

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

$$\begin{aligned} p_0(z) &= z^{20} + z^{18} + z^{17} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^6 + z^3 + z + 1, \\ p_1(z) &= z^{23} + z^{21} + z^{18} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^4 + z^3 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{20} + z^{18} + z^{16} + z^{12} + z^{10} + z^8 + z^2, \\ p_3(z) &= z^{23} + z^{21} + z^{18} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^4 + z^3 + z^2 + z, \\ p_4(z) &= z^{22} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^9 + z^6 + z^4 + z^3 + z^2 + z, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^9 + z^6 + z^3 + z, \\ p_1(z) &= z^{23} + z^{21} + z^{18} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^4 + z^3 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{20} + z^{18} + z^{16} + z^{12} + z^{10} + z^8 + z^2, \\ p_3(z) &= z^{23} + z^{21} + z^{18} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^4 + z^3 + z^2 + z, \\ p_4(z) &= z^{22} + z^{20} + z^{17} + z^{14} + z^{13} + z^{11} + z^9 + z^6 + z^4 + z^3 + z^2 + z + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

$$(2.7) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[110w]_2],$$

$$(2.8) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] \\ + T[[111w]_2],$$

$$(2.9) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[1000w]_2],$$

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

$$(2.11) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] \\ + T[[1011w]_2],$$

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

$$(2.13) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[110w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2]$$

$$(2.14) \quad + T[[111w]_2],$$

$$(2.15) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[1000w]_2],$$

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

$$(2.17) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1010w]_2],$$

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

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

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

$$(2.19) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\ + \tau(A(s, 110)),$$

$$(2.20) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\ + \tau(A(s, 101)) + \tau(A(s, 111)),$$

$$(2.21) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 1000)),$$

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 1001)), \\ 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11))$$

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

$$(2.24) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ + \tau(A(s, 1011)),$$

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

$$(2.25) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\ + \tau(A(s, 110)),$$

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

$$(2.26) \quad + \tau(A(s, 101)) + \tau(A(s, 111)),$$

$$(2.27) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 1000)),$$

$$(2.28) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 1001)), \\ 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11))$$

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

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

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

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

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

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

$$M_{2k} = M^e[:6u] + x^u M^e[:5u] + x^{3u} M^e[:3u] + x^{4u} M^e[:2u] + x^{6u} R^e,$$

$$W_{2k} = W^e[:6u] + x^u W^e[:5u] + x^{3u} W^e[:3u] + x^{4u} W^e[:2u] + x^{6u} R^e.$$

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

$$M_{2k+1} = M^o[:6u] + x^u M^o[:5u] + x^{3u} M^o[:3u] + x^{4u} M^o[:2u] + x^{6u} R^o,$$

$$W_{2k+1} = W^o[:6u] + x^u W^o[:5u] + x^{3u} W^o[:3u] + x^{4u} W^o[:2u] + x^{6u} R^o.$$

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

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

We give the proof of

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

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

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

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

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

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

$$X := x^v,$$

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

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

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

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

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

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

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

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

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

Define

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

where

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

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

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$\begin{aligned} p_0(x) = & x^{138} + x^{136} + x^{128} + x^{124} + x^{118} + x^{116} + x^{112} + x^{110} + x^{100} + x^{98} \\ & + x^{96} + x^{90} + x^{88} + x^{84} + x^{82} + x^{80} + x^{78} + x^{76} + x^{68} + x^{66} + x^{64} \\ & + x^{62} + x^{58} + x^{56} + x^{46} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{30} + x^{28} \\ & + x^{24} + x^{22} + x^{12}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{134} + x^{128} + x^{120} + x^{112} + x^{108} + x^{100} + x^{96} + x^{94} + x^{92} + x^{88} \\ & + x^{84} + x^{82} + x^{80} + x^{76} + x^{70} + x^{68} + x^{66} + x^{64} + x^{58} + x^{56} + x^{54} \\ & + x^{52} + x^{48} + x^{42} + x^{38} + x^{34} + x^{28} + x^{26} + x^{24} + x^{22} + x^{18} + x^{16} \\ & + x^{14} + x^8, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{132} + x^{126} + x^{122} + x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{102} + x^{100} \\ & + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{86} + x^{82} + x^{74} + x^{72} + x^{70} + x^{68} \\ & + x^{66} + x^{64} + x^{60} + x^{54} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} \\ & + x^{32} + x^{30} + x^{26} + x^{22} + x^{20} + x^{10} + x^8 + x^4 + x^2 + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{136} + x^{134} + x^{130} + x^{114} + x^{108} + x^{106} + x^{102} + x^{98} + x^{92} + x^{90} \\ & + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{76} + x^{70} + x^{64} + x^{60} + x^{58} + x^{56} \\ & + x^{54} + x^{50} + x^{48} + x^{44} + x^{40} + x^{32} + x^{24} + x^{18} + x^{14} + x^{12} + x^{10} \\ & + x^8 + x^6 + x^4 + x^2, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{136} + x^{128} + x^{120} + x^{96} + x^{80} + x^{72} + x^{56} + x^{48} + x^{40} + x^{32} + x^{16} \\ & + x^8 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{125} + x^{122} + x^{120} + x^{117} + x^{116} + x^{112} + x^{107} + x^{105} + x^{104} \\ & + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} \\ & + x^{87} + x^{86} + x^{85} + x^{82} + x^{78} + x^{77} + x^{76} + x^{72} + x^{70} + x^{66} + x^{63} \\ & + x^{62} + x^{60} + x^{57} + x^{52} + x^{49} + x^{48} + x^{47} + x^{44} + x^{43} + x^{42} + x^{41} \\ & + x^{38} + x^{37} + x^{36} + x^{33} + x^{27} + x^{24} + x^{23} + x^{22} + x^{19} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{115} + x^{113} + x^{111} + x^{110} + x^{109} \\ & + x^{108} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{93} \\ & + x^{91} + x^{90} + x^{89} + x^{82} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{72} + x^{69} \end{aligned}$$

