + x^{52} + x^{49} + x^{48} + x^{44} + x^{41} + x^{37} \\
& + x^{36} + x^{33} + x^{32} + x^{28} + x^{25} + x^{21} + x^{20} + x^{17} + x^{16} + x^{13} + x^{12} \\
& + x^9 + x^8 + x^4, \\
p_{12}(x) = & x^{125} + x^{121} + x^{120} + x^{117} + x^{116} + x^{113} + x^{112} + x^{108} + x^{97} + x^{92} \\
& + x^{81} + x^{76} + x^{65} + x^{60} + x^{49} + x^{44} + x^{33} + x^{28} + x^{17} + x^{13} + x^{12} \\
& + x^9 + x^8 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{122} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{110} + x^{108} + x^{105} + x^{104} \\
& + x^{100} + x^{97} + x^{96} + x^{93} + x^{89} + x^{88} + x^{85} + x^{82} + x^{81} + x^{78} + x^{77} \\
& + x^{75} + x^{68} + x^{63} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{50} + x^{49} + x^{48} \\
& + x^{47} + x^{46} + x^{45} + x^{44} + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{29} + x^{25} \\
& + x^{20} + x^{18}, \\
p_3(x) = & x^{121} + x^{119} + x^{118} + x^{115} + x^{113} + x^{112} + x^{111} + x^{105} + x^{104} + x^{101} \\
& + x^{100} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{83} \\
& + x^{79} + x^{77} + x^{76} + x^{74} + x^{72} + x^{71} + x^{65} + x^{64} + x^{61} + x^{60} + x^{58} \\
& + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{40} + x^{38} + x^{35} \\
& + x^{31} + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} + x^{19} + x^{17} + x^{14} + x^{13} \\
& + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{122} + x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{96} \\
& + x^{94} + x^{92} + x^{90} + x^{86} + x^{78} + x^{68} + x^{62} + x^{56} + x^{48} + x^{42} + x^{32} \\
& + x^{28} + x^{26} + x^{24} + x^{20} + x^{18} + x^{16} + x^{14} + x^8 + x^6, \\
p_9(x) = & x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{111} + x^{110} + x^{109} + x^{106} \\
& + x^{101} + x^{99} + x^{95} + x^{94} + x^{93} + x^{90} + x^{85} + x^{83} + x^{79} + x^{78} + x^{77} \\
& + x^{74} + x^{69} + x^{67} + x^{63} + x^{62} + x^{61} + x^{58} + x^{53} + x^{51} + x^{47} + x^{46} \\
& + x^{45} + x^{42} + x^{37} + x^{35} + x^{31} + x^{30} + x^{29} + x^{26} + x^{21} + x^{19} + x^{15} \\
& + x^{14} + x^{13} + x^{11} + x^{10} + x^9 + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) = & x^{124} + x^{108} + x^{96} + x^{92} + x^{80} + x^{76} + x^{64} + x^{60} + x^{48} + x^{44} + x^{32} \\
& + x^{28} + x^{16} + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{140} + x^{137} + x^{136} + x^{135} + x^{133} + x^{132} + x^{131} + x^{125} + x^{123} + x^{122}$$

$$\begin{aligned}
& + x^{121} + x^{120} + x^{116} + x^{114} + x^{113} + x^{110} + x^{107} + x^{103} + x^{100} \\
& + x^{97} + x^{96} + x^{94} + x^{92} + x^{90} + x^{87} + x^{84} + x^{79} + x^{75} + x^{74} + x^{72} \\
& + x^{71} + x^{69} + x^{68} + x^{66} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{56} + x^{55} \\
& + x^{53} + x^{52} + x^{49} + x^{46} + x^{43} + x^{42} + x^{40} + x^{39} + x^{36} + x^{34} + x^{32} \\
& + x^{30} + x^{29} + x^{28} + x^{24}, \\
p_3(x) = & x^{133} + x^{131} + x^{130} + x^{127} + x^{124} + x^{122} + x^{119} + x^{117} + x^{114} + x^{112} \\
& + x^{106} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{97} + x^{94} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{87} + x^{85} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} \\
& + x^{67} + x^{64} + x^{62} + x^{61} + x^{58} + x^{57} + x^{55} + x^{54} + x^{50} + x^{49} + x^{45} \\
& + x^{44} + x^{40} + x^{39} + x^{35} + x^{34} + x^{30} + x^{29} + x^{25} + x^{24} + x^{21} + x^{20} \\
& + x^{18} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{134} + x^{130} + x^{128} + x^{118} + x^{112} + x^{100} + x^{94} + x^{90} + x^{88} + x^{84} \\
& + x^{78} + x^{76} + x^{74} + x^{66} + x^{58} + x^{50} + x^{48} + x^{44} + x^{42} + x^{40} + x^{38} \\
& + x^{28} + x^{26} + x^{24} + x^{20} + x^{18} + x^8 + x^6, \\
p_9(x) = & x^{135} + x^{133} + x^{132} + x^{131} + x^{129} + x^{128} + x^{127} + x^{125} + x^{124} + x^{122} \\
& + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{110} \\
& + x^{105} + x^{102} + x^{101} + x^{98} + x^{95} + x^{94} + x^{89} + x^{86} + x^{85} + x^{82} + x^{79} \\
& + x^{78} + x^{73} + x^{70} + x^{69} + x^{66} + x^{63} + x^{62} + x^{57} + x^{54} + x^{53} + x^{50} \\
& + x^{47} + x^{46} + x^{41} + x^{38} + x^{37} + x^{34} + x^{31} + x^{30} + x^{25} + x^{23} + x^{22} \\
& + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^7 \\
& + x^4 + x^3, \\
p_{12}(x) = & x^{136} + x^{128} + x^{116} + x^{104} + x^{100} + x^{96} + x^{88} + x^{84} + x^{80} + x^{72} + x^{68} \\
& + x^{64} + x^{56} + x^{52} + x^{48} + x^{40} + x^{36} + x^{32} + x^{20} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{121} + x^{117} + x^{113} + x^{111} + x^{109} + x^{108} + x^{104} + x^{102} \\
& + x^{100} + x^{94} + x^{93} + x^{91} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} \\
& + x^{73} + x^{72} + x^{71} + x^{69} + x^{65} + x^{62} + x^{53} + x^{51} + x^{40} + x^{38} + x^{37} \\
& + x^{30}, \\
p_3(x) = & x^{125} + x^{124} + x^{122} + x^{119} + x^{118} + x^{113} + x^{112} + x^{109} + x^{108} + x^{107} \\
& + x^{106} + x^{103} + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{92} + x^{90} + x^{86} + x^{85} \\
& + x^{83} + x^{81} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{72} + x^{71} + x^{70} + x^{69} \\
& + x^{67} + x^{65} + x^{62} + x^{59} + x^{58} + x^{56} + x^{55} + x^{53} + x^{52} + x^{49} + x^{46} \\
& + x^{41} + x^{38} + x^{36} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} + x^{26} + x^{24} + x^{22} \\
& + x^{20} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{119} + x^{116} + x^{115} + x^{114} + x^{110} + x^{109} \\
&\quad + x^{108} + x^{106} + x^{104} + x^{103} + x^{102} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} \\
&\quad + x^{86} + x^{84} + x^{81} + x^{79} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} \\
&\quad + x^{68} + x^{67} + x^{65} + x^{64} + x^{62} + x^{61} + x^{58} + x^{57} + x^{55} + x^{53} + x^{51} \\
&\quad + x^{50} + x^{49} + x^{44} + x^{43} + x^{41} + x^{37} + x^{36} + x^{33} + x^{32} + x^{31} + x^{27} \\
&\quad + x^{24} + x^{22} + x^{21} + x^{18} + x^{14} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + 1, \\
p_9(x) &= x^{125} + x^{120} + x^{117} + x^{113} + x^{112} + x^{108} + x^{105} + x^{101} + x^{100} + x^{97} \\
&\quad + x^{96} + x^{92} + x^{89} + x^{85} + x^{84} + x^{81} + x^{80} + x^{76} + x^{73} + x^{69} + x^{68} \\
&\quad + x^{65} + x^{64} + x^{60} + x^{57} + x^{53} + x^{52} + x^{49} + x^{48} + x^{44} + x^{41} + x^{37} \\
&\quad + x^{36} + x^{33} + x^{32} + x^{28} + x^{25} + x^{21} + x^{20} + x^{17} + x^{16} + x^{13} + x^{12} \\
&\quad + x^9 + x^8 + x^4, \\
p_{12}(x) &= x^{125} + x^{121} + x^{120} + x^{117} + x^{116} + x^{113} + x^{112} + x^{108} + x^{97} + x^{92} \\
&\quad + x^{81} + x^{76} + x^{65} + x^{60} + x^{49} + x^{44} + x^{33} + x^{28} + x^{17} + x^{13} + x^{12} \\
&\quad + x^9 + x^8 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2049	[3285, 3286]	4098	[5400, 1253]	6147	[4078, 3882]
1	[3, 4]	2050	[2602, 3287]	4099	[1359, 5401]	6148	[4932, 1908]
2	[5, 6]	2051	[2807, 1104]	4100	[5402, 435]	6149	[529, 2546]
3	[7, 8]	2052	[1223, 3288]	4101	[5403, 5404]	6150	[6968, 4025]
4	[9, 10]	2053	[3289, 3290]	4102	[5405, 5406]	6151	[6969, 159]
5	[11, 12]	2054	[3291, 961]	4103	[5407, 2741]	6152	[6970, 4047]
6	[13, 14]	2055	[3292, 3]	4104	[3320, 2661]	6153	[6971, 5133]
7	[15, 16]	2056	[2782, 1437]	4105	[5408, 3037]	6154	[6972, 6931]
8	[17, 18]	2057	[3293, 3294]	4106	[2713, 2956]	6155	[6973, 6305]
9	[19, 20]	2058	[3295, 1517]	4107	[5409, 446]	6156	[6974, 4291]
10	[21, 22]	2059	[3296, 2677]	4108	[5410, 5325]	6157	[6975, 1791]
11	[23, 24]	2060	[3297, 3298]	4109	[5411, 3858]	6158	[6976, 12]
12	[25, 26]	2061	[3299, 2729]	4110	[5412, 5413]	6159	[6809, 1769]
13	[27, 28]	2062	[3300, 2812]	4111	[5414, 5415]	6160	[6977, 4631]
14	[29, 30]	2063	[1233, 3301]	4112	[5416, 5417]	6161	[6978, 2579]
15	[31, 32]	2064	[3302, 3303]	4113	[939, 3714]	6162	[6979, 4275]
16	[33, 34]	2065	[3304, 3305]	4114	[5418, 2709]	6163	[6980, 2035]
17	[35, 36]	2066	[3306, 3307]	4115	[5419, 3100]	6164	[6981, 6316]
18	[37, 38]	2067	[3308, 1076]	4116	[5420, 5421]	6165	[5132, 4383]
19	[39, 40]	2068	[3309, 3310]	4117	[370, 478]	6166	[2023, 2073]
20	[41, 42]	2069	[3311, 947]	4118	[5422, 5423]	6167	[1693, 4566]

21	[43, 44]	2070	[311, 3312]	4119	[1372, 2588]	6168	[6982, 31]
22	[45, 46]	2071	[313, 3313]	4120	[5424, 271]	6169	[6983, 1950]
23	[47, 48]	2072	[2896, 401]	4121	[3501, 3294]	6170	[6984, 1577]
24	[49, 50]	2073	[3314, 3315]	4122	[5425, 1177]	6171	[6985, 6842]
25	[51, 52]	2074	[3316, 1331]	4123	[5426, 1510]	6172	[6986, 4476]
26	[53, 54]	2075	[2890, 2893]	4124	[5427, 3755]	6173	[6987, 1605]
27	[55, 56]	2076	[3317, 270]	4125	[2906, 5428]	6174	[1958, 6479]
28	[57, 58]	2077	[1150, 3318]	4126	[454, 1314]	6175	[6598, 6988]
29	[59, 60]	2078	[3319, 3320]	4127	[5429, 2912]	6176	[4133, 5057]
30	[61, 62]	2079	[94, 2624]	4128	[5430, 5431]	6177	[6989, 505]
31	[63, 64]	2080	[3321, 3322]	4129	[5432, 102]	6178	[6990, 4555]
32	[65, 66]	2081	[1172, 3323]	4130	[477, 5433]	6179	[191, 6964]
33	[67, 68]	2082	[2913, 3324]	4131	[5434, 3356]	6180	[6991, 4110]
34	[69, 70]	2083	[3325, 963]	4132	[5435, 1321]	6181	[6992, 1672]
35	[71, 72]	2084	[3326, 3327]	4133	[5436, 5437]	6182	[4175, 2428]
36	[73, 74]	2085	[3328, 3329]	4134	[5406, 3816]	6183	[6993, 3900]
37	[75, 76]	2086	[3330, 427]	4135	[5438, 3319]	6184	[6994, 4961]
38	[77, 78]	2087	[3294, 3331]	4136	[5439, 1353]	6185	[6995, 2346]
39	[79, 80]	2088	[3332, 3333]	4137	[5440, 5441]	6186	[6996, 6514]
40	[81, 82]	2089	[3162, 3334]	4138	[5442, 3580]	6187	[6997, 1586]
41	[83, 84]	2090	[3335, 3335]	4139	[3110, 5330]	6188	[586, 4948]
42	[85, 86]	2091	[3336, 3337]	4140	[5443, 901]	6189	[6998, 6774]
43	[87, 88]	2092	[3338, 290]	4141	[5444, 2898]	6190	[6999, 2158]
44	[89, 90]	2093	[3339, 3340]	4142	[327, 2689]	6191	[6398, 6518]
45	[91, 92]	2094	[2766, 3341]	4143	[5445, 1166]	6192	[4659, 610]
46	[93, 94]	2095	[3342, 3343]	4144	[5266, 5446]	6193	[4333, 7000]
47	[95, 96]	2096	[3344, 3345]	4145	[5447, 65]	6194	[2323, 6845]
48	[97, 98]	2097	[2967, 3346]	4146	[5448, 5449]	6195	[7001, 139]
49	[99, 100]	2098	[3347, 3348]	4147	[3851, 5450]	6196	[1787, 2495]
50	[101, 102]	2099	[3349, 3350]	4148	[3455, 5451]	6197	[197, 678]
51	[103, 104]	2100	[3351, 3046]	4149	[5452, 5453]	6198	[7002, 577]
52	[105, 106]	2101	[3352, 3353]	4150	[5454, 1479]	6199	[1830, 6357]
53	[107, 108]	2102	[3354, 3080]	4151	[1142, 5452]	6200	[7003, 2034]
54	[109, 110]	2103	[3355, 1385]	4152	[5455, 5456]	6201	[7004, 6507]
55	[111, 112]	2104	[3122, 1284]	4153	[5457, 3209]	6202	[1925, 6470]
56	[113, 114]	2105	[3356, 3357]	4154	[280, 3333]	6203	[7005, 6398]
57	[115, 116]	2106	[894, 3302]	4155	[282, 2863]	6204	[7006, 3955]
58	[117, 118]	2107	[3358, 3036]	4156	[5458, 3842]	6205	[7007, 2120]
59	[119, 120]	2108	[3359, 3360]	4157	[5459, 5460]	6206	[7008, 1773]
60	[121, 122]	2109	[1473, 1479]	4158	[5461, 2796]	6207	[6740, 2124]
61	[123, 124]	2110	[3244, 3361]	4159	[980, 1070]	6208	[5138, 2302]
62	[125, 126]	2111	[3362, 2808]	4160	[5462, 2656]	6209	[7009, 4543]
63	[127, 128]	2112	[883, 3050]	4161	[5463, 5464]	6210	[7010, 4675]
64	[129, 130]	2113	[3134, 338]	4162	[122, 431]	6211	[7011, 6787]

65	[131, 132]	2114	[1354, 3363]	4163	[5465, 5466]	6212	[6822, 6959]
66	[133, 134]	2115	[3364, 3209]	4164	[5467, 3306]	6213	[7012, 1793]
67	[135, 136]	2116	[1480, 3365]	4165	[5468, 2646]	6214	[7013, 7014]
68	[137, 138]	2117	[933, 917]	4166	[5469, 5444]	6215	[1842, 1700]
69	[139, 140]	2118	[3366, 3367]	4167	[5470, 3863]	6216	[7015, 809]
70	[141, 142]	2119	[3368, 3177]	4168	[5471, 5472]	6217	[4364, 4362]
71	[143, 144]	2120	[3369, 3370]	4169	[5473, 5474]	6218	[4156, 6781]
72	[145, 146]	2121	[3371, 3041]	4170	[2676, 1375]	6219	[7016, 690]
73	[147, 148]	2122	[3372, 3373]	4171	[5475, 5476]	6220	[7017, 2330]
74	[149, 150]	2123	[3374, 3375]	4172	[5477, 5478]	6221	[7018, 4229]
75	[151, 152]	2124	[3376, 3377]	4173	[5479, 5480]	6222	[38, 4372]
76	[153, 154]	2125	[2762, 3378]	4174	[5481, 986]	6223	[1797, 1933]
77	[155, 156]	2126	[3379, 3380]	4175	[3071, 3237]	6224	[1847, 4490]
78	[157, 158]	2127	[3207, 3381]	4176	[5482, 3163]	6225	[7019, 2025]
79	[159, 160]	2128	[986, 3382]	4177	[5483, 1526]	6226	[7020, 2508]
80	[161, 162]	2129	[3116, 3018]	4178	[5484, 3859]	6227	[4604, 4289]
81	[163, 164]	2130	[2725, 3383]	4179	[5485, 1402]	6228	[7021, 671]
82	[165, 166]	2131	[3384, 2865]	4180	[3281, 352]	6229	[7022, 1933]
83	[167, 168]	2132	[3385, 2939]	4181	[5486, 5487]	6230	[7023, 3895]
84	[169, 170]	2133	[3386, 3109]	4182	[5437, 2696]	6231	[828, 7024]
85	[171, 172]	2134	[30, 3387]	4183	[3357, 3300]	6232	[4667, 4286]
86	[173, 174]	2135	[3388, 3389]	4184	[5488, 5489]	6233	[7025, 5166]
87	[175, 176]	2136	[3390, 3391]	4185	[5490, 5491]	6234	[7026, 2448]
88	[177, 155]	2137	[3392, 3393]	4186	[1403, 5492]	6235	[4854, 4091]
89	[178, 179]	2138	[3394, 3395]	4187	[5493, 5374]	6236	[7027, 6877]
90	[180, 181]	2139	[3259, 3396]	4188	[5494, 5495]	6237	[4611, 6575]
91	[182, 183]	2140	[3397, 2966]	4189	[3383, 5478]	6238	[745, 4614]
92	[184, 185]	2141	[3398, 3399]	4190	[5496, 3120]	6239	[839, 6526]
93	[186, 187]	2142	[3400, 2700]	4191	[5497, 5383]	6240	[1675, 6338]
94	[188, 189]	2143	[467, 3401]	4192	[2852, 5498]	6241	[7028, 4475]
95	[190, 191]	2144	[3402, 3403]	4193	[5499, 1030]	6242	[7029, 4473]
96	[192, 193]	2145	[2873, 3404]	4194	[5500, 5294]	6243	[7030, 780]
97	[194, 195]	2146	[3405, 3406]	4195	[5501, 3088]	6244	[707, 6746]
98	[196, 197]	2147	[3407, 381]	4196	[5502, 5237]	6245	[7031, 5160]
99	[198, 199]	2148	[3408, 1381]	4197	[5263, 3219]	6246	[6386, 3903]
100	[200, 201]	2149	[2894, 1263]	4198	[5503, 5270]	6247	[4913, 2021]
101	[202, 203]	2150	[3409, 3410]	4199	[5504, 3354]	6248	[3913, 1892]
102	[204, 205]	2151	[3411, 3412]	4200	[5505, 5506]	6249	[4166, 4225]
103	[140, 206]	2152	[3413, 3361]	4201	[5507, 2968]	6250	[733, 4553]
104	[207, 208]	2153	[3414, 3415]	4202	[2688, 3798]	6251	[2504, 5168]
105	[209, 210]	2154	[3416, 3033]	4203	[419, 2621]	6252	[7032, 52]
106	[211, 59]	2155	[3417, 3418]	4204	[5508, 3717]	6253	[7033, 4955]
107	[212, 213]	2156	[2685, 3419]	4205	[3854, 1442]	6254	[2081, 7034]
108	[214, 215]	2157	[3420, 2976]	4206	[5509, 925]	6255	[4134, 7035]

109	[216, 217]	2158	[3421, 3398]	4207	[1241, 1528]	6256	[7036, 4426]
110	[218, 219]	2159	[1096, 2640]	4208	[5510, 5307]	6257	[7037, 3961]
111	[220, 221]	2160	[3422, 3423]	4209	[3103, 3591]	6258	[251, 6590]
112	[222, 223]	2161	[3424, 3425]	4210	[5511, 3144]	6259	[3068, 5495]
113	[224, 225]	2162	[1122, 3426]	4211	[5512, 1254]	6260	[7038, 7039]
114	[226, 227]	2163	[3427, 2945]	4212	[5513, 443]	6261	[1125, 3010]
115	[228, 229]	2164	[3428, 1431]	4213	[2958, 2752]	6262	[7040, 3733]
116	[230, 231]	2165	[927, 3429]	4214	[3242, 1402]	6263	[7041, 7042]
117	[232, 233]	2166	[3430, 2935]	4215	[278, 3859]	6264	[1156, 1396]
118	[234, 235]	2167	[3431, 3432]	4216	[5514, 5515]	6265	[6105, 3290]
119	[236, 237]	2168	[3433, 1162]	4217	[5516, 3371]	6266	[7043, 2641]
120	[238, 239]	2169	[1385, 3434]	4218	[5517, 5518]	6267	[70, 3356]
121	[240, 241]	2170	[2635, 3108]	4219	[2944, 1445]	6268	[5872, 3052]
122	[242, 243]	2171	[3435, 1518]	4220	[3442, 3527]	6269	[3387, 2748]
123	[244, 245]	2172	[3436, 2920]	4221	[5519, 5520]	6270	[2986, 96]
124	[246, 247]	2173	[3437, 2999]	4222	[5521, 5522]	6271	[3027, 2864]
125	[248, 249]	2174	[2889, 3438]	4223	[5523, 3704]	6272	[7044, 5465]
126	[250, 251]	2175	[3439, 363]	4224	[5524, 5525]	6273	[7045, 7046]
127	[252, 253]	2176	[3440, 2692]	4225	[5526, 1165]	6274	[1108, 2925]
128	[254, 255]	2177	[3441, 3442]	4226	[124, 922]	6275	[6195, 335]
129	[256, 257]	2178	[3443, 273]	4227	[5527, 397]	6276	[7047, 6173]
130	[258, 259]	2179	[347, 2590]	4228	[5528, 5529]	6277	[7048, 2929]
131	[260, 261]	2180	[1166, 3444]	4229	[5530, 3172]	6278	[7049, 30]
132	[262, 263]	2181	[1249, 1199]	4230	[5531, 419]	6279	[7050, 7051]
133	[264, 265]	2182	[2697, 3445]	4231	[1502, 306]	6280	[7052, 1523]
134	[266, 267]	2183	[3446, 924]	4232	[3395, 3461]	6281	[3493, 5671]
135	[268, 269]	2184	[3447, 3448]	4233	[1412, 2715]	6282	[2973, 5552]
136	[270, 271]	2185	[3449, 3450]	4234	[3783, 310]	6283	[3759, 5376]
137	[272, 273]	2186	[1332, 3451]	4235	[5532, 3534]	6284	[7053, 7054]
138	[263, 274]	2187	[3452, 3453]	4236	[5533, 3829]	6285	[7055, 5640]
139	[275, 276]	2188	[3454, 3455]	4237	[5534, 460]	6286	[5399, 5745]
140	[277, 278]	2189	[3456, 949]	4238	[5535, 338]	6287	[7056, 1006]
141	[279, 280]	2190	[3457, 1181]	4239	[5536, 117]	6288	[6049, 3780]
142	[281, 282]	2191	[3458, 266]	4240	[5537, 67]	6289	[7057, 3805]
143	[20, 283]	2192	[3459, 1032]	4241	[5538, 3716]	6290	[7058, 3832]
144	[284, 285]	2193	[3460, 3461]	4242	[5539, 5540]	6291	[1037, 2942]
145	[286, 287]	2194	[3462, 2635]	4243	[5541, 5542]	6292	[7059, 3024]
146	[288, 289]	2195	[3463, 3464]	4244	[5515, 3416]	6293	[1374, 2820]
147	[290, 291]	2196	[3465, 3466]	4245	[3551, 1055]	6294	[7060, 2851]
148	[292, 293]	2197	[3467, 3468]	4246	[3707, 5543]	6295	[7061, 2585]
149	[294, 295]	2198	[2612, 3469]	4247	[1002, 1194]	6296	[5557, 1148]
150	[296, 297]	2199	[3470, 3471]	4248	[1084, 3570]	6297	[5628, 2581]
151	[298, 299]	2200	[2899, 2786]	4249	[3378, 3409]	6298	[7062, 7063]
152	[300, 301]	2201	[3472, 2695]	4250	[5401, 5411]	6299	[7064, 1195]

153	[302, 303]	2202	[3473, 3474]	4251	[5217, 1364]	6300	[7065, 2986]
154	[304, 305]	2203	[1366, 3269]	4252	[5544, 2886]	6301	[3129, 1110]
155	[306, 307]	2204	[3475, 2921]	4253	[5545, 2967]	6302	[5746, 1368]
156	[308, 309]	2205	[3476, 3477]	4254	[5546, 3852]	6303	[7066, 3624]
157	[310, 311]	2206	[2900, 3478]	4255	[5192, 463]	6304	[7067, 1426]
158	[312, 313]	2207	[3479, 2945]	4256	[5547, 3857]	6305	[5824, 6165]
159	[314, 315]	2208	[1039, 1433]	4257	[5548, 1175]	6306	[7068, 5492]
160	[316, 317]	2209	[3480, 3173]	4258	[5549, 3438]	6307	[323, 1253]
161	[318, 319]	2210	[3481, 3482]	4259	[5550, 3058]	6308	[7069, 3697]
162	[320, 321]	2211	[3483, 3484]	4260	[5551, 5552]	6309	[2793, 2928]
163	[322, 323]	2212	[3485, 2718]	4261	[5553, 1281]	6310	[7070, 5559]
164	[324, 325]	2213	[3313, 3486]	4262	[5554, 3698]	6311	[7071, 3362]
165	[326, 327]	2214	[3487, 3488]	4263	[5555, 3762]	6312	[7072, 3113]
166	[328, 329]	2215	[1280, 1383]	4264	[5556, 5557]	6313	[7073, 7074]
167	[330, 331]	2216	[3489, 3102]	4265	[5558, 1251]	6314	[7075, 2763]
168	[267, 332]	2217	[3490, 2733]	4266	[1378, 3139]	6315	[7076, 5700]
169	[333, 334]	2218	[3491, 2776]	4267	[5306, 5559]	6316	[7077, 3106]
170	[335, 69]	2219	[3492, 3493]	4268	[3772, 5560]	6317	[7078, 5680]
171	[336, 337]	2220	[3287, 2684]	4269	[1208, 5561]	6318	[7079, 5200]
172	[338, 339]	2221	[3494, 1483]	4270	[5562, 3321]	6319	[7080, 1452]
173	[340, 341]	2222	[3495, 3225]	4271	[2790, 3164]	6320	[7081, 965]
174	[342, 343]	2223	[3496, 1229]	4272	[5563, 5564]	6321	[7082, 3077]
175	[344, 345]	2224	[3497, 3498]	4273	[5565, 3109]	6322	[7083, 1063]
176	[346, 347]	2225	[3499, 894]	4274	[5566, 5460]	6323	[7084, 3352]
177	[348, 308]	2226	[3500, 3471]	4275	[5567, 3721]	6324	[7085, 361]
178	[349, 348]	2227	[3176, 3501]	4276	[5568, 305]	6325	[1410, 2933]
179	[350, 351]	2228	[3502, 3503]	4277	[5569, 3200]	6326	[7086, 1332]
180	[352, 353]	2229	[1120, 1489]	4278	[3829, 3231]	6327	[7087, 6038]
181	[354, 355]	2230	[3504, 3505]	4279	[3337, 3117]	6328	[7088, 99]
182	[356, 357]	2231	[3506, 1026]	4280	[5570, 2953]	6329	[7089, 3004]
183	[358, 359]	2232	[3507, 976]	4281	[5571, 5214]	6330	[7090, 6060]
184	[360, 361]	2233	[3508, 1036]	4282	[5355, 5572]	6331	[7091, 2670]
185	[362, 363]	2234	[1500, 3509]	4283	[5573, 3144]	6332	[7092, 2626]
186	[364, 292]	2235	[3510, 1375]	4284	[5574, 3746]	6333	[7093, 6008]
187	[365, 366]	2236	[3511, 3512]	4285	[3038, 1192]	6334	[3365, 5303]
188	[367, 368]	2237	[1004, 1286]	4286	[5575, 3789]	6335	[7094, 6130]
189	[369, 370]	2238	[3513, 3514]	4287	[5576, 5577]	6336	[5727, 2846]
190	[371, 372]	2239	[3515, 3516]	4288	[5578, 1497]	6337	[339, 3342]
191	[373, 374]	2240	[3517, 354]	4289	[5579, 5580]	6338	[7095, 3342]
192	[375, 376]	2241	[1491, 3405]	4290	[102, 5581]	6339	[1020, 3576]
193	[377, 378]	2242	[1129, 3518]	4291	[5582, 3778]	6340	[3559, 5735]
194	[379, 380]	2243	[3519, 915]	4292	[5583, 2842]	6341	[5993, 1013]
195	[381, 382]	2244	[3520, 2766]	4293	[1090, 5584]	6342	[2875, 7096]
196	[383, 384]	2245	[3521, 3522]	4294	[5585, 365]	6343	[7097, 6170]

197	[385, 386]	2246	[3523, 290]	4295	[5586, 5587]	6344	[7098, 3114]
198	[387, 388]	2247	[3524, 3525]	4296	[5588, 3835]	6345	[7099, 1156]
199	[389, 390]	2248	[3526, 1503]	4297	[5589, 3737]	6346	[7100, 1141]
200	[391, 392]	2249	[3527, 938]	4298	[5277, 5590]	6347	[7101, 2592]
201	[393, 394]	2250	[3528, 1430]	4299	[5591, 1304]	6348	[7102, 6206]
202	[395, 396]	2251	[1382, 328]	4300	[5592, 3825]	6349	[7103, 7104]
203	[397, 398]	2252	[3529, 3530]	4301	[3780, 5593]	6350	[7105, 2840]
204	[399, 400]	2253	[3531, 3532]	4302	[5594, 1095]	6351	[7106, 109]
205	[401, 402]	2254	[3533, 3099]	4303	[5595, 5265]	6352	[7107, 3588]
206	[403, 404]	2255	[3534, 3535]	4304	[5596, 2616]	6353	[7108, 5730]
207	[405, 406]	2256	[3536, 466]	4305	[5597, 3367]	6354	[3097, 3598]
208	[407, 408]	2257	[2721, 3537]	4306	[3215, 3489]	6355	[7109, 5883]
209	[409, 410]	2258	[3538, 3539]	4307	[5598, 3301]	6356	[2773, 5227]
210	[411, 412]	2259	[3540, 3541]	4308	[3350, 5599]	6357	[7110, 5584]
211	[413, 87]	2260	[3542, 3543]	4309	[3664, 5600]	6358	[7111, 3091]
212	[414, 415]	2261	[3544, 3545]	4310	[5601, 3581]	6359	[7112, 3125]
213	[416, 417]	2262	[3546, 3345]	4311	[5602, 2608]	6360	[7113, 1244]
214	[418, 419]	2263	[1440, 3099]	4312	[2683, 5310]	6361	[7114, 321]
215	[420, 421]	2264	[3547, 3548]	4313	[5603, 2825]	6362	[7115, 85]
216	[422, 423]	2265	[3549, 1077]	4314	[5604, 296]	6363	[7096, 5262]
217	[424, 425]	2266	[3550, 3551]	4315	[5605, 2609]	6364	[7116, 7117]
218	[426, 427]	2267	[3552, 3215]	4316	[5606, 5607]	6365	[7118, 1142]
219	[428, 429]	2268	[3367, 99]	4317	[2978, 3082]	6366	[7119, 450]
220	[430, 431]	2269	[3553, 3554]	4318	[5608, 5422]	6367	[2695, 3370]
221	[432, 433]	2270	[3088, 2990]	4319	[5609, 1387]	6368	[7120, 2976]
222	[434, 435]	2271	[3555, 3556]	4320	[5610, 1552]	6369	[5354, 5405]
223	[436, 437]	2272	[1423, 893]	4321	[5611, 2634]	6370	[7121, 3511]
224	[438, 439]	2273	[3557, 2606]	4322	[5612, 5373]	6371	[7122, 1188]
225	[440, 441]	2274	[3558, 3559]	4323	[5613, 5591]	6372	[3750, 1441]
226	[104, 442]	2275	[3560, 3561]	4324	[5614, 5274]	6373	[7123, 7124]
227	[443, 444]	2276	[3562, 3563]	4325	[5615, 3530]	6374	[3061, 5373]
228	[445, 446]	2277	[1552, 1163]	4326	[3229, 5616]	6375	[2690, 3620]
229	[447, 448]	2278	[3564, 3565]	4327	[3694, 3393]	6376	[5303, 1197]
230	[449, 450]	2279	[3566, 3567]	4328	[5617, 1294]	6377	[5522, 1452]
231	[451, 452]	2280	[3568, 86]	4329	[1368, 3662]	6378	[956, 1089]
232	[453, 454]	2281	[3569, 1042]	4330	[5618, 3341]	6379	[3303, 6173]
233	[455, 456]	2282	[3570, 1326]	4331	[1422, 1323]	6380	[7125, 7126]
234	[452, 257]	2283	[303, 3571]	4332	[5619, 5620]	6381	[7127, 2908]
235	[457, 458]	2284	[3572, 3573]	4333	[305, 5566]	6382	[7126, 908]
236	[459, 460]	2285	[3574, 3418]	4334	[5621, 3181]	6383	[5761, 3402]
237	[295, 461]	2286	[3575, 2966]	4335	[5622, 2839]	6384	[7128, 293]
238	[462, 463]	2287	[3576, 2968]	4336	[5623, 1545]	6385	[7129, 78]
239	[464, 465]	2288	[2776, 3577]	4337	[5624, 5235]	6386	[7130, 7131]
240	[460, 466]	2289	[3578, 3579]	4338	[5625, 5626]	6387	[5973, 2939]

241	[461, 467]	2290	[3580, 3581]	4339	[5607, 1271]	6388	[7132, 3251]
242	[463, 360]	2291	[995, 26]	4340	[5495, 5487]	6389	[7133, 5340]
243	[465, 362]	2292	[3582, 3583]	4341	[5627, 5628]	6390	[7134, 3143]
244	[468, 469]	2293	[3584, 465]	4342	[5629, 2605]	6391	[7135, 420]
245	[470, 471]	2294	[3585, 1066]	4343	[5630, 1461]	6392	[7136, 5788]
246	[471, 472]	2295	[3586, 3587]	4344	[5631, 3192]	6393	[3276, 3271]
247	[473, 397]	2296	[1144, 3588]	4345	[5632, 3087]	6394	[1118, 304]
248	[474, 475]	2297	[3589, 1366]	4346	[5633, 5634]	6395	[7137, 3300]
249	[321, 395]	2298	[1035, 1349]	4347	[5540, 2585]	6396	[7138, 1015]
250	[476, 477]	2299	[3571, 287]	4348	[5635, 5636]	6397	[3591, 3484]
251	[478, 479]	2300	[3590, 3591]	4349	[1510, 5637]	6398	[7139, 7140]
252	[480, 481]	2301	[3592, 260]	4350	[5638, 5433]	6399	[7141, 7142]
253	[482, 483]	2302	[3593, 1504]	4351	[3150, 942]	6400	[7143, 3786]
254	[484, 485]	2303	[3594, 3595]	4352	[5639, 5640]	6401	[7144, 2926]
255	[486, 487]	2304	[3596, 3597]	4353	[1538, 3113]	6402	[7145, 5632]
256	[488, 489]	2305	[3598, 3599]	4354	[5641, 5642]	6403	[7146, 3753]
257	[490, 491]	2306	[3600, 2803]	4355	[5643, 5639]	6404	[7147, 421]
258	[492, 493]	2307	[3601, 1167]	4356	[5644, 5616]	6405	[5599, 1557]
259	[494, 495]	2308	[3602, 2640]	4357	[5645, 5646]	6406	[7148, 5572]
260	[496, 497]	2309	[3603, 3451]	4358	[5647, 3095]	6407	[7149, 5623]
261	[498, 499]	2310	[3604, 1540]	4359	[5648, 399]	6408	[5683, 2903]
262	[500, 501]	2311	[3605, 1247]	4360	[5649, 3309]	6409	[2952, 1021]
263	[502, 503]	2312	[1349, 303]	4361	[3274, 3362]	6410	[3842, 3775]
264	[504, 505]	2313	[3606, 2716]	4362	[5650, 2965]	6411	[7150, 2602]
265	[506, 507]	2314	[3201, 3607]	4363	[3595, 3058]	6412	[7151, 414]
266	[508, 509]	2315	[2849, 3146]	4364	[5651, 1171]	6413	[7152, 1312]
267	[510, 511]	2316	[1347, 3608]	4365	[5652, 3184]	6414	[7153, 5428]
268	[512, 513]	2317	[3609, 2708]	4366	[5653, 5404]	6415	[7154, 5873]
269	[514, 515]	2318	[906, 980]	4367	[5654, 5655]	6416	[2904, 5294]
270	[516, 517]	2319	[1323, 3610]	4368	[5656, 1236]	6417	[920, 5268]
271	[518, 157]	2320	[3611, 1436]	4369	[3310, 3329]	6418	[7155, 1427]
272	[519, 520]	2321	[3612, 1327]	4370	[5634, 5657]	6419	[7156, 5709]
273	[521, 193]	2322	[881, 2750]	4371	[3003, 3701]	6420	[7157, 3150]
274	[522, 523]	2323	[888, 2645]	4372	[5658, 5659]	6421	[7158, 5672]
275	[524, 525]	2324	[3613, 2829]	4373	[78, 5465]	6422	[2888, 5515]
276	[526, 527]	2325	[3614, 1446]	4374	[5660, 5397]	6423	[3174, 1128]
277	[528, 529]	2326	[3615, 3272]	4375	[1530, 5220]	6424	[7159, 7160]
278	[530, 531]	2327	[3159, 2678]	4376	[5661, 5396]	6425	[2592, 3015]
279	[532, 533]	2328	[3616, 3617]	4377	[376, 2869]	6426	[7161, 3861]
280	[534, 535]	2329	[3618, 3619]	4378	[5662, 5636]	6427	[7162, 2672]
281	[536, 537]	2330	[3535, 399]	4379	[3516, 3564]	6428	[7163, 1100]
282	[538, 138]	2331	[1516, 3375]	4380	[3539, 3001]	6429	[7164, 5194]
283	[539, 540]	2332	[3620, 3567]	4381	[5663, 5291]	6430	[7165, 1351]
284	[541, 542]	2333	[3474, 77]	4382	[5664, 2859]	6431	[7166, 3252]

285	[543, 544]	2334	[3621, 2707]	4383	[1086, 899]	6432	[7167, 1106]
286	[206, 545]	2335	[2936, 3622]	4384	[1285, 424]	6433	[7168, 1205]
287	[546, 547]	2336	[3623, 3232]	4385	[5665, 428]	6434	[7169, 390]
288	[548, 549]	2337	[3624, 3264]	4386	[3522, 3752]	6435	[5257, 5255]
289	[550, 551]	2338	[3625, 3626]	4387	[5666, 3686]	6436	[7170, 3174]
290	[552, 553]	2339	[3627, 3628]	4388	[5667, 5377]	6437	[1559, 265]
291	[554, 555]	2340	[3629, 3630]	4389	[2818, 2793]	6438	[7171, 5277]
292	[556, 557]	2341	[3631, 3632]	4390	[5668, 451]	6439	[7172, 3165]
293	[558, 559]	2342	[3633, 1384]	4391	[5669, 5518]	6440	[7173, 260]
294	[560, 561]	2343	[3634, 2644]	4392	[5670, 5671]	6441	[7054, 3636]
295	[562, 563]	2344	[3635, 394]	4393	[3537, 2872]	6442	[7174, 3060]
296	[564, 565]	2345	[3636, 3637]	4394	[5672, 5620]	6443	[3143, 915]
297	[566, 567]	2346	[3638, 1145]	4395	[2692, 5344]	6444	[1307, 3867]
298	[568, 569]	2347	[1352, 3532]	4396	[5518, 2835]	6445	[7175, 5731]
299	[570, 571]	2348	[3425, 3493]	4397	[1343, 5673]	6446	[7176, 1199]
300	[572, 573]	2349	[3639, 3524]	4398	[5674, 3669]	6447	[7177, 3378]
301	[574, 575]	2350	[2586, 3640]	4399	[5675, 3312]	6448	[7178, 2624]
302	[576, 577]	2351	[3641, 3642]	4400	[3410, 1084]	6449	[3315, 5911]
303	[578, 546]	2352	[3466, 3282]	4401	[5676, 5341]	6450	[7179, 418]
304	[579, 62]	2353	[3468, 3643]	4402	[2652, 1330]	6451	[7180, 5909]
305	[580, 581]	2354	[3203, 3644]	4403	[3563, 5396]	6452	[3464, 5377]
306	[582, 583]	2355	[3645, 3646]	4404	[3640, 5677]	6453	[7181, 2890]
307	[544, 584]	2356	[3647, 2869]	4405	[3794, 5678]	6454	[3334, 3002]
308	[585, 586]	2357	[3648, 3102]	4406	[5679, 110]	6455	[7182, 3318]
309	[587, 588]	2358	[3649, 1036]	4407	[5680, 455]	6456	[7183, 3617]
310	[589, 590]	2359	[3650, 291]	4408	[3037, 3198]	6457	[7184, 3622]
311	[591, 592]	2360	[1148, 2669]	4409	[5681, 2737]	6458	[2931, 7185]
312	[593, 594]	2361	[3651, 1421]	4410	[5682, 5683]	6459	[7186, 1467]
313	[595, 596]	2362	[3652, 1074]	4411	[5684, 1016]	6460	[3541, 5210]
314	[10, 597]	2363	[3653, 3135]	4412	[5685, 3006]	6461	[7187, 1328]
315	[598, 599]	2364	[1006, 3352]	4413	[3818, 5686]	6462	[7188, 7120]
316	[600, 601]	2365	[3654, 2916]	4414	[3798, 5687]	6463	[7189, 17]
317	[602, 603]	2366	[3655, 3656]	4415	[5688, 5689]	6464	[7190, 3047]
318	[604, 605]	2367	[3657, 3405]	4416	[1376, 5239]	6465	[5590, 1167]
319	[606, 607]	2368	[3658, 1351]	4417	[2588, 3616]	6466	[7191, 3257]
320	[608, 609]	2369	[3659, 3489]	4418	[1082, 5690]	6467	[7192, 3083]
321	[610, 611]	2370	[2870, 3660]	4419	[5691, 3525]	6468	[3461, 7193]
322	[612, 613]	2371	[3661, 3662]	4420	[5692, 5693]	6469	[7194, 5567]
323	[614, 615]	2372	[3663, 3664]	4421	[5694, 932]	6470	[7195, 1478]
324	[616, 617]	2373	[3665, 3666]	4422	[5695, 5230]	6471	[7196, 3775]
325	[618, 619]	2374	[3667, 3416]	4423	[5696, 5254]	6472	[7197, 111]
326	[620, 621]	2375	[3668, 3669]	4424	[5697, 3830]	6473	[7198, 1517]
327	[622, 623]	2376	[3670, 3189]	4425	[3418, 393]	6474	[7199, 3443]
328	[624, 625]	2377	[3010, 3252]	4426	[5698, 2962]	6475	[1363, 5669]

329	[626, 627]	2378	[3671, 3672]	4427	[3112, 3197]	6476	[7200, 3422]
330	[628, 629]	2379	[3673, 3674]	4428	[5699, 308]	6477	[7201, 5851]
331	[630, 241]	2380	[3675, 3676]	4429	[5700, 125]	6478	[7202, 5984]
332	[631, 632]	2381	[3677, 3678]	4430	[5701, 3728]	6479	[7203, 5439]
333	[633, 634]	2382	[3679, 1454]	4431	[1418, 1062]	6480	[7204, 5587]
334	[635, 636]	2383	[3680, 1048]	4432	[5702, 1201]	6481	[7205, 3860]
335	[637, 638]	2384	[3681, 2712]	4433	[5703, 5704]	6482	[7206, 3529]
336	[639, 640]	2385	[3682, 1019]	4434	[5705, 3423]	6483	[7207, 3564]
337	[641, 642]	2386	[3683, 3684]	4435	[5706, 3583]	6484	[3832, 3785]
338	[643, 644]	2387	[2598, 3057]	4436	[5707, 5708]	6485	[7208, 3253]
339	[645, 646]	2388	[3685, 3668]	4437	[5709, 2957]	6486	[7209, 2690]
340	[647, 648]	2389	[3514, 3686]	4438	[5710, 445]	6487	[7210, 3182]
341	[649, 650]	2390	[3312, 3687]	4439	[5525, 2840]	6488	[910, 5329]
342	[651, 652]	2391	[3688, 3689]	4440	[5711, 969]	6489	[7211, 3214]
343	[653, 49]	2392	[3690, 283]	4441	[5712, 1257]	6490	[7212, 5239]
344	[654, 655]	2393	[3691, 930]	4442	[5713, 366]	6491	[1259, 344]
345	[656, 657]	2394	[2865, 1232]	4443	[971, 5714]	6492	[5812, 7213]
346	[658, 659]	2395	[1398, 3612]	4444	[5715, 5260]	6493	[7214, 3206]
347	[660, 661]	2396	[2956, 3412]	4445	[898, 1394]	6494	[7215, 3756]
348	[662, 587]	2397	[3692, 3550]	4446	[5716, 1138]	6495	[7216, 93]
349	[663, 595]	2398	[3693, 3694]	4447	[3674, 3573]	6496	[7217, 5221]
350	[664, 665]	2399	[3695, 1463]	4448	[5717, 5718]	6497	[3770, 5659]
351	[666, 667]	2400	[3696, 3697]	4449	[5719, 116]	6498	[7218, 2622]
352	[668, 669]	2401	[3698, 3699]	4450	[1215, 1151]	6499	[7219, 3223]
353	[670, 671]	2402	[3700, 3701]	4451	[472, 1556]	6500	[7220, 3594]
354	[672, 673]	2403	[3702, 2738]	4452	[890, 2747]	6501	[7221, 3397]
355	[674, 675]	2404	[3703, 309]	4453	[3704, 3156]	6502	[7222, 5561]
356	[676, 677]	2405	[3482, 3704]	4454	[5720, 942]	6503	[1088, 3172]
357	[678, 553]	2406	[3697, 3705]	4455	[5721, 914]	6504	[2965, 6220]
358	[679, 680]	2407	[3706, 3707]	4456	[5722, 3577]	6505	[3686, 1511]
359	[681, 682]	2408	[3708, 3709]	4457	[5723, 2817]	6506	[7223, 2917]
360	[683, 146]	2409	[3710, 3711]	4458	[990, 5724]	6507	[7224, 6161]
361	[684, 685]	2410	[3712, 1129]	4459	[5725, 1422]	6508	[5737, 5730]
362	[686, 687]	2411	[1297, 1213]	4460	[5726, 5727]	6509	[3505, 968]
363	[688, 132]	2412	[3713, 3527]	4461	[1267, 1420]	6510	[2867, 7225]
364	[689, 558]	2413	[3714, 2728]	4462	[5728, 2838]	6511	[7226, 5593]
365	[690, 691]	2414	[3715, 2887]	4463	[3021, 3417]	6512	[7227, 3417]
366	[692, 650]	2415	[3716, 3717]	4464	[5729, 3551]	6513	[7228, 3363]
367	[693, 694]	2416	[3718, 1334]	4465	[1394, 895]	6514	[7229, 3766]
368	[695, 696]	2417	[3719, 2671]	4466	[5730, 1451]	6515	[7230, 5645]
369	[697, 665]	2418	[3720, 3721]	4467	[106, 376]	6516	[7231, 3339]
370	[698, 699]	2419	[3722, 3179]	4468	[5731, 5732]	6517	[7232, 289]
371	[700, 701]	2420	[3145, 1495]	4469	[5733, 3459]	6518	[7233, 3188]
372	[702, 703]	2421	[3723, 3724]	4470	[5734, 5735]	6519	[1556, 3619]

373	[704, 705]	2422	[3725, 1232]	4471	[5736, 5737]	6520	[3391, 3539]
374	[706, 707]	2423	[3726, 261]	4472	[5738, 996]	6521	[7234, 1327]
375	[708, 709]	2424	[1276, 3524]	4473	[5739, 5740]	6522	[3089, 1101]
376	[210, 710]	2425	[3727, 345]	4474	[5741, 3391]	6523	[7235, 2726]
377	[711, 712]	2426	[998, 319]	4475	[5742, 2903]	6524	[7236, 3486]
378	[713, 714]	2427	[1017, 3728]	4476	[5743, 5744]	6525	[5498, 5437]
379	[715, 716]	2428	[3729, 3364]	4477	[5745, 5746]	6526	[7237, 5378]
380	[717, 149]	2429	[3730, 1473]	4478	[5747, 1558]	6527	[3852, 2778]
381	[718, 719]	2430	[3731, 3732]	4479	[3257, 387]	6528	[7238, 2650]
382	[720, 721]	2431	[3733, 1244]	4480	[5748, 5749]	6529	[7239, 7050]
383	[722, 723]	2432	[3734, 3284]	4481	[5750, 5751]	6530	[3136, 3505]
384	[724, 725]	2433	[3735, 2639]	4482	[5752, 3085]	6531	[7240, 2721]
385	[726, 727]	2434	[3736, 3737]	4483	[1188, 5753]	6532	[3705, 6010]
386	[728, 729]	2435	[3738, 432]	4484	[5754, 2785]	6533	[7241, 1115]
387	[730, 731]	2436	[2847, 2636]	4485	[5755, 2739]	6534	[475, 6034]
388	[732, 733]	2437	[3739, 3740]	4486	[5756, 1258]	6535	[7242, 985]
389	[734, 735]	2438	[2662, 2720]	4487	[5757, 934]	6536	[7124, 7243]
390	[736, 737]	2439	[3423, 3069]	4488	[5758, 2626]	6537	[3056, 5280]
391	[738, 739]	2440	[1048, 3534]	4489	[5474, 5759]	6538	[7244, 3201]
392	[740, 594]	2441	[3741, 3598]	4490	[5760, 1198]	6539	[7245, 3261]
393	[741, 677]	2442	[3434, 1133]	4491	[108, 5761]	6540	[5616, 474]
394	[742, 743]	2443	[3742, 2923]	4492	[5186, 5719]	6541	[7246, 1032]
395	[744, 586]	2444	[3743, 3744]	4493	[1489, 5645]	6542	[1436, 3579]
396	[611, 745]	2445	[3745, 912]	4494	[5762, 5401]	6543	[7247, 1230]
397	[746, 555]	2446	[84, 3746]	4495	[3556, 3563]	6544	[7248, 5364]
398	[747, 748]	2447	[355, 2796]	4496	[5763, 2805]	6545	[3184, 114]
399	[749, 684]	2448	[3747, 3141]	4497	[5764, 5765]	6546	[922, 1180]
400	[750, 751]	2449	[3748, 414]	4498	[5766, 5767]	6547	[7249, 2994]
401	[752, 753]	2450	[3749, 3750]	4499	[3212, 5337]	6548	[1540, 5185]
402	[754, 755]	2451	[3751, 3313]	4500	[3190, 5489]	6549	[1146, 2618]
403	[756, 757]	2452	[3752, 3753]	4501	[5207, 5626]	6550	[1551, 5383]
404	[758, 759]	2453	[3754, 3755]	4502	[1558, 3787]	6551	[7250, 3787]
405	[760, 761]	2454	[946, 3756]	4503	[332, 420]	6552	[7251, 479]
406	[762, 763]	2455	[3232, 3095]	4504	[1460, 5768]	6553	[7252, 1225]
407	[764, 765]	2456	[3757, 1433]	4505	[3348, 1177]	6554	[7253, 5908]
408	[766, 767]	2457	[3758, 400]	4506	[5769, 360]	6555	[7254, 4]
409	[768, 608]	2458	[2629, 3759]	4507	[3154, 91]	6556	[7243, 956]
410	[769, 770]	2459	[3760, 3761]	4508	[5770, 3401]	6557	[2874, 1308]
411	[771, 772]	2460	[3762, 3485]	4509	[5771, 3660]	6558	[6000, 5827]
412	[773, 774]	2461	[3763, 476]	4510	[5772, 5285]	6559	[7255, 6102]
413	[775, 776]	2462	[3740, 3621]	4511	[5773, 3136]	6560	[7256, 3565]
414	[777, 778]	2463	[968, 919]	4512	[5774, 3326]	6561	[7257, 1280]
415	[779, 568]	2464	[3764, 3765]	4513	[5775, 1464]	6562	[5315, 3629]
416	[780, 781]	2465	[2606, 3766]	4514	[1069, 334]	6563	[7258, 382]

417	[782, 783]	2466	[3622, 3158]	4515	[3043, 3339]	6564	[7259, 1400]
418	[784, 785]	2467	[3767, 2832]	4516	[5776, 3226]	6565	[1444, 354]
419	[786, 787]	2468	[3766, 3529]	4517	[5777, 3208]	6566	[5542, 7202]
420	[511, 788]	2469	[3768, 3769]	4518	[3235, 985]	6567	[7260, 5805]
421	[605, 789]	2470	[2734, 3770]	4519	[5778, 3403]	6568	[7261, 1099]
422	[790, 791]	2471	[3771, 3772]	4520	[5779, 5336]	6569	[7262, 7263]
423	[249, 247]	2472	[3773, 3774]	4521	[5678, 5422]	6570	[2677, 5609]
424	[792, 189]	2473	[3775, 3776]	4522	[5780, 2723]	6571	[1282, 3266]
425	[793, 794]	2474	[3777, 1172]	4523	[5781, 269]	6572	[7264, 1482]
426	[795, 796]	2475	[3778, 2638]	4524	[5782, 1515]	6573	[7265, 7051]
427	[797, 798]	2476	[3779, 3780]	4525	[5783, 1415]	6574	[7266, 5581]
428	[799, 800]	2477	[3781, 84]	4526	[1061, 3032]	6575	[1063, 6072]
429	[801, 802]	2478	[1168, 2909]	4527	[5784, 311]	6576	[7267, 5524]
430	[803, 804]	2479	[3561, 3454]	4528	[5785, 3509]	6577	[5646, 3523]
431	[805, 182]	2480	[3782, 3783]	4529	[5786, 3570]	6578	[6111, 3739]
432	[806, 807]	2481	[3045, 3745]	4530	[2916, 1125]	6579	[7268, 1258]
433	[808, 809]	2482	[3784, 3785]	4531	[2985, 5540]	6580	[1518, 6130]
434	[810, 811]	2483	[2727, 3468]	4532	[5787, 940]	6581	[7269, 2848]
435	[812, 813]	2484	[3786, 3076]	4533	[1438, 5788]	6582	[3802, 6]
436	[814, 815]	2485	[2627, 3077]	4534	[5789, 365]	6583	[5560, 1301]
437	[816, 14]	2486	[3787, 3246]	4535	[5790, 112]	6584	[7270, 3790]
438	[817, 818]	2487	[3788, 3693]	4536	[5791, 5792]	6585	[7271, 2775]
439	[819, 820]	2488	[394, 3684]	4537	[5793, 2658]	6586	[7272, 1561]
440	[821, 822]	2489	[3789, 3790]	4538	[3156, 2755]	6587	[3284, 389]
441	[823, 824]	2490	[3791, 3792]	4539	[5794, 459]	6588	[7273, 3867]
442	[825, 826]	2491	[3793, 3794]	4540	[5428, 1355]	6589	[1457, 7274]
443	[680, 501]	2492	[3795, 3607]	4541	[329, 3558]	6590	[7275, 294]
444	[827, 828]	2493	[2810, 3223]	4542	[5795, 2649]	6591	[7276, 436]
445	[829, 172]	2494	[3796, 1014]	4543	[5796, 5797]	6592	[7277, 2607]
446	[830, 831]	2495	[3797, 3798]	4544	[5798, 1401]	6593	[7278, 5984]
447	[832, 833]	2496	[2922, 1025]	4545	[5799, 3178]	6594	[3049, 2691]
448	[834, 835]	2497	[1330, 3799]	4546	[5800, 1207]	6595	[7279, 3571]
449	[836, 837]	2498	[3800, 2918]	4547	[1337, 5801]	6596	[3827, 3645]
450	[838, 839]	2499	[3801, 3802]	4548	[5802, 1364]	6597	[5340, 377]
451	[840, 490]	2500	[3803, 939]	4549	[5803, 2627]	6598	[7280, 1123]
452	[841, 842]	2501	[3728, 385]	4550	[479, 1182]	6599	[7281, 253]
453	[843, 844]	2502	[3804, 1062]	4551	[5804, 3324]	6600	[7282, 7283]
454	[845, 846]	2503	[3041, 3805]	4552	[5805, 5740]	6601	[7284, 916]
455	[219, 847]	2504	[958, 3806]	4553	[5806, 5312]	6602	[7285, 6042]
456	[848, 849]	2505	[3807, 1174]	4554	[1328, 5394]	6603	[1486, 7286]
457	[850, 851]	2506	[3808, 900]	4555	[5807, 5255]	6604	[5220, 7287]
458	[852, 853]	2507	[3809, 2645]	4556	[3445, 5808]	6605	[7288, 2915]
459	[854, 855]	2508	[3810, 3535]	4557	[3426, 5809]	6606	[7289, 456]
460	[856, 733]	2509	[3811, 1043]	4558	[5810, 3142]	6607	[7290, 3776]

461	[561, 857]	2510	[3812, 3587]	4559	[5811, 424]	6608	[7291, 1418]
462	[858, 683]	2511	[3660, 3813]	4560	[1252, 5812]	6609	[3272, 3736]
463	[859, 684]	2512	[2834, 3175]	4561	[5813, 402]	6610	[1326, 2762]
464	[860, 686]	2513	[1012, 3814]	4562	[1396, 5573]	6611	[7292, 3415]
465	[861, 688]	2514	[3815, 3334]	4563	[5809, 5814]	6612	[7046, 5557]
466	[855, 862]	2515	[3816, 3054]	4564	[5815, 3275]	6613	[7293, 3097]
467	[563, 863]	2516	[3817, 100]	4565	[1254, 3624]	6614	[116, 3196]
468	[864, 666]	2517	[3361, 3818]	4566	[5816, 5402]	6615	[1417, 5641]
469	[865, 866]	2518	[3819, 329]	4567	[5817, 5818]	6616	[7294, 5353]
470	[233, 867]	2519	[386, 445]	4568	[5819, 3828]	6617	[7295, 7096]
471	[868, 869]	2520	[2801, 2844]	4569	[3403, 473]	6618	[1181, 6047]
472	[870, 871]	2521	[3820, 2993]	4570	[3412, 3554]	6619	[7296, 378]
473	[872, 747]	2522	[3821, 473]	4571	[5820, 3320]	6620	[7297, 5372]
474	[873, 754]	2523	[3822, 3823]	4572	[5821, 1131]	6621	[7298, 2855]
475	[874, 875]	2524	[2859, 3066]	4573	[3429, 5822]	6622	[952, 2688]
476	[694, 876]	2525	[1137, 3130]	4574	[5823, 5824]	6623	[1543, 3308]
477	[696, 877]	2526	[3689, 1372]	4575	[5825, 259]	6624	[7299, 1365]
478	[665, 878]	2527	[3824, 2907]	4576	[5826, 5249]	6625	[7300, 98]
479	[699, 879]	2528	[3825, 1425]	4577	[5827, 5828]	6626	[3073, 6000]
480	[880, 881]	2529	[2621, 3664]	4578	[5829, 3076]	6627	[5453, 1360]
481	[882, 883]	2530	[3579, 3748]	4579	[3270, 1272]	6628	[7301, 1511]
482	[884, 101]	2531	[3826, 3745]	4580	[3525, 5449]	6629	[7302, 2611]
483	[885, 886]	2532	[357, 2985]	4581	[3039, 1154]	6630	[7303, 3149]
484	[887, 888]	2533	[72, 2676]	4582	[341, 3098]	6631	[1533, 6216]
485	[889, 890]	2534	[285, 3827]	4583	[5830, 3410]	6632	[7304, 906]
486	[891, 892]	2535	[3828, 3829]	4584	[1104, 5831]	6633	[7305, 3197]
487	[893, 894]	2536	[3830, 3831]	4585	[5832, 3380]	6634	[7306, 3537]
488	[895, 896]	2537	[3023, 3029]	4586	[351, 3309]	6635	[7307, 5637]
489	[897, 898]	2538	[388, 3832]	4587	[2660, 3425]	6636	[3717, 3680]
490	[899, 900]	2539	[3833, 3098]	4588	[5833, 2685]	6637	[7308, 923]
491	[901, 902]	2540	[3834, 1231]	4589	[3180, 3528]	6638	[2670, 1088]
492	[903, 904]	2541	[1508, 3835]	4590	[3192, 1080]	6639	[3755, 294]
493	[905, 906]	2542	[3836, 1041]	4591	[5834, 1040]	6640	[7309, 3658]
494	[907, 908]	2543	[1227, 3707]	4592	[1415, 5749]	6641	[7310, 1445]
495	[909, 910]	2544	[2948, 3443]	4593	[5835, 5836]	6642	[261, 7311]
496	[911, 912]	2545	[1520, 1009]	4594	[3737, 3203]	6643	[7312, 1509]
497	[913, 914]	2546	[3837, 2657]	4595	[3628, 5439]	6644	[7313, 5282]
498	[915, 916]	2547	[3838, 3422]	4596	[5837, 2742]	6645	[3846, 1016]
499	[917, 903]	2548	[4, 3839]	4597	[5838, 5453]	6646	[2654, 1412]
500	[918, 275]	2549	[3840, 3061]	4598	[5839, 3169]	6647	[5185, 7314]
501	[919, 920]	2550	[3841, 1442]	4599	[5840, 1144]	6648	[7315, 2749]
502	[921, 922]	2551	[2642, 1195]	4600	[5841, 964]	6649	[7316, 3016]
503	[86, 923]	2552	[1211, 3842]	4601	[5842, 5543]	6650	[7317, 2718]
504	[924, 925]	2553	[3843, 3479]	4602	[3724, 1035]	6651	[7318, 5944]

505	[926, 927]	2554	[3844, 1284]	4603	[5843, 5466]	6652	[7319, 1471]
506	[928, 929]	2555	[3845, 3846]	4604	[1160, 5718]	6653	[7320, 5714]
507	[930, 931]	2556	[3847, 3848]	4605	[3345, 3864]	6654	[3307, 2817]
508	[932, 933]	2557	[3849, 2993]	4606	[5844, 5845]	6655	[2935, 6111]
509	[934, 935]	2558	[3850, 3851]	4607	[5298, 5578]	6656	[7321, 5761]
510	[936, 937]	2559	[2887, 3852]	4608	[5846, 5847]	6657	[2784, 5297]
511	[938, 939]	2560	[3853, 2584]	4609	[3377, 5704]	6658	[2740, 5789]
512	[940, 941]	2561	[896, 3278]	4610	[466, 5199]	6659	[7322, 22]
513	[942, 943]	2562	[3063, 3211]	4611	[5848, 3739]	6660	[7323, 5300]
514	[944, 945]	2563	[3105, 3854]	4612	[5718, 2858]	6661	[3025, 5443]
515	[307, 946]	2564	[3255, 3676]	4613	[3333, 5221]	6662	[1321, 5873]
516	[947, 948]	2565	[3855, 3512]	4614	[5849, 2878]	6663	[7074, 5956]
517	[949, 950]	2566	[3856, 3153]	4615	[441, 3472]	6664	[7324, 3799]
518	[951, 952]	2567	[3380, 3857]	4616	[1229, 5672]	6665	[7325, 3042]
519	[953, 954]	2568	[3858, 3379]	4617	[5850, 3508]	6666	[7274, 6204]
520	[955, 956]	2569	[100, 3762]	4618	[3669, 5851]	6667	[2926, 2596]
521	[957, 958]	2570	[1213, 2829]	4619	[5852, 306]	6668	[1478, 5696]
522	[959, 960]	2571	[3859, 3860]	4620	[5853, 3004]	6669	[7326, 97]
523	[961, 962]	2572	[1043, 3861]	4621	[2877, 1266]	6670	[1008, 5287]
524	[963, 964]	2573	[3862, 3434]	4622	[5854, 422]	6671	[6185, 1381]
525	[965, 966]	2574	[3863, 2851]	4623	[5478, 21]	6672	[5183, 3258]
526	[967, 968]	2575	[3864, 2996]	4624	[5855, 3645]	6673	[7327, 449]
527	[925, 969]	2576	[3865, 3640]	4625	[3227, 5708]	6674	[5237, 1185]
528	[970, 971]	2577	[3866, 3459]	4626	[5856, 5857]	6675	[7328, 3638]
529	[972, 973]	2578	[3867, 2953]	4627	[5858, 5859]	6676	[7329, 6237]
530	[974, 975]	2579	[363, 2659]	4628	[892, 1068]	6677	[7330, 5325]
531	[384, 976]	2580	[3451, 3868]	4629	[5860, 3494]	6678	[7331, 3056]
532	[977, 978]	2581	[3869, 46]	4630	[3399, 3495]	6679	[7332, 3478]
533	[979, 980]	2582	[3870, 1891]	4631	[5861, 5463]	6680	[7333, 1498]
534	[981, 982]	2583	[3871, 1664]	4632	[5862, 2617]	6681	[7193, 6195]
535	[969, 983]	2584	[3872, 2036]	4633	[5863, 3576]	6682	[374, 1477]
536	[984, 331]	2585	[3873, 3874]	4634	[1198, 3360]	6683	[7287, 441]
537	[985, 986]	2586	[3875, 3876]	4635	[5864, 23]	6684	[7334, 5450]
538	[987, 68]	2587	[3877, 3878]	4636	[5865, 1228]	6685	[5822, 2655]
539	[988, 255]	2588	[669, 2038]	4637	[5866, 5395]	6686	[7039, 3255]
540	[989, 990]	2589	[3879, 1982]	4638	[5867, 1286]	6687	[415, 3678]
541	[259, 991]	2590	[3880, 3881]	4639	[5868, 3081]	6688	[24, 1135]
542	[992, 993]	2591	[3882, 3883]	4640	[5869, 2909]	6689	[7335, 5880]
543	[994, 995]	2592	[3884, 3885]	4641	[1200, 5689]	6690	[22, 7054]
544	[996, 312]	2593	[3886, 3887]	4642	[5870, 3585]	6691	[7336, 5891]
545	[997, 998]	2594	[3888, 2079]	4643	[458, 932]	6692	[456, 5934]
546	[999, 1000]	2595	[2569, 2459]	4644	[265, 3702]	6693	[7337, 3302]
547	[1001, 1002]	2596	[3889, 1589]	4645	[5871, 5872]	6694	[7338, 1037]
548	[1003, 1004]	2597	[2285, 3890]	4646	[5873, 5307]	6695	[7339, 7340]

549	[1005, 1006]	2598	[3891, 2145]	4647	[5874, 5696]	6696	[400, 3719]
550	[1007, 1008]	2599	[3892, 2260]	4648	[1289, 3656]	6697	[7341, 1058]
551	[1009, 1010]	2600	[3893, 875]	4649	[5875, 5366]	6698	[7342, 1245]
552	[1011, 1012]	2601	[3894, 847]	4650	[5876, 1521]	6699	[7343, 7344]
553	[1013, 1014]	2602	[3895, 2172]	4651	[3577, 3042]	6700	[1405, 3433]
554	[1015, 358]	2603	[3896, 3897]	4652	[5877, 407]	6701	[3860, 978]
555	[1016, 1017]	2604	[3898, 1855]	4653	[5878, 3052]	6702	[3194, 5230]
556	[1018, 1001]	2605	[3899, 242]	4654	[5879, 941]	6703	[7345, 1374]
557	[1019, 1020]	2606	[2071, 2390]	4655	[5880, 2772]	6704	[1054, 3244]
558	[1021, 930]	2607	[3900, 2524]	4656	[5881, 5882]	6705	[7346, 3176]
559	[1022, 1023]	2608	[3901, 3902]	4657	[3030, 2814]	6706	[7347, 2662]
560	[1024, 1025]	2609	[3903, 3904]	4658	[5883, 3672]	6707	[6072, 7263]
561	[1026, 1027]	2610	[3905, 2136]	4659	[1100, 3634]	6708	[7348, 1182]
562	[1028, 1029]	2611	[2058, 2087]	4660	[5884, 5858]	6709	[7349, 1534]
563	[886, 1030]	2612	[3906, 2159]	4661	[5270, 1205]	6710	[7350, 2954]
564	[1031, 276]	2613	[3907, 2296]	4662	[5885, 2581]	6711	[7351, 3353]
565	[1032, 1033]	2614	[2491, 3908]	4663	[5886, 1224]	6712	[2842, 65]
566	[1034, 1035]	2615	[3909, 130]	4664	[5887, 3719]	6713	[7352, 3736]
567	[1036, 1037]	2616	[2212, 3910]	4665	[5888, 1334]	6714	[3666, 1105]
568	[1038, 1039]	2617	[3911, 48]	4666	[5889, 1013]	6715	[5190, 6143]
569	[1040, 1041]	2618	[3912, 3913]	4667	[2828, 5576]	6716	[2760, 7160]
570	[1042, 1043]	2619	[3914, 3915]	4668	[5890, 2988]	6717	[7353, 1260]
571	[945, 1044]	2620	[813, 3916]	4669	[1370, 1505]	6718	[7354, 3518]
572	[1045, 1046]	2621	[3917, 1804]	4670	[5891, 3134]	6719	[7355, 7243]
573	[1047, 1048]	2622	[3918, 202]	4671	[5216, 2765]	6720	[5792, 1042]
574	[1049, 1050]	2623	[2207, 152]	4672	[5892, 5337]	6721	[7356, 3382]
575	[112, 1051]	2624	[187, 148]	4673	[5893, 3026]	6722	[7357, 3335]
576	[1052, 432]	2625	[189, 3919]	4674	[5894, 2764]	6723	[3120, 5441]
577	[1053, 1054]	2626	[3920, 791]	4675	[5895, 413]	6724	[7358, 5814]
578	[1055, 1001]	2627	[2535, 3921]	4676	[5896, 5897]	6725	[3799, 2782]
579	[1056, 1057]	2628	[3922, 3923]	4677	[5898, 362]	6726	[7359, 299]
580	[269, 1057]	2629	[2348, 2206]	4678	[1482, 1274]	6727	[7051, 1054]
581	[271, 1058]	2630	[239, 242]	4679	[5899, 5203]	6728	[7360, 1533]
582	[1059, 989]	2631	[237, 240]	4680	[3067, 3466]	6729	[7361, 5731]
583	[1060, 1061]	2632	[3924, 238]	4681	[5900, 2902]	6730	[3744, 1331]
584	[1062, 1063]	2633	[1772, 2348]	4682	[5901, 3822]	6731	[7362, 1187]
585	[1064, 1065]	2634	[3925, 3926]	4683	[3756, 5359]	6732	[3341, 2912]
586	[1066, 1067]	2635	[3927, 3928]	4684	[5464, 392]	6733	[5814, 7042]
587	[1068, 1069]	2636	[3929, 199]	4685	[3083, 3148]	6734	[7363, 458]
588	[1070, 1071]	2637	[3930, 3931]	4686	[5902, 2893]	6735	[7364, 2727]
589	[1072, 1073]	2638	[3932, 1716]	4687	[3340, 1424]	6736	[3806, 3446]
590	[1074, 459]	2639	[3933, 3934]	4688	[5561, 952]	6737	[2938, 5597]
591	[1075, 1076]	2640	[1913, 11]	4689	[1217, 5538]	6738	[5466, 1190]
592	[1077, 1078]	2641	[3935, 3936]	4690	[5714, 5655]	6739	[3630, 3349]

593	[1079, 1080]	2642	[46, 2078]	4691	[1073, 5903]	6740	[7365, 7366]
594	[1081, 1082]	2643	[3937, 3938]	4692	[1080, 2923]	6741	[7367, 3323]
595	[1083, 1084]	2644	[3939, 2564]	4693	[5904, 5227]	6742	[7368, 3105]
596	[1085, 1086]	2645	[1576, 3940]	4694	[5905, 1314]	6743	[3141, 3168]
597	[1087, 1088]	2646	[3941, 3942]	4695	[2594, 5245]	6744	[3619, 1201]
598	[1089, 1090]	2647	[2068, 2048]	4696	[5620, 927]	6745	[7369, 5641]
599	[1091, 1092]	2648	[3943, 3944]	4697	[5906, 3349]	6746	[7370, 3680]
600	[1093, 1094]	2649	[3945, 3946]	4698	[5907, 310]	6747	[3646, 64]
601	[1095, 1096]	2650	[3947, 1721]	4699	[2836, 1363]	6748	[7371, 3154]
602	[1097, 1098]	2651	[2524, 3948]	4700	[5908, 5909]	6749	[7372, 7281]
603	[1099, 1100]	2652	[3949, 3950]	4701	[5910, 2598]	6750	[7373, 3130]
604	[1101, 1102]	2653	[3951, 3952]	4702	[5911, 323]	6751	[3721, 3638]
605	[1103, 1104]	2654	[1723, 1724]	4703	[5912, 5732]	6752	[7374, 5371]
606	[1105, 1106]	2655	[3953, 1642]	4704	[5913, 3395]	6753	[7375, 1045]
607	[1107, 1108]	2656	[3954, 3955]	4705	[5914, 2736]	6754	[964, 5765]
608	[1109, 1110]	2657	[3956, 3957]	4706	[5915, 5916]	6755	[1098, 5891]
609	[1111, 1112]	2658	[3958, 3959]	4707	[3518, 418]	6756	[7376, 5990]
610	[1113, 1114]	2659	[3960, 2019]	4708	[5917, 5604]	6757	[427, 5474]
611	[1115, 1116]	2660	[3961, 575]	4709	[5918, 5405]	6758	[5476, 3239]
612	[1117, 1118]	2661	[3962, 3963]	4710	[5919, 2877]	6759	[7377, 983]
613	[1119, 1120]	2662	[3964, 2489]	4711	[5188, 3592]	6760	[7378, 1287]
614	[1121, 1122]	2663	[3965, 3966]	4712	[5920, 2875]	6761	[7379, 3021]
615	[1123, 905]	2664	[3967, 3968]	4713	[5921, 398]	6762	[7380, 1196]
616	[1124, 1125]	2665	[3969, 2533]	4714	[5922, 5923]	6763	[7381, 5597]
617	[1126, 1127]	2666	[3970, 3926]	4715	[1305, 5251]	6764	[7382, 1204]
618	[1128, 1129]	2667	[3971, 2509]	4716	[5924, 1425]	6765	[6, 2613]
619	[1130, 1131]	2668	[3972, 3973]	4717	[2672, 368]	6766	[7383, 3297]
620	[1132, 1133]	2669	[767, 3974]	4718	[444, 5604]	6767	[2989, 1291]
621	[1134, 1135]	2670	[3975, 3976]	4719	[5925, 2722]	6768	[2999, 5417]
622	[1136, 1137]	2671	[3977, 3978]	4720	[5926, 3288]	6769	[7384, 6150]
623	[1138, 406]	2672	[3979, 3980]	4721	[1493, 5415]	6770	[3678, 6155]
624	[1139, 1140]	2673	[3981, 3982]	4722	[5927, 1437]	6771	[5673, 5269]
625	[1141, 1142]	2674	[3983, 3984]	4723	[5928, 461]	6772	[1561, 5683]
626	[1143, 1144]	2675	[3985, 3986]	4724	[5929, 3264]	6773	[7385, 3310]
627	[1145, 1146]	2676	[2403, 657]	4725	[5339, 3761]	6774	[7386, 3240]
628	[1147, 1148]	2677	[2197, 2352]	4726	[5930, 364]	6775	[7387, 905]
629	[1149, 1150]	2678	[3987, 3988]	4727	[3761, 1345]	6776	[3343, 1098]
630	[1151, 1152]	2679	[3989, 1776]	4728	[5931, 3068]	6777	[7388, 5576]
631	[1153, 1154]	2680	[3990, 2488]	4729	[5932, 3067]	6778	[7389, 3327]
632	[1155, 1156]	2681	[3991, 3901]	4730	[5933, 5934]	6779	[3108, 2867]
633	[1157, 1158]	2682	[3992, 2371]	4731	[5935, 3436]	6780	[7390, 3287]
634	[1159, 1160]	2683	[3993, 3994]	4732	[5936, 3831]	6781	[7391, 3540]
635	[1161, 1162]	2684	[2172, 3995]	4733	[5937, 1033]	6782	[88, 3474]
636	[1163, 1164]	2685	[3996, 3997]	4734	[3543, 2683]	6783	[7392, 2904]

637	[1165, 1166]	2686	[3998, 3999]	4735	[3545, 3470]	6784	[7393, 5719]
638	[1167, 1168]	2687	[4000, 4001]	4736	[5938, 353]	6785	[7394, 5281]
639	[1169, 1170]	2688	[4002, 484]	4737	[5934, 3326]	6786	[7395, 3708]
640	[1171, 1172]	2689	[4003, 184]	4738	[3132, 5845]	6787	[7396, 5259]
641	[978, 1173]	2690	[623, 2525]	4739	[5939, 2928]	6788	[2872, 5520]
642	[1174, 1175]	2691	[4004, 4005]	4740	[5940, 2713]	6789	[7397, 313]
643	[1176, 344]	2692	[4006, 4007]	4741	[76, 3698]	6790	[92, 5639]
644	[1177, 426]	2693	[3982, 4008]	4742	[5941, 3426]	6791	[7225, 3786]
645	[1178, 1179]	2694	[4009, 526]	4743	[5942, 1315]	6792	[3401, 5341]
646	[1180, 1181]	2695	[4010, 2395]	4744	[5943, 1267]	6793	[7398, 3224]
647	[1182, 1183]	2696	[4011, 2468]	4745	[398, 5390]	6794	[3253, 1523]
648	[1184, 1185]	2697	[4012, 1695]	4746	[5724, 5336]	6795	[3814, 1026]
649	[98, 1186]	2698	[4013, 4014]	4747	[3327, 5944]	6796	[3148, 5403]
650	[1187, 1188]	2699	[4015, 4016]	4748	[5945, 5233]	6797	[7399, 3199]
651	[1189, 1004]	2700	[4017, 3984]	4749	[3406, 1085]	6798	[7400, 1259]
652	[1190, 1191]	2701	[4018, 2499]	4750	[1247, 1532]	6799	[7401, 3170]
653	[1192, 101]	2702	[4019, 4020]	4751	[1243, 3550]	6800	[7402, 3699]
654	[1193, 1194]	2703	[4021, 3927]	4752	[5946, 2942]	6801	[2855, 3585]
655	[1195, 1196]	2704	[4022, 4023]	4753	[5947, 1250]	6802	[5404, 1127]
656	[1197, 1198]	2705	[1784, 4024]	4754	[120, 2631]	6803	[7403, 3643]
657	[1199, 1200]	2706	[640, 4025]	4755	[2699, 5257]	6804	[429, 6183]
658	[1201, 1202]	2707	[3952, 2536]	4756	[5948, 5469]	6805	[3644, 2639]
659	[1203, 1204]	2708	[4026, 182]	4757	[5285, 5339]	6806	[5903, 6184]
660	[1205, 1206]	2709	[148, 4027]	4758	[5949, 3709]	6807	[2839, 2901]
661	[1207, 1208]	2710	[4028, 4029]	4759	[5950, 2681]	6808	[7404, 5911]
662	[1209, 1070]	2711	[4030, 795]	4760	[3220, 1380]	6809	[7405, 415]
663	[1210, 1211]	2712	[4031, 4032]	4761	[5951, 5427]	6810	[3684, 3229]
664	[1212, 1213]	2713	[4033, 2353]	4762	[5952, 1530]	6811	[7406, 7202]
665	[1214, 1215]	2714	[4034, 4035]	4763	[3687, 5413]	6812	[7407, 1046]
666	[1216, 1217]	2715	[4036, 4021]	4764	[3656, 2616]	6813	[7213, 1077]
667	[1112, 1218]	2716	[776, 180]	4765	[1428, 2944]	6814	[7408, 3827]
668	[1219, 1220]	2717	[4037, 149]	4766	[5953, 69]	6815	[1071, 5744]
669	[962, 1221]	2718	[2538, 4038]	4767	[5954, 3801]	6816	[5859, 5883]
670	[1222, 1223]	2719	[1964, 2488]	4768	[5955, 5956]	6817	[1301, 5506]
671	[1224, 1225]	2720	[3963, 2003]	4769	[5957, 2952]	6818	[7409, 5635]
672	[1226, 1227]	2721	[2489, 3988]	4770	[5958, 3142]	6819	[7410, 1282]
673	[1228, 1229]	2722	[4039, 3921]	4771	[5959, 5452]	6820	[7411, 1164]
674	[1230, 1231]	2723	[245, 2350]	4772	[5687, 83]	6821	[7412, 5586]
675	[1232, 1233]	2724	[4040, 4041]	4773	[5960, 962]	6822	[7413, 3866]
676	[1234, 1221]	2725	[4042, 529]	4774	[5961, 1089]	6823	[7414, 5327]
677	[1235, 1236]	2726	[4043, 3934]	4775	[2638, 2988]	6824	[7415, 5446]
678	[1237, 1238]	2727	[4044, 4045]	4776	[3222, 3724]	6825	[7416, 1472]
679	[1239, 919]	2728	[1665, 4046]	4777	[5342, 108]	6826	[2950, 5427]
680	[1240, 1241]	2729	[4047, 3891]	4778	[5962, 3718]	6827	[7417, 2586]