$$\begin{aligned}
& + x^{68} + x^{67} + x^{58} + x^{56} + x^{55} + x^{54} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} \\
& + x^{44} + x^{41} + x^{39} + x^{38} + x^{37} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} \\
& + x^{25} + x^{24} + x^{21} + x^{19} + x^{18} + x^{17} + x^{12} + x^{10} + x^9, \\
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{118} + x^{116} + x^{114} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{107} + x^{106} + x^{104} + x^{101} + x^{98} + x^{97} + x^{92} + x^{88} + x^{87} + x^{86} \\
& + x^{79} + x^{78} + x^{77} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{61} + x^{60} + x^{58} \\
& + x^{57} + x^{56} + x^{51} + x^{50} + x^{49} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} \\
& + x^{38} + x^{34} + x^{33} + x^{32} + x^{25} + x^{24} + x^{23} + x^{20} + x^{19} + x^{17} + x^{16} \\
& + x^{11} + x^{10} + x^8 + x^7 + x^6, \\
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{116} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{105} \\
& + x^{104} + x^{103} + x^{102} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{87} + x^{85} + x^{83} \\
& + x^{82} + x^{81} + x^{78} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{65} + x^{64} + x^{63} \\
& + x^{60} + x^{57} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{42} \\
& + x^{39} + x^{38} + x^{37} + x^{30} + x^{28} + x^{27} + x^{22} + x^{19} + x^{17} + x^{16} + x^{15} \\
& + x^{10} + x^8 + x^7 + x^6 + x^4 + x^3, \\
p_{12}(x) &= x^{121} + x^{120} + x^{118} + x^{114} + x^{113} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\
& + x^{104} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{77} + x^{76} + x^{74} + x^{73} + x^{72} \\
& + x^{61} + x^{60} + x^{58} + x^{54} + x^{50} + x^{49} + x^{48} + x^{25} + x^{24} + x^{22} + x^{18} \\
& + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^6 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{122} + x^{120} + x^{117} + x^{116} + x^{112} + x^{107} + x^{105} + x^{104} \\
& + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} \\
& + x^{87} + x^{86} + x^{85} + x^{82} + x^{78} + x^{77} + x^{76} + x^{72} + x^{70} + x^{66} + x^{63} \\
& + x^{62} + x^{60} + x^{57} + x^{52} + x^{49} + x^{48} + x^{47} + x^{44} + x^{43} + x^{42} + x^{41} \\
& + x^{38} + x^{37} + x^{36} + x^{33} + x^{27} + x^{24} + x^{23} + x^{22} + x^{19} + x^{18}, \\
p_3(x) &= x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{115} + x^{113} + x^{111} + x^{110} + x^{109} \\
& + x^{108} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{93} \\
& + x^{91} + x^{90} + x^{89} + x^{82} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{72} + x^{69} \\
& + x^{68} + x^{67} + x^{58} + x^{56} + x^{55} + x^{54} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} \\
& + x^{44} + x^{41} + x^{39} + x^{38} + x^{37} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} \\
& + x^{25} + x^{24} + x^{21} + x^{19} + x^{18} + x^{17} + x^{12} + x^{10} + x^9, \\
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{118} + x^{116} + x^{114} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{107} + x^{106} + x^{104} + x^{101} + x^{98} + x^{97} + x^{92} + x^{88} + x^{87} + x^{86} \\
& + x^{79} + x^{78} + x^{77} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{61} + x^{60} + x^{58}
\end{aligned}$$

$$\begin{aligned}
& + x^{57} + x^{56} + x^{51} + x^{50} + x^{49} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} \\
& + x^{38} + x^{34} + x^{33} + x^{32} + x^{25} + x^{24} + x^{23} + x^{20} + x^{19} + x^{17} + x^{16} \\
& + x^{11} + x^{10} + x^8 + x^7 + x^6, \\
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{116} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{105} \\
& + x^{104} + x^{103} + x^{102} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{87} + x^{85} + x^{83} \\
& + x^{82} + x^{81} + x^{78} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{65} + x^{64} + x^{63} \\
& + x^{60} + x^{57} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{42} \\
& + x^{39} + x^{38} + x^{37} + x^{30} + x^{28} + x^{27} + x^{22} + x^{19} + x^{17} + x^{16} + x^{15} \\
& + x^{10} + x^8 + x^7 + x^6 + x^4 + x^3, \\
p_{12}(x) &= x^{121} + x^{120} + x^{118} + x^{114} + x^{113} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\
& + x^{104} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{77} + x^{76} + x^{74} + x^{73} + x^{72} \\
& + x^{61} + x^{60} + x^{58} + x^{54} + x^{50} + x^{49} + x^{48} + x^{25} + x^{24} + x^{22} + x^{18} \\
& + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^6 + x^2 + x + 1,
\end{aligned}$$

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

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

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

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{110} + x^{108} + x^{104} + x^{98} + x^{96} + x^{90} + x^{86} + x^{84} + x^{80} + x^{74} \\
& + x^{72} + x^{70} + x^{68} + x^{66} + x^{60} + x^{56} + x^{44} + x^{40} + x^{36} + x^{18} + x^{14} \\
& + x^{12}, \\
p_3(x) &= x^{108} + x^{104} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82}
\end{aligned}$$