681	[1242, 1243]	2730	[4048, 3871]	4779	[2814, 5797]	6828	[3419, 1019]
682	[1244, 1245]	2731	[3988, 4049]	4780	[5963, 352]	6829	[6206, 2604]
683	[1246, 1247]	2732	[4050, 2408]	4781	[3857, 1359]	6830	[7418, 909]
684	[1248, 1249]	2733	[1855, 3946]	4782	[3415, 3738]	6831	[7419, 1296]
685	[931, 909]	2734	[4051, 4052]	4783	[5964, 337]	6832	[7420, 3307]
686	[1250, 1251]	2735	[4027, 4053]	4784	[5753, 5965]	6833	[5788, 3256]
687	[118, 1252]	2736	[4054, 2335]	4785	[5966, 1490]	6834	[7421, 3586]
688	[1253, 1254]	2737	[4055, 2368]	4786	[5967, 3767]	6835	[5287, 2653]
689	[1255, 1022]	2738	[507, 3913]	4787	[5968, 946]	6836	[7422, 7423]
690	[1256, 1152]	2739	[4056, 1920]	4788	[126, 5385]	6837	[7424, 3030]
691	[1257, 85]	2740	[225, 4057]	4789	[5969, 1313]	6838	[2715, 3453]
692	[1258, 1259]	2741	[4058, 4059]	4790	[5970, 3350]	6839	[7425, 5195]
693	[1260, 1261]	2742	[4060, 2206]	4791	[5971, 1276]	6840	[3478, 5206]
694	[1262, 1263]	2743	[4061, 4001]	4792	[5972, 5973]	6841	[7426, 5280]
695	[1264, 1265]	2744	[4062, 2531]	4793	[5974, 5741]	6842	[7427, 281]
696	[1266, 1267]	2745	[4063, 1982]	4794	[5975, 2691]	6843	[1547, 6142]
697	[1268, 1269]	2746	[4064, 2029]	4795	[5976, 3694]	6844	[5480, 2736]
698	[1270, 1271]	2747	[4065, 3886]	4796	[3831, 1508]	6845	[7428, 3015]
699	[1272, 1073]	2748	[4066, 4067]	4797	[64, 2896]	6846	[2929, 958]
700	[1273, 1274]	2749	[4068, 4069]	4798	[5977, 5678]	6847	[5506, 3778]
701	[1275, 1276]	2750	[1563, 1601]	4799	[5978, 5657]	6848	[7429, 5566]
702	[1277, 1278]	2751	[154, 1754]	4800	[5310, 5591]	6849	[7430, 5768]
703	[1279, 1280]	2752	[4070, 4071]	4801	[3074, 2758]	6850	[5295, 1214]
704	[1281, 1282]	2753	[4072, 2195]	4802	[5979, 3246]	6851	[5489, 5204]
705	[1283, 336]	2754	[4073, 502]	4803	[5980, 5263]	6852	[3823, 5463]
706	[1284, 1285]	2755	[4074, 2399]	4804	[5981, 1491]	6853	[7431, 1487]
707	[1286, 1287]	2756	[4075, 4076]	4805	[3091, 2981]	6854	[7432, 5323]
708	[1288, 1289]	2757	[4077, 4078]	4806	[5982, 3630]	6855	[1341, 3866]
709	[1290, 1291]	2758	[4079, 1766]	4807	[5983, 2710]	6856	[7433, 2791]
710	[410, 320]	2759	[4080, 549]	4808	[5984, 471]	6857	[3331, 5824]
711	[1292, 94]	2760	[1646, 4081]	4809	[5985, 5646]	6858	[7434, 3845]
712	[1293, 1294]	2761	[4082, 4083]	4810	[110, 5916]	6859	[7435, 3501]
713	[1295, 87]	2762	[4084, 4085]	4811	[5986, 478]	6860	[7436, 5573]
714	[1296, 1297]	2763	[4086, 4087]	4812	[5987, 3146]	6861	[2969, 5522]
715	[1298, 1299]	2764	[4088, 2437]	4813	[5988, 1360]	6862	[5767, 3073]
716	[1300, 1301]	2765	[4089, 4090]	4814	[5989, 1051]	6863	[7437, 1435]
717	[1302, 296]	2766	[4091, 2464]	4815	[3765, 5990]	6864	[7438, 5444]
718	[1303, 1304]	2767	[4092, 4093]	4816	[2812, 3432]	6865	[7439, 1248]
719	[289, 1305]	2768	[4094, 4095]	4817	[5991, 3610]	6866	[5944, 954]
720	[1306, 1307]	2769	[4096, 2541]	4818	[5992, 5993]	6867	[7440, 1203]
721	[1308, 1240]	2770	[4097, 4098]	4819	[5994, 981]	6868	[433, 7441]
722	[1309, 888]	2771	[4099, 2150]	4820	[5995, 342]	6869	[7442, 966]
723	[1310, 1311]	2772	[1899, 4100]	4821	[5996, 1108]	6870	[7443, 1306]
724	[1312, 1313]	2773	[1621, 4101]	4822	[5997, 5998]	6871	[7444, 1305]

725	[1314, 1315]	2774	[4102, 4103]	4823	[5281, 3718]	6872	[1220, 5469]
726	[1316, 1094]	2775	[4104, 550]	4824	[5999, 6000]	6873	[3001, 2712]
727	[1317, 1095]	2776	[4105, 4106]	4825	[6001, 2974]	6874	[7445, 3185]
728	[1318, 1319]	2777	[4107, 4108]	4826	[6002, 2583]	6875	[5572, 7140]
729	[1320, 1321]	2778	[4109, 2567]	4827	[3503, 5567]	6876	[5765, 5190]
730	[1322, 1323]	2779	[1950, 4110]	4828	[6003, 5423]	6877	[7446, 1557]
731	[1324, 1174]	2780	[4111, 4112]	4829	[6004, 2631]	6878	[7447, 5298]
732	[1325, 1326]	2781	[4113, 2412]	4830	[6005, 3190]	6879	[5909, 6157]
733	[1327, 1328]	2782	[4114, 785]	4831	[6006, 312]	6880	[7448, 3714]
734	[1329, 1330]	2783	[4115, 4116]	4832	[5374, 3494]	6881	[7449, 3103]
735	[1331, 1332]	2784	[3919, 4117]	4833	[257, 1529]	6882	[7450, 1460]
736	[1333, 947]	2785	[4118, 4119]	4834	[6007, 3002]	6883	[1454, 5858]
737	[1334, 1335]	2786	[2159, 2141]	4835	[6008, 3131]	6884	[7451, 1428]
738	[1336, 1337]	2787	[4120, 2099]	4836	[2729, 2597]	6885	[7452, 5801]
739	[1338, 1339]	2788	[4121, 4122]	4837	[3732, 3020]	6886	[3247, 3851]
740	[1340, 1341]	2789	[4123, 4124]	4838	[6009, 6010]	6887	[7453, 2978]
741	[1342, 1343]	2790	[4125, 4126]	4839	[16, 6011]	6888	[7454, 1333]
742	[1344, 1345]	2791	[1854, 4051]	4840	[6012, 5451]	6889	[7455, 2734]
743	[1346, 1347]	2792	[4127, 4128]	4841	[6013, 3541]	6890	[7456, 5965]
744	[1348, 1349]	2793	[4129, 2127]	4842	[6014, 2940]	6891	[2830, 3625]
745	[1114, 1350]	2794	[4130, 4131]	4843	[5421, 72]	6892	[7457, 5355]
746	[1351, 1352]	2795	[4132, 4133]	4844	[6015, 89]	6893	[7458, 5753]
747	[1353, 1354]	2796	[4103, 4134]	4845	[6016, 2946]	6894	[3848, 891]
748	[1355, 972]	2797	[4135, 4136]	4846	[6017, 5810]	6895	[904, 457]
749	[1356, 1357]	2798	[2497, 4137]	4847	[6018, 3454]	6896	[3060, 3344]
750	[1358, 1359]	2799	[4138, 2057]	4848	[6019, 5971]	6897	[3672, 7126]
751	[1360, 1361]	2800	[4139, 4052]	4849	[6020, 2899]	6898	[372, 6060]
752	[1362, 1363]	2801	[4140, 2097]	4850	[6021, 3560]	6899	[5431, 6049]
753	[1364, 995]	2802	[4141, 2331]	4851	[6022, 2982]	6900	[7459, 1017]
754	[253, 1365]	2803	[2426, 4005]	4852	[6023, 2921]	6901	[7286, 117]
755	[255, 1366]	2804	[4142, 1627]	4853	[5344, 2841]	6902	[7460, 307]
756	[1367, 1368]	2805	[4143, 2464]	4854	[6024, 3764]	6903	[1287, 1279]
757	[1369, 1370]	2806	[4144, 4145]	4855	[5740, 1548]	6904	[5640, 2649]
758	[1371, 1372]	2807	[4146, 4147]	4856	[6025, 6026]	6905	[7461, 7311]
759	[1373, 1374]	2808	[4148, 4149]	4857	[1158, 2746]	6906	[7462, 899]
760	[1375, 1376]	2809	[4150, 4151]	4858	[6027, 5178]	6907	[3170, 1217]
761	[1377, 1378]	2810	[2335, 2102]	4859	[6028, 6029]	6908	[7063, 6109]
762	[1379, 1380]	2811	[4152, 4153]	4860	[5671, 3545]	6909	[7463, 1480]
763	[1381, 1382]	2812	[4154, 4155]	4861	[6030, 3212]	6910	[7464, 1335]
764	[1383, 1384]	2813	[833, 4156]	4862	[3567, 448]	6911	[7465, 3158]
765	[331, 1385]	2814	[4157, 4144]	4863	[6031, 1347]	6912	[7466, 3446]
766	[1386, 1285]	2815	[4158, 4012]	4864	[378, 5213]	6913	[7467, 2665]
767	[1387, 1388]	2816	[4159, 11]	4865	[6032, 3625]	6914	[902, 3135]
768	[1389, 1111]	2817	[4160, 4161]	4866	[6033, 6034]	6915	[3329, 5300]

769	[1390, 120]	2818	[4162, 4163]	4867	[6035, 2888]	6916	[1388, 124]
770	[1391, 1392]	2819	[716, 4164]	4868	[3471, 3389]	6917	[5735, 3071]
771	[1393, 1394]	2820	[4165, 4166]	4869	[3029, 3543]	6918	[7468, 320]
772	[1395, 1396]	2821	[4167, 4168]	4870	[6036, 2857]	6919	[7469, 444]
773	[1397, 1398]	2822	[4169, 2104]	4871	[6037, 2628]	6920	[7470, 1112]
774	[1399, 1235]	2823	[4170, 4171]	4872	[6038, 3801]	6921	[3290, 3394]
775	[1400, 1401]	2824	[4172, 4173]	4873	[6039, 73]	6922	[7471, 5183]
776	[1402, 1403]	2825	[4174, 4175]	4874	[6040, 3636]	6923	[3208, 3024]
777	[1404, 1405]	2826	[4176, 223]	4875	[6041, 917]	6924	[7472, 1293]
778	[1406, 1407]	2827	[4177, 4178]	4876	[3346, 6042]	6925	[7473, 5199]
779	[1408, 1206]	2828	[4179, 4180]	4877	[6043, 1218]	6926	[1426, 111]
780	[1409, 1410]	2829	[4181, 4182]	4878	[6044, 3605]	6927	[3318, 2680]
781	[1411, 1412]	2830	[2106, 4183]	4879	[5274, 3783]	6928	[3353, 7104]
782	[1413, 975]	2831	[4184, 4185]	4880	[6045, 2750]	6929	[7474, 3475]
783	[1414, 1415]	2832	[4186, 813]	4881	[6046, 6047]	6930	[7475, 1376]
784	[1416, 1417]	2833	[4187, 4070]	4882	[6048, 6049]	6931	[7476, 2787]
785	[1407, 1418]	2834	[4188, 4189]	4883	[2908, 3337]	6932	[7477, 972]
786	[1419, 1420]	2835	[4190, 2413]	4884	[6050, 350]	6933	[5587, 1141]
787	[1421, 1422]	2836	[4191, 154]	4885	[6051, 3379]	6934	[7478, 7225]
788	[937, 1423]	2837	[4192, 566]	4886	[6052, 2849]	6935	[7479, 3394]
789	[1424, 928]	2838	[4193, 2033]	4887	[6053, 121]	6936	[7480, 3433]
790	[1425, 1426]	2839	[4194, 4017]	4888	[442, 3297]	6937	[5433, 3242]
791	[1427, 1428]	2840	[4195, 1981]	4889	[6054, 5403]	6938	[3196, 5431]
792	[1429, 1430]	2841	[4196, 699]	4890	[6055, 1183]	6939	[7481, 477]
793	[1431, 1432]	2842	[4197, 2435]	4891	[5626, 3822]	6940	[7482, 2938]
794	[1433, 1434]	2843	[4198, 4199]	4892	[5637, 1120]	6941	[7483, 3582]
795	[1435, 1436]	2844	[2342, 4175]	4893	[6056, 3298]	6942	[7484, 3057]
796	[1437, 1438]	2845	[2218, 4200]	4894	[5291, 3711]	6943	[7485, 122]
797	[1179, 1012]	2846	[4201, 3942]	4895	[6057, 83]	6944	[2898, 3124]
798	[1439, 1440]	2847	[4202, 251]	4896	[6058, 2997]	6945	[7486, 1038]
799	[1441, 76]	2848	[4203, 4029]	4897	[6059, 1432]	6946	[3662, 3013]
800	[1442, 1130]	2849	[4204, 4205]	4898	[6060, 5727]	6947	[7487, 2720]
801	[1443, 1444]	2850	[4206, 526]	4899	[5246, 2915]	6948	[6157, 7131]
802	[1445, 1446]	2851	[4207, 4155]	4900	[1263, 2891]	6949	[3169, 346]
803	[1447, 1180]	2852	[2024, 216]	4901	[6061, 3838]	6950	[7488, 74]
804	[1448, 1261]	2853	[4208, 3998]	4902	[6062, 5213]	6951	[2755, 410]
805	[1449, 358]	2854	[4209, 2024]	4903	[6063, 2801]	6952	[7489, 1211]
806	[1450, 1451]	2855	[4210, 1905]	4904	[6064, 1067]	6953	[404, 5194]
807	[1452, 1453]	2856	[150, 237]	4905	[6065, 1279]	6954	[7490, 1197]
808	[908, 1454]	2857	[4211, 2424]	4906	[6066, 5809]	6955	[7491, 3616]
809	[1455, 1081]	2858	[4212, 4213]	4907	[6067, 3765]	6956	[7492, 5245]
810	[1456, 1457]	2859	[4214, 2110]	4908	[5845, 2907]	6957	[7493, 3331]
811	[1458, 1459]	2860	[4215, 4216]	4909	[5446, 2906]	6958	[7494, 1543]
812	[948, 1460]	2861	[4217, 4218]	4910	[3532, 1029]	6959	[7495, 3463]

813	[950, 1461]	2862	[774, 1618]	4911	[6068, 3444]	6960	[7496, 5288]
814	[1462, 904]	2863	[537, 765]	4912	[3114, 1179]	6961	[437, 3]
815	[1463, 1464]	2864	[1803, 4219]	4913	[6069, 1477]	6962	[3711, 7366]
816	[1465, 1466]	2865	[4220, 2130]	4914	[5851, 3189]	6963	[7497, 7498]
817	[982, 1467]	2866	[4221, 4222]	4915	[6070, 5406]	6964	[7499, 3769]
818	[1468, 1469]	2867	[4223, 2352]	4916	[6071, 6072]	6965	[7500, 3122]
819	[1470, 1471]	2868	[4224, 4225]	4917	[6073, 1235]	6966	[7501, 79]
820	[1472, 1473]	2869	[4226, 2396]	4918	[6074, 5394]	6967	[7502, 3632]
821	[1474, 1475]	2870	[4227, 174]	4919	[5577, 3081]	6968	[1131, 3045]
822	[1476, 1210]	2871	[4228, 4229]	4920	[5376, 2722]	6969	[7503, 5828]
823	[1477, 1478]	2872	[4230, 4231]	4921	[6075, 5669]	6970	[7504, 5204]
824	[1479, 1480]	2873	[4232, 140]	4922	[2797, 3642]	6971	[7505, 5238]
825	[1481, 1482]	2874	[4093, 2143]	4923	[6076, 5578]	6972	[3139, 469]
826	[1483, 17]	2875	[4233, 1868]	4924	[5317, 5284]	6973	[3277, 3828]
827	[1484, 1485]	2876	[4234, 4235]	4925	[5831, 5634]	6974	[7506, 988]
828	[1335, 1486]	2877	[1632, 2181]	4926	[3226, 3398]	6975	[7507, 5677]
829	[1487, 880]	2878	[4236, 2239]	4927	[3776, 1534]	6976	[5251, 5586]
830	[1488, 1489]	2879	[4237, 1614]	4928	[2787, 3794]	6977	[2590, 464]
831	[1490, 1491]	2880	[709, 4185]	4929	[423, 2992]	6978	[7508, 2701]
832	[1492, 1493]	2881	[4238, 171]	4930	[6077, 3308]	6979	[5456, 5680]
833	[1494, 1495]	2882	[3910, 1646]	4931	[6078, 1297]	6980	[7509, 3269]
834	[1496, 1215]	2883	[4239, 4240]	4932	[6079, 1475]	6981	[7510, 3846]
835	[1497, 1498]	2884	[4241, 4242]	4933	[6080, 6081]	6982	[7511, 3132]
836	[1499, 1500]	2885	[4243, 660]	4934	[3205, 993]	6983	[5600, 1074]
837	[1501, 1502]	2886	[4244, 4245]	4935	[6082, 5859]	6984	[5564, 89]
838	[1503, 1504]	2887	[4246, 4247]	4936	[6083, 5590]	6985	[7512, 5264]
839	[1505, 913]	2888	[4248, 2567]	4937	[3573, 1160]	6986	[7513, 5745]
840	[1506, 901]	2889	[2568, 2125]	4938	[6084, 2786]	6987	[7514, 5236]
841	[1507, 1508]	2890	[4085, 1895]	4939	[6085, 2740]	6988	[7515, 3558]
842	[1509, 1510]	2891	[4249, 4099]	4940	[3583, 3695]	6989	[3224, 5317]
843	[1511, 1333]	2892	[1865, 4085]	4941	[6086, 433]	6990	[7516, 3445]
844	[1512, 1513]	2893	[2150, 4250]	4942	[6087, 3266]	6991	[7517, 3210]
845	[1514, 945]	2894	[1895, 2543]	4943	[6088, 991]	6992	[5584, 2763]
846	[1515, 1516]	2895	[4251, 752]	4944	[5460, 2775]	6993	[1446, 6228]
847	[1517, 1518]	2896	[128, 754]	4945	[2778, 1339]	6994	[1094, 5872]
848	[1519, 1520]	2897	[2345, 4252]	4946	[6089, 3039]	6995	[7518, 1143]
849	[1311, 1521]	2898	[4253, 2096]	4947	[1154, 3830]	6996	[425, 7344]
850	[1522, 944]	2899	[4254, 1679]	4948	[6090, 2901]	6997	[5642, 2622]
851	[1523, 1524]	2900	[2421, 2050]	4949	[6091, 3118]	6998	[7519, 1391]
852	[1525, 1128]	2901	[4255, 1969]	4950	[6092, 2678]	6999	[315, 918]
853	[1526, 268]	2902	[4256, 1673]	4951	[6093, 1382]	7000	[7520, 3011]
854	[1527, 1528]	2903	[4257, 2322]	4952	[6094, 3802]	7001	[7160, 277]
855	[1529, 1530]	2904	[4258, 871]	4953	[6095, 2711]	7002	[7521, 6153]
856	[1531, 1532]	2905	[4189, 694]	4954	[3469, 5542]	7003	[7522, 1081]

857	[1025, 1533]	2906	[4259, 2303]	4955	[6096, 2612]	7004	[309, 7281]
858	[1534, 288]	2907	[4260, 590]	4956	[6097, 3768]	7005	[7523, 3429]
859	[1535, 931]	2908	[4261, 1952]	4957	[6098, 288]	7006	[7524, 2697]
860	[1536, 118]	2909	[4262, 2400]	4958	[6099, 1439]	7007	[6162, 3371]
861	[1537, 262]	2910	[4263, 4264]	4959	[6100, 903]	7008	[3746, 1281]
862	[1528, 1317]	2911	[4265, 4205]	4960	[6101, 5330]	7009	[1067, 2854]
863	[1029, 1538]	2912	[4266, 2129]	4961	[2983, 6102]	7010	[7525, 5822]
864	[1539, 1540]	2913	[4267, 4268]	4962	[6103, 6104]	7011	[7526, 6129]
865	[1541, 1078]	2914	[4269, 4270]	4963	[3488, 5216]	7012	[7527, 7314]
866	[1542, 1543]	2915	[4271, 1959]	4964	[1092, 6105]	7013	[7528, 7287]
867	[1544, 1545]	2916	[4272, 4087]	4965	[6106, 5642]	7014	[7529, 6185]
868	[1546, 1547]	2917	[4273, 1919]	4966	[3375, 1406]	7015	[3026, 1122]
869	[1548, 1549]	2918	[4274, 4275]	4967	[6107, 3078]	7016	[5965, 2973]
870	[1550, 1551]	2919	[4276, 4277]	4968	[6108, 6109]	7017	[7530, 1516]
871	[1135, 1552]	2920	[4278, 4279]	4969	[5659, 2741]	7018	[7531, 2629]
872	[1553, 1355]	2921	[4280, 1806]	4970	[6110, 6111]	7019	[7532, 3256]
873	[1554, 1061]	2922	[4281, 4282]	4971	[6112, 3211]	7020	[7533, 1068]
874	[1555, 1556]	2923	[1887, 2562]	4972	[5857, 2947]	7021	[5472, 1444]
875	[1557, 1558]	2924	[4283, 1945]	4973	[6113, 3823]	7022	[1384, 3125]
876	[1261, 1457]	2925	[4284, 4285]	4974	[6114, 5690]	7023	[3530, 3436]
877	[1265, 1559]	2926	[4286, 4287]	4975	[3404, 3586]	7024	[7534, 7111]
878	[1269, 1560]	2927	[4288, 4289]	4976	[274, 3825]	7025	[7535, 5673]
879	[1271, 1561]	2928	[4163, 1953]	4977	[991, 3511]	7026	[7536, 3748]
880	[1562, 1563]	2929	[2127, 4290]	4978	[993, 3749]	7027	[7537, 328]
881	[1564, 1565]	2930	[2074, 4291]	4979	[6115, 2961]	7028	[7538, 1502]
882	[1566, 1567]	2931	[4292, 2277]	4980	[6116, 935]	7029	[7539, 7185]
883	[1568, 1569]	2932	[4293, 2309]	4981	[3322, 2857]	7030	[7540, 3227]
884	[1570, 811]	2933	[4294, 4295]	4982	[6117, 316]	7031	[6237, 3482]
885	[1571, 1572]	2934	[4296, 4297]	4983	[6118, 6119]	7032	[7541, 1515]
886	[1573, 1574]	2935	[2533, 4298]	4984	[6120, 335]	7033	[7542, 3470]
887	[1575, 1576]	2936	[796, 4299]	4985	[6121, 3716]	7034	[7543, 7268]
888	[1577, 44]	2937	[4300, 835]	4986	[2832, 5564]	7035	[7544, 918]
889	[1578, 1579]	2938	[205, 4301]	4987	[6122, 924]	7036	[7545, 343]
890	[1580, 1581]	2939	[4302, 2515]	4988	[6123, 3198]	7037	[7546, 2797]
891	[1582, 1583]	2940	[4303, 686]	4989	[6124, 3740]	7038	[7547, 2367]
892	[1584, 1585]	2941	[4304, 3883]	4990	[1106, 1230]	7039	[7548, 4352]
893	[1586, 1587]	2942	[4305, 4306]	4991	[408, 5349]	7040	[7549, 1594]
894	[1588, 1589]	2943	[701, 2423]	4992	[6125, 1405]	7041	[7550, 4237]
895	[1590, 1591]	2944	[4307, 4308]	4993	[5732, 5399]	7042	[7551, 2438]
896	[1592, 59]	2945	[763, 4309]	4994	[6126, 1190]	7043	[2008, 1942]
897	[1593, 1594]	2946	[4310, 4308]	4995	[1420, 1099]	7044	[4164, 7552]
898	[1595, 1590]	2947	[4311, 4100]	4996	[6127, 3119]	7045	[7553, 4372]
899	[1596, 1597]	2948	[1737, 2333]	4997	[6128, 1560]	7046	[7554, 4163]
900	[1598, 1599]	2949	[4312, 4313]	4998	[5297, 5700]	7047	[4101, 1627]

901	[1600, 1601]	2950	[4314, 569]	4999	[1459, 5751]	7048	[213, 4409]
902	[1602, 1603]	2951	[4315, 1914]	5000	[6129, 3129]	7049	[6533, 4486]
903	[1604, 1605]	2952	[3915, 1651]	5001	[6130, 5836]	7050	[7555, 6715]
904	[1606, 1607]	2953	[4316, 4317]	5002	[6131, 3220]	7051	[7556, 495]
905	[1608, 1585]	2954	[4318, 4319]	5003	[66, 350]	7052	[4483, 6769]
906	[1609, 1610]	2955	[4320, 4321]	5004	[6132, 5252]	7053	[7557, 772]
907	[1611, 1612]	2956	[4032, 4061]	5005	[5370, 5421]	7054	[7558, 6478]
908	[1613, 1614]	2957	[4322, 4070]	5006	[3199, 5491]	7055	[7559, 7557]
909	[1615, 1609]	2958	[4323, 2321]	5007	[6133, 2790]	7056	[7560, 5057]
910	[1616, 1563]	2959	[4324, 1662]	5008	[5768, 5192]	7057	[6726, 1802]
911	[1617, 1618]	2960	[4325, 833]	5009	[6134, 6135]	7058	[2236, 4889]
912	[1619, 667]	2961	[4326, 1983]	5010	[6136, 3644]	7059	[2460, 2211]
913	[1620, 1621]	2962	[4327, 1946]	5011	[5882, 6119]	7060	[7561, 5026]
914	[1622, 1623]	2963	[4328, 3960]	5012	[6137, 3074]	7061	[7562, 3875]
915	[1624, 32]	2964	[4329, 2417]	5013	[3396, 5847]	7062	[7563, 766]
916	[1625, 1626]	2965	[4330, 4057]	5014	[6138, 5443]	7063	[7564, 580]
917	[1627, 1628]	2966	[4331, 2023]	5015	[6139, 881]	7064	[2487, 4708]
918	[1629, 1630]	2967	[1730, 4095]	5016	[6140, 377]	7065	[7565, 6431]
919	[1631, 1632]	2968	[4332, 760]	5017	[6141, 6142]	7066	[2566, 4752]
920	[1633, 1634]	2969	[3940, 1901]	5018	[6143, 2816]	7067	[7566, 827]
921	[1635, 1636]	2970	[1893, 4009]	5019	[1076, 5524]	7068	[6305, 4871]
922	[1637, 802]	2971	[1754, 4333]	5020	[3699, 1542]	7069	[7567, 5034]
923	[172, 1638]	2972	[4149, 4334]	5021	[6144, 396]	7070	[7568, 2085]
924	[1639, 1640]	2973	[4335, 1744]	5022	[6145, 5314]	7071	[7569, 4982]
925	[1641, 1642]	2974	[4336, 1763]	5023	[6146, 2669]	7072	[2479, 2167]
926	[1643, 1644]	2975	[4337, 4338]	5024	[6147, 5903]	7073	[7570, 4983]
927	[1645, 1646]	2976	[4339, 3928]	5025	[5308, 2668]	7074	[7571, 637]
928	[1647, 1648]	2977	[2052, 3969]	5026	[6148, 1091]	7075	[7572, 4432]
929	[1649, 1650]	2978	[4340, 797]	5027	[6149, 401]	7076	[7573, 6501]
930	[1651, 525]	2979	[4341, 4342]	5028	[6142, 5181]	7077	[4313, 1715]
931	[1652, 1616]	2980	[4343, 2480]	5029	[6150, 3774]	7078	[7574, 6415]
932	[1653, 1654]	2981	[4344, 4345]	5030	[6151, 347]	7079	[6858, 6332]
933	[1655, 1628]	2982	[4346, 4347]	5031	[6152, 2728]	7080	[7575, 7576]
934	[1656, 1657]	2983	[4348, 1665]	5032	[1050, 6153]	7081	[7577, 6476]
935	[1658, 1565]	2984	[4349, 4350]	5033	[6011, 5318]	7082	[7578, 6364]
936	[1659, 1660]	2985	[4351, 2521]	5034	[6154, 6155]	7083	[7579, 6617]
937	[1661, 644]	2986	[1687, 4352]	5035	[6156, 6157]	7084	[2531, 3897]
938	[1662, 1663]	2987	[4353, 2392]	5036	[6158, 3696]	7085	[1969, 3986]
939	[1664, 1665]	2988	[4354, 1897]	5037	[6159, 2633]	7086	[7580, 173]
940	[1666, 1667]	2989	[4355, 1687]	5038	[6160, 3131]	7087	[6877, 4705]
941	[1668, 735]	2990	[4356, 4357]	5039	[6161, 6162]	7088	[7581, 200]
942	[1669, 170]	2991	[4358, 1636]	5040	[3753, 6038]	7089	[7582, 4486]
943	[1670, 1671]	2992	[4359, 2072]	5041	[6163, 2747]	7090	[7583, 6496]
944	[1672, 1673]	2993	[4360, 719]	5042	[6164, 6165]	7091	[6912, 5093]

945	[1674, 1675]	2994	[4071, 4361]	5043	[6166, 1060]	7092	[7584, 4342]
946	[583, 540]	2995	[2079, 1588]	5044	[6167, 92]	7093	[4161, 1886]
947	[1676, 1677]	2996	[4362, 640]	5045	[6168, 2619]	7094	[7585, 6786]
948	[1678, 1679]	2997	[2084, 4363]	5046	[5332, 3119]	7095	[1923, 2253]
949	[1680, 753]	2998	[2368, 4364]	5047	[6169, 5342]	7096	[7586, 4162]
950	[162, 659]	2999	[4365, 4333]	5048	[6170, 887]	7097	[7587, 1575]
951	[1681, 1682]	3000	[4366, 4367]	5049	[3792, 3442]	7098	[7588, 4825]
952	[1683, 1677]	3001	[4368, 3947]	5050	[6171, 3396]	7099	[4979, 2016]
953	[1684, 1685]	3002	[4369, 4370]	5051	[287, 3222]	7100	[540, 4131]
954	[1686, 1687]	3003	[4371, 2182]	5052	[6172, 3386]	7101	[7589, 7010]
955	[1688, 1689]	3004	[4372, 4373]	5053	[1206, 3548]	7102	[7590, 6400]
956	[1690, 1691]	3005	[4374, 4124]	5054	[6173, 937]	7103	[7591, 7035]
957	[1692, 1693]	3006	[2473, 4375]	5055	[3301, 1421]	7104	[7592, 3927]
958	[1694, 1695]	3007	[4376, 4362]	5056	[6174, 3082]	7105	[7593, 3949]
959	[1696, 1697]	3008	[4377, 1863]	5057	[6175, 3234]	7106	[4414, 7594]
960	[1698, 1699]	3009	[1984, 4378]	5058	[3051, 3397]	7107	[2442, 4318]
961	[1700, 1701]	3010	[4379, 2237]	5059	[6176, 3381]	7108	[7595, 4679]
962	[1702, 233]	3011	[4380, 50]	5060	[5195, 988]	7109	[7596, 4286]
963	[1703, 1704]	3012	[4381, 3937]	5061	[2680, 2911]	7110	[7597, 1866]
964	[1705, 527]	3013	[4382, 4383]	5062	[6177, 6162]	7111	[7598, 4219]
965	[1706, 774]	3014	[710, 2392]	5063	[6178, 3368]	7112	[7599, 6936]
966	[1707, 1708]	3015	[4384, 216]	5064	[6179, 2707]	7113	[7600, 6502]
967	[1709, 1631]	3016	[4385, 218]	5065	[6180, 3404]	7114	[2294, 744]
968	[1710, 1711]	3017	[4386, 4387]	5066	[5441, 1455]	7115	[3950, 173]
969	[1712, 1650]	3018	[4388, 692]	5067	[6181, 1027]	7116	[6954, 4942]
970	[1713, 1714]	3019	[4389, 4252]	5068	[6182, 6183]	7117	[7601, 2334]
971	[1715, 1716]	3020	[4390, 2109]	5069	[6184, 6185]	7118	[7602, 6470]
972	[1717, 1718]	3021	[1667, 1986]	5070	[6186, 3145]	7119	[7603, 3938]
973	[1719, 1720]	3022	[4391, 4392]	5071	[6187, 1423]	7120	[7604, 2052]
974	[1721, 517]	3023	[573, 4065]	5072	[6188, 1354]	7121	[7605, 4866]
975	[1722, 1723]	3024	[4393, 2268]	5073	[6189, 999]	7122	[545, 6260]
976	[1724, 1725]	3025	[1736, 1626]	5074	[6190, 5464]	7123	[7606, 4169]
977	[1726, 1727]	3026	[2456, 1911]	5075	[6191, 3770]	7124	[7607, 1796]
978	[1728, 1729]	3027	[4394, 491]	5076	[5686, 5264]	7125	[7608, 2476]
979	[757, 1730]	3028	[4395, 1579]	5077	[6192, 5724]	7126	[7609, 4721]
980	[1731, 1732]	3029	[4396, 4397]	5078	[6193, 16]	7127	[4069, 6726]
981	[1733, 1734]	3030	[4087, 530]	5079	[6194, 6195]	7128	[7610, 6335]
982	[1735, 1736]	3031	[1793, 4398]	5080	[6196, 1497]	7129	[5017, 7611]
983	[1642, 1737]	3032	[4399, 2544]	5081	[5312, 1513]	7130	[7612, 726]
984	[1738, 1739]	3033	[4400, 2126]	5082	[6197, 80]	7131	[7613, 2387]
985	[183, 1740]	3034	[1764, 4099]	5083	[6198, 5411]	7132	[7614, 4091]
986	[1741, 248]	3035	[4401, 801]	5084	[6155, 3764]	7133	[857, 4103]
987	[1742, 1570]	3036	[4402, 4403]	5085	[2933, 1269]	7134	[7615, 4346]
988	[1743, 1744]	3037	[2247, 4404]	5086	[6199, 880]	7135	[4687, 605]

989	[1745, 745]	3038	[247, 202]	5087	[1202, 5607]	7136	[4397, 6335]
990	[1746, 770]	3039	[3908, 4405]	5088	[469, 6104]	7137	[7552, 6823]
991	[1747, 1748]	3040	[4406, 141]	5089	[5233, 3448]	7138	[7616, 2108]
992	[1749, 1750]	3041	[4275, 4407]	5090	[5657, 1466]	7139	[4504, 6752]
993	[1751, 1752]	3042	[4106, 4408]	5091	[297, 1238]	7140	[7617, 4998]
994	[1753, 1754]	3043	[4409, 3997]	5092	[6200, 2772]	7141	[3934, 6936]
995	[1755, 1756]	3044	[4410, 4411]	5093	[6201, 1102]	7142	[7618, 4580]
996	[1757, 1758]	3045	[4412, 4413]	5094	[3486, 1038]	7143	[7619, 2057]
997	[1759, 1760]	3046	[2496, 4414]	5095	[6202, 928]	7144	[7620, 4716]
998	[1761, 632]	3047	[4415, 2031]	5096	[3774, 1022]	7145	[7621, 4457]
999	[1762, 546]	3048	[2180, 4235]	5097	[3096, 1007]	7146	[682, 624]
1000	[1763, 1764]	3049	[4416, 755]	5098	[6203, 6204]	7147	[5043, 6316]
1001	[1765, 1766]	3050	[1567, 4417]	5099	[6205, 1222]	7148	[7622, 4985]
1002	[1767, 1765]	3051	[1569, 4418]	5100	[5491, 6206]	7149	[7623, 4239]
1003	[1768, 1769]	3052	[4419, 4317]	5101	[402, 1171]	7150	[7624, 3879]
1004	[1770, 800]	3053	[4420, 4321]	5102	[6207, 2894]	7151	[6312, 6867]
1005	[1771, 1772]	3054	[4421, 171]	5103	[3016, 109]	7152	[7625, 6590]
1006	[794, 1773]	3055	[4422, 4423]	5104	[6208, 274]	7153	[7626, 4884]
1007	[1774, 203]	3056	[4424, 625]	5105	[6209, 3357]	7154	[5019, 7576]
1008	[1775, 155]	3057	[3890, 4425]	5106	[6210, 3620]	7155	[4425, 7019]
1009	[1776, 1777]	3058	[4426, 1912]	5107	[6211, 429]	7156	[7627, 4322]
1010	[1778, 790]	3059	[4427, 2546]	5108	[5990, 949]	7157	[7628, 4600]
1011	[1779, 1780]	3060	[4151, 824]	5109	[6212, 2630]	7158	[4921, 3954]
1012	[1781, 1782]	3061	[4428, 4429]	5110	[6213, 2889]	7159	[6931, 538]
1013	[1783, 1784]	3062	[4430, 2014]	5111	[3393, 3005]	7160	[7629, 530]
1014	[1785, 720]	3063	[4431, 2447]	5112	[6214, 3759]	7161	[7630, 6421]
1015	[1786, 1787]	3064	[4432, 4433]	5113	[6215, 6216]	7162	[493, 749]
1016	[1788, 1789]	3065	[4434, 4435]	5114	[2803, 2699]	7163	[2360, 5124]
1017	[1790, 1791]	3066	[4213, 227]	5115	[5689, 5332]	7164	[7631, 6276]
1018	[1792, 1793]	3067	[4436, 4437]	5116	[6217, 3864]	7165	[7632, 2302]
1019	[1794, 1795]	3068	[4438, 4439]	5117	[6218, 126]	7166	[7633, 6319]
1020	[1796, 1797]	3069	[4440, 1599]	5118	[6219, 6220]	7167	[7634, 6821]
1021	[1798, 1799]	3070	[4441, 4152]	5119	[5655, 1474]	7168	[4515, 5035]
1022	[1800, 1801]	3071	[4442, 2360]	5120	[5552, 381]	7169	[7635, 7636]
1023	[1802, 1803]	3072	[4443, 2073]	5121	[6221, 3164]	7170	[1832, 2004]
1024	[1804, 1805]	3073	[4444, 4445]	5122	[5329, 5306]	7171	[7637, 6669]
1025	[1806, 1807]	3074	[2126, 4248]	5123	[1245, 67]	7172	[7638, 2490]
1026	[1808, 1809]	3075	[4446, 622]	5124	[6222, 5853]	7173	[1711, 6924]
1027	[1810, 680]	3076	[181, 4447]	5125	[6042, 3173]	7174	[7639, 6651]
1028	[1, 1811]	3077	[4338, 3923]	5126	[6223, 1093]	7175	[7640, 1755]
1029	[1812, 675]	3078	[3921, 4278]	5127	[6224, 1069]	7176	[56, 2085]
1030	[1572, 1813]	3079	[4448, 4300]	5128	[6225, 1163]	7177	[7641, 4098]
1031	[1814, 1615]	3080	[4052, 4021]	5129	[6226, 2947]	7178	[2370, 4217]
1032	[1815, 1816]	3081	[4449, 4027]	5130	[916, 1248]	7179	[5055, 786]

1033	[1817, 1818]	3082	[835, 4450]	5131	[1495, 6081]	7180	[7642, 2091]
1034	[1819, 1820]	3083	[4451, 4452]	5132	[6227, 6228]	7181	[4697, 51]
1035	[1821, 578]	3084	[4453, 243]	5133	[1196, 5635]	7182	[7643, 7644]
1036	[1822, 1576]	3085	[4454, 512]	5134	[6229, 1107]	7183	[4524, 845]
1037	[1823, 1824]	3086	[4455, 4456]	5135	[5693, 1370]	7184	[4542, 7557]
1038	[1825, 572]	3087	[4457, 4458]	5136	[6230, 2601]	7185	[1885, 6896]
1039	[1826, 869]	3088	[4459, 3999]	5137	[6231, 5609]	7186	[7645, 715]
1040	[1827, 1828]	3089	[1597, 2170]	5138	[5708, 3863]	7187	[2341, 4497]
1041	[1829, 1830]	3090	[4460, 2131]	5139	[6232, 2925]	7188	[7646, 7647]
1042	[1831, 1832]	3091	[4461, 4268]	5140	[3610, 3274]	7189	[2333, 37]
1043	[1833, 607]	3092	[4447, 4462]	5141	[6233, 1000]	7190	[7648, 4438]
1044	[1834, 1835]	3093	[4463, 4401]	5142	[6102, 280]	7191	[7649, 730]
1045	[1836, 1837]	3094	[4464, 4465]	5143	[5749, 3153]	7192	[4200, 6462]
1046	[1838, 1784]	3095	[4466, 240]	5144	[6234, 3695]	7193	[2307, 637]
1047	[1839, 1840]	3096	[4231, 1775]	5145	[317, 5908]	7194	[7650, 4153]
1048	[1841, 1842]	3097	[4435, 4467]	5146	[6235, 2686]	7195	[7651, 4933]
1049	[1843, 1805]	3098	[4468, 3886]	5147	[6236, 2891]	7196	[7652, 5098]
1050	[1844, 826]	3099	[4469, 4437]	5148	[3231, 6237]	7197	[7653, 608]
1051	[1845, 1781]	3100	[4470, 2405]	5149	[6238, 1392]	7198	[7654, 2525]
1052	[1846, 1847]	3101	[4038, 4471]	5150	[6239, 1272]	7199	[5016, 521]
1053	[1848, 1849]	3102	[3902, 2354]	5151	[6240, 5269]	7200	[7655, 6822]
1054	[1850, 1851]	3103	[179, 4028]	5152	[6241, 2977]	7201	[7656, 1693]
1055	[1852, 1767]	3104	[4472, 2502]	5153	[3554, 6129]	7202	[7657, 4872]
1056	[1853, 1854]	3105	[4473, 4007]	5154	[6242, 5831]	7203	[4642, 2304]
1057	[513, 1855]	3106	[4474, 49]	5155	[5751, 93]	7204	[7658, 4708]
1058	[517, 812]	3107	[3968, 4475]	5156	[5413, 940]	7205	[7659, 6459]
1059	[1581, 1746]	3108	[3926, 793]	5157	[6243, 5758]	7206	[7660, 6952]
1060	[1856, 1857]	3109	[4476, 4477]	5158	[6244, 3303]	7207	[2366, 6695]
1061	[1858, 1859]	3110	[4478, 4479]	5159	[6245, 389]	7208	[4983, 2358]
1062	[1860, 1807]	3111	[4480, 4481]	5160	[6246, 5308]	7209	[7661, 7662]
1063	[1861, 1862]	3112	[4482, 4483]	5161	[6247, 5318]	7210	[7663, 602]
1064	[1863, 2]	3113	[4484, 4045]	5162	[6248, 332]	7211	[6481, 6763]
1065	[1864, 1865]	3114	[4485, 1781]	5163	[6249, 3282]	7212	[2165, 4191]
1066	[1866, 653]	3115	[4486, 4388]	5164	[5543, 5623]	7213	[7664, 1884]
1067	[1867, 1868]	3116	[4487, 2511]	5165	[6250, 3175]	7214	[770, 6865]
1068	[1583, 1869]	3117	[1952, 704]	5166	[6251, 3258]	7215	[6633, 5165]
1069	[1585, 1759]	3118	[4488, 4489]	5167	[273, 898]	7216	[7665, 188]
1070	[1870, 1871]	3119	[4418, 1711]	5168	[6252, 5827]	7217	[3874, 2205]
1071	[1872, 1873]	3120	[4490, 3936]	5169	[1532, 1065]	7218	[7666, 2228]
1072	[655, 1874]	3121	[4491, 4053]	5170	[1194, 1243]	7219	[7667, 6713]
1073	[1875, 1876]	3122	[4059, 4492]	5171	[6253, 3080]	7220	[617, 5151]
1074	[1877, 1878]	3123	[4493, 244]	5172	[960, 1520]	7221	[4786, 6386]
1075	[1879, 229]	3124	[4494, 876]	5173	[6254, 1130]	7222	[2387, 5116]
1076	[1880, 1881]	3125	[4495, 4402]	5174	[6255, 2689]	7223	[7668, 2384]