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

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{121} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} \\
& + x^{110} + x^{107} + x^{104} + x^{102} + x^{99} + x^{97} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{87} + x^{86} + x^{84} + x^{82} + x^{80} + x^{77} + x^{76} + x^{71} + x^{67} + x^{65} + x^{60} \\
& + x^{59} + x^{58} + x^{57} + x^{54} + x^{52} + x^{50} + x^{49} + x^{44} + x^{39} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{115} + x^{113} + x^{111} + x^{110} + x^{109} \\
& + x^{108} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{93} \\
& + x^{91} + x^{90} + x^{89} + x^{82} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{72} + x^{69} \\
& + x^{68} + x^{67} + x^{58} + x^{56} + x^{55} + x^{54} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} \\
& + x^{44} + x^{41} + x^{39} + x^{38} + x^{37} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} \\
& + x^{25} + x^{24} + x^{21} + x^{19} + x^{18} + x^{17} + x^{12} + x^{10} + x^9, \\
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{118} + x^{116} + x^{114} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{107} + x^{106} + x^{104} + x^{101} + x^{98} + x^{97} + x^{92} + x^{88} + x^{87} + x^{86} \\
& + x^{79} + x^{78} + x^{77} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{61} + x^{60} + x^{58} \\
& + x^{57} + x^{56} + x^{51} + x^{50} + x^{49} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} \\
& + x^{38} + x^{34} + x^{33} + x^{32} + x^{25} + x^{24} + x^{23} + x^{20} + x^{19} + x^{17} + x^{16} \\
& + x^{11} + x^{10} + x^8 + x^7 + x^6, \\
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{116} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{105} \\
& + x^{104} + x^{103} + x^{102} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{87} + x^{85} + x^{83} \\
& + x^{82} + x^{81} + x^{78} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{65} + x^{64} + x^{63} \\
& + x^{60} + x^{57} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{42} \\
& + x^{39} + x^{38} + x^{37} + x^{30} + x^{28} + x^{27} + x^{22} + x^{19} + x^{17} + x^{16} + x^{15} \\
& + x^{10} + x^8 + x^7 + x^6 + x^4 + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{121} + x^{120} + x^{118} + x^{114} + x^{113} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\
& + x^{104} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{77} + x^{76} + x^{74} + x^{73} + x^{72} \\
& + x^{61} + x^{60} + x^{58} + x^{54} + x^{50} + x^{49} + x^{48} + x^{25} + x^{24} + x^{22} + x^{18} \\
& + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^6 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{123} + x^{121} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} \\
& + x^{110} + x^{107} + x^{104} + x^{102} + x^{99} + x^{97} + x^{94} + x^{92} + x^{91} + x^{90} \\
& + x^{87} + x^{86} + x^{84} + x^{82} + x^{80} + x^{77} + x^{76} + x^{71} + x^{67} + x^{65} + x^{60} \\
& + x^{59} + x^{58} + x^{57} + x^{54} + x^{52} + x^{50} + x^{49} + x^{44} + x^{39} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{24},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{115} + x^{113} + x^{111} + x^{110} + x^{109} \\
& + x^{108} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{93} \\
& + x^{91} + x^{90} + x^{89} + x^{82} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{72} + x^{69} \\
& + x^{68} + x^{67} + x^{58} + x^{56} + x^{55} + x^{54} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} \\
& + x^{44} + x^{41} + x^{39} + x^{38} + x^{37} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} \\
& + x^{25} + x^{24} + x^{21} + x^{19} + x^{18} + x^{17} + x^{12} + x^{10} + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{123} + x^{122} + x^{121} + x^{118} + x^{116} + x^{114} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{107} + x^{106} + x^{104} + x^{101} + x^{98} + x^{97} + x^{92} + x^{88} + x^{87} + x^{86} \\
& + x^{79} + x^{78} + x^{77} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{61} + x^{60} + x^{58} \\
& + x^{57} + x^{56} + x^{51} + x^{50} + x^{49} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} \\
& + x^{38} + x^{34} + x^{33} + x^{32} + x^{25} + x^{24} + x^{23} + x^{20} + x^{19} + x^{17} + x^{16} \\
& + x^{11} + x^{10} + x^8 + x^7 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{122} + x^{120} + x^{119} + x^{116} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{105} \\
& + x^{104} + x^{103} + x^{102} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{87} + x^{85} + x^{83} \\
& + x^{82} + x^{81} + x^{78} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{65} + x^{64} + x^{63} \\
& + x^{60} + x^{57} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{42} \\
& + x^{39} + x^{38} + x^{37} + x^{30} + x^{28} + x^{27} + x^{22} + x^{19} + x^{17} + x^{16} + x^{15} \\
& + x^{10} + x^8 + x^7 + x^6 + x^4 + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{121} + x^{120} + x^{118} + x^{114} + x^{113} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\
& + x^{104} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{77} + x^{76} + x^{74} + x^{73} + x^{72} \\
& + x^{61} + x^{60} + x^{58} + x^{54} + x^{50} + x^{49} + x^{48} + x^{25} + x^{24} + x^{22} + x^{18} \\
& + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^6 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{134} + x^{130} + x^{128} + x^{126} + x^{122} + x^{114} + x^{110} + x^{106} + x^{102} \\
&\quad + x^{88} + x^{86} + x^{80} + x^{78} + x^{76} + x^{74} + x^{70} + x^{64} + x^{58} + x^{56} + x^{52} \\
&\quad + x^{44} + x^{42} + x^{38} + x^{36}, \\
p_3(x) &= x^{132} + x^{128} + x^{126} + x^{124} + x^{122} + x^{116} + x^{114} + x^{112} + x^{108} + x^{104} \\
&\quad + x^{100} + x^{98} + x^{82} + x^{80} + x^{74} + x^{72} + x^{70} + x^{64} + x^{62} + x^{60} + x^{58} \\
&\quad + x^{54} + x^{52} + x^{48} + x^{46} + x^{42} + x^{36} + x^{34} + x^{28} + x^{22} + x^{20} + x^{18} \\
&\quad + x^8 + x^6, \\
p_6(x) &= x^{134} + x^{132} + x^{128} + x^{124} + x^{118} + x^{102} + x^{100} + x^{96} + x^{94} + x^{92} \\
&\quad + x^{90} + x^{86} + x^{82} + x^{80} + x^{70} + x^{68} + x^{62} + x^{56} + x^{54} + x^{52} + x^{50} \\
&\quad + x^{42} + x^{40} + x^{36} + x^{30} + x^{28} + x^{22} + x^{16} + x^{14} + x^{10} + x^8 + x^6 + x^2 \\
&\quad + 1, \\
p_9(x) &= x^{136} + x^{134} + x^{130} + x^{114} + x^{108} + x^{106} + x^{102} + x^{98} + x^{92} + x^{90} \\
&\quad + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{76} + x^{70} + x^{64} + x^{60} + x^{58} + x^{56} \\
&\quad + x^{54} + x^{50} + x^{48} + x^{44} + x^{40} + x^{32} + x^{24} + x^{18} + x^{14} + x^{12} + x^{10} \\
&\quad + x^8 + x^6 + x^4 + x^2, \\
p_{12}(x) &= x^{136} + x^{128} + x^{120} + x^{96} + x^{80} + x^{72} + x^{56} + x^{48} + x^{40} + x^{32} + x^{16} \\
&\quad + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{120} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} \\
&\quad + x^{110} + x^{109} + x^{108} + x^{104} + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} \\
&\quad + x^{92} + x^{91} + x^{90} + x^{86} + x^{83} + x^{82} + x^{80} + x^{79} + x^{76} + x^{72} + x^{69} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} \\
&\quad + x^{52} + x^{47} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} + x^{32} \\
&\quad + x^{30} + x^{29} + x^{26} + x^{22} + x^{21} + x^{19} + x^{17} + x^{15} + x^{13} + x^{12}, \\
p_3(x) &= x^{125} + x^{123} + x^{121} + x^{118} + x^{117} + x^{113} + x^{111} + x^{110} + x^{109} + x^{107} \\
&\quad + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} + x^{89} \\
&\quad + x^{88} + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{72} + x^{71} + x^{70} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{63} + x^{62} + x^{61} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} \\
&\quad + x^{49} + x^{47} + x^{44} + x^{42} + x^{40} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{29} \\
&\quad + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{19} + x^{14} + x^{13} + x^{11} + x^9 + x^8, \\
p_6(x) &= x^{125} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{112} + x^{111} + x^{108} \\
&\quad + x^{104} + x^{100} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} \\
&\quad + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{72}
\end{aligned}$$

$$\begin{aligned}
& + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} + x^{62} + x^{60} + x^{59} + x^{57} + x^{56} + x^{52} \\
& + x^{50} + x^{48} + x^{47} + x^{46} + x^{44} + x^{42} + x^{40} + x^{37} + x^{35} + x^{29} + x^{28} \\
& + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{15} + x^{14} + x^{12} + x^{11} + x^8 \\
& + x^7 + x^6 + x^5 + x^4 + x^2 + x + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} \\
& + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} \\
& + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} \\
& + x^{72} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{58} + x^{54} + x^{53} + x^{52} \\
& + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{17} + x^{16} + x^{14} + x^{10} + x^6 + x^5 + x^4, \\
p_{12}(x) &= x^{125} + x^{124} + x^{122} + x^{118} + x^{114} + x^{110} + x^{106} + x^{102} + x^{101} + x^{100} \\
& + x^{97} + x^{96} + x^{94} + x^{90} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{74} \\
& + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{53} + x^{52} + x^{50} \\
& + x^{49} + x^{48} + x^{29} + x^{28} + x^{26} + x^{22} + x^{18} + x^{14} + x^{13} + x^{12} + x^5 \\
& + x^4 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{115} + x^{114} + x^{113} + x^{112} + x^{109} + x^{106} + x^{105} + x^{103} \\
& + x^{102} + x^{101} + x^{96} + x^{94} + x^{91} + x^{88} + x^{87} + x^{85} + x^{80} + x^{79} + x^{78} \\
& + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{67} + x^{65} + x^{62} + x^{59} + x^{56} \\
& + x^{54} + x^{53} + x^{51} + x^{49} + x^{47} + x^{46} + x^{44} + x^{41} + x^{39} + x^{37} + x^{35} \\
& + x^{34} + x^{32} + x^{29} + x^{25} + x^{21} + x^{18}, \\
p_3(x) &= x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{109} + x^{107} + x^{106} + x^{105} \\
& + x^{102} + x^{101} + x^{99} + x^{98} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{81} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{68} + x^{64} + x^{62} + x^{57} + x^{53} + x^{52} \\
& + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{43} + x^{42} + x^{41} + x^{38} + x^{37} + x^{35} \\
& + x^{34} + x^{30} + x^{29} + x^{27} + x^{26} + x^{22} + x^{20} + x^{17} + x^{16} + x^{14} + x^9, \\
p_6(x) &= x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{102} + x^{98} + x^{96} + x^{94} \\
& + x^{90} + x^{86} + x^{74} + x^{72} + x^{70} + x^{68} + x^{56} + x^{46} + x^{44} + x^{42} + x^{36} \\
& + x^{32} + x^{20} + x^{18} + x^{16} + x^6, \\
p_9(x) &= x^{119} + x^{118} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{107} + x^{106} \\
& + x^{104} + x^{103} + x^{102} + x^{98} + x^{97} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} \\
& + x^{87} + x^{86} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} + x^{74} + x^{72} + x^{71} \\
& + x^{70} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} + x^{51} + x^{23} \\
& + x^{22} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{13} + x^{11} + x^{10} + x^8 + x^3, \\
p_{12}(x) &= x^{120} + x^{116} + x^{112} + x^{108} + x^{104} + x^{100} + x^{92} + x^{88} + x^{84} + x^{76}
\end{aligned}$$