1077	[1882, 1883]	3126	[2350, 2247]	5175	[6256, 3595]	7224	[4057, 715]
1078	[1884, 1885]	3127	[1971, 4496]	5176	[6257, 66]	7225	[7669, 181]
1079	[1886, 1887]	3128	[4497, 4498]	5177	[6258, 388]	7226	[7670, 4611]
1080	[1888, 1616]	3129	[4499, 4028]	5178	[6259, 4450]	7227	[4859, 2514]
1081	[1889, 1890]	3130	[867, 4500]	5179	[6260, 4516]	7228	[2153, 6471]
1082	[642, 1891]	3131	[4501, 4502]	5180	[6261, 6262]	7229	[4049, 4882]
1083	[1892, 1893]	3132	[4503, 4504]	5181	[2561, 2042]	7230	[7671, 6601]
1084	[1894, 1895]	3133	[4505, 643]	5182	[4554, 5136]	7231	[2438, 4719]
1085	[1896, 1596]	3134	[4506, 4507]	5183	[6263, 2063]	7232	[7672, 4137]
1086	[1897, 1898]	3135	[4508, 3890]	5184	[6264, 5038]	7233	[6675, 7647]
1087	[853, 1899]	3136	[1603, 2022]	5185	[6265, 2162]	7234	[6935, 2210]
1088	[1900, 1901]	3137	[4509, 4487]	5186	[6266, 4827]	7235	[6616, 4044]
1089	[1902, 1903]	3138	[4510, 2017]	5187	[6267, 4935]	7236	[6753, 1825]
1090	[1904, 1905]	3139	[4511, 134]	5188	[6268, 5125]	7237	[7673, 4048]
1091	[1906, 1907]	3140	[4512, 2083]	5189	[6269, 597]	7238	[7674, 7675]
1092	[1908, 1569]	3141	[4513, 3904]	5190	[6270, 4154]	7239	[7676, 4629]
1093	[1909, 646]	3142	[4514, 4515]	5191	[6271, 2373]	7240	[6476, 7644]
1094	[1910, 1911]	3143	[4516, 4274]	5192	[6272, 523]	7241	[7677, 6836]
1095	[1912, 1913]	3144	[4517, 2026]	5193	[174, 6273]	7242	[4053, 1741]
1096	[1914, 1915]	3145	[1903, 4518]	5194	[6274, 6275]	7243	[7678, 2212]
1097	[1898, 1612]	3146	[4029, 2529]	5195	[6276, 1806]	7244	[7679, 5157]
1098	[1916, 1917]	3147	[4519, 4520]	5196	[648, 4210]	7245	[7680, 4645]
1099	[1918, 1919]	3148	[4521, 2526]	5197	[6277, 533]	7246	[4731, 6854]
1100	[1920, 507]	3149	[4522, 2227]	5198	[6278, 4200]	7247	[6781, 4112]
1101	[1921, 849]	3150	[4523, 4524]	5199	[4889, 2060]	7248	[7681, 5047]
1102	[1922, 1923]	3151	[4525, 133]	5200	[3986, 2227]	7249	[675, 6263]
1103	[1924, 1925]	3152	[4526, 4043]	5201	[6279, 6280]	7250	[6729, 4633]
1104	[1926, 42]	3153	[4527, 738]	5202	[6281, 4337]	7251	[7682, 2053]
1105	[1927, 1928]	3154	[243, 184]	5203	[6282, 879]	7252	[6774, 4932]
1106	[1929, 1930]	3155	[4403, 4528]	5204	[6283, 1597]	7253	[525, 4697]
1107	[1931, 1932]	3156	[4529, 4530]	5205	[6284, 1949]	7254	[7683, 6471]
1108	[1933, 1934]	3157	[4531, 4532]	5206	[6285, 6286]	7255	[7684, 6539]
1109	[1935, 1936]	3158	[4299, 4533]	5207	[6287, 4823]	7256	[7685, 6344]
1110	[1937, 1938]	3159	[4534, 2198]	5208	[2331, 4965]	7257	[7686, 7552]
1111	[1939, 1940]	3160	[4535, 3961]	5209	[5080, 4300]	7258	[7687, 6263]
1112	[613, 1748]	3161	[4536, 803]	5210	[6288, 205]	7259	[2338, 2425]
1113	[1941, 1942]	3162	[4537, 1803]	5211	[4136, 4789]	7260	[7688, 4228]
1114	[1943, 1632]	3163	[4538, 4403]	5212	[1574, 2421]	7261	[7689, 4325]
1115	[1944, 1890]	3164	[4539, 3970]	5213	[6289, 2398]	7262	[6653, 2226]
1116	[1945, 1946]	3165	[4126, 4540]	5214	[6290, 563]	7263	[7690, 5028]
1117	[1947, 1948]	3166	[4541, 4542]	5215	[6291, 6292]	7264	[7691, 6689]
1118	[136, 580]	3167	[4543, 4544]	5216	[6293, 1930]	7265	[7692, 4822]
1119	[1949, 1950]	3168	[4545, 4214]	5217	[4614, 1755]	7266	[5068, 6719]
1120	[1951, 1952]	3169	[4546, 660]	5218	[5136, 1573]	7267	[7693, 1719]

1121	[1953, 1954]	3170	[739, 4547]	5219	[5009, 4076]	7268	[7694, 2548]
1122	[1955, 1956]	3171	[2324, 4548]	5220	[6294, 1929]	7269	[7695, 4204]
1123	[1957, 1609]	3172	[4549, 2484]	5221	[6295, 1658]	7270	[7696, 2269]
1124	[879, 1958]	3173	[4550, 1983]	5222	[6296, 2359]	7271	[1911, 4970]
1125	[1959, 1960]	3174	[4551, 2096]	5223	[6297, 6298]	7272	[7697, 6467]
1126	[1961, 1962]	3175	[4552, 1876]	5224	[2351, 3970]	7273	[1824, 4316]
1127	[1963, 1964]	3176	[4553, 4554]	5225	[6299, 628]	7274	[7698, 1648]
1128	[1965, 1966]	3177	[4555, 4556]	5226	[6300, 3914]	7275	[483, 562]
1129	[1967, 1782]	3178	[815, 4557]	5227	[6301, 1707]	7276	[7699, 816]
1130	[1968, 1969]	3179	[4558, 2270]	5228	[6302, 573]	7277	[7700, 6964]
1131	[1970, 1971]	3180	[4559, 4560]	5229	[6303, 5036]	7278	[7701, 786]
1132	[1972, 1973]	3181	[4561, 4562]	5230	[6304, 1970]	7279	[6924, 5166]
1133	[1974, 1975]	3182	[4563, 2222]	5231	[866, 6305]	7280	[2036, 4228]
1134	[1976, 701]	3183	[4277, 4564]	5232	[2321, 732]	7281	[7702, 828]
1135	[1977, 1978]	3184	[2424, 4565]	5233	[6306, 4503]	7282	[7703, 814]
1136	[1979, 867]	3185	[2322, 2112]	5234	[6307, 861]	7283	[7704, 721]
1137	[1980, 1981]	3186	[4566, 4567]	5235	[6308, 2405]	7284	[7705, 7000]
1138	[1982, 1667]	3187	[144, 4568]	5236	[4252, 6309]	7285	[4383, 6343]
1139	[1983, 1984]	3188	[4569, 249]	5237	[2109, 231]	7286	[7706, 234]
1140	[1985, 1986]	3189	[4570, 4518]	5238	[4479, 4502]	7287	[7707, 1634]
1141	[1987, 1988]	3190	[4571, 1592]	5239	[6310, 787]	7288	[1605, 4272]
1142	[1989, 1729]	3191	[4572, 841]	5240	[6311, 6312]	7289	[6941, 3879]
1143	[1990, 851]	3192	[1657, 1704]	5241	[4978, 6313]	7290	[7708, 4730]
1144	[1991, 1992]	3193	[4573, 1861]	5242	[6314, 4456]	7291	[1704, 6905]
1145	[1993, 1994]	3194	[4574, 866]	5243	[6315, 4957]	7292	[7709, 2577]
1146	[1995, 1996]	3195	[4575, 2058]	5244	[6316, 4056]	7293	[6656, 2132]
1147	[1997, 1998]	3196	[4576, 4577]	5245	[2104, 4489]	7294	[7710, 4544]
1148	[1999, 551]	3197	[4578, 4579]	5246	[6317, 4144]	7295	[7711, 4210]
1149	[2000, 2001]	3198	[4116, 4180]	5247	[6318, 3954]	7296	[7712, 6289]
1150	[2002, 2003]	3199	[4404, 4580]	5248	[4693, 3914]	7297	[7713, 4874]
1151	[2004, 2005]	3200	[4581, 4492]	5249	[3897, 4587]	7298	[7714, 4341]
1152	[2006, 2007]	3201	[4301, 1938]	5250	[4264, 6319]	7299	[7715, 4050]
1153	[193, 2008]	3202	[4582, 2045]	5251	[6320, 4707]	7300	[7716, 169]
1154	[2009, 743]	3203	[4583, 1671]	5252	[6321, 4966]	7301	[7717, 2118]
1155	[2010, 1577]	3204	[4584, 3916]	5253	[6322, 2074]	7302	[7718, 593]
1156	[2011, 2012]	3205	[4585, 567]	5254	[6323, 2484]	7303	[7719, 4523]
1157	[2013, 2014]	3206	[4586, 4533]	5255	[6324, 4065]	7304	[7644, 6929]
1158	[2015, 661]	3207	[4587, 1772]	5256	[6325, 4243]	7305	[7720, 2412]
1159	[2016, 2017]	3208	[4588, 4589]	5257	[6326, 746]	7306	[4528, 2197]
1160	[2018, 2019]	3209	[4590, 2043]	5258	[6327, 5043]	7307	[1720, 4903]
1161	[2020, 2021]	3210	[58, 3957]	5259	[6328, 653]	7308	[657, 5134]
1162	[2022, 2023]	3211	[2014, 2501]	5260	[4387, 2452]	7309	[7721, 2300]
1163	[1978, 2024]	3212	[4591, 568]	5261	[6329, 6330]	7310	[7722, 2425]
1164	[2025, 2026]	3213	[4592, 4593]	5262	[6331, 710]	7311	[7723, 504]

1165	[2027, 863]	3214	[3946, 4452]	5263	[6332, 2555]	7312	[7724, 2514]
1166	[2028, 2029]	3215	[4594, 3902]	5264	[6333, 4655]	7313	[7725, 6314]
1167	[2030, 2031]	3216	[4595, 4596]	5265	[6334, 2106]	7314	[5038, 4562]
1168	[2032, 2033]	3217	[4597, 4598]	5266	[6335, 712]	7315	[7726, 520]
1169	[2034, 697]	3218	[4599, 2295]	5267	[831, 822]	7316	[7727, 4013]
1170	[2035, 2036]	3219	[4600, 2062]	5268	[6336, 4375]	7317	[6346, 6699]
1171	[2037, 2038]	3220	[4601, 3944]	5269	[6337, 2479]	7318	[1654, 6581]
1172	[2039, 2040]	3221	[1849, 4083]	5270	[6338, 2094]	7319	[652, 1990]
1173	[1727, 2041]	3222	[4602, 4248]	5271	[6339, 4668]	7320	[1587, 4355]
1174	[2042, 2043]	3223	[4603, 1647]	5272	[146, 4360]	7321	[4838, 3982]
1175	[2044, 636]	3224	[2102, 2466]	5273	[4423, 4601]	7322	[7728, 3941]
1176	[791, 2045]	3225	[2454, 4604]	5274	[6340, 2401]	7323	[7729, 845]
1177	[2046, 797]	3226	[4605, 1759]	5275	[6341, 678]	7324	[1962, 4881]
1178	[2047, 2048]	3227	[4606, 4607]	5276	[2195, 874]	7325	[7730, 4409]
1179	[2049, 2050]	3228	[4608, 3993]	5277	[4864, 2316]	7326	[7731, 196]
1180	[2051, 250]	3229	[4609, 4610]	5278	[5125, 2137]	7327	[811, 4802]
1181	[802, 2052]	3230	[584, 4611]	5279	[6342, 6343]	7328	[3881, 4593]
1182	[2053, 2054]	3231	[2121, 1675]	5280	[2117, 820]	7329	[2001, 2157]
1183	[2055, 2056]	3232	[4475, 4231]	5281	[5139, 2275]	7330	[7732, 1844]
1184	[2057, 2058]	3233	[4532, 4454]	5282	[6344, 2478]	7331	[4108, 4048]
1185	[2059, 2060]	3234	[4612, 183]	5283	[6345, 6346]	7332	[659, 1780]
1186	[2061, 2062]	3235	[4540, 725]	5284	[6347, 4458]	7333	[7733, 5154]
1187	[2063, 2064]	3236	[4613, 4614]	5285	[6348, 4386]	7334	[7734, 2276]
1188	[2065, 2066]	3237	[2095, 4615]	5286	[6349, 4830]	7335	[7735, 1899]
1189	[2067, 2068]	3238	[4616, 4617]	5287	[6350, 1723]	7336	[7736, 4316]
1190	[2069, 201]	3239	[4618, 2042]	5288	[788, 4113]	7337	[1691, 4682]
1191	[2070, 2071]	3240	[4619, 4620]	5289	[6351, 4566]	7338	[7737, 2243]
1192	[2072, 204]	3241	[4621, 2373]	5290	[6352, 1701]	7339	[7738, 1962]
1193	[2073, 2074]	3242	[4622, 2301]	5291	[6353, 2551]	7340	[7739, 513]
1194	[1766, 2075]	3243	[4623, 4624]	5292	[6354, 6355]	7341	[1718, 7667]
1195	[2076, 2077]	3244	[4625, 2578]	5293	[6356, 6357]	7342	[7740, 7594]
1196	[2078, 2079]	3245	[4562, 4626]	5294	[6358, 4692]	7343	[6567, 7741]
1197	[2080, 2081]	3246	[4627, 4628]	5295	[2573, 166]	7344	[7742, 2198]
1198	[2082, 1818]	3247	[4629, 4630]	5296	[6359, 6360]	7345	[7743, 521]
1199	[2083, 2084]	3248	[4631, 4632]	5297	[6361, 248]	7346	[7744, 3882]
1200	[2085, 1658]	3249	[4633, 2286]	5298	[2452, 2213]	7347	[7745, 6541]
1201	[2086, 2087]	3250	[4634, 4046]	5299	[5060, 1668]	7348	[1685, 2055]
1202	[2088, 855]	3251	[3938, 1608]	5300	[6362, 41]	7349	[1628, 2279]
1203	[2089, 2090]	3252	[4635, 2450]	5301	[4361, 6266]	7350	[44, 1991]
1204	[2091, 488]	3253	[4568, 2534]	5302	[4898, 6292]	7351	[7746, 5129]
1205	[2092, 2093]	3254	[4636, 191]	5303	[6363, 2181]	7352	[4961, 1845]
1206	[2094, 2095]	3255	[4637, 4069]	5304	[6364, 4041]	7353	[2239, 1575]
1207	[2096, 2097]	3256	[4638, 4134]	5305	[6365, 6366]	7354	[7747, 784]
1208	[2098, 2099]	3257	[4639, 2274]	5306	[6367, 2156]	7355	[7748, 4535]

1209	[2100, 1872]	3258	[4640, 497]	5307	[6368, 3974]	7356	[4577, 6501]
1210	[2101, 2102]	3259	[4641, 626]	5308	[6369, 5148]	7357	[1868, 4716]
1211	[2103, 2104]	3260	[2220, 4642]	5309	[785, 591]	7358	[1960, 852]
1212	[1679, 2065]	3261	[4643, 4644]	5310	[6370, 2056]	7359	[7749, 5078]
1213	[2105, 2106]	3262	[4645, 1785]	5311	[6371, 4943]	7360	[2281, 6617]
1214	[2107, 1720]	3263	[4646, 4647]	5312	[6372, 228]	7361	[7750, 6740]
1215	[2108, 2109]	3264	[2162, 493]	5313	[1862, 6373]	7362	[7751, 2065]
1216	[2110, 1840]	3265	[4648, 4649]	5314	[6374, 4361]	7363	[7752, 4930]
1217	[2111, 2112]	3266	[4650, 1758]	5315	[6355, 2305]	7364	[627, 2120]
1218	[1940, 2113]	3267	[820, 2108]	5316	[40, 3884]	7365	[7753, 4240]
1219	[2114, 1834]	3268	[4651, 4652]	5317	[6375, 3995]	7366	[7754, 4651]
1220	[2115, 2116]	3269	[487, 4628]	5318	[34, 1732]	7367	[168, 6306]
1221	[1701, 2117]	3270	[4653, 1875]	5319	[2358, 4933]	7368	[7755, 5165]
1222	[2118, 2119]	3271	[4654, 4655]	5320	[6376, 854]	7369	[7756, 4882]
1223	[2120, 2121]	3272	[4656, 221]	5321	[6377, 806]	7370	[7757, 6456]
1224	[1837, 487]	3273	[4182, 4617]	5322	[6378, 6273]	7371	[6286, 4020]
1225	[2122, 54]	3274	[4657, 2394]	5323	[6379, 5138]	7372	[7611, 2300]
1226	[2123, 2124]	3275	[4658, 4659]	5324	[6380, 2295]	7373	[7758, 3948]
1227	[2125, 2126]	3276	[4660, 2346]	5325	[6381, 4282]	7374	[7759, 6498]
1228	[1948, 2127]	3277	[4199, 4661]	5326	[625, 2376]	7375	[6605, 1838]
1229	[765, 2128]	3278	[4632, 4161]	5327	[6382, 1638]	7376	[2301, 742]
1230	[1928, 2129]	3279	[4662, 2177]	5328	[1697, 4430]	7377	[4721, 2258]
1231	[1930, 2130]	3280	[523, 668]	5329	[6383, 4815]	7378	[221, 4022]
1232	[2131, 1801]	3281	[4663, 670]	5330	[6384, 58]	7379	[1915, 7636]
1233	[2132, 2133]	3282	[4664, 2416]	5331	[6385, 6386]	7380	[4005, 7013]
1234	[2134, 2135]	3283	[2274, 57]	5332	[6387, 1869]	7381	[7576, 6569]
1235	[2136, 483]	3284	[4665, 736]	5333	[4990, 2556]	7382	[7760, 532]
1236	[2137, 2138]	3285	[1760, 4666]	5334	[5168, 4239]	7383	[7761, 6402]
1237	[2139, 1750]	3286	[3286, 3286]	5335	[4556, 2374]	7384	[6695, 6836]
1238	[2140, 2141]	3287	[847, 4667]	5336	[6388, 731]	7385	[7762, 5079]
1239	[2142, 1633]	3288	[4024, 4530]	5337	[6389, 2400]	7386	[2564, 6426]
1240	[2143, 2144]	3289	[759, 4668]	5338	[208, 4258]	7387	[7763, 4626]
1241	[2145, 2146]	3290	[4669, 4363]	5339	[6390, 2138]	7388	[7764, 7765]
1242	[2147, 2148]	3291	[4670, 4671]	5340	[4827, 2007]	7389	[6952, 4730]
1243	[2149, 2150]	3292	[3944, 2359]	5341	[6391, 214]	7390	[2447, 2441]
1244	[2151, 218]	3293	[4668, 4672]	5342	[6392, 592]	7391	[7766, 6858]
1245	[531, 1923]	3294	[4673, 2275]	5343	[6393, 2419]	7392	[7767, 4049]
1246	[2152, 2153]	3295	[4674, 4675]	5344	[4014, 4197]	7393	[619, 7768]
1247	[2154, 1864]	3296	[4676, 2218]	5345	[6394, 4191]	7394	[6343, 5047]
1248	[2155, 2144]	3297	[4677, 4554]	5346	[729, 3949]	7395	[6541, 1685]
1249	[1626, 2156]	3298	[826, 4678]	5347	[6395, 6396]	7396	[7769, 4942]
1250	[2157, 1878]	3299	[4679, 2285]	5348	[227, 1998]	7397	[185, 3924]
1251	[2158, 2159]	3300	[2449, 4680]	5349	[6397, 4081]	7398	[7770, 7771]
1252	[2135, 2160]	3301	[1801, 2394]	5350	[1636, 6398]	7399	[6575, 7765]

1253	[2161, 1574]	3302	[4681, 1956]	5351	[6399, 519]	7400	[7772, 4024]
1254	[615, 2162]	3303	[4682, 1654]	5352	[772, 6400]	7401	[7773, 3924]
1255	[2163, 1802]	3304	[4683, 1984]	5353	[6401, 2094]	7402	[7774, 1757]
1256	[1986, 1811]	3305	[4684, 737]	5354	[4544, 4192]	7403	[7775, 7768]
1257	[2164, 2165]	3306	[4685, 2569]	5355	[4067, 1959]	7404	[7776, 614]
1258	[2166, 2119]	3307	[4373, 4162]	5356	[6402, 4770]	7405	[3980, 542]
1259	[2167, 2168]	3308	[4686, 4687]	5357	[2482, 4068]	7406	[7777, 781]
1260	[2169, 2170]	3309	[4688, 584]	5358	[4661, 4243]	7407	[7778, 6905]
1261	[2171, 2172]	3310	[667, 4689]	5359	[6403, 3876]	7408	[7779, 6515]
1262	[2173, 2153]	3311	[4690, 732]	5360	[6404, 756]	7409	[6628, 6317]
1263	[2174, 1865]	3312	[590, 4691]	5361	[6405, 874]	7410	[7780, 6332]
1264	[2175, 2176]	3313	[594, 4692]	5362	[6406, 4420]	7411	[4229, 4341]
1265	[2177, 2178]	3314	[2310, 4693]	5363	[4398, 6366]	7412	[7781, 6581]
1266	[2179, 2180]	3315	[4694, 4695]	5364	[818, 1858]	7413	[4007, 6493]
1267	[2181, 2182]	3316	[4696, 4697]	5365	[2093, 6407]	7414	[1782, 4322]
1268	[2183, 2184]	3317	[4698, 518]	5366	[6408, 215]	7415	[1638, 6289]
1269	[2185, 235]	3318	[4580, 1699]	5367	[6409, 689]	7416	[7782, 6605]
1270	[2186, 2187]	3319	[4699, 4447]	5368	[6410, 6373]	7417	[1809, 4973]
1271	[2188, 559]	3320	[4450, 4340]	5369	[6411, 4156]	7418	[778, 4676]
1272	[2189, 1857]	3321	[4700, 4504]	5370	[5106, 1787]	7419	[7783, 2226]
1273	[2190, 2191]	3322	[4701, 4702]	5371	[6412, 1663]	7420	[7784, 2025]
1274	[1873, 2081]	3323	[4703, 670]	5372	[636, 1733]	7421	[4437, 7725]
1275	[2192, 2193]	3324	[4704, 142]	5373	[6413, 1587]	7422	[877, 6276]
1276	[2194, 2195]	3325	[4705, 1602]	5374	[6414, 1593]	7423	[7785, 6271]
1277	[2196, 2197]	3326	[849, 2545]	5375	[6415, 4740]	7424	[7636, 4588]
1278	[2198, 187]	3327	[4706, 4707]	5376	[6416, 2355]	7425	[7786, 1743]
1279	[2199, 158]	3328	[4708, 4709]	5377	[6417, 2117]	7426	[7787, 5139]
1280	[2200, 619]	3329	[4710, 4711]	5378	[6418, 4764]	7427	[7788, 538]
1281	[2201, 685]	3330	[4712, 4277]	5379	[6419, 4436]	7428	[644, 4385]
1282	[2202, 2203]	3331	[4672, 1832]	5380	[6420, 4260]	7429	[6811, 6477]
1283	[2204, 2205]	3332	[4713, 4714]	5381	[4666, 6421]	7430	[4818, 5075]
1284	[2206, 2207]	3333	[533, 641]	5382	[4927, 4077]	7431	[7789, 7725]
1285	[2208, 793]	3334	[4715, 1817]	5383	[6422, 2075]	7432	[4975, 6380]
1286	[1769, 2072]	3335	[4716, 4285]	5384	[4001, 622]	7433	[7790, 190]
1287	[800, 2200]	3336	[1610, 2482]	5385	[6423, 4777]	7434	[7791, 5159]
1288	[2209, 2210]	3337	[4717, 2251]	5386	[4548, 6424]	7435	[559, 1939]
1289	[2211, 2212]	3338	[4718, 2008]	5387	[6425, 6426]	7436	[7792, 4632]
1290	[2213, 2214]	3339	[4408, 2396]	5388	[4462, 1722]	7437	[714, 2410]
1291	[2215, 2216]	3340	[4719, 1647]	5389	[6427, 741]	7438	[7793, 2402]
1292	[2217, 2218]	3341	[3999, 4267]	5390	[6428, 778]	7439	[7794, 224]
1293	[2219, 2220]	3342	[4720, 36]	5391	[6429, 4768]	7440	[4465, 2091]
1294	[2221, 2222]	3343	[2253, 4721]	5392	[6430, 4411]	7441	[7795, 606]
1295	[2223, 2224]	3344	[4124, 4349]	5393	[6424, 2083]	7442	[1589, 2076]
1296	[2225, 2105]	3345	[824, 4149]	5394	[1795, 4306]	7443	[2216, 2240]

1297	[2226, 738]	3346	[2560, 4550]	5395	[6431, 4166]	7444	[7034, 3975]
1298	[2227, 2228]	3347	[4593, 4264]	5396	[4147, 2520]	7445	[569, 4043]
1299	[2229, 2200]	3348	[4722, 795]	5397	[6432, 160]	7446	[1734, 2173]
1300	[2230, 2231]	3349	[4723, 807]	5398	[6433, 4398]	7447	[7796, 6572]
1301	[2232, 2012]	3350	[4557, 4671]	5399	[6434, 1862]	7448	[723, 6539]
1302	[2233, 566]	3351	[4724, 4415]	5400	[2130, 2309]	7449	[4171, 7797]
1303	[2234, 2235]	3352	[4725, 2070]	5401	[5169, 2299]	7450	[7798, 6711]
1304	[2056, 2236]	3353	[4726, 623]	5402	[6435, 204]	7451	[4567, 4415]
1305	[549, 2237]	3354	[4727, 4279]	5403	[6436, 239]	7452	[4689, 6598]
1306	[2238, 2239]	3355	[4728, 805]	5404	[2526, 4118]	7453	[7799, 6673]
1307	[2240, 1917]	3356	[4729, 2449]	5405	[6437, 2113]	7454	[7800, 1676]
1308	[2241, 2145]	3357	[142, 4154]	5406	[6438, 1830]	7455	[2214, 7675]
1309	[2242, 2243]	3358	[4730, 4731]	5407	[6439, 4178]	7456	[4617, 728]
1310	[2244, 2245]	3359	[4732, 4356]	5408	[2045, 4116]	7457	[36, 5007]
1311	[2246, 2247]	3360	[4733, 1608]	5409	[6440, 4913]	7458	[5111, 6724]
1312	[1682, 2134]	3361	[4624, 10]	5410	[6441, 4334]	7459	[7801, 7561]
1313	[2248, 2249]	3362	[4734, 4735]	5411	[2312, 4750]	7460	[1630, 6472]
1314	[2250, 2251]	3363	[4736, 4737]	5412	[4128, 4303]	7461	[7802, 4705]
1315	[846, 571]	3364	[4738, 647]	5413	[6442, 4477]	7462	[2433, 1598]
1316	[2252, 2253]	3365	[4714, 4089]	5414	[4137, 4480]	7463	[1618, 4714]
1317	[2254, 1914]	3366	[4739, 4740]	5415	[4205, 1770]	7464	[2148, 7561]
1318	[2255, 633]	3367	[4741, 4061]	5416	[6443, 510]	7465	[2203, 1973]
1319	[2256, 691]	3368	[4742, 815]	5417	[6444, 4615]	7466	[4020, 4432]
1320	[1648, 2257]	3369	[4743, 2261]	5418	[1714, 4858]	7467	[4966, 2490]
1321	[2258, 2259]	3370	[4744, 1603]	5419	[6445, 4664]	7468	[7803, 610]
1322	[2260, 2261]	3371	[4745, 638]	5420	[632, 681]	7469	[7741, 522]
1323	[2262, 490]	3372	[1816, 4313]	5421	[6446, 2403]	7470	[4407, 7002]
1324	[2263, 1915]	3373	[4746, 2139]	5422	[6447, 596]	7471	[822, 816]
1325	[2264, 2265]	3374	[2558, 532]	5423	[5046, 2575]	7472	[4098, 6970]
1326	[2266, 547]	3375	[2553, 2220]	5424	[6448, 2385]	7473	[7804, 1757]
1327	[2267, 1795]	3376	[4747, 1760]	5425	[6449, 4834]	7474	[4692, 4935]
1328	[2268, 2216]	3377	[4748, 4749]	5426	[6450, 6451]	7475	[7805, 1826]
1329	[650, 2269]	3378	[547, 4245]	5427	[6452, 704]	7476	[7647, 4176]
1330	[1981, 2270]	3379	[4750, 2283]	5428	[6453, 6309]	7477	[7675, 1719]
1331	[2271, 2165]	3380	[4751, 4751]	5429	[6400, 5113]	7478	[7806, 7024]
1332	[603, 2272]	3381	[4533, 2068]	5430	[6454, 2556]	7479	[7807, 6429]
1333	[2273, 2274]	3382	[1740, 3900]	5431	[6455, 4524]	7480	[7808, 4859]
1334	[2275, 1789]	3383	[4489, 1590]	5432	[6456, 4297]	7481	[4691, 2098]
1335	[2276, 2277]	3384	[4752, 2131]	5433	[6457, 6458]	7482	[4560, 6673]
1336	[2237, 2278]	3385	[4753, 4303]	5434	[3973, 6280]	7483	[7809, 4608]
1337	[2279, 1978]	3386	[553, 2513]	5435	[4846, 6396]	7484	[2224, 7810]
1338	[2280, 2281]	3387	[60, 4754]	5436	[4610, 6459]	7485	[3966, 805]
1339	[2282, 2283]	3388	[4755, 4756]	5437	[6460, 4667]	7486	[4855, 1826]
1340	[2284, 2285]	3389	[4757, 2236]	5438	[6461, 6462]	7487	[7811, 4480]

1341	[2286, 2287]	3390	[4758, 4759]	5439	[6463, 2305]	7488	[7812, 4865]
1342	[2288, 2289]	3391	[4760, 2530]	5440	[4702, 4221]	7489	[7813, 6713]
1343	[2290, 2064]	3392	[4761, 4374]	5441	[6464, 1889]	7490	[7814, 7682]
1344	[2291, 1746]	3393	[4762, 2473]	5442	[2019, 4542]	7491	[6502, 4703]
1345	[2292, 588]	3394	[4763, 2563]	5443	[6465, 4425]	7492	[7815, 6317]
1346	[2293, 2294]	3395	[4363, 839]	5444	[4481, 5060]	7493	[7816, 6678]
1347	[2295, 2296]	3396	[4649, 4764]	5445	[6466, 4806]	7494	[7817, 4601]
1348	[2297, 2265]	3397	[4765, 1610]	5446	[6467, 3980]	7495	[6821, 4822]
1349	[2298, 2299]	3398	[4766, 2178]	5447	[2191, 133]	7496	[2319, 6355]
1350	[1942, 1928]	3399	[634, 2454]	5448	[2406, 4994]	7497	[7818, 6970]
1351	[2300, 2301]	3400	[4767, 4018]	5449	[565, 6468]	7498	[7819, 488]
1352	[2302, 2303]	3401	[4768, 3881]	5450	[4630, 2221]	7499	[7820, 6753]
1353	[2304, 2294]	3402	[4769, 3874]	5451	[6469, 4274]	7500	[7821, 7014]
1354	[2305, 8]	3403	[4411, 746]	5452	[6470, 4772]	7501	[2430, 4591]
1355	[2303, 1881]	3404	[4770, 4345]	5453	[1729, 2314]	7502	[2245, 6348]
1356	[2306, 2307]	3405	[4771, 4772]	5454	[6471, 2472]	7503	[7822, 4653]
1357	[2308, 2287]	3406	[2485, 1897]	5455	[6472, 5098]	7504	[6630, 6284]
1358	[2309, 2310]	3407	[4773, 4774]	5456	[6473, 219]	7505	[7823, 6630]
1359	[2311, 2312]	3408	[4775, 4077]	5457	[6474, 2177]	7506	[1907, 6513]
1360	[2313, 2077]	3409	[4776, 3286]	5458	[6475, 3887]	7507	[4370, 6640]
1361	[2314, 2315]	3410	[4245, 4247]	5459	[4222, 6476]	7508	[4218, 2409]
1362	[2316, 2317]	3411	[4471, 200]	5460	[6477, 6478]	7509	[2112, 4653]
1363	[2318, 2319]	3412	[2353, 4777]	5461	[6479, 4135]	7510	[7824, 1892]
1364	[2320, 2321]	3413	[4778, 4633]	5462	[6480, 6481]	7511	[7825, 3909]
1365	[481, 2322]	3414	[4779, 2173]	5463	[6482, 1835]	7512	[1818, 4097]
1366	[485, 2323]	3415	[4780, 4192]	5464	[6483, 4823]	7513	[7826, 6691]
1367	[1946, 2324]	3416	[4781, 1764]	5465	[156, 515]	7514	[7827, 4462]
1368	[2325, 729]	3417	[4782, 748]	5466	[158, 2070]	7515	[6845, 2381]
1369	[2326, 1706]	3418	[4783, 4784]	5467	[6484, 705]	7516	[2462, 6745]
1370	[2327, 1620]	3419	[3995, 1796]	5468	[4367, 4712]	7517	[7810, 3909]
1371	[2328, 2329]	3420	[4785, 4786]	5469	[6485, 4560]	7518	[7828, 1991]
1372	[2330, 2331]	3421	[4787, 634]	5470	[6486, 6487]	7519	[7829, 4662]
1373	[2332, 2333]	3422	[4788, 652]	5471	[6488, 4840]	7520	[4317, 1644]
1374	[2334, 2335]	3423	[1623, 2010]	5472	[6489, 197]	7521	[6554, 6402]
1375	[2336, 2337]	3424	[4589, 4392]	5473	[4870, 6490]	7522	[7830, 6600]
1376	[164, 2338]	3425	[4789, 747]	5474	[6491, 1740]	7523	[7831, 4218]
1377	[2339, 225]	3426	[1954, 4507]	5475	[6492, 6493]	7524	[6499, 7010]
1378	[2340, 2341]	3427	[4790, 4310]	5476	[6494, 4734]	7525	[3984, 6675]
1379	[671, 2342]	3428	[4791, 4792]	5477	[2428, 2362]	7526	[7832, 4846]
1380	[2343, 877]	3429	[1644, 4106]	5478	[6495, 45]	7527	[7833, 4752]
1381	[2344, 2345]	3430	[4173, 4793]	5479	[2038, 6496]	7528	[2499, 4358]
1382	[2346, 626]	3431	[4794, 4093]	5480	[6497, 4754]	7529	[7834, 2304]
1383	[2347, 2348]	3432	[4795, 2561]	5481	[6498, 6499]	7530	[2050, 2553]
1384	[2349, 2350]	3433	[4796, 4797]	5482	[3931, 4759]	7531	[7835, 6941]

1385	[1739, 1974]	3434	[4798, 4534]	5483	[1835, 6500]	7532	[6988, 4639]
1386	[2048, 2351]	3435	[4799, 717]	5484	[6501, 6502]	7533	[7836, 6929]
1387	[2352, 2353]	3436	[4800, 796]	5485	[6503, 2374]	7534	[7837, 4567]
1388	[2354, 2355]	3437	[577, 4774]	5486	[6504, 6472]	7535	[7838, 6260]
1389	[2356, 613]	3438	[4801, 4250]	5487	[4439, 228]	7536	[7839, 777]
1390	[2357, 2358]	3439	[4802, 3960]	5488	[6505, 6506]	7537	[5036, 6842]
1391	[2359, 2360]	3440	[4803, 4014]	5489	[4518, 5153]	7538	[7840, 582]
1392	[2296, 509]	3441	[4804, 1908]	5490	[6507, 2001]	7539	[7841, 7706]
1393	[2361, 2362]	3442	[4805, 1734]	5491	[6508, 1770]	7540	[2511, 4177]
1394	[1594, 1592]	3443	[4100, 4067]	5492	[6509, 4836]	7541	[7842, 6555]
1395	[748, 2363]	3444	[4806, 4479]	5493	[6510, 4681]	7542	[7843, 2410]
1396	[2364, 1591]	3445	[2468, 1867]	5494	[3885, 4679]	7543	[7844, 4639]
1397	[2365, 2366]	3446	[4807, 1641]	5495	[6511, 583]	7544	[7845, 5151]
1398	[2367, 2368]	3447	[4090, 4631]	5496	[6512, 1633]	7545	[6669, 47]
1399	[2369, 2370]	3448	[4808, 4565]	5497	[6513, 2558]	7546	[4615, 730]
1400	[2371, 736]	3449	[4809, 4607]	5498	[6514, 4011]	7547	[7846, 1208]
1401	[2372, 763]	3450	[4810, 1651]	5499	[751, 4958]	7548	[5415, 1189]
1402	[2373, 696]	3451	[4811, 789]	5500	[2251, 2573]	7549	[1299, 1459]
1403	[2374, 1966]	3452	[4812, 4813]	5501	[6515, 4356]	7550	[3453, 7847]
1404	[2375, 2376]	3453	[4814, 512]	5502	[555, 1717]	7551	[7848, 395]
1405	[2377, 2022]	3454	[4417, 4815]	5503	[6516, 2092]	7552	[7849, 1005]
1406	[2090, 601]	3455	[4816, 2146]	5504	[6517, 6518]	7553	[7847, 3767]
1407	[2378, 1837]	3456	[3955, 2260]	5505	[6519, 2363]	7554	[5385, 5882]
1408	[2005, 2379]	3457	[4817, 4818]	5506	[6520, 5153]	7555	[3588, 1093]
1409	[2380, 2381]	3458	[2249, 510]	5507	[6521, 4712]	7556	[7850, 339]
1410	[2382, 615]	3459	[2287, 1817]	5508	[6522, 4464]	7557	[7851, 1101]
1411	[520, 723]	3460	[4225, 2307]	5509	[6523, 1712]	7558	[7852, 3278]
1412	[2383, 185]	3461	[4819, 3891]	5510	[6524, 4378]	7559	[7853, 425]
1413	[2384, 2385]	3462	[4820, 4793]	5511	[804, 4173]	7560	[7854, 1361]
1414	[2386, 2066]	3463	[4821, 1572]	5512	[6525, 4958]	7561	[7855, 7274]
1415	[1813, 2387]	3464	[4822, 4295]	5513	[737, 827]	7562	[7856, 2826]
1416	[2388, 629]	3465	[4823, 4664]	5514	[6526, 2281]	7563	[3078, 5178]
1417	[2389, 2390]	3466	[4824, 561]	5515	[6527, 5169]	7564	[2719, 3348]
1418	[2391, 208]	3467	[1744, 4825]	5516	[6528, 6529]	7565	[7857, 5600]
1419	[2392, 1918]	3468	[4826, 4827]	5517	[6530, 4195]	7566	[5265, 3181]
1420	[2393, 1920]	3469	[4216, 484]	5518	[6531, 2338]	7567	[2822, 2594]
1421	[2133, 1799]	3470	[4433, 41]	5519	[6532, 6533]	7568	[7858, 3646]
1422	[2394, 2395]	3471	[4828, 2416]	5520	[6534, 4118]	7569	[7859, 2625]
1423	[1660, 1932]	3472	[1634, 1630]	5521	[4834, 6427]	7570	[6010, 5767]
1424	[2396, 1988]	3473	[4829, 4830]	5522	[6535, 2259]	7571	[7860, 3734]
1425	[2397, 682]	3474	[4831, 157]	5523	[6536, 5073]	7572	[7861, 6011]
1426	[2398, 2399]	3475	[4832, 4833]	5524	[229, 6537]	7573	[7314, 316]
1427	[2033, 2139]	3476	[3978, 4834]	5525	[6538, 572]	7574	[7862, 887]
1428	[2400, 2401]	3477	[4835, 4301]	5526	[6539, 2028]	7575	[5423, 3149]