$$+ x^{72} + x^{68} + x^{60} + x^{48} + x^{24} + x^{20} + x^{16} + x^{12} + 1,$$

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

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

$$\begin{aligned} p_0(x) &= x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{131} + x^{130} + x^{129} + x^{127} \\ &\quad + x^{126} + x^{125} + x^{124} + x^{123} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} \\ &\quad + x^{111} + x^{110} + x^{107} + x^{106} + x^{105} + x^{101} + x^{99} + x^{94} + x^{89} + x^{84} \\ &\quad + x^{82} + x^{81} + x^{79} + x^{78} + x^{74} + x^{72} + x^{71} + x^{70} + x^{67} + x^{66} + x^{64} \\ &\quad + x^{63} + x^{57} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{43} + x^{42} \\ &\quad + x^{40} + x^{35} + x^{34} + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{25} + x^{24}, \\ p_3(x) &= x^{137} + x^{136} + x^{135} + x^{134} + x^{131} + x^{130} + x^{128} + x^{127} + x^{126} + x^{125} \\ &\quad + x^{124} + x^{122} + x^{118} + x^{115} + x^{113} + x^{111} + x^{110} + x^{105} + x^{104} \\ &\quad + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} \\ &\quad + x^{86} + x^{84} + x^{83} + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} \\ &\quad + x^{71} + x^{67} + x^{65} + x^{63} + x^{60} + x^{58} + x^{57} + x^{54} + x^{51} + x^{48} + x^{43} \\ &\quad + x^{42} + x^{40} + x^{39} + x^{37} + x^{32} + x^{31} + x^{28} + x^{27} + x^{21} + x^{18} + x^{16} \\ &\quad + x^{14} + x^{13} + x^9, \\ p_6(x) &= x^{138} + x^{136} + x^{122} + x^{118} + x^{112} + x^{108} + x^{104} + x^{100} + x^{98} + x^{96} \\ &\quad + x^{92} + x^{84} + x^{82} + x^{80} + x^{76} + x^{72} + x^{70} + x^{68} + x^{66} + x^{58} + x^{54} \\ &\quad + x^{52} + x^{42} + x^{40} + x^{38} + x^{34} + x^{28} + x^{18} + x^{16} + x^{14} + x^{10} + x^6, \\ p_9(x) &= x^{139} + x^{138} + x^{133} + x^{132} + x^{131} + x^{128} + x^{126} + x^{125} + x^{124} + x^{121} \\ &\quad + x^{119} + x^{118} + x^{117} + x^{114} + x^{112} + x^{111} + x^{110} + x^{106} + x^{105} \\ &\quad + x^{104} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} + x^{94} + x^{90} + x^{89} + x^{88} \\ &\quad + x^{86} + x^{85} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{75} + x^{73} + x^{72} + x^{70} \\ &\quad + x^{68} + x^{66} + x^{63} + x^{61} + x^{60} + x^{58} + x^{56} + x^{55} + x^{51} + x^{43} + x^{42} \\ &\quad + x^{37} + x^{36} + x^{35} + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} \\ &\quad + x^{22} + x^{20} + x^{19} + x^{18} + x^{15} + x^{13} + x^{12} + x^{10} + x^8 + x^7 + x^3, \\ p_{12}(x) &= x^{140} + x^{128} + x^{120} + x^{108} + x^{100} + x^{96} + x^{92} + x^{84} + x^{80} + x^{68} + x^{60} \\ &\quad + x^{56} + x^{52} + x^{48} + x^{44} + x^{32} + x^{28} + x^{24} + x^{16} + x^{12} + x^8 + x^4 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{117} + x^{112} + x^{111} + x^{110} + x^{108} \\ &\quad + x^{106} + x^{105} + x^{103} + x^{101} + x^{99} + x^{97} + x^{95} + x^{94} + x^{87} + x^{86} \\ &\quad + x^{84} + x^{83} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{74} + x^{71} + x^{70} \\ &\quad + x^{66} + x^{65} + x^{64} + x^{62} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} \\ &\quad + x^{50} + x^{49} + x^{44} + x^{40} + x^{39} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{30}, \end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{125} + x^{122} + x^{121} + x^{120} + x^{119} + x^{116} + x^{114} + x^{113} + x^{111} + x^{108} \\
&\quad + x^{106} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{95} + x^{92} + x^{88} + x^{84} \\
&\quad + x^{83} + x^{80} + x^{77} + x^{76} + x^{75} + x^{70} + x^{68} + x^{66} + x^{64} + x^{63} + x^{61} \\
&\quad + x^{60} + x^{58} + x^{56} + x^{55} + x^{54} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} \\
&\quad + x^{43} + x^{35} + x^{32} + x^{26} + x^{24} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{13} \\
&\quad + x^{12}, \\
p_6(x) &= x^{125} + x^{122} + x^{121} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} \\
&\quad + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{95} + x^{92} + x^{91} + x^{89} + x^{87} \\
&\quad + x^{83} + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{67} + x^{64} \\
&\quad + x^{61} + x^{59} + x^{57} + x^{56} + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{45} + x^{44} \\
&\quad + x^{43} + x^{41} + x^{38} + x^{36} + x^{35} + x^{26} + x^{24} + x^{23} + x^{21} + x^{18} + x^{17} \\
&\quad + x^{15} + x^{13} + x^{10} + x^9 + x^8 + x^6 + x^2 + x + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} \\
&\quad + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} \\
&\quad + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} \\
&\quad + x^{72} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{58} + x^{54} + x^{53} + x^{52} \\
&\quad + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{17} + x^{16} + x^{14} + x^{10} + x^6 + x^5 + x^4, \\
p_{12}(x) &= x^{125} + x^{124} + x^{122} + x^{118} + x^{114} + x^{110} + x^{106} + x^{102} + x^{101} + x^{100} \\
&\quad + x^{97} + x^{96} + x^{94} + x^{90} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{74} \\
&\quad + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{53} + x^{52} + x^{50} \\
&\quad + x^{49} + x^{48} + x^{29} + x^{28} + x^{26} + x^{22} + x^{18} + x^{14} + x^{13} + x^{12} + x^5 \\
&\quad + x^4 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{120} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} \\
&\quad + x^{110} + x^{109} + x^{108} + x^{104} + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} \\
&\quad + x^{92} + x^{91} + x^{90} + x^{86} + x^{83} + x^{82} + x^{80} + x^{79} + x^{76} + x^{72} + x^{69} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} \\
&\quad + x^{52} + x^{47} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} + x^{32} \\
&\quad + x^{30} + x^{29} + x^{26} + x^{22} + x^{21} + x^{19} + x^{17} + x^{15} + x^{13} + x^{12}, \\
p_3(x) &= x^{125} + x^{123} + x^{121} + x^{118} + x^{117} + x^{113} + x^{111} + x^{110} + x^{109} + x^{107} \\
&\quad + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} + x^{89} \\
&\quad + x^{88} + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{72} + x^{71} + x^{70} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{63} + x^{62} + x^{61} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} \\
&\quad + x^{49} + x^{47} + x^{44} + x^{42} + x^{40} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{29}
\end{aligned}$$