1429	[497, 1672]	3478	[2062, 4836]	5527	[6540, 4848]	7576	[7863, 3449]
1430	[2402, 2403]	3479	[4837, 2316]	5528	[783, 6541]	7577	[7864, 1066]
1431	[2404, 846]	3480	[4185, 4838]	5529	[6542, 2529]	7578	[7865, 3515]
1432	[2405, 2406]	3481	[4839, 4840]	5530	[6543, 6427]	7579	[7866, 2958]
1433	[2407, 2408]	3482	[4841, 168]	5531	[4295, 2414]	7580	[3637, 5480]
1434	[869, 1842]	3483	[4842, 2351]	5532	[6544, 4072]	7581	[7867, 393]
1435	[2409, 2250]	3484	[4843, 3969]	5533	[6545, 3989]	7582	[7868, 3634]
1436	[2410, 2411]	3485	[201, 1964]	5534	[241, 4698]	7583	[1380, 1399]
1437	[2412, 2413]	3486	[4844, 2337]	5535	[6546, 645]	7584	[7869, 895]
1438	[2414, 557]	3487	[130, 4122]	5536	[2146, 2147]	7585	[7870, 7847]
1439	[2415, 687]	3488	[4845, 4089]	5537	[2329, 4042]	7586	[7344, 960]
1440	[2416, 2417]	3489	[4520, 179]	5538	[1840, 2517]	7587	[1191, 2605]
1441	[2418, 558]	3490	[2099, 4846]	5539	[6547, 3873]	7588	[3011, 372]
1442	[2419, 1970]	3491	[4847, 4410]	5540	[6548, 2213]	7589	[7871, 2989]
1443	[2420, 2421]	3492	[1996, 4848]	5541	[4502, 5121]	7590	[7872, 1020]
1444	[2422, 674]	3493	[575, 2521]	5542	[6549, 6468]	7591	[6165, 6029]
1445	[2423, 2424]	3494	[4849, 38]	5543	[6550, 4750]	7592	[2885, 3049]
1446	[2425, 2426]	3495	[2178, 34]	5544	[6551, 2148]	7593	[5797, 5259]
1447	[2427, 2428]	3496	[2417, 4850]	5545	[6552, 2560]	7594	[7873, 6125]
1448	[2429, 2430]	3497	[4851, 4852]	5546	[6553, 1893]	7595	[5580, 5472]
1449	[2431, 681]	3498	[4853, 1724]	5547	[4334, 6554]	7596	[2711, 3477]
1450	[2432, 2433]	3499	[2466, 4681]	5548	[4270, 2176]	7597	[5520, 7340]
1451	[2434, 2435]	3500	[48, 4854]	5549	[6555, 1820]	7598	[6135, 5923]
1452	[2436, 2437]	3501	[1876, 4855]	5550	[4242, 4346]	7599	[3013, 439]
1453	[2259, 537]	3502	[4740, 4856]	5551	[6556, 485]	7600	[7874, 1240]
1454	[1612, 2438]	3503	[4857, 4680]	5552	[6557, 720]	7601	[7875, 2936]
1455	[2439, 642]	3504	[4858, 4859]	5553	[755, 2202]	7602	[7876, 5687]
1456	[2440, 2441]	3505	[4860, 4604]	5554	[6558, 2317]	7603	[7877, 2684]
1457	[2170, 2442]	3506	[721, 1810]	5555	[2517, 5015]	7604	[3509, 1319]
1458	[2443, 2444]	3507	[4861, 1741]	5556	[6559, 4128]	7605	[7117, 1373]
1459	[2445, 2446]	3508	[4862, 1823]	5557	[6560, 767]	7606	[90, 2800]
1460	[1677, 1752]	3509	[4863, 4864]	5558	[4655, 4254]	7607	[3607, 1485]
1461	[753, 2447]	3510	[4865, 164]	5559	[6366, 4151]	7608	[5581, 5529]
1462	[2315, 1660]	3511	[495, 808]	5560	[3974, 1823]	7609	[7878, 2900]
1463	[2448, 2449]	3512	[4866, 759]	5561	[6561, 6562]	7610	[5450, 1293]
1464	[1871, 599]	3513	[176, 144]	5562	[6563, 3958]	7611	[7879, 7330]
1465	[2450, 633]	3514	[4867, 751]	5563	[6564, 238]	7612	[5690, 6161]
1466	[2451, 2452]	3515	[4868, 156]	5564	[6565, 180]	7613	[2954, 2878]
1467	[2453, 2454]	3516	[2478, 2446]	5565	[6396, 6451]	7614	[7880, 1499]
1468	[2455, 2456]	3517	[4869, 4870]	5566	[62, 1707]	7615	[7881, 3687]
1469	[2457, 2458]	3518	[4871, 4872]	5567	[4375, 4927]	7616	[3581, 7111]
1470	[2459, 2460]	3519	[4784, 2384]	5568	[6566, 6567]	7617	[6047, 2848]
1471	[2461, 2462]	3520	[134, 4873]	5569	[6568, 6569]	7618	[5998, 2802]
1472	[527, 2463]	3521	[4874, 4598]	5570	[6570, 4318]	7619	[7882, 3399]

1473	[2464, 2180]	3522	[4875, 4876]	5571	[6571, 4854]	7620	[975, 7883]
1474	[2465, 2466]	3523	[4877, 4405]	5572	[5007, 1641]	7621	[7884, 990]
1475	[2467, 2468]	3524	[2193, 565]	5573	[2012, 1903]	7622	[7885, 3526]
1476	[2469, 2211]	3525	[4878, 1804]	5574	[2390, 4532]	7623	[7886, 3608]
1477	[2470, 2010]	3526	[4879, 1996]	5575	[4119, 5082]	7624	[7887, 3344]
1478	[2471, 1949]	3527	[4880, 1664]	5576	[1725, 4402]	7625	[3448, 1378]
1479	[2463, 535]	3528	[4881, 1809]	5577	[4180, 776]	7626	[5487, 1165]
1480	[2472, 2473]	3529	[4882, 4059]	5578	[6572, 4413]	7627	[334, 5371]
1481	[2474, 1873]	3530	[4883, 4278]	5579	[6573, 6483]	7628	[3450, 5810]
1482	[2475, 2463]	3531	[1699, 4884]	5580	[6574, 6575]	7629	[3498, 384]
1483	[2476, 2458]	3532	[4885, 2005]	5581	[4297, 3963]	7630	[7888, 386]
1484	[2205, 1692]	3533	[2210, 4470]	5582	[6576, 6284]	7631	[3701, 2951]
1485	[2477, 2478]	3534	[4886, 3978]	5583	[6577, 209]	7632	[1464, 3594]
1486	[1789, 2479]	3535	[4887, 714]	5584	[6578, 4088]	7633	[7889, 1337]
1487	[2480, 1583]	3536	[4888, 4889]	5585	[6579, 6512]	7634	[3709, 106]
1488	[2481, 2482]	3537	[2003, 4126]	5586	[6580, 2078]	7635	[2701, 3281]
1489	[2483, 2406]	3538	[4890, 4454]	5587	[6581, 1989]	7636	[7890, 5206]
1490	[1901, 1640]	3539	[4891, 1974]	5588	[6582, 4387]	7637	[5397, 356]
1491	[2484, 2485]	3540	[4892, 150]	5589	[6583, 5147]	7638	[3363, 7050]
1492	[2486, 2487]	3541	[1975, 176]	5590	[691, 4610]	7639	[1102, 3118]
1493	[2488, 2489]	3542	[4893, 3993]	5591	[6584, 688]	7640	[7891, 1470]
1494	[2490, 2491]	3543	[4894, 4309]	5592	[4620, 683]	7641	[7892, 3705]
1495	[2492, 45]	3544	[4895, 4433]	5593	[5033, 2116]	7642	[954, 5628]
1496	[2493, 2004]	3545	[4896, 4008]	5594	[2277, 6585]	7643	[7893, 3387]
1497	[2494, 1968]	3546	[4774, 4426]	5595	[4530, 2289]	7644	[7894, 7198]
1498	[2495, 2496]	3547	[1820, 4152]	5596	[6586, 1598]	7645	[5828, 3463]
1499	[735, 2497]	3548	[4897, 4898]	5597	[6587, 198]	7646	[7895, 2990]
1500	[2498, 2499]	3549	[4899, 2324]	5598	[4695, 6262]	7647	[7896, 7213]
1501	[2500, 2501]	3550	[2075, 1852]	5599	[6588, 2577]	7648	[7897, 5525]
1502	[2502, 544]	3551	[4900, 1765]	5600	[4994, 6286]	7649	[5181, 1324]
1503	[2503, 2504]	3552	[4884, 4520]	5601	[6589, 4652]	7650	[7898, 1453]
1504	[2505, 641]	3553	[4122, 4901]	5602	[6590, 717]	7651	[7899, 5498]
1505	[2506, 760]	3554	[4902, 4051]	5603	[6591, 4176]	7652	[7900, 3749]
1506	[2507, 1602]	3555	[1650, 4761]	5604	[6592, 5076]	7653	[7901, 5792]
1507	[2508, 2509]	3556	[4903, 4147]	5605	[6593, 697]	7654	[6220, 3689]
1508	[2510, 2511]	3557	[4904, 4905]	5606	[6594, 4698]	7655	[1345, 3658]
1509	[2512, 2513]	3558	[4906, 1940]	5607	[6595, 2134]	7656	[7902, 3637]
1510	[2514, 2515]	3559	[2381, 1851]	5608	[515, 6456]	7657	[7903, 5759]
1511	[2516, 2517]	3560	[4907, 4417]	5609	[6596, 2354]	7658	[7904, 2706]
1512	[2518, 2028]	3561	[3936, 1657]	5610	[6597, 6598]	7659	[345, 82]
1513	[2519, 2520]	3562	[4908, 1925]	5611	[6506, 780]	7660	[7905, 90]
1514	[2521, 1834]	3563	[4909, 857]	5612	[4754, 6414]	7661	[7906, 1023]
1515	[2522, 1883]	3564	[4910, 4038]	5613	[6599, 4145]	7662	[7907, 5290]
1516	[727, 2090]	3565	[2446, 1778]	5614	[6600, 6601]	7663	[1175, 3449]

1517	[2523, 2524]	3566	[4911, 518]	5615	[195, 2230]	7664	[7908, 18]
1518	[2525, 2526]	3567	[4912, 4340]	5616	[6602, 6603]	7665	[7909, 369]
1519	[2527, 1776]	3568	[4083, 4913]	5617	[6604, 2378]	7666	[5378, 3275]
1520	[2528, 1778]	3569	[4914, 4915]	5618	[54, 6605]	7667	[7910, 1266]
1521	[2529, 2530]	3570	[4247, 578]	5619	[6606, 4987]	7668	[7423, 1296]
1522	[203, 2531]	3571	[2299, 2312]	5620	[6607, 2041]	7669	[2600, 3674]
1523	[2532, 2533]	3572	[4916, 4436]	5621	[6608, 4949]	7670	[1218, 3315]
1524	[2534, 2535]	3573	[875, 2341]	5622	[6609, 4324]	7671	[7911, 1486]
1525	[2536, 244]	3574	[4917, 741]	5623	[6610, 2568]	7672	[5492, 97]
1526	[2537, 2538]	3575	[4918, 1730]	5624	[6611, 562]	7673	[7912, 3055]
1527	[2539, 2254]	3576	[4919, 3940]	5625	[6612, 739]	7674	[7913, 3050]
1528	[2540, 1912]	3577	[4920, 1953]	5626	[6613, 587]	7675	[7914, 2833]
1529	[842, 2541]	3578	[4219, 4921]	5627	[6614, 2214]	7676	[2619, 3580]
1530	[491, 1907]	3579	[4922, 4691]	5628	[6615, 1797]	7677	[7915, 1192]
1531	[2542, 2]	3580	[4923, 4347]	5629	[4496, 6616]	7678	[7916, 2719]
1532	[2543, 1864]	3581	[4924, 1733]	5630	[4982, 159]	7679	[7917, 1424]
1533	[1805, 2544]	3582	[4925, 4908]	5631	[6617, 840]	7680	[5451, 2917]
1534	[2545, 550]	3583	[4926, 4927]	5632	[6618, 4408]	7681	[7918, 2969]
1535	[2546, 1615]	3584	[4928, 4761]	5633	[6619, 4709]	7682	[7919, 3291]
1536	[2547, 2135]	3585	[4929, 1867]	5634	[6620, 2040]	7683	[7920, 886]
1537	[42, 502]	3586	[4110, 1995]	5635	[2077, 136]	7684	[7921, 3159]
1538	[1811, 2548]	3587	[4345, 1945]	5636	[6621, 4589]	7685	[7922, 1168]
1539	[2549, 234]	3588	[4930, 2462]	5637	[6451, 214]	7686	[7923, 2773]
1540	[2550, 2551]	3589	[4931, 4932]	5638	[4498, 2136]	7687	[3370, 7074]
1541	[2552, 2553]	3590	[4933, 1936]	5639	[6622, 4299]	7688	[6029, 1410]
1542	[2554, 2555]	3591	[4934, 2207]	5640	[4035, 3947]	7689	[5327, 5290]
1543	[2556, 674]	3592	[4935, 2105]	5641	[6623, 4117]	7690	[7924, 2879]
1544	[2557, 2558]	3593	[4936, 4374]	5642	[6624, 1738]	7691	[7140, 5632]
1545	[2559, 1767]	3594	[4937, 4349]	5643	[152, 4035]	7692	[7925, 24]
1546	[761, 2560]	3595	[599, 4515]	5644	[6625, 2032]	7693	[7926, 7286]
1547	[2021, 2561]	3596	[138, 4792]	5645	[6626, 4414]	7694	[7927, 1009]
1548	[2562, 2563]	3597	[4938, 2411]	5646	[6601, 6603]	7695	[7928, 3854]
1549	[1994, 2564]	3598	[4939, 4550]	5647	[2580, 6533]	7696	[5704, 7498]
1550	[2565, 2566]	3599	[4467, 4940]	5648	[6627, 750]	7697	[7929, 5217]
1551	[2567, 2568]	3600	[4941, 3878]	5649	[2563, 6628]	7698	[7340, 325]
1552	[50, 2569]	3601	[4942, 2032]	5650	[6629, 4470]	7699	[7930, 29]
1553	[2570, 1717]	3602	[4291, 2044]	5651	[4564, 2039]	7700	[7931, 2948]
1554	[2571, 1874]	3603	[4943, 3937]	5652	[1869, 6630]	7701	[5268, 3364]
1555	[2572, 2573]	3604	[4944, 2147]	5653	[6631, 4127]	7702	[7932, 2937]
1556	[2574, 2575]	3605	[4945, 2543]	5654	[6632, 6633]	7703	[3360, 5805]
1557	[2576, 2093]	3606	[4946, 4568]	5655	[6634, 1989]	7704	[1471, 1107]
1558	[2577, 2578]	3607	[4492, 4947]	5656	[1748, 4050]	7705	[6081, 7039]
1559	[2176, 2579]	3608	[4948, 4898]	5657	[4709, 4864]	7706	[7933, 457]
1560	[2184, 504]	3609	[4596, 4813]	5658	[6635, 6490]	7707	[7934, 2693]

1561	[2187, 2580]	3610	[2261, 4734]	5659	[6636, 1725]	7708	[7935, 1085]
1562	[2581, 412]	3611	[2041, 844]	5660	[4168, 2502]	7709	[7936, 3343]
1563	[2582, 2583]	3612	[4306, 2268]	5661	[6637, 4768]	7710	[7937, 2852]
1564	[1315, 2584]	3613	[2265, 4949]	5662	[4968, 1570]	7711	[7938, 5295]
1565	[2585, 2586]	3614	[1695, 56]	5663	[6638, 1792]	7712	[5956, 3693]
1566	[2587, 2588]	3615	[2444, 4950]	5664	[6639, 6640]	7713	[1361, 5456]
1567	[2589, 2590]	3616	[3878, 4711]	5665	[6641, 801]	7714	[7939, 5808]
1568	[2591, 1082]	3617	[4951, 2250]	5666	[6642, 3977]	7715	[966, 3708]
1569	[1475, 2592]	3618	[4952, 4523]	5667	[1671, 2184]	7716	[2997, 3526]
1570	[2593, 2594]	3619	[4953, 2203]	5668	[6643, 841]	7717	[7940, 5746]
1571	[2595, 2596]	3620	[4954, 2536]	5669	[6644, 6537]	7718	[3599, 449]
1572	[2597, 2598]	3621	[1777, 3901]	5670	[4856, 3873]	7719	[7941, 5782]
1573	[2599, 2600]	3622	[4955, 4534]	5671	[6645, 2497]	7720	[5744, 3792]
1574	[2601, 2602]	3623	[4956, 4957]	5672	[6646, 2485]	7721	[7942, 3592]
1575	[2603, 2604]	3624	[4958, 4182]	5673	[2289, 4651]	7722	[3813, 998]
1576	[2605, 2606]	3625	[4959, 1875]	5674	[4350, 4457]	7723	[7943, 950]
1577	[2607, 2608]	3626	[4960, 4445]	5675	[4797, 213]	7724	[7944, 3816]
1578	[2609, 301]	3627	[501, 4421]	5676	[4045, 861]	7725	[7945, 7883]
1579	[2610, 1399]	3628	[1828, 4961]	5677	[3876, 6647]	7726	[7946, 3340]
1580	[2611, 2612]	3629	[4962, 4620]	5678	[5116, 5046]	7727	[7947, 3702]
1581	[2613, 1391]	3630	[4963, 4557]	5679	[4289, 4706]	7728	[7948, 1538]
1582	[2614, 2615]	3631	[170, 4964]	5680	[6648, 5094]	7729	[3262, 104]
1583	[1461, 79]	3632	[4965, 4966]	5681	[6649, 4164]	7730	[7949, 1044]
1584	[2616, 2617]	3633	[4967, 4968]	5682	[4671, 2193]	7731	[7950, 385]
1585	[2618, 2619]	3634	[1919, 837]	5683	[6650, 4386]	7732	[7951, 1483]
1586	[2620, 2621]	3635	[1599, 4270]	5684	[6309, 1790]	7733	[82, 1015]
1587	[2622, 984]	3636	[4969, 2278]	5685	[719, 6651]	7734	[5808, 5693]
1588	[2623, 292]	3637	[4970, 703]	5686	[6652, 4876]	7735	[1058, 5402]
1589	[2624, 2625]	3638	[4971, 1995]	5687	[5121, 195]	7736	[2723, 7142]
1590	[2626, 2627]	3639	[4972, 4878]	5688	[1791, 6653]	7737	[3790, 5580]
1591	[2628, 2629]	3640	[4973, 4213]	5689	[6654, 4418]	7738	[7952, 1559]
1592	[2630, 121]	3641	[4445, 4464]	5690	[3883, 1736]	7739	[3835, 6008]
1593	[2631, 2630]	3642	[4974, 611]	5691	[3928, 3968]	7740	[5593, 3112]
1594	[2632, 119]	3643	[4825, 673]	5692	[2401, 4171]	7741	[7953, 7175]
1595	[2633, 2628]	3644	[2168, 4975]	5693	[6655, 4101]	7742	[3444, 5998]
1596	[2634, 2635]	3645	[4976, 878]	5694	[1988, 643]	7743	[7954, 5538]
1597	[2636, 327]	3646	[4977, 4978]	5695	[3997, 6656]	7744	[7955, 3177]
1598	[2637, 2638]	3647	[1932, 4169]	5696	[6657, 2257]	7745	[2971, 266]
1599	[2639, 1222]	3648	[2337, 4979]	5697	[6658, 5016]	7746	[7956, 1191]
1600	[2640, 2641]	3649	[4980, 2231]	5698	[6659, 3871]	7747	[7957, 1407]
1601	[412, 2642]	3650	[4981, 4350]	5699	[4279, 6660]	7748	[7958, 3225]
1602	[2643, 2644]	3651	[629, 4982]	5700	[4117, 250]	7749	[7959, 6184]
1603	[2645, 2646]	3652	[4833, 854]	5701	[862, 726]	7750	[96, 3733]
1604	[2647, 2648]	3653	[2031, 4983]	5702	[6661, 662]	7751	[6109, 3306]

1605	[2649, 2650]	3654	[4984, 4985]	5703	[6662, 1790]	7752	[5759, 1299]
1606	[2651, 2652]	3655	[132, 1689]	5704	[6663, 2221]	7753	[7960, 3559]
1607	[2653, 2654]	3656	[4986, 1898]	5705	[6664, 47]	7754	[7961, 298]
1608	[2655, 2656]	3657	[4830, 4987]	5706	[6665, 5026]	7755	[7962, 973]
1609	[2657, 2658]	3658	[4988, 503]	5707	[2544, 6298]	7756	[7963, 3194]
1610	[2659, 2660]	3659	[4989, 716]	5708	[6666, 1913]	7757	[6228, 1158]
1611	[2661, 2662]	3660	[607, 4990]	5709	[6667, 4990]	7758	[3389, 6135]
1612	[2663, 472]	3661	[4991, 830]	5710	[1966, 830]	7759	[7131, 3368]
1613	[2664, 297]	3662	[4992, 2272]	5711	[2385, 6481]	7760	[7964, 2834]
1614	[2665, 2666]	3663	[4993, 4994]	5712	[6668, 6327]	7761	[7965, 2922]
1615	[2667, 2668]	3664	[787, 4995]	5713	[1890, 6669]	7762	[7966, 2830]
1616	[2669, 2670]	3665	[844, 1567]	5714	[6670, 2314]	7763	[5801, 3106]
1617	[2671, 2672]	3666	[4996, 1929]	5715	[4458, 6512]	7764	[7311, 5709]
1618	[2673, 2674]	3667	[4997, 2310]	5716	[6671, 762]	7765	[7967, 1324]
1619	[2675, 2676]	3668	[2257, 4998]	5717	[6672, 4789]	7766	[7968, 938]
1620	[1278, 2677]	3669	[4999, 4290]	5718	[2017, 4214]	7767	[5231, 5973]
1621	[2678, 1278]	3670	[5000, 4385]	5719	[6407, 4687]	7768	[7969, 5789]
1622	[2679, 2680]	3671	[5001, 2459]	5720	[1883, 1670]	7769	[7970, 1529]
1623	[2681, 2607]	3672	[5002, 1593]	5721	[6673, 2034]	7770	[5449, 417]
1624	[2682, 2683]	3673	[5003, 5004]	5722	[6674, 6675]	7771	[7971, 1105]
1625	[2684, 2685]	3674	[5005, 2110]	5723	[4957, 6330]	7772	[983, 3838]
1626	[1549, 2686]	3675	[5006, 5007]	5724	[4950, 6562]	7773	[6034, 3321]
1627	[2687, 2688]	3676	[4352, 651]	5725	[4240, 1652]	7774	[7972, 5324]
1628	[2689, 2690]	3677	[5008, 5009]	5726	[6676, 6477]	7775	[1140, 1509]
1629	[2691, 2692]	3678	[5010, 4017]	5727	[703, 1620]	7776	[3251, 1123]
1630	[2693, 1435]	3679	[5011, 2240]	5728	[6677, 4194]	7777	[7973, 3270]
1631	[2694, 2695]	3680	[5012, 4547]	5729	[6678, 4108]	7778	[3087, 5853]
1632	[2696, 2697]	3681	[5013, 5014]	5730	[6679, 4977]	7779	[417, 3732]
1633	[2698, 2699]	3682	[5015, 4535]	5731	[6680, 4189]	7780	[7974, 5599]
1634	[2700, 2701]	3683	[4735, 5016]	5732	[6681, 1859]	7781	[3477, 3200]
1635	[2702, 2703]	3684	[677, 4397]	5733	[6682, 489]	7782	[5349, 281]
1636	[2704, 304]	3685	[2513, 5017]	5734	[2408, 4624]	7783	[7975, 1336]
1637	[2705, 1223]	3686	[5018, 4975]	5735	[6683, 2095]	7784	[7976, 2671]
1638	[337, 2706]	3687	[592, 5019]	5736	[1878, 4194]	7785	[7042, 1469]
1639	[2707, 270]	3688	[5020, 1886]	5737	[6684, 4439]	7786	[7977, 2863]
1640	[2708, 2703]	3689	[5021, 669]	5738	[809, 593]	7787	[2641, 3560]
1641	[74, 2709]	3690	[5022, 4473]	5739	[6685, 4642]	7788	[7978, 263]
1642	[2710, 2711]	3691	[5023, 1652]	5740	[6686, 1994]	7789	[3237, 1539]
1643	[2712, 2713]	3692	[5024, 51]	5741	[6687, 3919]	7790	[7979, 2653]
1644	[2714, 2715]	3693	[5025, 4395]	5742	[6688, 4258]	7791	[7980, 3406]
1645	[2716, 2717]	3694	[4940, 2504]	5743	[789, 6689]	7792	[7981, 3814]
1646	[2718, 2719]	3695	[5026, 1871]	5744	[6690, 4267]	7793	[3587, 6150]
1647	[2720, 2721]	3696	[5027, 4556]	5745	[1859, 6275]	7794	[7982, 3485]
1648	[2722, 2723]	3697	[5028, 1828]	5746	[6691, 1884]	7795	[7983, 1307]

1649	[2724, 2725]	3698	[5029, 862]	5747	[6692, 2379]	7796	[7984, 3818]
1650	[2726, 2727]	3699	[2317, 4577]	5748	[6262, 4555]	7797	[7985, 7441]
1651	[2728, 2729]	3700	[5030, 1918]	5749	[6693, 2063]	7798	[1078, 2931]
1652	[2730, 2582]	3701	[5031, 3915]	5750	[6694, 6695]	7799	[3032, 3291]
1653	[2731, 2732]	3702	[2579, 4395]	5751	[6696, 4119]	7800	[5372, 2769]
1654	[2733, 2734]	3703	[5032, 4656]	5752	[6697, 804]	7801	[7986, 437]
1655	[2735, 1438]	3704	[4840, 5033]	5753	[2064, 5055]	7802	[7987, 3464]
1656	[2736, 2737]	3705	[5034, 4695]	5754	[6698, 6699]	7803	[2924, 1115]
1657	[2738, 2739]	3706	[5035, 5036]	5755	[4145, 31]	7804	[7988, 2881]
1658	[114, 2740]	3707	[4250, 1763]	5756	[6700, 2167]	7805	[2918, 2961]
1659	[2741, 2742]	3708	[5037, 1596]	5757	[6701, 6653]	7806	[3548, 7283]
1660	[2743, 948]	3709	[1708, 1691]	5758	[6702, 2535]	7807	[7989, 426]
1661	[2744, 359]	3710	[557, 5038]	5759	[6490, 1738]	7808	[7990, 1387]
1662	[2745, 2746]	3711	[5039, 1813]	5760	[6703, 2286]	7809	[7991, 3096]
1663	[2747, 1170]	3712	[5040, 4871]	5761	[6704, 1971]	7810	[7992, 258]
1664	[2748, 2749]	3713	[5041, 1662]	5762	[6705, 545]	7811	[7993, 3005]
1665	[2750, 451]	3714	[1663, 1816]	5763	[2501, 6706]	7812	[7994, 1350]
1666	[2751, 2752]	3715	[5042, 5043]	5764	[6707, 6706]	7813	[7995, 2864]
1667	[2753, 364]	3716	[5044, 4136]	5765	[6708, 4357]	7814	[7996, 3516]
1668	[2754, 2755]	3717	[5045, 5046]	5766	[6709, 4672]	7815	[7997, 5266]
1669	[2756, 1092]	3718	[5047, 5048]	5767	[6710, 1858]	7816	[5262, 7124]
1670	[2757, 2758]	3719	[5049, 4964]	5768	[6711, 6458]	7817	[3676, 7117]
1671	[2759, 2760]	3720	[4392, 2448]	5769	[6712, 5080]	7818	[7998, 5354]
1672	[2761, 2762]	3721	[4153, 1993]	5770	[6713, 4806]	7819	[7999, 5231]
1673	[2763, 2764]	3722	[687, 4559]	5771	[6714, 5134]	7820	[8000, 15]
1674	[2765, 1091]	3723	[5050, 4078]	5772	[6715, 689]	7821	[8001, 2996]
1675	[2686, 2766]	3724	[5051, 2125]	5773	[6716, 6717]	7822	[5559, 3488]
1676	[2767, 2768]	3725	[5052, 2132]	5774	[6718, 4706]	7823	[5390, 285]
1677	[2769, 981]	3726	[567, 4649]	5775	[4764, 4543]	7824	[2646, 3508]
1678	[2770, 2771]	3727	[5053, 2202]	5776	[6421, 1631]	7825	[8002, 3839]
1679	[2772, 2773]	3728	[5054, 5055]	5777	[6719, 628]	7826	[2809, 2789]
1680	[2774, 355]	3729	[5056, 4856]	5778	[6720, 4973]	7827	[1304, 5203]
1681	[2775, 2776]	3730	[5057, 2191]	5779	[14, 1682]	7828	[5249, 3206]
1682	[2777, 2778]	3731	[5058, 1810]	5780	[6721, 6364]	7829	[8003, 3752]
1683	[2779, 70]	3732	[5059, 5060]	5781	[4456, 617]	7830	[8004, 3621]
1684	[2780, 2765]	3733	[5061, 531]	5782	[6722, 727]	7831	[8005, 1146]
1685	[2781, 2782]	3734	[5062, 4702]	5783	[6723, 6724]	7832	[446, 3475]
1686	[2783, 2784]	3735	[5063, 2118]	5784	[6725, 6726]	7833	[8006, 3629]
1687	[1127, 2785]	3736	[5064, 4661]	5785	[6727, 668]	7834	[8007, 278]
1688	[2786, 2787]	3737	[5065, 2168]	5786	[6728, 6729]	7835	[1204, 258]
1689	[2788, 2789]	3738	[5066, 808]	5787	[6730, 1668]	7836	[8008, 125]
1690	[2785, 2790]	3739	[5067, 1777]	5788	[2413, 2249]	7837	[8009, 268]
1691	[2791, 2733]	3740	[4947, 3952]	5789	[6731, 692]	7838	[8010, 3626]
1692	[2792, 2793]	3741	[4711, 5068]	5790	[6732, 1845]	7839	[8011, 1406]

1693	[2794, 1474]	3742	[5069, 4676]	5791	[6733, 4183]	7840	[5364, 1060]
1694	[2795, 1173]	3743	[5070, 1838]	5792	[6734, 4630]	7841	[3805, 6125]
1695	[2796, 2797]	3744	[5071, 603]	5793	[6735, 3908]	7842	[5395, 407]
1696	[2798, 2760]	3745	[5072, 4197]	5794	[6736, 4254]	7843	[5324, 3240]
1697	[2799, 2800]	3746	[5073, 655]	5795	[2060, 5014]	7844	[8012, 3247]
1698	[2648, 2801]	3747	[5074, 4574]	5796	[6737, 4272]	7845	[8013, 984]
1699	[2802, 2803]	3748	[2411, 2242]	5797	[6738, 651]	7846	[7797, 4199]
1700	[2804, 933]	3749	[1750, 2370]	5798	[1905, 5160]	7847	[8014, 2071]
1701	[2805, 1472]	3750	[5075, 5076]	5799	[876, 5034]	7848	[1773, 4401]
1702	[2806, 2807]	3751	[4565, 4844]	5800	[6739, 2098]	7849	[8015, 7741]
1703	[2808, 2809]	3752	[4598, 2345]	5801	[2278, 707]	7850	[551, 1586]
1704	[2737, 2810]	3753	[4876, 499]	5802	[2182, 6740]	7851	[7024, 2430]
1705	[2811, 2812]	3754	[5077, 4388]	5803	[6741, 4338]	7852	[4813, 709]
1706	[2813, 2814]	3755	[5078, 3973]	5804	[5154, 2480]	7853	[8016, 4217]
1707	[1057, 2791]	3756	[5079, 4016]	5805	[6742, 2562]	7854	[8017, 7013]
1708	[1110, 2710]	3757	[4452, 3966]	5806	[6743, 6628]	7855	[6749, 1727]
1709	[2815, 2696]	3758	[1938, 5080]	5807	[6744, 4794]	7856	[8018, 6266]
1710	[2816, 1114]	3759	[3923, 198]	5808	[6745, 2334]	7857	[8019, 167]
1711	[2817, 2818]	3760	[5081, 5082]	5809	[6746, 1607]	7858	[8020, 2053]
1712	[2819, 2820]	3761	[5083, 4500]	5810	[6747, 4735]	7859	[6496, 4865]
1713	[2821, 2822]	3762	[199, 2538]	5811	[6748, 4222]	7860	[8021, 2055]
1714	[2823, 1373]	3763	[5084, 4471]	5812	[235, 4833]	7861	[8022, 8023]
1715	[2824, 1090]	3764	[5085, 2242]	5813	[4815, 6749]	7862	[8024, 2016]
1716	[2825, 2826]	3765	[5086, 4784]	5814	[6750, 4319]	7863	[4477, 6498]
1717	[2827, 2828]	3766	[5087, 4404]	5815	[6751, 4660]	7864	[8025, 6888]
1718	[2829, 2830]	3767	[5088, 1775]	5816	[6752, 6753]	7865	[8026, 6935]
1719	[2831, 2832]	3768	[5089, 812]	5817	[6754, 6380]	7866	[2043, 2264]
1720	[2833, 2834]	3769	[5090, 1739]	5818	[6755, 4839]	7867	[8027, 742]
1721	[2835, 2836]	3770	[5091, 798]	5819	[1851, 5147]	7868	[6462, 6808]
1722	[2837, 1441]	3771	[5092, 5093]	5820	[6756, 1722]	7869	[3957, 6506]
1723	[2838, 2839]	3772	[4378, 5094]	5821	[5113, 4018]	7870	[8028, 6500]
1724	[2840, 2652]	3773	[5095, 4770]	5822	[6757, 2128]	7871	[8029, 127]
1725	[2841, 2842]	3774	[5096, 4407]	5823	[596, 5132]	7872	[8030, 4497]
1726	[2843, 2844]	3775	[5097, 2545]	5824	[6758, 788]	7873	[8031, 5068]
1727	[2845, 2846]	3776	[5098, 2450]	5825	[6759, 1573]	7874	[8032, 7810]
1728	[1524, 2847]	3777	[5099, 4703]	5826	[6760, 190]	7875	[7768, 4955]
1729	[2848, 2849]	3778	[5100, 3910]	5827	[6761, 2323]	7876	[8033, 167]
1730	[2850, 275]	3779	[5101, 4528]	5828	[1756, 6715]	7877	[4235, 4012]
1731	[2851, 2768]	3780	[5102, 5103]	5829	[6762, 6763]	7878	[8034, 5118]
1732	[68, 1118]	3781	[2551, 5073]	5830	[6764, 4666]	7879	[6651, 2522]
1733	[1162, 1547]	3782	[5104, 2423]	5831	[6765, 4689]	7880	[8023, 6572]
1734	[1164, 2852]	3783	[5105, 3994]	5832	[6766, 2566]	7881	[6529, 777]
1735	[2853, 1549]	3784	[4852, 5106]	5833	[6360, 6346]	7882	[8035, 7585]
1736	[2854, 2855]	3785	[5107, 1718]	5834	[6767, 1829]	7883	[8036, 790]

1737	[2709, 2856]	3786	[5108, 1721]	5835	[6768, 6769]	7884	[8037, 4950]
1738	[2857, 28]	3787	[2379, 4737]	5836	[6770, 4540]	7885	[1936, 6429]
1739	[1365, 2732]	3788	[5109, 4802]	5837	[6771, 2230]	7886	[2, 4662]
1740	[2858, 2859]	3789	[5110, 3950]	5838	[1607, 1896]	7887	[4321, 6419]
1741	[2860, 1202]	3790	[2138, 5111]	5839	[6772, 4364]	7888	[2156, 6555]
1742	[2861, 2759]	3791	[5112, 5113]	5840	[2437, 4930]	7889	[7765, 7648]
1743	[2862, 2841]	3792	[5114, 4090]	5841	[6773, 1887]	7890	[6569, 196]
1744	[2863, 1228]	3793	[5115, 5116]	5842	[12, 6774]	7891	[8038, 4682]
1745	[2864, 2865]	3794	[5117, 609]	5843	[6660, 1854]	7892	[2124, 4208]
1746	[2866, 2867]	3795	[5118, 4030]	5844	[2362, 4260]	7893	[5148, 6567]
1747	[2868, 295]	3796	[5119, 2122]	5845	[6775, 2054]	7894	[8039, 6988]
1748	[2869, 2822]	3797	[5120, 5121]	5846	[2270, 4660]	7895	[8040, 4873]
1749	[319, 2870]	3798	[5122, 4995]	5847	[6776, 4113]	7896	[2376, 4281]
1750	[2871, 2872]	3799	[2269, 4483]	5848	[6777, 1692]	7897	[509, 4195]
1751	[2706, 2873]	3800	[5123, 5124]	5849	[4081, 4237]	7898	[8041, 4588]
1752	[2768, 2874]	3801	[499, 5125]	5850	[1917, 3895]	7899	[6769, 4013]
1753	[914, 2875]	3802	[5126, 5028]	5851	[6778, 3885]	7900	[8042, 5075]
1754	[2876, 346]	3803	[807, 4874]	5852	[5094, 6515]	7901	[8043, 4960]
1755	[1350, 2877]	3804	[1673, 1861]	5853	[6779, 60]	7902	[8044, 7648]
1756	[2878, 2879]	3805	[5127, 4467]	5854	[6780, 6781]	7903	[8045, 6499]
1757	[2880, 1007]	3806	[4290, 4088]	5855	[1799, 2433]	7904	[5157, 6600]
1758	[2881, 1257]	3807	[5128, 2044]	5856	[2458, 6323]	7905	[8046, 4979]
1759	[2617, 2882]	3808	[5129, 4420]	5857	[6782, 1737]	7906	[8047, 5174]
1760	[2883, 1414]	3809	[5004, 3941]	5858	[6783, 4429]	7907	[8048, 6353]
1761	[2884, 2885]	3810	[5130, 749]	5859	[6784, 1934]	7908	[4998, 4428]
1762	[2886, 2887]	3811	[5131, 5132]	5860	[1591, 2476]	7909	[4579, 698]
1763	[2758, 2888]	3812	[5133, 4647]	5861	[6785, 6483]	7910	[4342, 7682]
1764	[1545, 2889]	3813	[5134, 606]	5862	[621, 3931]	7911	[231, 7706]
1765	[2771, 2890]	3814	[1780, 783]	5863	[2235, 4332]	7912	[4268, 6327]
1766	[2891, 2892]	3815	[5135, 5136]	5864	[6786, 1714]	7913	[8049, 4956]
1767	[2893, 2894]	3816	[2113, 4644]	5865	[2228, 6312]	7914	[8050, 4188]
1768	[2895, 2896]	3817	[5137, 621]	5866	[4901, 2366]	7915	[7771, 7719]
1769	[2897, 2898]	3818	[2578, 5138]	5867	[4873, 6787]	7916	[5082, 6344]
1770	[1251, 2899]	3819	[2116, 5139]	5868	[6319, 2224]	7917	[571, 7771]
1771	[80, 2600]	3820	[5140, 4071]	5869	[2026, 4324]	7918	[851, 1622]
1772	[1186, 2900]	3821	[4772, 4794]	5870	[4285, 1866]	7919	[8051, 1700]
1773	[2901, 2700]	3822	[5141, 4465]	5871	[6788, 1954]	7920	[2395, 6766]
1774	[2902, 1220]	3823	[5142, 5111]	5872	[6789, 2460]	7921	[6313, 7653]
1775	[2903, 2904]	3824	[5143, 4261]	5873	[6790, 1960]	7922	[8052, 4262]
1776	[2905, 2906]	3825	[5144, 2398]	5874	[6791, 6323]	7923	[863, 4138]
1777	[2907, 2908]	3826	[5145, 2495]	5875	[6792, 4921]	7924	[8053, 2238]
1778	[2909, 1427]	3827	[542, 4977]	5876	[6793, 4731]	7925	[4287, 4080]
1779	[1030, 1414]	3828	[5146, 2121]	5877	[4319, 766]	7926	[6298, 2092]
1780	[2910, 2911]	3829	[5147, 5103]	5878	[6794, 1990]	7927	[8054, 6314]

1781	[2912, 2913]	3830	[4405, 1581]	5879	[6795, 761]	7928	[2119, 2419]
1782	[2739, 15]	3831	[743, 5148]	5880	[6796, 1621]	7929	[597, 631]
1783	[2914, 357]	3832	[731, 2319]	5881	[6797, 4901]	7930	[4429, 61]
1784	[2915, 2916]	3833	[5149, 3903]	5882	[6798, 4587]	7931	[8055, 4138]
1785	[2917, 2918]	3834	[52, 4435]	5883	[6799, 4287]	7932	[8056, 6719]
1786	[2919, 2920]	3835	[2509, 2330]	5884	[1640, 2456]	7933	[8057, 852]
1787	[2921, 2922]	3836	[5150, 4208]	5885	[6800, 4332]	7934	[8058, 2409]
1788	[2923, 2924]	3837	[5151, 3958]	5886	[5103, 2122]	7935	[1973, 127]
1789	[2925, 2926]	3838	[5152, 1623]	5887	[215, 3977]	7936	[8059, 4428]
1790	[2927, 2802]	3839	[8, 4839]	5888	[871, 2276]	7937	[1934, 6514]
1791	[2928, 2929]	3840	[5153, 35]	5889	[6801, 206]	7938	[8060, 1825]
1792	[2930, 2931]	3841	[4707, 5154]	5890	[6802, 4355]	7939	[7035, 6888]
1793	[2932, 2933]	3842	[5155, 2315]	5891	[6803, 853]	7940	[6373, 1743]
1794	[2934, 1008]	3843	[5156, 648]	5892	[3942, 5009]	7941	[8061, 2522]
1795	[2666, 2935]	3844	[5093, 5157]	5893	[6804, 37]	7942	[8062, 496]
1796	[2920, 2936]	3845	[5158, 511]	5894	[6805, 1958]	7943	[8063, 6749]
1797	[2937, 2938]	3846	[5159, 4749]	5895	[1998, 2245]	7944	[8064, 4421]
1798	[1513, 1501]	3847	[5160, 1872]	5896	[6806, 1976]	7945	[166, 7622]
1799	[2939, 2940]	3848	[5161, 1993]	5897	[6807, 794]	7946	[6500, 4168]
1800	[2941, 1116]	3849	[5162, 4009]	5898	[4680, 2235]	7947	[8065, 6808]
1801	[2942, 1398]	3850	[4046, 4915]	5899	[6808, 5062]	7948	[8066, 4135]
1802	[2943, 2944]	3851	[5163, 5048]	5900	[4298, 6809]	7949	[8067, 2157]
1803	[2945, 2946]	3852	[5164, 1852]	5901	[6810, 6660]	7950	[8068, 728]
1804	[2947, 2948]	3853	[4023, 4574]	5902	[4915, 6729]	7951	[8069, 35]
1805	[2949, 2950]	3854	[5165, 1968]	5903	[1874, 5133]	7952	[2029, 7585]
1806	[2951, 2952]	3855	[5166, 1847]	5904	[1579, 1706]	7953	[6585, 5159]
1807	[2953, 2954]	3856	[5167, 5168]	5905	[2129, 6811]	7954	[8070, 4044]
1808	[2955, 2956]	3857	[2283, 5169]	5906	[6812, 757]	7955	[8071, 6963]
1809	[2957, 2958]	3858	[5170, 4751]	5907	[6813, 591]	7956	[8072, 5015]
1810	[2959, 982]	3859	[5171, 4011]	5908	[6814, 4423]	7957	[4652, 2391]
1811	[2960, 2661]	3860	[5172, 2442]	5909	[6815, 1885]	7958	[4675, 8023]
1812	[2961, 2962]	3861	[5173, 831]	5910	[4737, 6717]	7959	[2007, 4645]
1813	[2596, 1470]	3862	[5174, 4367]	5911	[6816, 4678]	7960	[8073, 7002]
1814	[2963, 1440]	3863	[4607, 4908]	5912	[6817, 4553]	7961	[8074, 7019]
1815	[2964, 2965]	3864	[5175, 2084]	5913	[6818, 3998]	7962	[6896, 4551]
1816	[2746, 1138]	3865	[1716, 4242]	5914	[6819, 4068]	7963	[8075, 698]
1817	[2966, 2967]	3866	[5176, 842]	5915	[4178, 6415]	7964	[8076, 2264]
1818	[2968, 2969]	3867	[5177, 1992]	5916	[6820, 3976]	7965	[8077, 6513]
1819	[2970, 2971]	3868	[2272, 4659]	5917	[2222, 481]	7966	[8078, 1571]
1820	[2972, 2973]	3869	[5178, 3319]	5918	[673, 806]	7967	[4905, 4608]
1821	[2974, 999]	3870	[2962, 883]	5919	[2160, 6821]	7968	[8079, 4177]
1822	[2975, 423]	3871	[5179, 2808]	5920	[661, 6822]	7969	[1758, 690]
1823	[2976, 2977]	3872	[5180, 5181]	5921	[6823, 4476]	7970	[4759, 7749]
1824	[448, 2978]	3873	[5182, 3027]	5922	[6824, 128]	7971	[8080, 4358]

1825	[2979, 2847]	3874	[2994, 5183]	5923	[6825, 3959]	7972	[8081, 6333]
1826	[2980, 2981]	3875	[5184, 5185]	5924	[6826, 6809]	7973	[6292, 2189]
1827	[2982, 2983]	3876	[2826, 5186]	5925	[6827, 245]	7974	[4626, 1702]
1828	[2879, 1306]	3877	[5187, 5188]	5926	[2355, 3989]	7975	[8082, 2279]
1829	[2984, 2985]	3878	[5189, 5190]	5927	[6828, 2414]	7976	[8083, 6348]
1830	[1291, 2986]	3879	[5191, 5192]	5928	[638, 40]	7977	[1992, 1948]
1831	[2987, 351]	3880	[5193, 3495]	5929	[4836, 1571]	7978	[8084, 522]
1832	[2988, 2989]	3881	[5194, 5195]	5930	[4282, 4878]	7979	[8085, 7622]
1833	[2990, 315]	3882	[5196, 2854]	5931	[5076, 4262]	7980	[8086, 1896]
1834	[2991, 2992]	3883	[5197, 3003]	5932	[2231, 4824]	7981	[7014, 784]
1835	[2993, 2994]	3884	[5198, 1505]	5933	[2520, 6507]	7982	[1689, 6573]
1836	[2995, 893]	3885	[5199, 996]	5934	[6829, 217]	7983	[2128, 2238]
1837	[2996, 2997]	3886	[361, 5200]	5935	[6830, 6831]	7984	[2097, 6652]
1838	[2998, 2858]	3887	[5201, 1481]	5936	[6487, 2035]	7985	[6357, 4188]
1839	[1014, 2999]	3888	[435, 119]	5937	[6832, 4047]	7986	[535, 6963]
1840	[3000, 3001]	3889	[5202, 3469]	5938	[2541, 2329]	7987	[8087, 6766]
1841	[3002, 3003]	3890	[5203, 3734]	5939	[6833, 4850]	7988	[505, 2164]
1842	[2981, 1487]	3891	[5204, 5205]	5940	[6834, 4498]	7989	[8088, 6479]
1843	[3004, 374]	3892	[5206, 5207]	5941	[6835, 6746]	7990	[8089, 7797]
1844	[3005, 3006]	3893	[5208, 3631]	5942	[6836, 4487]	7991	[8090, 6959]
1845	[3007, 2809]	3894	[976, 2828]	5943	[6837, 2472]	7992	[685, 494]
1846	[3008, 1353]	3895	[5209, 5210]	5944	[6838, 1708]	7993	[8091, 5137]
1847	[3009, 3010]	3896	[5211, 2660]	5945	[6478, 6643]	7994	[8092, 7578]
1848	[1173, 3011]	3897	[5212, 1186]	5946	[6640, 2367]	7995	[8093, 7749]
1849	[3012, 3013]	3898	[5213, 2902]	5947	[601, 2158]	7996	[8094, 7611]
1850	[3014, 370]	3899	[3100, 3597]	5948	[6839, 4481]	7997	[7662, 6467]
1851	[3015, 3016]	3900	[359, 443]	5949	[6840, 4496]	7998	[8095, 5035]
1852	[2892, 2771]	3901	[1027, 944]	5950	[6459, 4852]	7999	[8096, 7034]
1853	[3017, 3018]	3902	[5214, 20]	5951	[6841, 5078]	8000	[3904, 4325]
1854	[3019, 3020]	3903	[5215, 5216]	5952	[4949, 6294]	8001	[8097, 6934]
1855	[941, 3021]	3904	[1392, 5217]	5953	[6842, 141]	8002	[8098, 6652]
1856	[3022, 3023]	3905	[5218, 885]	5954	[6843, 5126]	8003	[8099, 4097]
1857	[3024, 1289]	3906	[5219, 5220]	5955	[6844, 6845]	8004	[4850, 7804]
1858	[1467, 3025]	3907	[5221, 934]	5956	[6846, 4940]	8005	[6699, 5022]
1859	[1469, 3026]	3908	[5222, 2613]	5957	[6847, 6585]	8006	[1732, 1863]
1860	[1023, 3027]	3909	[5223, 3450]	5958	[6848, 4516]	8007	[8100, 6495]
1861	[3028, 3029]	3910	[3484, 5224]	5959	[6787, 4133]	8008	[2441, 4818]
1862	[2764, 3030]	3911	[5225, 282]	5960	[1891, 1792]	8009	[8101, 6573]
1863	[3031, 3032]	3912	[450, 1357]	5961	[6849, 210]	8010	[8102, 6526]
1864	[1339, 1551]	3913	[929, 1320]	5962	[4155, 6678]	8011	[2575, 2378]
1865	[3033, 3034]	3914	[5226, 1503]	5963	[6850, 6643]	8012	[8103, 2189]
1866	[3035, 1383]	3915	[5227, 965]	5964	[6851, 2356]	8013	[8104, 7719]
1867	[3036, 3037]	3916	[5228, 3168]	5965	[6724, 1844]	8014	[6104, 2950]
1868	[2992, 3038]	3917	[5229, 3034]	5966	[6852, 5017]	8015	[8105, 1463]

1869	[2615, 3039]	3918	[406, 341]	5967	[6853, 6616]	8016	[3512, 7423]
1870	[3040, 3041]	3919	[368, 476]	5968	[6854, 5079]	8017	[1152, 5971]
1871	[3042, 3043]	3920	[3094, 3179]	5969	[878, 2187]	8018	[3006, 3503]
1872	[3044, 3045]	3921	[5230, 5231]	5970	[6855, 6588]	8019	[8106, 7292]
1873	[3046, 3047]	3922	[5232, 387]	5971	[6856, 2580]	8020	[8107, 5812]
1874	[3048, 3049]	3923	[3323, 5233]	5972	[4112, 5086]	8021	[8108, 5370]
1875	[3050, 3051]	3924	[5234, 464]	5973	[6857, 5019]	8022	[8109, 3207]
1876	[3052, 1143]	3925	[5235, 1431]	5974	[2243, 6858]	8023	[8110, 5791]
1877	[3053, 1388]	3926	[3642, 3094]	5975	[6859, 2039]	8024	[8111, 1548]
1878	[3054, 3055]	3927	[5236, 5237]	5976	[6860, 4056]	8025	[8112, 1096]
1879	[1221, 3056]	3928	[5238, 3210]	5977	[6861, 744]	8026	[3608, 5314]
1880	[3057, 963]	3929	[5239, 3205]	5978	[6862, 6306]	8027	[3218, 1346]
1881	[3058, 2982]	3930	[5240, 408]	5979	[2141, 4629]	8028	[7366, 6026]
1882	[3059, 475]	3931	[5241, 21]	5980	[4183, 4600]	8029	[8113, 6143]
1883	[2882, 2759]	3932	[5242, 3043]	5981	[4848, 1712]	8030	[1313, 7268]
1884	[2789, 3060]	3933	[5243, 5224]	5982	[4500, 1829]	8031	[382, 7330]
1885	[18, 3061]	3934	[1041, 3628]	5983	[6863, 4030]	8032	[8114, 2666]
1886	[3062, 3063]	3935	[5244, 2738]	5984	[781, 4579]	8033	[8115, 267]
1887	[3064, 1500]	3936	[5245, 5246]	5985	[6864, 4438]	8034	[5677, 2657]
1888	[3065, 2913]	3937	[5247, 2655]	5986	[837, 209]	8035	[1294, 3522]
1889	[3066, 3067]	3938	[5248, 2618]	5987	[712, 2487]	8036	[3597, 5366]
1890	[3047, 3068]	3939	[1116, 3666]	5988	[6865, 6633]	8037	[8116, 5315]
1891	[3069, 1155]	3940	[2604, 5249]	5989	[6866, 6407]	8038	[2717, 5897]
1892	[3070, 3071]	3941	[5250, 5251]	5990	[6867, 162]	8039	[8117, 1071]
1893	[3072, 3073]	3942	[5252, 2753]	5991	[6868, 6359]	8040	[923, 7292]
1894	[1065, 2974]	3943	[5253, 1055]	5992	[6869, 2164]	8041	[8118, 3180]
1895	[3034, 3074]	3944	[5254, 3668]	5993	[6870, 1785]	8042	[8119, 5686]
1896	[3075, 2636]	3945	[5255, 890]	5994	[6871, 6294]	8043	[8120, 3806]
1897	[3076, 974]	3946	[943, 3631]	5995	[6872, 1961]	8044	[8121, 3472]
1898	[3077, 3078]	3947	[301, 3023]	5996	[6873, 1588]	8045	[8122, 1010]
1899	[3079, 88]	3948	[5256, 5257]	5997	[3976, 2539]	8046	[26, 5818]
1900	[3080, 2708]	3949	[5258, 3409]	5998	[6874, 2426]	8047	[5818, 3744]
1901	[3081, 2716]	3950	[5259, 342]	5999	[6875, 4360]	8048	[8123, 2642]
1902	[3082, 3083]	3951	[5260, 1140]	6000	[6876, 1756]	8049	[3839, 1045]
1903	[3084, 3085]	3952	[3124, 1207]	6001	[6426, 6877]	8050	[8124, 3383]
1904	[3086, 3087]	3953	[3769, 1417]	6002	[6878, 4606]	8051	[276, 2805]
1905	[1185, 2611]	3954	[5261, 5262]	6003	[6879, 4844]	8052	[7263, 3696]
1906	[1033, 3088]	3955	[5200, 5263]	6004	[4872, 4127]	8053	[1485, 3515]
1907	[900, 3089]	3956	[5264, 5265]	6005	[6880, 2491]	8054	[8125, 3038]
1908	[3090, 3091]	3957	[293, 5266]	6006	[4749, 595]	8055	[1434, 5252]
1909	[3092, 1151]	3958	[5267, 5268]	6007	[6881, 6854]	8056	[8126, 77]
1910	[3093, 3094]	3959	[5269, 5270]	6008	[6882, 4503]	8057	[3085, 1526]
1911	[3095, 3096]	3960	[5271, 1455]	6009	[588, 614]	8058	[8127, 3528]
1912	[343, 23]	3961	[5272, 3820]	6010	[6883, 4855]	8059	[5282, 3768]

1913	[1231, 3097]	3962	[5273, 3219]	6011	[32, 4797]	8060	[8128, 3276]
1914	[3098, 2609]	3963	[3617, 454]	6012	[6884, 2254]	8061	[8129, 2882]
1915	[3099, 3100]	3964	[1466, 3305]	6013	[6885, 4858]	8062	[8130, 913]
1916	[3101, 1403]	3965	[1432, 5274]	6014	[6886, 4903]	8063	[5923, 2838]
1917	[3102, 3103]	3966	[5275, 356]	6015	[6887, 519]	8064	[1504, 336]
1918	[3104, 1501]	3967	[1451, 2964]	6016	[6888, 2371]	8065	[8131, 91]
1919	[283, 3105]	3968	[5276, 3523]	6017	[6889, 4564]	8066	[8132, 317]
1920	[3106, 971]	3969	[1319, 5277]	6018	[4793, 3877]	8067	[8133, 3054]
1921	[3107, 3108]	3970	[2940, 3556]	6019	[6890, 713]	8068	[8134, 1320]
1922	[1521, 3084]	3971	[5278, 3750]	6020	[2530, 4337]	8069	[380, 73]
1923	[2911, 1493]	3972	[5279, 3599]	6021	[6891, 4221]	8070	[8135, 3813]
1924	[3109, 3110]	3973	[5280, 5281]	6022	[160, 4596]	8071	[2846, 2601]
1925	[3111, 3112]	3974	[3565, 5282]	6023	[6892, 4281]	8072	[7498, 5791]
1926	[3113, 3114]	3975	[5283, 5284]	6024	[6893, 5086]	8073	[5205, 5857]
1927	[3115, 3116]	3976	[3632, 5285]	6025	[6894, 6338]	8074	[2658, 5737]
1928	[3117, 3116]	3977	[5286, 5287]	6026	[6895, 6896]	8075	[7441, 3377]
1929	[3118, 2725]	3978	[421, 5288]	6027	[3887, 6831]	8076	[5636, 1210]
1930	[3119, 3120]	3979	[5289, 3235]	6028	[1881, 818]	8077	[5916, 5880]
1931	[3121, 2836]	3980	[5290, 5291]	6029	[6897, 627]	8078	[3432, 3162]
1932	[2742, 3122]	3981	[5292, 3868]	6030	[2555, 582]	8079	[5417, 5353]
1933	[3123, 3124]	3982	[5293, 892]	6031	[6898, 4948]	8080	[7283, 5782]
1934	[3125, 3126]	3983	[3626, 3820]	6032	[489, 4960]	8081	[8136, 3089]
1935	[3127, 1086]	3984	[5294, 5295]	6033	[2144, 5004]	8082	[1010, 3188]
1936	[3128, 3129]	3985	[3178, 404]	6034	[6899, 6647]	8083	[8137, 3262]
1937	[3130, 989]	3986	[5296, 5297]	6035	[6900, 4548]	8084	[8138, 961]
1938	[3131, 3132]	3987	[3288, 262]	6036	[6901, 57]	8085	[6153, 3261]
1939	[3133, 3134]	3988	[3305, 5298]	6037	[6706, 4968]	8086	[2703, 2634]
1940	[3135, 3136]	3989	[5299, 3110]	6038	[6902, 2160]	8087	[5284, 7046]
1941	[3137, 3117]	3990	[1236, 3789]	6039	[6537, 1976]	8088	[8139, 2597]
1942	[3138, 3139]	3991	[5300, 5214]	6040	[6903, 4970]	8089	[8140, 3346]
1943	[3140, 1249]	3992	[5301, 3277]	6041	[6904, 1604]	8090	[8141, 2874]
1944	[299, 3141]	3993	[5302, 5303]	6042	[4095, 139]	8091	[5288, 2881]
1945	[3142, 3143]	3994	[3298, 1111]	6043	[4547, 4866]	8092	[6026, 3845]
1946	[3144, 3145]	3995	[5210, 2937]	6044	[6905, 756]	8093	[8142, 1524]
1947	[3146, 413]	3996	[5304, 5246]	6045	[6906, 840]	8094	[8143, 7193]
1948	[3147, 3148]	3997	[1044, 1250]	6046	[4041, 4786]	8095	[2820, 7063]
1949	[3149, 3150]	3998	[5305, 5306]	6047	[6907, 4298]	8096	[2668, 5235]
1950	[3151, 2964]	3999	[5307, 3772]	6048	[6908, 1670]	8097	[6216, 2833]
1951	[3152, 1434]	4000	[366, 5308]	6049	[6909, 5033]	8098	[1357, 5476]
1952	[3153, 1187]	4001	[5309, 5310]	6050	[609, 666]	8099	[6204, 6170]
1953	[431, 3154]	4002	[5311, 2892]	6051	[6910, 6554]	8100	[7883, 7120]
1954	[3155, 3156]	4003	[912, 5312]	6052	[6911, 6912]	8101	[8144, 6105]
1955	[3157, 943]	4004	[3055, 1203]	6053	[6330, 4905]	8102	[2656, 1260]
1956	[3158, 3159]	4005	[3185, 2726]	6054	[6913, 6786]	8103	[8145, 2818]

1957	[3160, 2659]	4006	[5313, 3051]	6055	[6562, 4261]	8104	[8146, 1200]
1958	[3161, 3162]	4007	[5314, 436]	6056	[6914, 1939]	8105	[2515, 7790]
1959	[3163, 2784]	4008	[3868, 5315]	6057	[6275, 169]	8106	[7000, 6353]
1960	[3164, 3165]	4009	[5316, 5317]	6058	[2066, 2356]	8107	[6468, 5126]
1961	[3166, 2951]	4010	[5318, 3848]	6059	[6915, 6811]	8108	[8147, 4551]
1962	[3167, 1539]	4011	[3126, 3036]	6060	[6916, 581]	8109	[8148, 7653]
1963	[3168, 3169]	4012	[5319, 3069]	6061	[5014, 2508]	8110	[8149, 494]
1964	[392, 3170]	4013	[5320, 5207]	6062	[1857, 750]	8111	[8150, 5022]
1965	[3171, 1002]	4014	[5321, 3738]	6063	[6917, 2342]	8112	[6518, 6487]
1966	[3172, 1490]	4015	[5322, 3025]	6064	[4309, 1961]	8113	[8151, 6823]
1967	[3173, 2582]	4016	[5323, 5324]	6065	[4131, 2444]	8114	[705, 8019]
1968	[973, 3174]	4017	[5325, 1050]	6066	[581, 645]	8115	[8152, 631]
1969	[3175, 3176]	4018	[5326, 1308]	6067	[6918, 6867]	8116	[5124, 4962]
1970	[3177, 3178]	4019	[1560, 5327]	6068	[223, 762]	8117	[8153, 7790]
1971	[3179, 3180]	4020	[5328, 5329]	6069	[6919, 1715]	8118	[8154, 4881]
1972	[3181, 3182]	4021	[5330, 5238]	6070	[6920, 4693]	8119	[6689, 6333]
1973	[3183, 1021]	4022	[5331, 5332]	6071	[4964, 6691]	8120	[8155, 6745]
1974	[28, 3184]	4023	[5333, 1542]	6072	[1807, 6271]	8121	[8156, 6419]
1975	[2732, 3185]	4024	[5334, 3858]	6073	[6921, 2137]	8122	[503, 6954]
1976	[3186, 2769]	4025	[1170, 369]	6074	[4756, 6431]	8123	[8157, 2076]
1977	[3187, 2856]	4026	[5335, 1352]	6075	[6922, 5106]	8124	[4507, 6495]
1978	[3188, 422]	4027	[291, 3386]	6076	[4985, 3875]	8125	[8158, 4022]
1979	[3189, 3190]	4028	[5336, 1312]	6077	[725, 4870]	8126	[8159, 7667]
1980	[3191, 902]	4029	[5337, 298]	6078	[6923, 6924]	8127	[4644, 2402]
1981	[935, 3192]	4030	[5338, 5339]	6079	[6925, 3884]	8128	[8160, 4962]
1982	[3193, 442]	4031	[1498, 3373]	6080	[6926, 6313]	8129	[8161, 4080]
1983	[2584, 3194]	4032	[3643, 5340]	6081	[6927, 1824]	8130	[8162, 1622]
1984	[3195, 3196]	4033	[5341, 5342]	6082	[6928, 6414]	8131	[2363, 7662]
1985	[3197, 1137]	4034	[5343, 5344]	6083	[6929, 4310]	8132	[8163, 2391]
1986	[2752, 2971]	4035	[5345, 2835]	6084	[6647, 6711]	8133	[4647, 4422]
1987	[325, 428]	4036	[1051, 2648]	6085	[6930, 4824]	8134	[8164, 2258]
1988	[3198, 3199]	4037	[5346, 1039]	6086	[1752, 6588]	8135	[6273, 4323]
1989	[3200, 3201]	4038	[390, 1499]	6087	[4628, 662]	8136	[646, 2011]
1990	[3202, 3203]	4039	[1430, 3514]	6088	[1601, 1849]	8137	[8165, 4422]
1991	[3204, 3205]	4040	[5347, 5254]	6089	[2087, 752]	8138	[8166, 1702]
1992	[3206, 3207]	4041	[5348, 5349]	6090	[1565, 6931]	8139	[4413, 6399]
1993	[1453, 3208]	4042	[5350, 929]	6091	[6932, 4042]	8140	[2054, 6349]
1994	[3209, 1265]	4043	[5351, 2717]	6092	[4987, 1697]	8141	[8167, 6349]
1995	[3210, 2615]	4044	[5352, 1189]	6093	[6933, 624]	8142	[8168, 8019]
1996	[3211, 3212]	4045	[5353, 5354]	6094	[6717, 496]	8143	[8169, 6399]
1997	[1238, 2825]	4046	[2749, 5355]	6095	[6934, 6912]	8144	[2040, 4956]
1998	[3213, 891]	4047	[5356, 2873]	6096	[5048, 4216]	8145	[8170, 61]
1999	[3214, 3215]	4048	[5357, 2748]	6097	[6458, 6935]	8146	[6603, 6934]
2000	[3216, 1317]	4049	[5358, 5359]	6098	[6936, 4410]	8147	[3239, 3582]

2001	[3217, 3218]	4050	[5360, 3033]	6099	[4025, 4756]	8148	[8171, 1233]
2002	[1183, 2807]	4051	[3018, 5260]	6100	[217, 1604]	8149	[3324, 1481]
2003	[3219, 3220]	4052	[3020, 5236]	6101	[6937, 2539]	8150	[8172, 3126]
2004	[3221, 3222]	4053	[5361, 474]	6102	[4347, 4370]	8151	[8173, 5577]
2005	[3223, 3224]	4054	[2800, 3354]	6103	[6938, 6656]	8152	[8174, 1155]
2006	[3225, 3226]	4055	[5362, 5205]	6104	[6939, 2496]	8153	[3182, 3218]
2007	[2583, 3227]	4056	[5363, 3455]	6105	[4076, 1889]	8154	[8175, 2957]
2008	[3228, 3229]	4057	[439, 5364]	6106	[6940, 6360]	8155	[7104, 5758]
2009	[3230, 3231]	4058	[5365, 5186]	6107	[2548, 6941]	8156	[8176, 2654]
2010	[2977, 3232]	4059	[5359, 2885]	6108	[6942, 4023]	8157	[7142, 1150]
2011	[3233, 3084]	4060	[1401, 3479]	6109	[6943, 4373]	8158	[3861, 5188]
2012	[3234, 3235]	4061	[3373, 3046]	6110	[3916, 4204]	8159	[1225, 5323]
2013	[3236, 3237]	4062	[5366, 2674]	6111	[6944, 4947]	8160	[8177, 2810]
2014	[3238, 3239]	4063	[5367, 2753]	6112	[6945, 4591]	8161	[5897, 1005]
2015	[3240, 1040]	4064	[5368, 3561]	6113	[6946, 4559]	8162	[3382, 2681]
2016	[3241, 3242]	4065	[1046, 1224]	6114	[4792, 4606]	8163	[8178, 3419]
2017	[3243, 3244]	4066	[2625, 3163]	6115	[6763, 6529]	8164	[6119, 3540]
2018	[3245, 910]	4067	[2608, 380]	6116	[6947, 3877]	8165	[8179, 5560]
2019	[3246, 3247]	4068	[5369, 277]	6117	[4995, 602]	8166	[8180, 455]
2020	[3248, 896]	4069	[3785, 5370]	6118	[6948, 6865]	8167	[7185, 7175]
2021	[3249, 3250]	4070	[5371, 5372]	6119	[6949, 1975]	8168	[8181, 920]
2022	[2644, 3251]	4071	[5373, 5374]	6120	[6950, 4838]	8169	[5847, 5993]
2023	[3252, 1336]	4072	[5375, 5376]	6121	[4678, 1676]	8170	[5836, 7198]
2024	[2856, 3253]	4073	[5377, 5378]	6122	[6951, 6752]	8171	[4008, 5174]
2025	[3254, 3255]	4074	[1274, 3250]	6123	[6493, 6952]	8172	[8182, 5063]
2026	[3256, 3257]	4075	[5379, 3066]	6124	[6953, 6954]	8173	[7594, 5063]
2027	[3258, 3259]	4076	[5380, 3322]	6125	[6955, 2143]	8174	[8183, 2011]
2028	[3260, 2924]	4077	[5381, 2870]	6126	[6280, 5129]	8175	[8184, 4323]
2029	[3261, 3262]	4078	[5382, 3271]	6127	[6956, 4490]	8176	[8185, 7804]
2030	[3263, 1145]	4079	[5383, 2886]	6128	[6957, 6424]	8177	[8186, 2267]
2031	[3264, 885]	4080	[5384, 5385]	6129	[4777, 4032]	8178	[8187, 4719]
2032	[3265, 3259]	4081	[5224, 2665]	6130	[6958, 2534]	8179	[1956, 848]
2033	[3266, 348]	4082	[5386, 1252]	6131	[798, 5118]	8180	[8188, 848]
2034	[3267, 1214]	4083	[5387, 1346]	6132	[6959, 4072]	8181	[4308, 7578]
2035	[3268, 2983]	4084	[1000, 3605]	6133	[3948, 188]	8182	[8189, 452]
2036	[3269, 3270]	4085	[3438, 1227]	6134	[6960, 5062]	8183	[3165, 3234]
2037	[3271, 1343]	4086	[5388, 974]	6135	[6961, 4978]	8184	[8190, 3612]
2038	[396, 3272]	4087	[2650, 3214]	6136	[6962, 4965]	8185	[8191, 3365]
2039	[3273, 3274]	4088	[3381, 2633]	6137	[6963, 4943]	8186	[6183, 3498]
2040	[3275, 3276]	4089	[2674, 2693]	6138	[6964, 224]	8187	[1133, 5741]
2041	[2844, 3277]	4090	[2946, 1400]	6139	[6965, 4430]	8188	[5529, 1311]
2042	[3250, 1341]	4091	[5389, 5390]	6140	[6831, 713]	8189	[3959, 6359]
2043	[3278, 29]	4092	[5391, 467]	6141	[3994, 803]	8190	[1614, 2267]
2044	[3279, 2816]	4093	[5392, 3402]	6142	[6966, 2133]	8191	[4016, 5137]

2045	[3280, 3281]	4094	[5393, 1241]	6143	[4357, 647]
2046	[3282, 1439]	4095	[5394, 5395]	6144	[2435, 4656]
2047	[353, 3063]	4096	[5396, 5397]	6145	[2399, 814]
2048	[3283, 3284]	4097	[5398, 5399]	6146	[6967, 3975]

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

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1366	0	2732	0	4098	0	5464	0	6830	0
1	0	1367	1	2733	1	4099	0	5465	1	6831	0
2	1	1368	1	2734	1	4100	1	5466	0	6832	1
3	0	1369	1	2735	0	4101	1	5467	0	6833	0
4	1	1370	0	2736	0	4102	0	5468	1	6834	0
5	1	1371	0	2737	1	4103	1	5469	1	6835	0
6	0	1372	0	2738	0	4104	1	5470	1	6836	1
7	0	1373	1	2739	1	4105	0	5471	1	6837	1
8	0	1374	1	2740	0	4106	0	5472	1	6838	1
9	1	1375	1	2741	0	4107	1	5473	0	6839	0
10	1	1376	1	2742	0	4108	0	5474	1	6840	1
11	1	1377	1	2743	0	4109	0	5475	1	6841	0
12	1	1378	1	2744	0	4110	1	5476	1	6842	0
13	0	1379	1	2745	0	4111	1	5477	1	6843	0
14	0	1380	0	2746	0	4112	1	5478	0	6844	1
15	0	1381	0	2747	0	4113	0	5479	1	6845	0
16	0	1382	0	2748	0	4114	0	5480	1	6846	0
17	0	1383	1	2749	0	4115	1	5481	0	6847	1
18	1	1384	0	2750	0	4116	1	5482	0	6848	0
19	1	1385	0	2751	0	4117	0	5483	0	6849	1
20	0	1386	1	2752	1	4118	1	5484	1	6850	0
21	1	1387	1	2753	1	4119	0	5485	0	6851	0
22	1	1388	1	2754	1	4120	0	5486	1	6852	0
23	1	1389	0	2755	0	4121	0	5487	0	6853	1
24	0	1390	0	2756	0	4122	0	5488	1	6854	0
25	1	1391	0	2757	0	4123	0	5489	0	6855	0
26	1	1392	1	2758	1	4124	1	5490	1	6856	0
27	0	1393	0	2759	1	4125	0	5491	1	6857	0
28	1	1394	0	2760	1	4126	0	5492	0	6858	0
29	0	1395	0	2761	0	4127	0	5493	1	6859	1
30	1	1396	1	2762	1	4128	1	5494	0	6860	1
31	0	1397	0	2763	0	4129	0	5495	1	6861	1
32	1	1398	0	2764	1	4130	1	5496	1	6862	1
33	0	1399	0	2765	0	4131	0	5497	1	6863	0
34	1	1400	1	2766	1	4132	1	5498	0	6864	1
35	0	1401	0	2767	0	4133	0	5499	1	6865	0
36	0	1402	1	2768	1	4134	0	5500	0	6866	1

37	1	1403	1	2769	1	4135	0	5501	0	6867	0
38	0	1404	1	2770	0	4136	0	5502	1	6868	1
39	1	1405	0	2771	0	4137	1	5503	0	6869	1
40	1	1406	0	2772	1	4138	1	5504	0	6870	0
41	0	1407	1	2773	0	4139	0	5505	1	6871	1
42	0	1408	1	2774	0	4140	0	5506	1	6872	0
43	1	1409	1	2775	1	4141	1	5507	0	6873	1
44	1	1410	1	2776	0	4142	0	5508	1	6874	0
45	1	1411	1	2777	1	4143	0	5509	0	6875	1
46	0	1412	1	2778	0	4144	1	5510	0	6876	0
47	1	1413	1	2779	1	4145	0	5511	0	6877	0
48	1	1414	1	2780	1	4146	1	5512	0	6878	0
49	0	1415	1	2781	0	4147	1	5513	0	6879	1
50	0	1416	1	2782	0	4148	1	5514	1	6880	0
51	1	1417	1	2783	1	4149	1	5515	1	6881	1
52	0	1418	0	2784	0	4150	0	5516	0	6882	0
53	1	1419	0	2785	1	4151	0	5517	1	6883	1
54	1	1420	0	2786	1	4152	1	5518	0	6884	1
55	0	1421	1	2787	0	4153	0	5519	1	6885	1
56	0	1422	0	2788	0	4154	1	5520	1	6886	0
57	1	1423	0	2789	0	4155	0	5521	1	6887	0
58	0	1424	1	2790	0	4156	1	5522	0	6888	0
59	0	1425	1	2791	0	4157	1	5523	1	6889	1
60	0	1426	1	2792	0	4158	0	5524	0	6890	1
61	1	1427	1	2793	0	4159	0	5525	0	6891	0
62	1	1428	0	2794	1	4160	1	5526	0	6892	0
63	0	1429	1	2795	1	4161	1	5527	0	6893	0
64	0	1430	1	2796	1	4162	0	5528	1	6894	1
65	1	1431	1	2797	0	4163	1	5529	0	6895	0
66	0	1432	1	2798	1	4164	0	5530	0	6896	0
67	0	1433	1	2799	1	4165	1	5531	1	6897	1
68	1	1434	0	2800	0	4166	1	5532	1	6898	0
69	1	1435	1	2801	0	4167	1	5533	0	6899	1
70	0	1436	0	2802	1	4168	1	5534	0	6900	1
71	0	1437	0	2803	1	4169	0	5535	0	6901	0
72	1	1438	1	2804	0	4170	0	5536	0	6902	0
73	0	1439	1	2805	0	4171	1	5537	1	6903	0
74	0	1440	0	2806	1	4172	1	5538	1	6904	0
75	1	1441	1	2807	1	4173	1	5539	0	6905	1
76	0	1442	0	2808	1	4174	0	5540	0	6906	0
77	0	1443	1	2809	0	4175	1	5541	1	6907	0
78	0	1444	0	2810	0	4176	0	5542	0	6908	1
79	1	1445	1	2811	1	4177	0	5543	1	6909	0
80	1	1446	1	2812	1	4178	1	5544	1	6910	0

81	1	1447	0	2813	1	4179	0	5545	0	6911	0
82	1	1448	0	2814	1	4180	0	5546	1	6912	1
83	0	1449	0	2815	0	4181	1	5547	1	6913	0
84	1	1450	1	2816	0	4182	0	5548	1	6914	0
85	0	1451	1	2817	1	4183	0	5549	0	6915	1
86	1	1452	0	2818	0	4184	1	5550	0	6916	1
87	1	1453	1	2819	1	4185	1	5551	1	6917	0
88	0	1454	1	2820	1	4186	1	5552	0	6918	0
89	1	1455	0	2821	1	4187	1	5553	0	6919	1
90	1	1456	1	2822	0	4188	0	5554	0	6920	0
91	1	1457	1	2823	0	4189	1	5555	0	6921	0
92	0	1458	1	2824	1	4190	1	5556	1	6922	1
93	0	1459	1	2825	0	4191	1	5557	0	6923	0
94	0	1460	1	2826	0	4192	1	5558	0	6924	0
95	1	1461	1	2827	0	4193	1	5559	1	6925	0
96	1	1462	1	2828	0	4194	0	5560	1	6926	1
97	1	1463	1	2829	1	4195	0	5561	1	6927	1
98	0	1464	0	2830	0	4196	1	5562	1	6928	1
99	0	1465	1	2831	1	4197	0	5563	1	6929	1
100	0	1466	0	2832	1	4198	0	5564	0	6930	1
101	0	1467	1	2833	1	4199	0	5565	1	6931	1
102	1	1468	0	2834	0	4200	1	5566	1	6932	0
103	1	1469	1	2835	1	4201	0	5567	1	6933	0
104	1	1470	1	2836	1	4202	0	5568	0	6934	1
105	0	1471	0	2837	1	4203	0	5569	0	6935	0
106	1	1472	0	2838	1	4204	1	5570	0	6936	0
107	1	1473	0	2839	0	4205	0	5571	0	6937	0
108	1	1474	0	2840	0	4206	0	5572	1	6938	1
109	1	1475	1	2841	1	4207	0	5573	0	6939	1
110	1	1476	1	2842	0	4208	0	5574	1	6940	1
111	0	1477	1	2843	0	4209	1	5575	0	6941	1
112	1	1478	0	2844	1	4210	0	5576	1	6942	1
113	0	1479	0	2845	1	4211	0	5577	0	6943	0
114	1	1480	1	2846	0	4212	0	5578	0	6944	0
115	1	1481	0	2847	0	4213	0	5579	1	6945	0
116	1	1482	1	2848	0	4214	0	5580	1	6946	1
117	0	1483	0	2849	1	4215	1	5581	1	6947	0
118	0	1484	1	2850	0	4216	1	5582	1	6948	1
119	0	1485	0	2851	0	4217	0	5583	1	6949	0
120	0	1486	1	2852	1	4218	1	5584	0	6950	0
121	0	1487	1	2853	0	4219	0	5585	0	6951	0
122	0	1488	1	2854	1	4220	0	5586	1	6952	1
123	1	1489	0	2855	0	4221	1	5587	0	6953	0
124	1	1490	1	2856	1	4222	1	5588	1	6954	1

125	1	1491	0	2857	0	4223	1	5589	1	6955	1
126	1	1492	0	2858	0	4224	0	5590	0	6956	0
127	0	1493	1	2859	0	4225	0	5591	1	6957	1
128	0	1494	1	2860	1	4226	1	5592	1	6958	1
129	0	1495	1	2861	0	4227	0	5593	1	6959	0
130	1	1496	0	2862	0	4228	1	5594	0	6960	1
131	1	1497	1	2863	0	4229	0	5595	1	6961	1
132	0	1498	0	2864	0	4230	1	5596	1	6962	1
133	0	1499	1	2865	0	4231	0	5597	0	6963	1
134	0	1500	1	2866	1	4232	0	5598	0	6964	1
135	0	1501	0	2867	1	4233	1	5599	0	6965	0
136	0	1502	0	2868	0	4234	0	5600	0	6966	1
137	1	1503	1	2869	1	4235	1	5601	1	6967	0
138	1	1504	0	2870	0	4236	0	5602	0	6968	1
139	1	1505	0	2871	1	4237	0	5603	0	6969	1
140	1	1506	0	2872	1	4238	0	5604	0	6970	0
141	0	1507	0	2873	0	4239	0	5605	1	6971	0
142	0	1508	1	2874	0	4240	1	5606	1	6972	1
143	0	1509	0	2875	1	4241	1	5607	0	6973	0
144	0	1510	1	2876	0	4242	0	5608	0	6974	1
145	1	1511	0	2877	0	4243	1	5609	0	6975	1
146	0	1512	1	2878	0	4244	1	5610	0	6976	0
147	0	1513	0	2879	0	4245	0	5611	0	6977	0
148	0	1514	0	2880	0	4246	1	5612	0	6978	1
149	0	1515	0	2881	0	4247	1	5613	0	6979	0
150	1	1516	0	2882	0	4248	1	5614	1	6980	0
151	1	1517	1	2883	0	4249	0	5615	1	6981	1
152	0	1518	1	2884	1	4250	1	5616	0	6982	1
153	0	1519	0	2885	1	4251	0	5617	1	6983	0
154	0	1520	0	2886	1	4252	1	5618	1	6984	0
155	0	1521	0	2887	1	4253	0	5619	1	6985	1
156	1	1522	1	2888	1	4254	1	5620	0	6986	0
157	0	1523	1	2889	0	4255	0	5621	1	6987	0
158	0	1524	1	2890	0	4256	1	5622	1	6988	0
159	1	1525	1	2891	0	4257	1	5623	0	6989	1
160	1	1526	1	2892	0	4258	0	5624	1	6990	0
161	1	1527	0	2893	1	4259	0	5625	1	6991	0
162	0	1528	0	2894	1	4260	1	5626	1	6992	0
163	1	1529	0	2895	0	4261	0	5627	1	6993	1
164	1	1530	1	2896	0	4262	0	5628	1	6994	1
165	1	1531	0	2897	1	4263	0	5629	0	6995	0
166	1	1532	1	2898	0	4264	1	5630	0	6996	1
167	0	1533	1	2899	1	4265	0	5631	1	6997	0
168	0	1534	0	2900	1	4266	1	5632	1	6998	0