$$\begin{aligned}
& + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{19} + x^{14} + x^{13} + x^{11} + x^9 + x^8, \\
p_6(x) = & x^{125} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{115} + x^{112} + x^{111} + x^{108} \\
& + x^{104} + x^{100} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} \\
& + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{72} \\
& + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} + x^{62} + x^{60} + x^{59} + x^{57} + x^{56} + x^{52} \\
& + x^{50} + x^{48} + x^{47} + x^{46} + x^{44} + x^{42} + x^{40} + x^{37} + x^{35} + x^{29} + x^{28} \\
& + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{15} + x^{14} + x^{12} + x^{11} + x^8 \\
& + x^7 + x^6 + x^5 + x^4 + x^2 + x + 1, \\
p_9(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} \\
& + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} \\
& + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} \\
& + x^{72} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{58} + x^{54} + x^{53} + x^{52} \\
& + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{17} + x^{16} + x^{14} + x^{10} + x^6 + x^5 + x^4, \\
p_{12}(x) = & x^{125} + x^{124} + x^{122} + x^{118} + x^{114} + x^{110} + x^{106} + x^{102} + x^{101} + x^{100} \\
& + x^{97} + x^{96} + x^{94} + x^{90} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{74} \\
& + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{53} + x^{52} + x^{50} \\
& + x^{49} + x^{48} + x^{29} + x^{28} + x^{26} + x^{22} + x^{18} + x^{14} + x^{13} + x^{12} + x^5 \\
& + x^4 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{131} + x^{130} + x^{129} + x^{127} \\
& + x^{126} + x^{125} + x^{124} + x^{123} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} \\
& + x^{111} + x^{110} + x^{107} + x^{106} + x^{105} + x^{101} + x^{99} + x^{94} + x^{89} + x^{84} \\
& + x^{82} + x^{81} + x^{79} + x^{78} + x^{74} + x^{72} + x^{71} + x^{70} + x^{67} + x^{66} + x^{64} \\
& + x^{63} + x^{57} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{43} + x^{42} \\
& + x^{40} + x^{35} + x^{34} + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{25} + x^{24}, \\
p_3(x) = & x^{137} + x^{136} + x^{135} + x^{134} + x^{131} + x^{130} + x^{128} + x^{127} + x^{126} + x^{125} \\
& + x^{124} + x^{122} + x^{118} + x^{115} + x^{113} + x^{111} + x^{110} + x^{105} + x^{104} \\
& + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{83} + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} \\
& + x^{71} + x^{67} + x^{65} + x^{63} + x^{60} + x^{58} + x^{57} + x^{54} + x^{51} + x^{48} + x^{43} \\
& + x^{42} + x^{40} + x^{39} + x^{37} + x^{32} + x^{31} + x^{28} + x^{27} + x^{21} + x^{18} + x^{16} \\
& + x^{14} + x^{13} + x^9, \\
p_6(x) = & x^{138} + x^{136} + x^{122} + x^{118} + x^{112} + x^{108} + x^{104} + x^{100} + x^{98} + x^{96} \\
& + x^{92} + x^{84} + x^{82} + x^{80} + x^{76} + x^{72} + x^{70} + x^{68} + x^{66} + x^{58} + x^{54}
\end{aligned}$$