169	1	1535	0	2901	0	4267	1	5633	0	6999	1
170	0	1536	0	2902	1	4268	1	5634	1	7000	1
171	0	1537	0	2903	1	4269	1	5635	1	7001	0
172	1	1538	1	2904	0	4270	1	5636	1	7002	1
173	1	1539	1	2905	1	4271	0	5637	1	7003	0
174	0	1540	0	2906	0	4272	1	5638	1	7004	1
175	1	1541	1	2907	1	4273	1	5639	1	7005	1
176	1	1542	1	2908	0	4274	1	5640	0	7006	0
177	0	1543	1	2909	0	4275	1	5641	1	7007	0
178	1	1544	0	2910	0	4276	0	5642	0	7008	0
179	1	1545	1	2911	0	4277	0	5643	0	7009	0
180	1	1546	1	2912	1	4278	0	5644	1	7010	1
181	0	1547	0	2913	1	4279	0	5645	1	7011	1
182	1	1548	0	2914	1	4280	0	5646	1	7012	1
183	0	1549	0	2915	0	4281	0	5647	0	7013	1
184	0	1550	1	2916	1	4282	1	5648	0	7014	1
185	0	1551	1	2917	1	4283	0	5649	0	7015	0
186	0	1552	0	2918	1	4284	1	5650	1	7016	1
187	1	1553	0	2919	0	4285	0	5651	0	7017	0
188	0	1554	1	2920	0	4286	0	5652	1	7018	0
189	0	1555	1	2921	0	4287	1	5653	1	7019	0
190	1	1556	1	2922	0	4288	0	5654	1	7020	0
191	1	1557	0	2923	1	4289	1	5655	1	7021	1
192	1	1558	1	2924	0	4290	1	5656	1	7022	0
193	0	1559	0	2925	1	4291	1	5657	1	7023	0
194	1	1560	1	2926	0	4292	1	5658	1	7024	1
195	1	1561	1	2927	0	4293	1	5659	1	7025	1
196	0	1562	0	2928	1	4294	0	5660	1	7026	0
197	1	1563	0	2929	0	4295	1	5661	1	7027	0
198	0	1564	0	2930	0	4296	1	5662	1	7028	0
199	0	1565	0	2931	1	4297	1	5663	1	7029	1
200	0	1566	0	2932	1	4298	1	5664	0	7030	1
201	0	1567	1	2933	0	4299	1	5665	0	7031	0
202	0	1568	0	2934	1	4300	1	5666	1	7032	0
203	1	1569	1	2935	1	4301	1	5667	1	7033	1
204	1	1570	0	2936	0	4302	0	5668	0	7034	1
205	1	1571	0	2937	1	4303	1	5669	1	7035	1
206	1	1572	0	2938	1	4304	1	5670	1	7036	0
207	1	1573	1	2939	0	4305	0	5671	0	7037	1
208	1	1574	0	2940	1	4306	0	5672	1	7038	1
209	0	1575	0	2941	1	4307	0	5673	0	7039	0
210	0	1576	1	2942	0	4308	1	5674	1	7040	1
211	1	1577	0	2943	0	4309	1	5675	0	7041	1
212	1	1578	0	2944	0	4310	1	5676	1	7042	0

213	1	1579	0	2945	0	4311	0	5677	0	7043	1
214	1	1580	0	2946	1	4312	1	5678	0	7044	0
215	0	1581	0	2947	0	4313	0	5679	1	7045	1
216	1	1582	0	2948	0	4314	0	5680	0	7046	1
217	1	1583	1	2949	1	4315	1	5681	0	7047	1
218	1	1584	0	2950	0	4316	1	5682	1	7048	1
219	1	1585	1	2951	1	4317	1	5683	0	7049	0
220	0	1586	0	2952	0	4318	0	5684	0	7050	1
221	1	1587	1	2953	1	4319	0	5685	1	7051	1
222	1	1588	0	2954	0	4320	0	5686	1	7052	0
223	1	1589	1	2955	0	4321	0	5687	0	7053	1
224	0	1590	0	2956	1	4322	0	5688	1	7054	0
225	0	1591	0	2957	0	4323	0	5689	0	7055	1
226	1	1592	0	2958	0	4324	1	5690	1	7056	1
227	1	1593	0	2959	1	4325	1	5691	0	7057	1
228	1	1594	0	2960	1	4326	1	5692	1	7058	1
229	0	1595	0	2961	1	4327	0	5693	1	7059	0
230	1	1596	0	2962	0	4328	1	5694	1	7060	1
231	0	1597	1	2963	1	4329	1	5695	0	7061	0
232	0	1598	1	2964	1	4330	1	5696	0	7062	1
233	1	1599	0	2965	1	4331	0	5697	0	7063	1
234	0	1600	1	2966	0	4332	1	5698	1	7064	0
235	1	1601	0	2967	0	4333	0	5699	0	7065	1
236	0	1602	0	2968	1	4334	1	5700	0	7066	0
237	0	1603	1	2969	1	4335	1	5701	0	7067	1
238	0	1604	1	2970	1	4336	0	5702	1	7068	1
239	0	1605	0	2971	0	4337	1	5703	1	7069	0
240	0	1606	0	2972	1	4338	1	5704	1	7070	1
241	0	1607	1	2973	1	4339	0	5705	1	7071	1
242	0	1608	1	2974	0	4340	1	5706	0	7072	1
243	0	1609	1	2975	1	4341	1	5707	0	7073	1
244	1	1610	0	2976	0	4342	0	5708	1	7074	1
245	1	1611	0	2977	1	4343	0	5709	0	7075	0
246	1	1612	1	2978	1	4344	1	5710	0	7076	0
247	0	1613	1	2979	1	4345	1	5711	0	7077	0
248	1	1614	0	2980	0	4346	0	5712	0	7078	0
249	0	1615	1	2981	1	4347	0	5713	1	7079	0
250	1	1616	1	2982	0	4348	1	5714	1	7080	0
251	0	1617	1	2983	1	4349	1	5715	1	7081	0
252	0	1618	0	2984	1	4350	1	5716	0	7082	0
253	0	1619	1	2985	0	4351	0	5717	1	7083	0
254	0	1620	1	2986	1	4352	1	5718	0	7084	1
255	0	1621	0	2987	1	4353	1	5719	1	7085	0
256	0	1622	1	2988	1	4354	1	5720	0	7086	1

257	0	1623	0	2989	0	4355	0	5721	1	7087	0
258	1	1624	1	2990	1	4356	1	5722	0	7088	0
259	0	1625	0	2991	0	4357	1	5723	0	7089	1
260	1	1626	0	2992	0	4358	0	5724	0	7090	0
261	1	1627	1	2993	0	4359	0	5725	1	7091	1
262	0	1628	1	2994	1	4360	0	5726	1	7092	0
263	1	1629	0	2995	0	4361	1	5727	1	7093	1
264	0	1630	0	2996	1	4362	1	5728	0	7094	1
265	0	1631	1	2997	1	4363	0	5729	0	7095	0
266	0	1632	0	2998	0	4364	0	5730	1	7096	1
267	0	1633	1	2999	1	4365	1	5731	1	7097	0
268	0	1634	1	3000	1	4366	1	5732	0	7098	1
269	0	1635	1	3001	1	4367	1	5733	1	7099	1
270	0	1636	0	3002	1	4368	1	5734	1	7100	0
271	1	1637	0	3003	1	4369	1	5735	0	7101	1
272	1	1638	1	3004	1	4370	1	5736	1	7102	1
273	0	1639	0	3005	1	4371	1	5737	1	7103	1
274	1	1640	1	3006	0	4372	1	5738	0	7104	1
275	1	1641	0	3007	1	4373	0	5739	0	7105	0
276	0	1642	1	3008	0	4374	1	5740	0	7106	0
277	1	1643	0	3009	1	4375	1	5741	1	7107	1
278	1	1644	1	3010	0	4376	1	5742	0	7108	1
279	0	1645	1	3011	1	4377	0	5743	1	7109	1
280	1	1646	1	3012	1	4378	1	5744	1	7110	1
281	0	1647	0	3013	0	4379	0	5745	1	7111	1
282	0	1648	1	3014	0	4380	1	5746	1	7112	0
283	0	1649	0	3015	0	4381	1	5747	0	7113	0
284	0	1650	1	3016	0	4382	0	5748	1	7114	0
285	1	1651	0	3017	0	4383	0	5749	0	7115	0
286	1	1652	0	3018	1	4384	0	5750	1	7116	1
287	1	1653	0	3019	0	4385	0	5751	0	7117	0
288	0	1654	1	3020	0	4386	0	5752	1	7118	0
289	1	1655	0	3021	1	4387	1	5753	1	7119	1
290	0	1656	0	3022	1	4388	1	5754	1	7120	0
291	0	1657	0	3023	1	4389	0	5755	0	7121	0
292	0	1658	1	3024	1	4390	0	5756	0	7122	0
293	0	1659	0	3025	1	4391	1	5757	0	7123	1
294	0	1660	0	3026	0	4392	1	5758	0	7124	1
295	0	1661	0	3027	1	4393	1	5759	1	7125	1
296	1	1662	0	3028	1	4394	1	5760	1	7126	0
297	1	1663	0	3029	0	4395	1	5761	0	7127	1
298	1	1664	0	3030	1	4396	0	5762	0	7128	0
299	1	1665	0	3031	1	4397	1	5763	0	7129	0
300	0	1666	0	3032	0	4398	1	5764	1	7130	1

301	1	1667	1	3033	0	4399	0	5765	0	7131	0
302	0	1668	1	3034	1	4400	0	5766	1	7132	1
303	0	1669	0	3035	1	4401	1	5767	1	7133	1
304	0	1670	0	3036	0	4402	0	5768	1	7134	1
305	0	1671	1	3037	0	4403	1	5769	0	7135	0
306	0	1672	0	3038	0	4404	1	5770	1	7136	1
307	0	1673	0	3039	0	4405	1	5771	0	7137	0
308	1	1674	0	3040	1	4406	1	5772	1	7138	1
309	1	1675	0	3041	1	4407	0	5773	1	7139	1
310	0	1676	0	3042	0	4408	0	5774	0	7140	0
311	0	1677	1	3043	0	4409	0	5775	1	7141	1
312	0	1678	0	3044	1	4410	1	5776	1	7142	0
313	0	1679	1	3045	1	4411	0	5777	1	7143	0
314	1	1680	0	3046	0	4412	1	5778	1	7144	1
315	1	1681	1	3047	1	4413	0	5779	0	7145	0
316	1	1682	1	3048	1	4414	0	5780	1	7146	1
317	1	1683	1	3049	1	4415	1	5781	0	7147	0
318	1	1684	1	3050	1	4416	1	5782	0	7148	1
319	0	1685	0	3051	1	4417	1	5783	1	7149	1
320	0	1686	1	3052	0	4418	1	5784	0	7150	0
321	0	1687	1	3053	1	4419	0	5785	1	7151	1
322	1	1688	1	3054	1	4420	1	5786	1	7152	1
323	0	1689	0	3055	0	4421	1	5787	0	7153	0
324	1	1690	1	3056	0	4422	0	5788	0	7154	1
325	0	1691	0	3057	1	4423	0	5789	0	7155	0
326	1	1692	0	3058	1	4424	0	5790	0	7156	0
327	0	1693	1	3059	1	4425	0	5791	1	7157	1
328	1	1694	1	3060	0	4426	1	5792	1	7158	1
329	0	1695	1	3061	0	4427	1	5793	1	7159	1
330	0	1696	1	3062	0	4428	0	5794	1	7160	0
331	1	1697	1	3063	0	4429	0	5795	0	7161	1
332	0	1698	0	3064	1	4430	0	5796	1	7162	1
333	1	1699	1	3065	1	4431	0	5797	0	7163	0
334	0	1700	0	3066	0	4432	1	5798	1	7164	0
335	0	1701	0	3067	0	4433	1	5799	1	7165	0
336	0	1702	1	3068	0	4434	1	5800	0	7166	0
337	1	1703	1	3069	0	4435	0	5801	0	7167	0
338	1	1704	1	3070	0	4436	0	5802	0	7168	0
339	0	1705	1	3071	1	4437	0	5803	0	7169	0
340	1	1706	1	3072	1	4438	0	5804	1	7170	1
341	0	1707	0	3073	1	4439	0	5805	0	7171	0
342	0	1708	0	3074	0	4440	0	5806	1	7172	1
343	0	1709	0	3075	0	4441	0	5807	1	7173	1
344	1	1710	0	3076	0	4442	1	5808	1	7174	0

345	1	1711	1	3077	1	4443	1	5809	1	7175	1
346	1	1712	1	3078	1	4444	1	5810	0	7176	0
347	1	1713	1	3079	1	4445	0	5811	0	7177	1
348	0	1714	0	3080	0	4446	0	5812	1	7178	0
349	1	1715	1	3081	1	4447	1	5813	1	7179	0
350	1	1716	0	3082	1	4448	1	5814	1	7180	1
351	0	1717	0	3083	1	4449	1	5815	0	7181	0
352	1	1718	1	3084	1	4450	1	5816	0	7182	1
353	0	1719	1	3085	0	4451	1	5817	1	7183	0
354	0	1720	1	3086	1	4452	0	5818	1	7184	0
355	0	1721	1	3087	0	4453	1	5819	0	7185	1
356	1	1722	1	3088	1	4454	0	5820	1	7186	0
357	1	1723	1	3089	1	4455	1	5821	1	7187	0
358	0	1724	0	3090	1	4456	0	5822	0	7188	1
359	0	1725	1	3091	0	4457	0	5823	0	7189	0
360	0	1726	0	3092	1	4458	1	5824	1	7190	0
361	0	1727	1	3093	1	4459	1	5825	1	7191	0
362	0	1728	1	3094	0	4460	1	5826	1	7192	1
363	0	1729	0	3095	1	4461	0	5827	1	7193	0
364	0	1730	0	3096	0	4462	0	5828	0	7194	0
365	1	1731	0	3097	0	4463	1	5829	0	7195	1
366	1	1732	1	3098	1	4464	0	5830	1	7196	0
367	0	1733	1	3099	1	4465	0	5831	0	7197	1
368	0	1734	0	3100	1	4466	1	5832	0	7198	0
369	0	1735	0	3101	1	4467	1	5833	0	7199	0
370	0	1736	1	3102	1	4468	1	5834	0	7200	0
371	1	1737	0	3103	1	4469	1	5835	1	7201	1
372	0	1738	0	3104	0	4470	1	5836	1	7202	1
373	1	1739	0	3105	0	4471	1	5837	0	7203	0
374	1	1740	0	3106	1	4472	0	5838	1	7204	1
375	1	1741	1	3107	1	4473	0	5839	1	7205	1
376	0	1742	0	3108	1	4474	1	5840	0	7206	1
377	0	1743	0	3109	1	4475	0	5841	1	7207	0
378	1	1744	0	3110	0	4476	1	5842	1	7208	1
379	1	1745	0	3111	1	4477	1	5843	1	7209	1
380	0	1746	1	3112	1	4478	0	5844	0	7210	1
381	1	1747	0	3113	1	4479	0	5845	0	7211	1
382	1	1748	1	3114	0	4480	1	5846	1	7212	1
383	0	1749	0	3115	0	4481	1	5847	1	7213	0
384	1	1750	1	3116	0	4482	1	5848	0	7214	0
385	1	1751	0	3117	0	4483	0	5849	0	7215	1
386	0	1752	1	3118	0	4484	1	5850	1	7216	0
387	0	1753	1	3119	1	4485	0	5851	1	7217	1
388	1	1754	0	3120	1	4486	0	5852	0	7218	0

389	0	1755	1	3121	1	4487	0	5853	1	7219	0
390	1	1756	0	3122	1	4488	0	5854	0	7220	0
391	0	1757	0	3123	0	4489	1	5855	0	7221	1
392	1	1758	0	3124	0	4490	1	5856	1	7222	1
393	0	1759	0	3125	0	4491	1	5857	0	7223	0
394	1	1760	0	3126	0	4492	1	5858	1	7224	1
395	0	1761	1	3127	0	4493	0	5859	1	7225	0
396	1	1762	1	3128	1	4494	0	5860	0	7226	1
397	1	1763	1	3129	0	4495	0	5861	0	7227	1
398	1	1764	1	3130	0	4496	0	5862	0	7228	1
399	1	1765	0	3131	1	4497	1	5863	0	7229	0
400	0	1766	0	3132	0	4498	1	5864	0	7230	0
401	1	1767	1	3133	0	4499	0	5865	0	7231	0
402	0	1768	0	3134	0	4500	1	5866	1	7232	0
403	1	1769	1	3135	1	4501	1	5867	0	7233	0
404	0	1770	0	3136	1	4502	1	5868	0	7234	0
405	1	1771	1	3137	0	4503	0	5869	0	7235	0
406	1	1772	0	3138	1	4504	1	5870	0	7236	0
407	1	1773	0	3139	1	4505	0	5871	1	7237	1
408	1	1774	1	3140	0	4506	0	5872	0	7238	0
409	0	1775	1	3141	1	4507	0	5873	0	7239	1
410	0	1776	1	3142	1	4508	1	5874	0	7240	0
411	0	1777	1	3143	1	4509	0	5875	1	7241	0
412	0	1778	0	3144	1	4510	1	5876	1	7242	0
413	1	1779	0	3145	1	4511	1	5877	0	7243	1
414	1	1780	0	3146	1	4512	0	5878	0	7244	0
415	1	1781	1	3147	1	4513	1	5879	0	7245	0
416	1	1782	1	3148	0	4514	1	5880	0	7246	0
417	1	1783	1	3149	1	4515	0	5881	1	7247	0
418	1	1784	0	3150	0	4516	1	5882	1	7248	1
419	0	1785	1	3151	1	4517	1	5883	1	7249	0
420	0	1786	0	3152	1	4518	0	5884	1	7250	1
421	1	1787	0	3153	0	4519	1	5885	1	7251	0
422	1	1788	1	3154	0	4520	0	5886	0	7252	1
423	0	1789	1	3155	1	4521	0	5887	0	7253	1
424	1	1790	0	3156	1	4522	1	5888	0	7254	0
425	1	1791	1	3157	0	4523	0	5889	0	7255	1
426	1	1792	0	3158	1	4524	0	5890	0	7256	0
427	0	1793	1	3159	0	4525	1	5891	0	7257	1
428	1	1794	1	3160	0	4526	1	5892	0	7258	1
429	1	1795	1	3161	1	4527	0	5893	1	7259	1
430	0	1796	0	3162	1	4528	1	5894	0	7260	1
431	0	1797	1	3163	1	4529	1	5895	1	7261	0
432	1	1798	0	3164	1	4530	1	5896	1	7262	1

433	1	1799	0	3165	0	4531	0	5897	0	7263	0
434	1	1800	1	3166	0	4532	0	5898	0	7264	0
435	0	1801	0	3167	1	4533	1	5899	0	7265	1
436	1	1802	0	3168	1	4534	0	5900	1	7266	1
437	1	1803	0	3169	0	4535	0	5901	1	7267	1
438	0	1804	0	3170	0	4536	1	5902	0	7268	0
439	1	1805	1	3171	0	4537	1	5903	1	7269	0
440	0	1806	1	3172	0	4538	1	5904	0	7270	1
441	1	1807	1	3173	0	4539	1	5905	0	7271	1
442	0	1808	0	3174	1	4540	0	5906	0	7272	1
443	1	1809	0	3175	0	4541	0	5907	0	7273	0
444	1	1810	1	3176	1	4542	0	5908	1	7274	1
445	1	1811	1	3177	1	4543	1	5909	1	7275	0
446	1	1812	1	3178	1	4544	1	5910	0	7276	0
447	0	1813	1	3179	0	4545	1	5911	1	7277	0
448	0	1814	1	3180	0	4546	0	5912	1	7278	1
449	1	1815	1	3181	1	4547	1	5913	1	7279	0
450	1	1816	0	3182	1	4548	0	5914	1	7280	0
451	0	1817	0	3183	0	4549	0	5915	1	7281	0
452	0	1818	1	3184	0	4550	0	5916	0	7282	1
453	0	1819	1	3185	0	4551	1	5917	1	7283	0
454	0	1820	1	3186	0	4552	0	5918	1	7284	1
455	1	1821	0	3187	0	4553	1	5919	1	7285	0
456	0	1822	1	3188	0	4554	0	5920	1	7286	0
457	1	1823	0	3189	0	4555	1	5921	1	7287	0
458	1	1824	0	3190	1	4556	1	5922	1	7288	0
459	0	1825	1	3191	1	4557	1	5923	0	7289	1
460	0	1826	0	3192	0	4558	0	5924	0	7290	0
461	0	1827	0	3193	1	4559	0	5925	0	7291	1
462	0	1828	0	3194	0	4560	1	5926	1	7292	1
463	0	1829	1	3195	1	4561	1	5927	0	7293	1
464	0	1830	1	3196	1	4562	1	5928	0	7294	0
465	0	1831	1	3197	0	4563	1	5929	0	7295	1
466	0	1832	1	3198	1	4564	0	5930	1	7296	0
467	1	1833	1	3199	1	4565	0	5931	1	7297	1
468	1	1834	0	3200	0	4566	0	5932	0	7298	1
469	1	1835	0	3201	1	4567	1	5933	0	7299	0
470	1	1836	0	3202	0	4568	0	5934	0	7300	1
471	1	1837	1	3203	1	4569	0	5935	0	7301	1
472	1	1838	0	3204	1	4570	0	5936	1	7302	1
473	0	1839	1	3205	0	4571	1	5937	1	7303	0
474	1	1840	1	3206	0	4572	1	5938	1	7304	1
475	1	1841	1	3207	0	4573	1	5939	0	7305	1
476	1	1842	1	3208	0	4574	0	5940	0	7306	1

477	1	1843	1	3209	0	4575	1	5941	0	7307	1
478	0	1844	1	3210	0	4576	1	5942	1	7308	1
479	0	1845	1	3211	1	4577	1	5943	1	7309	0
480	0	1846	0	3212	0	4578	0	5944	1	7310	0
481	0	1847	1	3213	1	4579	0	5945	1	7311	0
482	0	1848	1	3214	0	4580	1	5946	0	7312	0
483	0	1849	1	3215	0	4581	0	5947	0	7313	1
484	0	1850	0	3216	0	4582	0	5948	0	7314	0
485	0	1851	0	3217	1	4583	1	5949	1	7315	0
486	0	1852	0	3218	0	4584	1	5950	0	7316	0
487	0	1853	0	3219	1	4585	0	5951	0	7317	0
488	0	1854	0	3220	1	4586	0	5952	0	7318	1
489	0	1855	1	3221	1	4587	0	5953	0	7319	1
490	0	1856	1	3222	1	4588	0	5954	0	7320	1
491	1	1857	1	3223	1	4589	0	5955	1	7321	1
492	1	1858	1	3224	1	4590	0	5956	0	7322	1
493	1	1859	1	3225	1	4591	0	5957	1	7323	1
494	0	1860	0	3226	0	4592	1	5958	0	7324	1
495	1	1861	1	3227	0	4593	1	5959	0	7325	0
496	1	1862	1	3228	1	4594	0	5960	0	7326	0
497	1	1863	1	3229	1	4595	0	5961	1	7327	1
498	1	1864	1	3230	0	4596	0	5962	0	7328	0
499	1	1865	0	3231	1	4597	1	5963	0	7329	1
500	0	1866	1	3232	0	4598	1	5964	0	7330	0
501	1	1867	0	3233	0	4599	0	5965	1	7331	0
502	1	1868	0	3234	0	4600	1	5966	0	7332	1
503	1	1869	1	3235	0	4601	1	5967	1	7333	1
504	0	1870	1	3236	1	4602	1	5968	0	7334	1
505	0	1871	0	3237	1	4603	1	5969	1	7335	0
506	0	1872	1	3238	1	4604	1	5970	0	7336	1
507	0	1873	0	3239	1	4605	0	5971	0	7337	0
508	0	1874	1	3240	0	4606	0	5972	1	7338	1
509	0	1875	1	3241	0	4607	1	5973	0	7339	1
510	0	1876	0	3242	0	4608	1	5974	1	7340	1
511	0	1877	1	3243	0	4609	1	5975	1	7341	1
512	0	1878	1	3244	0	4610	0	5976	1	7342	1
513	0	1879	0	3245	1	4611	0	5977	1	7343	1
514	0	1880	1	3246	1	4612	0	5978	1	7344	1
515	0	1881	1	3247	0	4613	1	5979	0	7345	1
516	0	1882	1	3248	0	4614	0	5980	0	7346	0
517	0	1883	0	3249	0	4615	1	5981	1	7347	0
518	1	1884	0	3250	1	4616	1	5982	1	7348	0
519	1	1885	1	3251	0	4617	1	5983	0	7349	1
520	1	1886	0	3252	0	4618	1	5984	1	7350	1

521	0	1887	1	3253	0	4619	0	5985	1	7351	1
522	1	1888	1	3254	0	4620	1	5986	0	7352	1
523	0	1889	0	3255	1	4621	0	5987	1	7353	1
524	1	1890	1	3256	0	4622	0	5988	0	7354	0
525	1	1891	0	3257	0	4623	0	5989	1	7355	1
526	0	1892	0	3258	0	4624	0	5990	0	7356	1
527	0	1893	1	3259	1	4625	0	5991	1	7357	0
528	1	1894	1	3260	1	4626	1	5992	1	7358	1
529	0	1895	1	3261	1	4627	1	5993	0	7359	1
530	1	1896	0	3262	1	4628	0	5994	1	7360	1
531	1	1897	0	3263	0	4629	0	5995	0	7361	1
532	0	1898	1	3264	0	4630	0	5996	1	7362	0
533	1	1899	1	3265	0	4631	0	5997	1	7363	1
534	1	1900	0	3266	1	4632	0	5998	0	7364	1
535	1	1901	1	3267	0	4633	0	5999	1	7365	1
536	0	1902	1	3268	0	4634	1	6000	0	7366	1
537	0	1903	1	3269	0	4635	0	6001	1	7367	0
538	0	1904	1	3270	0	4636	0	6002	0	7368	0
539	0	1905	1	3271	0	4637	1	6003	1	7369	1
540	0	1906	0	3272	1	4638	0	6004	0	7370	1
541	0	1907	1	3273	0	4639	0	6005	0	7371	0
542	0	1908	1	3274	1	4640	0	6006	0	7372	1
543	1	1909	1	3275	1	4641	1	6007	1	7373	1
544	0	1910	1	3276	1	4642	0	6008	0	7374	0
545	0	1911	1	3277	0	4643	1	6009	1	7375	0
546	1	1912	0	3278	0	4644	0	6010	1	7376	1
547	0	1913	1	3279	1	4645	1	6011	1	7377	1
548	0	1914	1	3280	0	4646	0	6012	1	7378	1
549	1	1915	1	3281	0	4647	0	6013	1	7379	1
550	1	1916	1	3282	0	4648	0	6014	0	7380	0
551	1	1917	1	3283	1	4649	1	6015	0	7381	1
552	0	1918	0	3284	0	4650	1	6016	0	7382	1
553	1	1919	0	3285	0	4651	0	6017	1	7383	0
554	0	1920	1	3286	0	4652	0	6018	1	7384	1
555	1	1921	1	3287	1	4653	0	6019	1	7385	1
556	0	1922	0	3288	0	4654	0	6020	0	7386	1
557	1	1923	0	3289	1	4655	0	6021	0	7387	0
558	0	1924	1	3290	0	4656	1	6022	1	7388	0
559	1	1925	1	3291	0	4657	1	6023	0	7389	1
560	0	1926	1	3292	1	4658	1	6024	0	7390	0
561	0	1927	0	3293	0	4659	1	6025	1	7391	0
562	0	1928	0	3294	1	4660	1	6026	0	7392	1
563	1	1929	0	3295	0	4661	0	6027	1	7393	1
564	1	1930	1	3296	1	4662	1	6028	1	7394	0

565	1	1931	1	3297	0	4663	0	6029	1	7395	0
566	1	1932	0	3298	0	4664	0	6030	1	7396	0
567	1	1933	0	3299	0	4665	0	6031	0	7397	0
568	1	1934	0	3300	1	4666	0	6032	0	7398	1
569	0	1935	0	3301	0	4667	0	6033	1	7399	1
570	1	1936	1	3302	1	4668	0	6034	1	7400	1
571	0	1937	0	3303	1	4669	0	6035	1	7401	1
572	0	1938	1	3304	0	4670	0	6036	0	7402	1
573	1	1939	0	3305	0	4671	1	6037	0	7403	0
574	1	1940	1	3306	1	4672	0	6038	0	7404	0
575	1	1941	0	3307	0	4673	1	6039	0	7405	1
576	0	1942	1	3308	0	4674	0	6040	0	7406	0
577	1	1943	0	3309	1	4675	1	6041	0	7407	0
578	0	1944	1	3310	1	4676	1	6042	1	7408	1
579	0	1945	1	3311	1	4677	0	6043	1	7409	1
580	0	1946	1	3312	1	4678	1	6044	1	7410	1
581	1	1947	1	3313	0	4679	0	6045	0	7411	0
582	0	1948	1	3314	1	4680	0	6046	1	7412	0
583	1	1949	1	3315	0	4681	1	6047	0	7413	0
584	0	1950	1	3316	0	4682	1	6048	1	7414	1
585	1	1951	1	3317	0	4683	0	6049	0	7415	1
586	1	1952	0	3318	1	4684	0	6050	0	7416	0
587	1	1953	0	3319	1	4685	1	6051	0	7417	0
588	1	1954	1	3320	1	4686	0	6052	0	7418	0
589	0	1955	0	3321	1	4687	0	6053	0	7419	0
590	1	1956	1	3322	0	4688	1	6054	0	7420	1
591	0	1957	0	3323	1	4689	1	6055	1	7421	0
592	1	1958	1	3324	1	4690	1	6056	0	7422	1
593	0	1959	1	3325	1	4691	1	6057	0	7423	0
594	0	1960	1	3326	1	4692	1	6058	1	7424	1
595	0	1961	0	3327	1	4693	0	6059	1	7425	0
596	0	1962	1	3328	1	4694	0	6060	1	7426	0
597	1	1963	1	3329	1	4695	0	6061	1	7427	0
598	1	1964	1	3330	1	4696	0	6062	1	7428	0
599	0	1965	0	3331	0	4697	0	6063	0	7429	0
600	1	1966	0	3332	1	4698	0	6064	1	7430	1
601	0	1967	0	3333	1	4699	1	6065	0	7431	1
602	1	1968	1	3334	1	4700	1	6066	1	7432	0
603	0	1969	0	3335	0	4701	0	6067	0	7433	0
604	1	1970	1	3336	0	4702	1	6068	1	7434	0
605	1	1971	0	3337	0	4703	1	6069	1	7435	1
606	0	1972	1	3338	1	4704	1	6070	0	7436	1
607	1	1973	0	3339	0	4705	1	6071	1	7437	0
608	0	1974	1	3340	0	4706	1	6072	1	7438	1

609	0	1975	0	3341	0	4707	0	6073	0	7439	0
610	0	1976	0	3342	1	4708	1	6074	0	7440	0
611	1	1977	0	3343	1	4709	1	6075	1	7441	1
612	1	1978	0	3344	1	4710	1	6076	1	7442	1
613	1	1979	0	3345	0	4711	0	6077	1	7443	0
614	0	1980	1	3346	0	4712	1	6078	0	7444	1
615	0	1981	1	3347	1	4713	1	6079	0	7445	0
616	1	1982	1	3348	0	4714	1	6080	1	7446	0
617	0	1983	1	3349	0	4715	1	6081	1	7447	0
618	0	1984	1	3350	1	4716	0	6082	1	7448	0
619	1	1985	0	3351	0	4717	0	6083	1	7449	1
620	1	1986	1	3352	1	4718	1	6084	1	7450	0
621	0	1987	0	3353	1	4719	0	6085	1	7451	1
622	0	1988	1	3354	1	4720	1	6086	1	7452	1
623	1	1989	0	3355	1	4721	1	6087	0	7453	0
624	1	1990	0	3356	0	4722	0	6088	0	7454	0
625	0	1991	1	3357	0	4723	0	6089	1	7455	1
626	0	1992	0	3358	0	4724	0	6090	0	7456	1
627	1	1993	1	3359	1	4725	1	6091	0	7457	0
628	0	1994	0	3360	1	4726	1	6092	0	7458	0
629	0	1995	0	3361	0	4727	1	6093	0	7459	1
630	1	1996	1	3362	1	4728	1	6094	1	7460	0
631	0	1997	0	3363	1	4729	0	6095	1	7461	1
632	1	1998	1	3364	0	4730	0	6096	0	7462	0
633	1	1999	0	3365	1	4731	0	6097	1	7463	0
634	0	2000	0	3366	0	4732	1	6098	0	7464	0
635	0	2001	1	3367	0	4733	1	6099	0	7465	0
636	0	2002	1	3368	0	4734	1	6100	1	7466	1
637	0	2003	1	3369	1	4735	1	6101	0	7467	0
638	0	2004	1	3370	1	4736	1	6102	0	7468	0
639	0	2005	1	3371	1	4737	0	6103	1	7469	1
640	0	2006	1	3372	0	4738	0	6104	1	7470	0
641	1	2007	1	3373	0	4739	0	6105	1	7471	1
642	1	2008	1	3374	0	4740	0	6106	1	7472	0
643	1	2009	0	3375	0	4741	0	6107	1	7473	0
644	0	2010	1	3376	1	4742	0	6108	1	7474	1
645	0	2011	0	3377	1	4743	1	6109	0	7475	1
646	1	2012	0	3378	0	4744	1	6110	1	7476	1
647	1	2013	1	3379	0	4745	1	6111	0	7477	0
648	0	2014	1	3380	1	4746	0	6112	0	7478	1
649	0	2015	0	3381	1	4747	1	6113	1	7479	0
650	0	2016	0	3382	0	4748	1	6114	1	7480	0
651	0	2017	0	3383	1	4749	0	6115	1	7481	1
652	1	2018	1	3384	0	4750	0	6116	0	7482	1

653	0	2019	1	3385	0	4751	1	6117	0	7483	1
654	1	2020	0	3386	1	4752	0	6118	1	7484	1
655	0	2021	0	3387	0	4753	0	6119	0	7485	0
656	1	2022	1	3388	1	4754	0	6120	0	7486	0
657	1	2023	0	3389	1	4755	1	6121	1	7487	0
658	1	2024	1	3390	1	4756	0	6122	0	7488	0
659	1	2025	0	3391	1	4757	1	6123	0	7489	1
660	1	2026	0	3392	0	4758	1	6124	0	7490	1
661	1	2027	0	3393	0	4759	0	6125	1	7491	1
662	0	2028	1	3394	1	4760	1	6126	0	7492	0
663	1	2029	1	3395	0	4761	0	6127	0	7493	1
664	1	2030	0	3396	1	4762	0	6128	1	7494	1
665	0	2031	0	3397	0	4763	1	6129	1	7495	0
666	0	2032	0	3398	0	4764	1	6130	1	7496	1
667	1	2033	1	3399	0	4765	0	6131	1	7497	1
668	1	2034	0	3400	0	4766	0	6132	0	7498	1
669	1	2035	0	3401	1	4767	0	6133	1	7499	1
670	0	2036	0	3402	1	4768	1	6134	1	7500	0
671	1	2037	0	3403	0	4769	1	6135	1	7501	1
672	0	2038	1	3404	0	4770	0	6136	1	7502	0
673	1	2039	0	3405	0	4771	0	6137	1	7503	1
674	0	2040	1	3406	0	4772	0	6138	1	7504	0
675	0	2041	1	3407	0	4773	0	6139	0	7505	0
676	1	2042	1	3408	0	4774	1	6140	0	7506	1
677	1	2043	0	3409	1	4775	0	6141	0	7507	1
678	1	2044	1	3410	0	4776	1	6142	1	7508	1
679	0	2045	0	3411	1	4777	1	6143	1	7509	0
680	1	2046	0	3412	0	4778	0	6144	0	7510	1
681	0	2047	0	3413	0	4779	1	6145	0	7511	1
682	1	2048	1	3414	1	4780	0	6146	0	7512	1
683	0	2049	0	3415	0	4781	0	6147	1	7513	0
684	0	2050	0	3416	0	4782	0	6148	0	7514	0
685	0	2051	1	3417	0	4783	0	6149	0	7515	0
686	0	2052	1	3418	0	4784	1	6150	1	7516	0
687	0	2053	1	3419	0	4785	0	6151	1	7517	0
688	0	2054	0	3420	0	4786	1	6152	0	7518	0
689	0	2055	1	3421	0	4787	0	6153	0	7519	0
690	1	2056	0	3422	1	4788	1	6154	1	7520	1
691	0	2057	0	3423	0	4789	1	6155	0	7521	1
692	1	2058	0	3424	0	4790	0	6156	1	7522	0
693	0	2059	1	3425	1	4791	0	6157	1	7523	1
694	1	2060	0	3426	1	4792	1	6158	0	7524	0
695	0	2061	0	3427	0	4793	1	6159	1	7525	1
696	1	2062	1	3428	0	4794	1	6160	0	7526	1

697	0	2063	0	3429	1	4795	1	6161	1	7527	1
698	0	2064	1	3430	1	4796	0	6162	0	7528	1
699	0	2065	0	3431	1	4797	0	6163	0	7529	1
700	1	2066	1	3432	1	4798	1	6164	1	7530	0
701	0	2067	0	3433	0	4799	1	6165	1	7531	0
702	0	2068	1	3434	1	4800	0	6166	0	7532	0
703	1	2069	1	3435	1	4801	0	6167	1	7533	0
704	1	2070	0	3436	0	4802	0	6168	1	7534	1
705	0	2071	0	3437	1	4803	0	6169	0	7535	1
706	1	2072	0	3438	0	4804	1	6170	0	7536	0
707	1	2073	1	3439	0	4805	0	6171	1	7537	0
708	1	2074	0	3440	0	4806	1	6172	0	7538	0
709	0	2075	0	3441	1	4807	0	6173	0	7539	1
710	0	2076	0	3442	0	4808	1	6174	1	7540	1
711	0	2077	1	3443	1	4809	1	6175	0	7541	0
712	1	2078	1	3444	1	4810	1	6176	0	7542	1
713	1	2079	0	3445	1	4811	0	6177	1	7543	1
714	0	2080	1	3446	0	4812	1	6178	0	7544	1
715	1	2081	0	3447	1	4813	0	6179	1	7545	0
716	1	2082	1	3448	1	4814	1	6180	0	7546	1
717	0	2083	1	3449	1	4815	1	6181	0	7547	1
718	1	2084	1	3450	1	4816	1	6182	1	7548	0
719	1	2085	1	3451	0	4817	1	6183	1	7549	1
720	1	2086	1	3452	1	4818	1	6184	1	7550	1
721	0	2087	1	3453	1	4819	1	6185	0	7551	0
722	0	2088	1	3454	1	4820	0	6186	1	7552	0
723	0	2089	1	3455	1	4821	1	6187	0	7553	1
724	1	2090	0	3456	0	4822	1	6188	1	7554	1
725	1	2091	0	3457	1	4823	0	6189	0	7555	1
726	1	2092	1	3458	0	4824	1	6190	1	7556	1
727	0	2093	0	3459	0	4825	1	6191	1	7557	1
728	0	2094	1	3460	0	4826	0	6192	1	7558	0
729	1	2095	1	3461	1	4827	0	6193	0	7559	1
730	0	2096	1	3462	0	4828	1	6194	0	7560	1
731	0	2097	0	3463	1	4829	0	6195	0	7561	1
732	1	2098	1	3464	1	4830	0	6196	0	7562	0
733	0	2099	0	3465	0	4831	0	6197	1	7563	1
734	0	2100	0	3466	1	4832	0	6198	1	7564	1
735	1	2101	1	3467	0	4833	0	6199	1	7565	1
736	1	2102	1	3468	0	4834	1	6200	0	7566	1
737	0	2103	1	3469	1	4835	0	6201	1	7567	0
738	0	2104	1	3470	1	4836	0	6202	1	7568	1
739	0	2105	0	3471	1	4837	0	6203	1	7569	1
740	1	2106	0	3472	1	4838	1	6204	0	7570	1

741	0	2107	0	3473	0	4839	0	6205	0	7571	1
742	1	2108	1	3474	0	4840	1	6206	0	7572	0
743	0	2109	0	3475	0	4841	1	6207	1	7573	0
744	0	2110	0	3476	1	4842	0	6208	1	7574	0
745	0	2111	1	3477	0	4843	0	6209	0	7575	0
746	1	2112	0	3478	1	4844	0	6210	1	7576	1
747	1	2113	0	3479	0	4845	0	6211	1	7577	0
748	0	2114	1	3480	1	4846	1	6212	0	7578	0
749	1	2115	0	3481	0	4847	1	6213	1	7579	0
750	0	2116	1	3482	1	4848	1	6214	1	7580	1
751	1	2117	0	3483	0	4849	0	6215	1	7581	0
752	1	2118	0	3484	0	4850	0	6216	0	7582	1
753	1	2119	0	3485	0	4851	1	6217	0	7583	0
754	0	2120	1	3486	0	4852	0	6218	1	7584	0
755	0	2121	1	3487	1	4853	0	6219	1	7585	1
756	1	2122	0	3488	0	4854	0	6220	0	7586	1
757	1	2123	0	3489	0	4855	0	6221	0	7587	0
758	0	2124	1	3490	0	4856	1	6222	0	7588	1
759	1	2125	1	3491	1	4857	0	6223	1	7589	1
760	1	2126	0	3492	1	4858	1	6224	1	7590	1
761	1	2127	0	3493	1	4859	1	6225	0	7591	1
762	1	2128	1	3494	0	4860	0	6226	0	7592	1
763	0	2129	0	3495	1	4861	1	6227	1	7593	0
764	1	2130	0	3496	1	4862	0	6228	1	7594	1
765	1	2131	0	3497	1	4863	0	6229	0	7595	1
766	1	2132	0	3498	0	4864	1	6230	0	7596	1
767	1	2133	1	3499	0	4865	0	6231	0	7597	1
768	0	2134	1	3500	1	4866	1	6232	0	7598	1
769	0	2135	1	3501	0	4867	1	6233	1	7599	0
770	0	2136	1	3502	0	4868	1	6234	0	7600	0
771	0	2137	0	3503	0	4869	0	6235	0	7601	0
772	0	2138	1	3504	1	4870	0	6236	0	7602	0
773	0	2139	1	3505	0	4871	0	6237	0	7603	1
774	0	2140	0	3506	0	4872	0	6238	0	7604	0
775	1	2141	0	3507	1	4873	0	6239	0	7605	0
776	1	2142	0	3508	0	4874	0	6240	0	7606	1
777	1	2143	1	3509	0	4875	0	6241	0	7607	1
778	0	2144	1	3510	0	4876	0	6242	1	7608	1
779	1	2145	0	3511	1	4877	1	6243	1	7609	0
780	1	2146	0	3512	1	4878	1	6244	1	7610	0
781	1	2147	0	3513	1	4879	1	6245	0	7611	1
782	1	2148	0	3514	1	4880	0	6246	1	7612	1
783	1	2149	1	3515	1	4881	1	6247	1	7613	0
784	1	2150	1	3516	0	4882	1	6248	0	7614	1