$$\begin{aligned}
& + x^{52} + x^{42} + x^{40} + x^{38} + x^{34} + x^{28} + x^{18} + x^{16} + x^{14} + x^{10} + x^6, \\
p_9(x) = & x^{139} + x^{138} + x^{133} + x^{132} + x^{131} + x^{128} + x^{126} + x^{125} + x^{124} + x^{121} \\
& + x^{119} + x^{118} + x^{117} + x^{114} + x^{112} + x^{111} + x^{110} + x^{106} + x^{105} \\
& + x^{104} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} + x^{94} + x^{90} + x^{89} + x^{88} \\
& + x^{86} + x^{85} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{75} + x^{73} + x^{72} + x^{70} \\
& + x^{68} + x^{66} + x^{63} + x^{61} + x^{60} + x^{58} + x^{56} + x^{55} + x^{51} + x^{43} + x^{42} \\
& + x^{37} + x^{36} + x^{35} + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} \\
& + x^{22} + x^{20} + x^{19} + x^{18} + x^{15} + x^{13} + x^{12} + x^{10} + x^8 + x^7 + x^3, \\
p_{12}(x) = & x^{140} + x^{128} + x^{120} + x^{108} + x^{100} + x^{96} + x^{92} + x^{84} + x^{80} + x^{68} + x^{60} \\
& + x^{56} + x^{52} + x^{48} + x^{44} + x^{32} + x^{28} + x^{24} + x^{16} + x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{124} + x^{121} + x^{115} + x^{114} + x^{113} + x^{112} + x^{109} + x^{106} + x^{105} + x^{103} \\
& + x^{102} + x^{101} + x^{96} + x^{94} + x^{91} + x^{88} + x^{87} + x^{85} + x^{80} + x^{79} + x^{78} \\
& + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{67} + x^{65} + x^{62} + x^{59} + x^{56} \\
& + x^{54} + x^{53} + x^{51} + x^{49} + x^{47} + x^{46} + x^{44} + x^{41} + x^{39} + x^{37} + x^{35} \\
& + x^{34} + x^{32} + x^{29} + x^{25} + x^{21} + x^{18}, \\
p_3(x) = & x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{109} + x^{107} + x^{106} + x^{105} \\
& + x^{102} + x^{101} + x^{99} + x^{98} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{81} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{68} + x^{64} + x^{62} + x^{57} + x^{53} + x^{52} \\
& + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{43} + x^{42} + x^{41} + x^{38} + x^{37} + x^{35} \\
& + x^{34} + x^{30} + x^{29} + x^{27} + x^{26} + x^{22} + x^{20} + x^{17} + x^{16} + x^{14} + x^9, \\
p_6(x) = & x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{102} + x^{98} + x^{96} + x^{94} \\
& + x^{90} + x^{86} + x^{74} + x^{72} + x^{70} + x^{68} + x^{56} + x^{46} + x^{44} + x^{42} + x^{36} \\
& + x^{32} + x^{20} + x^{18} + x^{16} + x^6, \\
p_9(x) = & x^{119} + x^{118} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{107} + x^{106} \\
& + x^{104} + x^{103} + x^{102} + x^{98} + x^{97} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} \\
& + x^{87} + x^{86} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} + x^{74} + x^{72} + x^{71} \\
& + x^{70} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} + x^{51} + x^{23} \\
& + x^{22} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{13} + x^{11} + x^{10} + x^8 + x^3, \\
p_{12}(x) = & x^{120} + x^{116} + x^{112} + x^{108} + x^{104} + x^{100} + x^{92} + x^{88} + x^{84} + x^{76} \\
& + x^{72} + x^{68} + x^{60} + x^{48} + x^{24} + x^{20} + x^{16} + x^{12} + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{117} + x^{112} + x^{111} + x^{110} + x^{108}$$