785	1	2151	1	3517	0	4883	0	6249	1	7615	1
786	0	2152	0	3518	0	4884	0	6250	0	7616	1
787	1	2153	1	3519	1	4885	0	6251	1	7617	0
788	0	2154	0	3520	0	4886	0	6252	0	7618	0
789	1	2155	0	3521	0	4887	0	6253	1	7619	0
790	1	2156	1	3522	0	4888	0	6254	0	7620	1
791	1	2157	0	3523	1	4889	0	6255	0	7621	0
792	1	2158	0	3524	0	4890	1	6256	0	7622	1
793	1	2159	1	3525	1	4891	1	6257	1	7623	1
794	1	2160	1	3526	1	4892	1	6258	0	7624	0
795	1	2161	0	3527	0	4893	0	6259	0	7625	1
796	0	2162	0	3528	1	4894	1	6260	1	7626	0
797	0	2163	0	3529	1	4895	0	6261	1	7627	0
798	1	2164	0	3530	0	4896	1	6262	1	7628	1
799	1	2165	1	3531	1	4897	1	6263	1	7629	0
800	0	2166	1	3532	0	4898	1	6264	0	7630	1
801	1	2167	1	3533	0	4899	0	6265	1	7631	0
802	1	2168	0	3534	0	4900	0	6266	1	7632	0
803	0	2169	0	3535	0	4901	1	6267	0	7633	0
804	0	2170	1	3536	0	4902	1	6268	0	7634	0
805	0	2171	1	3537	1	4903	0	6269	0	7635	0
806	1	2172	0	3538	1	4904	1	6270	1	7636	1
807	0	2173	1	3539	1	4905	0	6271	1	7637	0
808	1	2174	0	3540	1	4906	1	6272	0	7638	1
809	0	2175	0	3541	0	4907	0	6273	1	7639	0
810	1	2176	0	3542	0	4908	0	6274	0	7640	1
811	1	2177	1	3543	1	4909	1	6275	0	7641	1
812	0	2178	1	3544	0	4910	0	6276	1	7642	1
813	0	2179	1	3545	1	4911	1	6277	1	7643	1
814	1	2180	1	3546	1	4912	0	6278	0	7644	1
815	1	2181	0	3547	1	4913	1	6279	1	7645	0
816	1	2182	0	3548	1	4914	1	6280	0	7646	1
817	0	2183	0	3549	0	4915	0	6281	1	7647	1
818	0	2184	1	3550	0	4916	1	6282	1	7648	0
819	1	2185	1	3551	0	4917	0	6283	1	7649	0
820	0	2186	0	3552	0	4918	0	6284	1	7650	0
821	0	2187	1	3553	0	4919	0	6285	1	7651	1
822	1	2188	1	3554	1	4920	0	6286	0	7652	0
823	1	2189	0	3555	1	4921	1	6287	1	7653	1
824	0	2190	1	3556	0	4922	0	6288	0	7654	0
825	0	2191	0	3557	1	4923	1	6289	1	7655	0
826	0	2192	0	3558	1	4924	1	6290	1	7656	1
827	1	2193	0	3559	1	4925	0	6291	0	7657	1
828	0	2194	0	3560	0	4926	0	6292	0	7658	1

829	1	2195	1	3561	1	4927	1	6293	1	7659	1
830	1	2196	0	3562	0	4928	0	6294	1	7660	1
831	1	2197	0	3563	1	4929	0	6295	0	7661	1
832	0	2198	1	3564	0	4930	1	6296	0	7662	0
833	1	2199	1	3565	1	4931	0	6297	1	7663	1
834	0	2200	1	3566	1	4932	0	6298	1	7664	0
835	1	2201	1	3567	0	4933	1	6299	0	7665	0
836	1	2202	0	3568	0	4934	0	6300	1	7666	0
837	0	2203	0	3569	1	4935	1	6301	0	7667	0
838	1	2204	0	3570	1	4936	1	6302	1	7668	0
839	0	2205	1	3571	1	4937	0	6303	0	7669	0
840	0	2206	1	3572	1	4938	1	6304	1	7670	1
841	0	2207	0	3573	0	4939	1	6305	1	7671	0
842	0	2208	0	3574	0	4940	0	6306	1	7672	0
843	0	2209	1	3575	0	4941	1	6307	0	7673	1
844	1	2210	0	3576	0	4942	0	6308	0	7674	0
845	0	2211	0	3577	0	4943	0	6309	0	7675	0
846	0	2212	0	3578	0	4944	1	6310	1	7676	1
847	1	2213	0	3579	0	4945	0	6311	1	7677	0
848	0	2214	1	3580	1	4946	1	6312	1	7678	1
849	1	2215	1	3581	1	4947	0	6313	1	7679	0
850	1	2216	0	3582	0	4948	0	6314	0	7680	0
851	1	2217	0	3583	0	4949	0	6315	0	7681	1
852	1	2218	1	3584	0	4950	0	6316	0	7682	0
853	1	2219	1	3585	0	4951	0	6317	0	7683	0
854	0	2220	1	3586	1	4952	1	6318	0	7684	1
855	0	2221	0	3587	1	4953	1	6319	0	7685	0
856	0	2222	1	3588	1	4954	1	6320	0	7686	1
857	1	2223	1	3589	0	4955	0	6321	0	7687	1
858	0	2224	1	3590	1	4956	1	6322	0	7688	1
859	0	2225	0	3591	0	4957	0	6323	1	7689	0
860	0	2226	1	3592	1	4958	0	6324	0	7690	0
861	0	2227	1	3593	1	4959	1	6325	1	7691	0
862	0	2228	0	3594	0	4960	0	6326	1	7692	1
863	1	2229	1	3595	0	4961	1	6327	0	7693	1
864	1	2230	1	3596	1	4962	1	6328	0	7694	0
865	1	2231	0	3597	1	4963	0	6329	1	7695	0
866	1	2232	1	3598	1	4964	1	6330	0	7696	1
867	0	2233	0	3599	1	4965	1	6331	1	7697	1
868	1	2234	1	3600	1	4966	0	6332	0	7698	1
869	0	2235	0	3601	0	4967	1	6333	1	7699	0
870	1	2236	1	3602	1	4968	1	6334	1	7700	0
871	0	2237	0	3603	0	4969	1	6335	1	7701	1
872	0	2238	1	3604	1	4970	1	6336	1	7702	0

873	1	2239	1	3605	0	4971	0	6337	0	7703	1
874	1	2240	0	3606	1	4972	0	6338	0	7704	0
875	0	2241	0	3607	1	4973	1	6339	0	7705	1
876	1	2242	0	3608	0	4974	1	6340	1	7706	0
877	1	2243	1	3609	0	4975	0	6341	0	7707	0
878	1	2244	0	3610	0	4976	1	6342	1	7708	0
879	1	2245	0	3611	1	4977	0	6343	0	7709	1
880	0	2246	1	3612	0	4978	0	6344	1	7710	0
881	0	2247	0	3613	0	4979	1	6345	1	7711	1
882	0	2248	1	3614	1	4980	0	6346	0	7712	0
883	0	2249	0	3615	1	4981	0	6347	1	7713	1
884	0	2250	1	3616	0	4982	0	6348	1	7714	1
885	0	2251	0	3617	0	4983	1	6349	1	7715	0
886	1	2252	1	3618	1	4984	0	6350	0	7716	1
887	0	2253	1	3619	1	4985	1	6351	0	7717	1
888	0	2254	0	3620	1	4986	1	6352	1	7718	1
889	0	2255	0	3621	1	4987	0	6353	1	7719	0
890	0	2256	0	3622	0	4988	0	6354	0	7720	1
891	0	2257	1	3623	1	4989	0	6355	1	7721	0
892	0	2258	1	3624	0	4990	0	6356	0	7722	0
893	0	2259	1	3625	1	4991	1	6357	1	7723	0
894	0	2260	0	3626	0	4992	1	6358	1	7724	0
895	0	2261	0	3627	1	4993	0	6359	0	7725	1
896	0	2262	1	3628	0	4994	0	6360	0	7726	0
897	0	2263	0	3629	1	4995	0	6361	0	7727	0
898	0	2264	1	3630	0	4996	0	6362	0	7728	1
899	0	2265	0	3631	0	4997	1	6363	1	7729	1
900	1	2266	0	3632	1	4998	0	6364	1	7730	0
901	1	2267	0	3633	1	4999	1	6365	0	7731	0
902	0	2268	0	3634	0	5000	1	6366	1	7732	0
903	1	2269	0	3635	0	5001	1	6367	1	7733	1
904	0	2270	1	3636	1	5002	1	6368	0	7734	1
905	1	2271	1	3637	1	5003	0	6369	1	7735	0
906	1	2272	0	3638	0	5004	0	6370	0	7736	1
907	0	2273	1	3639	0	5005	1	6371	0	7737	1
908	1	2274	1	3640	1	5006	1	6372	1	7738	1
909	1	2275	0	3641	0	5007	1	6373	1	7739	1
910	1	2276	0	3642	1	5008	1	6374	0	7740	1
911	1	2277	0	3643	1	5009	1	6375	1	7741	1
912	1	2278	0	3644	0	5010	1	6376	1	7742	1
913	1	2279	1	3645	1	5011	1	6377	0	7743	1
914	1	2280	0	3646	0	5012	1	6378	1	7744	0
915	1	2281	1	3647	0	5013	1	6379	1	7745	0
916	0	2282	1	3648	0	5014	1	6380	1	7746	1

917	1	2283	0	3649	0	5015	0	6381	1	7747	0
918	0	2284	1	3650	0	5016	0	6382	0	7748	1
919	1	2285	0	3651	0	5017	0	6383	0	7749	1
920	1	2286	0	3652	0	5018	1	6384	0	7750	1
921	1	2287	0	3653	0	5019	1	6385	0	7751	0
922	0	2288	0	3654	0	5020	0	6386	1	7752	1
923	1	2289	0	3655	0	5021	0	6387	0	7753	1
924	0	2290	1	3656	1	5022	0	6388	1	7754	1
925	0	2291	1	3657	0	5023	0	6389	1	7755	0
926	0	2292	0	3658	0	5024	1	6390	1	7756	1
927	1	2293	0	3659	0	5025	1	6391	0	7757	1
928	0	2294	0	3660	1	5026	0	6392	1	7758	1
929	0	2295	1	3661	1	5027	0	6393	1	7759	0
930	0	2296	1	3662	1	5028	1	6394	0	7760	1
931	0	2297	0	3663	0	5029	1	6395	0	7761	0
932	0	2298	0	3664	1	5030	1	6396	1	7762	1
933	0	2299	1	3665	1	5031	0	6397	0	7763	0
934	0	2300	1	3666	0	5032	1	6398	1	7764	0
935	1	2301	1	3667	1	5033	1	6399	1	7765	0
936	0	2302	1	3668	1	5034	1	6400	0	7766	0
937	0	2303	0	3669	1	5035	1	6401	1	7767	1
938	0	2304	1	3670	1	5036	0	6402	0	7768	0
939	0	2305	1	3671	1	5037	1	6403	1	7769	0
940	0	2306	1	3672	1	5038	0	6404	0	7770	1
941	1	2307	0	3673	0	5039	1	6405	0	7771	0
942	0	2308	1	3674	1	5040	0	6406	1	7772	1
943	0	2309	0	3675	1	5041	0	6407	1	7773	1
944	0	2310	1	3676	1	5042	1	6408	0	7774	1
945	0	2311	0	3677	1	5043	0	6409	0	7775	0
946	1	2312	0	3678	1	5044	1	6410	0	7776	0
947	0	2313	1	3679	1	5045	1	6411	0	7777	0
948	0	2314	1	3680	1	5046	0	6412	1	7778	0
949	0	2315	1	3681	1	5047	0	6413	1	7779	1
950	0	2316	1	3682	0	5048	0	6414	0	7780	1
951	1	2317	0	3683	1	5049	1	6415	1	7781	0
952	1	2318	1	3684	1	5050	1	6416	0	7782	0
953	1	2319	1	3685	1	5051	1	6417	1	7783	0
954	1	2320	1	3686	1	5052	0	6418	0	7784	1
955	1	2321	0	3687	1	5053	1	6419	0	7785	0
956	1	2322	0	3688	0	5054	0	6420	1	7786	0
957	0	2323	0	3689	0	5055	0	6421	1	7787	0
958	1	2324	0	3690	0	5056	1	6422	1	7788	0
959	1	2325	1	3691	0	5057	0	6423	1	7789	1
960	0	2326	1	3692	1	5058	1	6424	1	7790	0

961	0	2327	0	3693	1	5059	0	6425	0	7791	0
962	1	2328	0	3694	0	5060	1	6426	1	7792	1
963	1	2329	1	3695	0	5061	0	6427	1	7793	1
964	1	2330	0	3696	0	5062	1	6428	0	7794	0
965	1	2331	0	3697	1	5063	0	6429	0	7795	1
966	0	2332	1	3698	1	5064	1	6430	0	7796	0
967	0	2333	0	3699	0	5065	0	6431	0	7797	1
968	0	2334	1	3700	1	5066	0	6432	0	7798	0
969	1	2335	0	3701	0	5067	0	6433	0	7799	0
970	1	2336	1	3702	0	5068	1	6434	0	7800	0
971	1	2337	0	3703	1	5069	1	6435	1	7801	1
972	0	2338	1	3704	1	5070	1	6436	1	7802	1
973	1	2339	1	3705	1	5071	0	6437	0	7803	0
974	1	2340	1	3706	1	5072	1	6438	0	7804	0
975	1	2341	0	3707	1	5073	0	6439	1	7805	1
976	0	2342	1	3708	1	5074	1	6440	1	7806	1
977	0	2343	0	3709	0	5075	1	6441	0	7807	0
978	1	2344	0	3710	1	5076	1	6442	0	7808	0
979	1	2345	1	3711	1	5077	1	6443	1	7809	1
980	0	2346	0	3712	0	5078	0	6444	0	7810	0
981	1	2347	1	3713	0	5079	0	6445	1	7811	0
982	0	2348	1	3714	0	5080	0	6446	0	7812	0
983	1	2349	0	3715	1	5081	1	6447	1	7813	1
984	0	2350	0	3716	1	5082	1	6448	0	7814	1
985	0	2351	0	3717	1	5083	1	6449	0	7815	0
986	1	2352	1	3718	0	5084	0	6450	0	7816	1
987	0	2353	0	3719	1	5085	0	6451	1	7817	1
988	0	2354	1	3720	1	5086	1	6452	1	7818	1
989	0	2355	1	3721	0	5087	1	6453	0	7819	1
990	1	2356	0	3722	0	5088	1	6454	1	7820	1
991	0	2357	0	3723	1	5089	1	6455	1	7821	0
992	0	2358	0	3724	1	5090	1	6456	0	7822	1
993	0	2359	0	3725	0	5091	1	6457	0	7823	0
994	1	2360	0	3726	1	5092	0	6458	1	7824	1
995	1	2361	0	3727	1	5093	1	6459	0	7825	1
996	0	2362	0	3728	0	5094	0	6460	0	7826	0
997	0	2363	0	3729	1	5095	1	6461	0	7827	0
998	1	2364	1	3730	0	5096	0	6462	1	7828	0
999	1	2365	0	3731	1	5097	0	6463	0	7829	0
1000	1	2366	0	3732	0	5098	1	6464	0	7830	0
1001	0	2367	0	3733	0	5099	0	6465	0	7831	1
1002	1	2368	0	3734	1	5100	1	6466	0	7832	1
1003	0	2369	0	3735	0	5101	0	6467	1	7833	1
1004	0	2370	0	3736	1	5102	1	6468	1	7834	1

1005	1	2371	1	3737	0	5103	0	6469	0	7835	0
1006	1	2372	0	3738	0	5104	1	6470	1	7836	0
1007	1	2373	1	3739	0	5105	0	6471	0	7837	1
1008	1	2374	1	3740	0	5106	1	6472	1	7838	1
1009	1	2375	1	3741	0	5107	1	6473	0	7839	0
1010	0	2376	1	3742	1	5108	0	6474	0	7840	0
1011	0	2377	0	3743	1	5109	0	6475	1	7841	1
1012	1	2378	1	3744	0	5110	1	6476	0	7842	0
1013	1	2379	0	3745	1	5111	0	6477	1	7843	1
1014	1	2380	1	3746	0	5112	1	6478	1	7844	1
1015	0	2381	1	3747	1	5113	1	6479	0	7845	1
1016	1	2382	1	3748	1	5114	1	6480	1	7846	1
1017	0	2383	1	3749	1	5115	0	6481	1	7847	1
1018	0	2384	1	3750	1	5116	0	6482	1	7848	0
1019	1	2385	0	3751	0	5117	1	6483	0	7849	0
1020	0	2386	1	3752	1	5118	1	6484	0	7850	1
1021	0	2387	1	3753	0	5119	1	6485	1	7851	1
1022	1	2388	1	3754	1	5120	0	6486	1	7852	0
1023	0	2389	1	3755	0	5121	0	6487	1	7853	1
1024	0	2390	1	3756	0	5122	0	6488	1	7854	1
1025	1	2391	0	3757	0	5123	1	6489	1	7855	1
1026	0	2392	0	3758	1	5124	0	6490	1	7856	0
1027	1	2393	0	3759	1	5125	1	6491	1	7857	1
1028	0	2394	0	3760	1	5126	1	6492	1	7858	1
1029	1	2395	0	3761	1	5127	1	6493	0	7859	1
1030	0	2396	1	3762	0	5128	0	6494	1	7860	1
1031	1	2397	1	3763	0	5129	0	6495	0	7861	0
1032	1	2398	1	3764	0	5130	0	6496	1	7862	0
1033	0	2399	0	3765	1	5131	1	6497	1	7863	1
1034	1	2400	0	3766	1	5132	1	6498	0	7864	0
1035	0	2401	1	3767	1	5133	1	6499	0	7865	0
1036	1	2402	1	3768	1	5134	0	6500	0	7866	0
1037	0	2403	0	3769	1	5135	1	6501	1	7867	0
1038	1	2404	1	3770	1	5136	0	6502	1	7868	1
1039	0	2405	1	3771	0	5137	0	6503	0	7869	0
1040	0	2406	1	3772	1	5138	1	6504	1	7870	1
1041	1	2407	1	3773	1	5139	0	6505	1	7871	1
1042	1	2408	1	3774	0	5140	0	6506	0	7872	1
1043	1	2409	1	3775	0	5141	1	6507	1	7873	1
1044	0	2410	0	3776	1	5142	0	6508	1	7874	0
1045	0	2411	1	3777	0	5143	0	6509	0	7875	0
1046	0	2412	0	3778	1	5144	0	6510	1	7876	0
1047	1	2413	0	3779	0	5145	1	6511	1	7877	1
1048	1	2414	1	3780	1	5146	0	6512	1	7878	0

1049	1	2415	1	3781	0	5147	0	6513	1	7879	1
1050	1	2416	0	3782	1	5148	1	6514	0	7880	1
1051	1	2417	1	3783	0	5149	0	6515	0	7881	1
1052	0	2418	1	3784	0	5150	0	6516	0	7882	0
1053	1	2419	0	3785	1	5151	0	6517	0	7883	1
1054	0	2420	1	3786	0	5152	0	6518	0	7884	0
1055	0	2421	1	3787	0	5153	1	6519	1	7885	1
1056	0	2422	0	3788	0	5154	1	6520	1	7886	1
1057	0	2423	1	3789	1	5155	0	6521	0	7887	0
1058	0	2424	0	3790	1	5156	0	6522	1	7888	1
1059	0	2425	1	3791	1	5157	1	6523	0	7889	0
1060	1	2426	1	3792	1	5158	1	6524	0	7890	1
1061	1	2427	0	3793	0	5159	0	6525	0	7891	1
1062	0	2428	1	3794	1	5160	1	6526	1	7892	1
1063	1	2429	0	3795	1	5161	1	6527	1	7893	1
1064	1	2430	1	3796	1	5162	0	6528	0	7894	1
1065	1	2431	0	3797	0	5163	1	6529	1	7895	1
1066	1	2432	1	3798	0	5164	1	6530	1	7896	1
1067	0	2433	0	3799	0	5165	0	6531	0	7897	0
1068	1	2434	1	3800	1	5166	1	6532	1	7898	0
1069	1	2435	0	3801	1	5167	0	6533	0	7899	1
1070	1	2436	0	3802	1	5168	0	6534	1	7900	0
1071	1	2437	0	3803	0	5169	1	6535	0	7901	1
1072	0	2438	0	3804	0	5170	0	6536	1	7902	1
1073	1	2439	0	3805	1	5171	1	6537	0	7903	1
1074	1	2440	1	3806	1	5172	0	6538	0	7904	1
1075	0	2441	0	3807	0	5173	0	6539	0	7905	1
1076	1	2442	1	3808	0	5174	0	6540	0	7906	1
1077	1	2443	1	3809	0	5175	0	6541	0	7907	0
1078	0	2444	1	3810	0	5176	1	6542	0	7908	0
1079	0	2445	1	3811	1	5177	0	6543	0	7909	0
1080	1	2446	1	3812	1	5178	0	6544	1	7910	0
1081	0	2447	0	3813	0	5179	1	6545	0	7911	0
1082	1	2448	1	3814	0	5180	1	6546	0	7912	1
1083	0	2449	1	3815	1	5181	0	6547	0	7913	0
1084	1	2450	1	3816	0	5182	0	6548	0	7914	0
1085	0	2451	0	3817	0	5183	1	6549	0	7915	0
1086	0	2452	1	3818	0	5184	0	6550	1	7916	1
1087	1	2453	1	3819	1	5185	1	6551	1	7917	0
1088	0	2454	1	3820	0	5186	1	6552	0	7918	1
1089	1	2455	0	3821	0	5187	0	6553	1	7919	0
1090	1	2456	0	3822	1	5188	0	6554	1	7920	0
1091	0	2457	1	3823	0	5189	0	6555	0	7921	1
1092	1	2458	1	3824	0	5190	1	6556	1	7922	0

1093	1	2459	1	3825	0	5191	1	6557	0	7923	1
1094	1	2460	0	3826	1	5192	0	6558	0	7924	0
1095	0	2461	0	3827	0	5193	0	6559	1	7925	1
1096	1	2462	0	3828	0	5194	0	6560	0	7926	1
1097	1	2463	0	3829	0	5195	1	6561	1	7927	0
1098	1	2464	0	3830	1	5196	0	6562	1	7928	0
1099	0	2465	0	3831	0	5197	1	6563	1	7929	1
1100	1	2466	0	3832	0	5198	0	6564	1	7930	0
1101	1	2467	1	3833	0	5199	0	6565	0	7931	0
1102	0	2468	1	3834	0	5200	0	6566	0	7932	0
1103	1	2469	1	3835	1	5201	1	6567	1	7933	0
1104	1	2470	1	3836	0	5202	1	6568	0	7934	0
1105	0	2471	0	3837	0	5203	1	6569	1	7935	0
1106	0	2472	1	3838	0	5204	1	6570	0	7936	1
1107	1	2473	0	3839	0	5205	1	6571	0	7937	0
1108	0	2474	0	3840	1	5206	1	6572	0	7938	1
1109	0	2475	1	3841	0	5207	1	6573	1	7939	1
1110	0	2476	0	3842	0	5208	0	6574	1	7940	1
1111	0	2477	0	3843	0	5209	0	6575	1	7941	0
1112	1	2478	0	3844	1	5210	0	6576	1	7942	0
1113	0	2479	1	3845	1	5211	0	6577	1	7943	0
1114	0	2480	1	3846	0	5212	0	6578	0	7944	0
1115	1	2481	1	3847	1	5213	1	6579	0	7945	1
1116	1	2482	0	3848	1	5214	1	6580	1	7946	0
1117	1	2483	0	3849	0	5215	0	6581	0	7947	0
1118	0	2484	0	3850	0	5216	1	6582	1	7948	1
1119	1	2485	0	3851	1	5217	0	6583	1	7949	0
1120	1	2486	0	3852	1	5218	0	6584	1	7950	0
1121	0	2487	0	3853	0	5219	1	6585	1	7951	0
1122	0	2488	1	3854	0	5220	1	6586	1	7952	1
1123	0	2489	1	3855	1	5221	0	6587	0	7953	1
1124	1	2490	1	3856	0	5222	0	6588	0	7954	1
1125	1	2491	0	3857	0	5223	1	6589	1	7955	0
1126	0	2492	1	3858	0	5224	0	6590	0	7956	1
1127	1	2493	0	3859	1	5225	0	6591	0	7957	0
1128	0	2494	1	3860	0	5226	1	6592	0	7958	1
1129	0	2495	0	3861	0	5227	0	6593	1	7959	1
1130	1	2496	0	3862	0	5228	1	6594	1	7960	1
1131	1	2497	1	3863	1	5229	0	6595	0	7961	1
1132	1	2498	1	3864	0	5230	1	6596	0	7962	0
1133	1	2499	1	3865	0	5231	1	6597	0	7963	1
1134	0	2500	0	3866	1	5232	0	6598	0	7964	1
1135	0	2501	0	3867	0	5233	1	6599	0	7965	0
1136	0	2502	0	3868	0	5234	0	6600	1	7966	1

1137	1	2503	1	3869	0	5235	0	6601	1	7967	0
1138	1	2504	1	3870	0	5236	1	6602	0	7968	0
1139	1	2505	0	3871	1	5237	0	6603	1	7969	0
1140	0	2506	0	3872	1	5238	0	6604	1	7970	0
1141	0	2507	0	3873	0	5239	1	6605	0	7971	0
1142	0	2508	0	3874	1	5240	1	6606	1	7972	1
1143	0	2509	1	3875	0	5241	0	6607	0	7973	0
1144	1	2510	1	3876	0	5242	0	6608	1	7974	1
1145	1	2511	1	3877	0	5243	0	6609	1	7975	0
1146	0	2512	0	3878	0	5244	0	6610	0	7976	1
1147	0	2513	1	3879	1	5245	1	6611	1	7977	0
1148	0	2514	1	3880	0	5246	0	6612	1	7978	0
1149	0	2515	0	3881	0	5247	0	6613	1	7979	0
1150	1	2516	0	3882	0	5248	0	6614	1	7980	0
1151	1	2517	0	3883	1	5249	0	6615	1	7981	1
1152	1	2518	1	3884	0	5250	1	6616	0	7982	0
1153	0	2519	0	3885	0	5251	0	6617	1	7983	1
1154	0	2520	0	3886	0	5252	0	6618	1	7984	0
1155	1	2521	0	3887	1	5253	0	6619	0	7985	1
1156	0	2522	0	3888	0	5254	1	6620	1	7986	1
1157	1	2523	1	3889	1	5255	0	6621	1	7987	1
1158	0	2524	0	3890	1	5256	1	6622	1	7988	0
1159	0	2525	1	3891	1	5257	1	6623	1	7989	0
1160	1	2526	0	3892	1	5258	0	6624	0	7990	0
1161	0	2527	0	3893	0	5259	0	6625	1	7991	1
1162	1	2528	0	3894	0	5260	1	6626	1	7992	0
1163	0	2529	0	3895	0	5261	1	6627	0	7993	0
1164	0	2530	0	3896	0	5262	1	6628	1	7994	0
1165	0	2531	1	3897	0	5263	0	6629	1	7995	1
1166	1	2532	1	3898	1	5264	1	6630	0	7996	1
1167	0	2533	1	3899	1	5265	1	6631	1	7997	0
1168	0	2534	1	3900	0	5266	1	6632	1	7998	1
1169	0	2535	0	3901	1	5267	1	6633	1	7999	1
1170	0	2536	1	3902	1	5268	1	6634	1	8000	1
1171	0	2537	1	3903	0	5269	0	6635	1	8001	0
1172	0	2538	1	3904	1	5270	0	6636	1	8002	1
1173	1	2539	0	3905	0	5271	0	6637	1	8003	0
1174	1	2540	0	3906	1	5272	0	6638	1	8004	0
1175	1	2541	1	3907	0	5273	0	6639	0	8005	1
1176	1	2542	0	3908	0	5274	1	6640	0	8006	1
1177	0	2543	1	3909	1	5275	0	6641	0	8007	1
1178	0	2544	0	3910	0	5276	1	6642	1	8008	0
1179	0	2545	0	3911	0	5277	1	6643	0	8009	1
1180	1	2546	0	3912	1	5278	1	6644	1	8010	1

1181	1	2547	0	3913	0	5279	1	6645	0	8011	0
1182	1	2548	1	3914	1	5280	0	6646	1	8012	1
1183	1	2549	1	3915	0	5281	0	6647	1	8013	1
1184	0	2550	0	3916	1	5282	1	6648	0	8014	1
1185	1	2551	0	3917	0	5283	1	6649	0	8015	0
1186	0	2552	1	3918	1	5284	1	6650	0	8016	1
1187	0	2553	0	3919	0	5285	1	6651	1	8017	1
1188	0	2554	1	3920	0	5286	1	6652	1	8018	0
1189	0	2555	1	3921	1	5287	0	6653	1	8019	1
1190	1	2556	1	3922	0	5288	0	6654	0	8020	1
1191	0	2557	0	3923	1	5289	0	6655	1	8021	1
1192	0	2558	0	3924	0	5290	1	6656	1	8022	0
1193	1	2559	1	3925	0	5291	1	6657	0	8023	1
1194	0	2560	0	3926	1	5292	0	6658	0	8024	0
1195	0	2561	0	3927	1	5293	0	6659	1	8025	0
1196	1	2562	0	3928	0	5294	1	6660	1	8026	0
1197	1	2563	0	3929	1	5295	0	6661	1	8027	0
1198	1	2564	1	3930	1	5296	0	6662	1	8028	1
1199	1	2565	1	3931	0	5297	0	6663	1	8029	1
1200	1	2566	0	3932	0	5298	1	6664	1	8030	1
1201	1	2567	1	3933	0	5299	1	6665	0	8031	1
1202	1	2568	0	3934	1	5300	0	6666	1	8032	0
1203	1	2569	0	3935	0	5301	1	6667	0	8033	0
1204	0	2570	0	3936	1	5302	1	6668	0	8034	0
1205	1	2571	1	3937	0	5303	1	6669	0	8035	0
1206	1	2572	1	3938	0	5304	1	6670	1	8036	1
1207	1	2573	0	3939	1	5305	0	6671	0	8037	0
1208	1	2574	1	3940	1	5306	1	6672	1	8038	1
1209	0	2575	0	3941	1	5307	0	6673	1	8039	1
1210	1	2576	0	3942	0	5308	1	6674	0	8040	1
1211	1	2577	1	3943	0	5309	1	6675	0	8041	0
1212	1	2578	0	3944	1	5310	0	6676	1	8042	0
1213	0	2579	0	3945	0	5311	0	6677	0	8043	1
1214	0	2580	0	3946	0	5312	1	6678	0	8044	1
1215	1	2581	0	3947	1	5313	1	6679	1	8045	1
1216	0	2582	0	3948	1	5314	0	6680	1	8046	1
1217	1	2583	1	3949	0	5315	1	6681	0	8047	1
1218	1	2584	1	3950	0	5316	1	6682	1	8048	0
1219	1	2585	0	3951	1	5317	1	6683	0	8049	0
1220	0	2586	0	3952	0	5318	1	6684	1	8050	0
1221	0	2587	0	3953	1	5319	0	6685	0	8051	0
1222	0	2588	1	3954	1	5320	1	6686	0	8052	0
1223	1	2589	1	3955	0	5321	0	6687	1	8053	0
1224	1	2590	0	3956	1	5322	1	6688	0	8054	0

1225	0	2591	0	3957	0	5323	1	6689	0	8055	0
1226	0	2592	0	3958	1	5324	1	6690	1	8056	0
1227	1	2593	0	3959	0	5325	1	6691	1	8057	0
1228	1	2594	0	3960	0	5326	0	6692	0	8058	0
1229	1	2595	0	3961	0	5327	0	6693	0	8059	1
1230	0	2596	1	3962	0	5328	1	6694	1	8060	1
1231	1	2597	0	3963	0	5329	0	6695	1	8061	0
1232	0	2598	1	3964	0	5330	0	6696	0	8062	0
1233	0	2599	1	3965	1	5331	0	6697	1	8063	0
1234	1	2600	0	3966	0	5332	0	6698	1	8064	0
1235	1	2601	0	3967	1	5333	0	6699	1	8065	0
1236	0	2602	0	3968	1	5334	0	6700	0	8066	1
1237	1	2603	0	3969	0	5335	1	6701	0	8067	0
1238	0	2604	1	3970	1	5336	1	6702	0	8068	0
1239	0	2605	1	3971	1	5337	1	6703	1	8069	0
1240	1	2606	0	3972	1	5338	1	6704	0	8070	1
1241	0	2607	0	3973	0	5339	1	6705	0	8071	0
1242	0	2608	1	3974	1	5340	0	6706	0	8072	1
1243	1	2609	0	3975	1	5341	0	6707	1	8073	1
1244	1	2610	0	3976	1	5342	1	6708	0	8074	1
1245	1	2611	0	3977	1	5343	1	6709	1	8075	1
1246	0	2612	1	3978	1	5344	0	6710	1	8076	1
1247	0	2613	0	3979	0	5345	0	6711	1	8077	0
1248	0	2614	0	3980	1	5346	1	6712	0	8078	1
1249	0	2615	1	3981	0	5347	0	6713	1	8079	0
1250	0	2616	0	3982	0	5348	1	6714	0	8080	0
1251	0	2617	0	3983	0	5349	0	6715	1	8081	1
1252	1	2618	1	3984	1	5350	0	6716	1	8082	0
1253	0	2619	1	3985	1	5351	1	6717	1	8083	1
1254	0	2620	0	3986	0	5352	0	6718	0	8084	0
1255	0	2621	0	3987	0	5353	1	6719	1	8085	0
1256	1	2622	1	3988	0	5354	1	6720	1	8086	0
1257	0	2623	0	3989	1	5355	1	6721	1	8087	1
1258	1	2624	1	3990	0	5356	0	6722	0	8088	0
1259	1	2625	0	3991	0	5357	0	6723	1	8089	0
1260	0	2626	0	3992	1	5358	0	6724	1	8090	1
1261	1	2627	0	3993	1	5359	1	6725	0	8091	0
1262	1	2628	0	3994	0	5360	0	6726	1	8092	0
1263	0	2629	1	3995	0	5361	0	6727	1	8093	1
1264	0	2630	0	3996	1	5362	1	6728	1	8094	1
1265	1	2631	0	3997	0	5363	1	6729	1	8095	1
1266	1	2632	0	3998	0	5364	0	6730	0	8096	1
1267	0	2633	0	3999	0	5365	0	6731	0	8097	0
1268	0	2634	0	4000	1	5366	0	6732	0	8098	1

1269	1	2635	1	4001	1	5367	0	6733	1	8099	0
1270	0	2636	1	4002	0	5368	0	6734	1	8100	1
1271	1	2637	1	4003	1	5369	0	6735	1	8101	1
1272	0	2638	0	4004	0	5370	1	6736	1	8102	1
1273	1	2639	0	4005	0	5371	1	6737	1	8103	1
1274	0	2640	1	4006	1	5372	0	6738	0	8104	1
1275	0	2641	0	4007	0	5373	1	6739	0	8105	0
1276	0	2642	0	4008	0	5374	0	6740	1	8106	1
1277	0	2643	0	4009	1	5375	1	6741	0	8107	1
1278	1	2644	1	4010	1	5376	0	6742	0	8108	1
1279	1	2645	1	4011	0	5377	1	6743	1	8109	0
1280	1	2646	1	4012	0	5378	0	6744	1	8110	1
1281	1	2647	1	4013	1	5379	0	6745	1	8111	0
1282	0	2648	0	4014	0	5380	1	6746	1	8112	0
1283	0	2649	0	4015	1	5381	0	6747	0	8113	1
1284	1	2650	1	4016	1	5382	1	6748	0	8114	0
1285	0	2651	0	4017	1	5383	1	6749	1	8115	0
1286	1	2652	0	4018	0	5384	1	6750	1	8116	0
1287	0	2653	1	4019	1	5385	1	6751	0	8117	1
1288	1	2654	1	4020	1	5386	0	6752	0	8118	0
1289	0	2655	1	4021	0	5387	0	6753	0	8119	0
1290	0	2656	1	4022	0	5388	0	6754	1	8120	1
1291	1	2657	1	4023	0	5389	1	6755	1	8121	1
1292	0	2658	1	4024	0	5390	0	6756	1	8122	1
1293	1	2659	0	4025	0	5391	0	6757	0	8123	0
1294	0	2660	0	4026	1	5392	0	6758	1	8124	0
1295	1	2661	0	4027	0	5393	1	6759	1	8125	0
1296	0	2662	0	4028	1	5394	1	6760	1	8126	0
1297	1	2663	1	4029	1	5395	0	6761	1	8127	0
1298	1	2664	1	4030	1	5396	1	6762	0	8128	1
1299	1	2665	0	4031	0	5397	0	6763	1	8129	0
1300	1	2666	1	4032	1	5398	0	6764	1	8130	0
1301	1	2667	1	4033	0	5399	0	6765	0	8131	0
1302	0	2668	1	4034	1	5400	0	6766	0	8132	1
1303	1	2669	1	4035	0	5401	1	6767	0	8133	0
1304	0	2670	1	4036	1	5402	1	6768	1	8134	0
1305	1	2671	1	4037	1	5403	1	6769	1	8135	1
1306	1	2672	0	4038	1	5404	0	6770	1	8136	1
1307	0	2673	0	4039	1	5405	0	6771	0	8137	1
1308	0	2674	0	4040	0	5406	0	6772	1	8138	0
1309	0	2675	1	4041	1	5407	1	6773	1	8139	0
1310	0	2676	0	4042	0	5408	0	6774	1	8140	0
1311	1	2677	0	4043	1	5409	1	6775	0	8141	1
1312	1	2678	0	4044	0	5410	0	6776	1	8142	1

1313	1	2679	1	4045	1	5411	0	6777	0	8143	1
1314	1	2680	0	4046	0	5412	1	6778	1	8144	1
1315	0	2681	0	4047	0	5413	0	6779	1	8145	1
1316	1	2682	1	4048	0	5414	1	6780	0	8146	1
1317	0	2683	1	4049	0	5415	0	6781	0	8147	1
1318	0	2684	0	4050	0	5416	1	6782	0	8148	0
1319	0	2685	1	4051	1	5417	0	6783	1	8149	1
1320	1	2686	0	4052	0	5418	0	6784	1	8150	0
1321	1	2687	1	4053	0	5419	1	6785	0	8151	1
1322	0	2688	0	4054	0	5420	1	6786	0	8152	0
1323	1	2689	1	4055	1	5421	0	6787	0	8153	1
1324	0	2690	1	4056	1	5422	1	6788	1	8154	0
1325	1	2691	0	4057	1	5423	0	6789	0	8155	1
1326	0	2692	1	4058	0	5424	0	6790	0	8156	1
1327	0	2693	0	4059	1	5425	0	6791	0	8157	0
1328	0	2694	1	4060	0	5426	0	6792	1	8158	0
1329	0	2695	1	4061	0	5427	1	6793	1	8159	0
1330	1	2696	0	4062	0	5428	0	6794	0	8160	1
1331	1	2697	0	4063	0	5429	0	6795	0	8161	0
1332	0	2698	1	4064	0	5430	1	6796	0	8162	0
1333	1	2699	1	4065	0	5431	1	6797	1	8163	1
1334	0	2700	1	4066	0	5432	0	6798	1	8164	0
1335	0	2701	0	4067	1	5433	0	6799	1	8165	1
1336	0	2702	1	4068	0	5434	0	6800	1	8166	0
1337	1	2703	0	4069	1	5435	1	6801	0	8167	1
1338	0	2704	0	4070	1	5436	0	6802	0	8168	1
1339	1	2705	0	4071	1	5437	0	6803	0	8169	1
1340	1	2706	0	4072	1	5438	0	6804	1	8170	1
1341	0	2707	0	4073	1	5439	0	6805	0	8171	0
1342	0	2708	1	4074	0	5440	1	6806	1	8172	0
1343	1	2709	0	4075	0	5441	0	6807	0	8173	1
1344	1	2710	1	4076	1	5442	1	6808	0	8174	0
1345	0	2711	1	4077	0	5443	0	6809	1	8175	0
1346	0	2712	0	4078	1	5444	1	6810	1	8176	1
1347	1	2713	0	4079	1	5445	0	6811	0	8177	1
1348	0	2714	1	4080	1	5446	1	6812	0	8178	1
1349	0	2715	1	4081	0	5447	0	6813	0	8179	1
1350	1	2716	1	4082	0	5448	1	6814	1	8180	0
1351	1	2717	1	4083	0	5449	1	6815	1	8181	1
1352	1	2718	1	4084	1	5450	0	6816	1	8182	0
1353	1	2719	1	4085	0	5451	0	6817	1	8183	0
1354	1	2720	0	4086	0	5452	1	6818	1	8184	0
1355	0	2721	1	4087	1	5453	0	6819	1	8185	1
1356	1	2722	1	4088	1	5454	0	6820	0	8186	1

1357	1	2723	1	4089	0	5455	1	6821	0	8187	1
1358	0	2724	0	4090	1	5456	0	6822	0	8188	0
1359	0	2725	0	4091	1	5457	0	6823	1	8189	0
1360	1	2726	1	4092	0	5458	1	6824	1	8190	0
1361	1	2727	0	4093	0	5459	1	6825	0	8191	1
1362	1	2728	0	4094	1	5460	1	6826	0		
1363	1	2729	0	4095	1	5461	0	6827	0		
1364	1	2730	0	4096	1	5462	1	6828	0		
1365	0	2731	0	4097	0	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`