$$\begin{aligned}
& + x^{106} + x^{105} + x^{103} + x^{101} + x^{99} + x^{97} + x^{95} + x^{94} + x^{87} + x^{86} \\
& + x^{84} + x^{83} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{74} + x^{71} + x^{70} \\
& + x^{66} + x^{65} + x^{64} + x^{62} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} \\
& + x^{50} + x^{49} + x^{44} + x^{40} + x^{39} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{30}, \\
p_3(x) = & x^{125} + x^{122} + x^{121} + x^{120} + x^{119} + x^{116} + x^{114} + x^{113} + x^{111} + x^{108} \\
& + x^{106} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{95} + x^{92} + x^{88} + x^{84} \\
& + x^{83} + x^{80} + x^{77} + x^{76} + x^{75} + x^{70} + x^{68} + x^{66} + x^{64} + x^{63} + x^{61} \\
& + x^{60} + x^{58} + x^{56} + x^{55} + x^{54} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} \\
& + x^{43} + x^{35} + x^{32} + x^{26} + x^{24} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{13} \\
& + x^{12}, \\
p_6(x) = & x^{125} + x^{122} + x^{121} + x^{119} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} \\
& + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{95} + x^{92} + x^{91} + x^{89} + x^{87} \\
& + x^{83} + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{67} + x^{64} \\
& + x^{61} + x^{59} + x^{57} + x^{56} + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{45} + x^{44} \\
& + x^{43} + x^{41} + x^{38} + x^{36} + x^{35} + x^{26} + x^{24} + x^{23} + x^{21} + x^{18} + x^{17} \\
& + x^{15} + x^{13} + x^{10} + x^9 + x^8 + x^6 + x^2 + x + 1, \\
p_9(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} \\
& + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} \\
& + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} \\
& + x^{72} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{58} + x^{54} + x^{53} + x^{52} \\
& + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{17} + x^{16} + x^{14} + x^{10} + x^6 + x^5 + x^4, \\
p_{12}(x) = & x^{125} + x^{124} + x^{122} + x^{118} + x^{114} + x^{110} + x^{106} + x^{102} + x^{101} + x^{100} \\
& + x^{97} + x^{96} + x^{94} + x^{90} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{74} \\
& + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{53} + x^{52} + x^{50} \\
& + x^{49} + x^{48} + x^{29} + x^{28} + x^{26} + x^{22} + x^{18} + x^{14} + x^{13} + x^{12} + x^5 \\
& + x^4 + x^2 + x + 1,
\end{aligned}$$

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

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	[3303, 3304]	4098	[1368, 5364]	6147	[6408, 594]
1	[3, 4]	2050	[3305, 2845]	4099	[5368, 3653]	6148	[6955, 1698]
2	[5, 6]	2051	[3306, 3307]	4100	[2852, 267]	6149	[6956, 605]
3	[7, 8]	2052	[3308, 1330]	4101	[5369, 2872]	6150	[6957, 4282]
4	[9, 10]	2053	[3309, 3310]	4102	[5370, 5371]	6151	[6958, 1798]
5	[11, 12]	2054	[3311, 2796]	4103	[5372, 3627]	6152	[6959, 5080]

6	[13, 14]	2055	[3312, 3313]	4104	[3919, 3972]	6153	[248, 187]
7	[15, 16]	2056	[3314, 3095]	4105	[5373, 5374]	6154	[182, 4620]
8	[17, 18]	2057	[3315, 971]	4106	[5375, 5376]	6155	[6960, 1672]
9	[19, 20]	2058	[919, 2996]	4107	[3407, 5377]	6156	[6804, 5158]
10	[21, 22]	2059	[1215, 3316]	4108	[3100, 2856]	6157	[2230, 5253]
11	[23, 24]	2060	[375, 3317]	4109	[5378, 2849]	6158	[1706, 6961]
12	[25, 26]	2061	[3318, 3090]	4110	[5379, 5380]	6159	[6962, 6904]
13	[27, 28]	2062	[3319, 3320]	4111	[1485, 3023]	6160	[6963, 4065]
14	[29, 30]	2063	[3321, 3322]	4112	[1548, 1631]	6161	[4240, 6673]
15	[31, 32]	2064	[2777, 2811]	4113	[5381, 5382]	6162	[6964, 2615]
16	[33, 34]	2065	[3323, 3324]	4114	[5383, 2864]	6163	[6965, 731]
17	[35, 36]	2066	[3325, 1314]	4115	[5384, 946]	6164	[6966, 4524]
18	[37, 38]	2067	[3326, 3327]	4116	[1424, 3709]	6165	[6967, 186]
19	[39, 40]	2068	[2764, 3328]	4117	[5350, 5385]	6166	[6968, 1910]
20	[41, 42]	2069	[2822, 1321]	4118	[3580, 5386]	6167	[6608, 4278]
21	[43, 44]	2070	[1433, 3329]	4119	[3937, 3115]	6168	[6969, 5166]
22	[45, 46]	2071	[3201, 3330]	4120	[5387, 3600]	6169	[6970, 1701]
23	[47, 48]	2072	[3331, 2743]	4121	[5388, 3865]	6170	[6971, 6972]
24	[49, 50]	2073	[3032, 3332]	4122	[5389, 3546]	6171	[2485, 2185]
25	[51, 52]	2074	[3333, 3225]	4123	[2943, 3782]	6172	[6973, 4787]
26	[53, 54]	2075	[3334, 3335]	4124	[3422, 5390]	6173	[6974, 498]
27	[55, 56]	2076	[3336, 1582]	4125	[5391, 1616]	6174	[2389, 6544]
28	[57, 58]	2077	[3337, 3338]	4126	[5392, 1273]	6175	[6975, 4752]
29	[59, 60]	2078	[3339, 2764]	4127	[2804, 5393]	6176	[6976, 550]
30	[61, 62]	2079	[3340, 3341]	4128	[297, 5394]	6177	[6977, 2647]
31	[28, 63]	2080	[3342, 1415]	4129	[3322, 3352]	6178	[6978, 1715]
32	[64, 65]	2081	[3343, 3006]	4130	[5395, 2771]	6179	[6979, 6607]
33	[66, 67]	2082	[3344, 2795]	4131	[5396, 1359]	6180	[6980, 704]
34	[68, 69]	2083	[1464, 3345]	4132	[5397, 2957]	6181	[6734, 1834]
35	[70, 71]	2084	[3346, 1564]	4133	[1643, 1641]	6182	[2188, 1840]
36	[72, 73]	2085	[1413, 996]	4134	[3169, 1625]	6183	[6981, 6848]
37	[74, 75]	2086	[3279, 3347]	4135	[1283, 1207]	6184	[6982, 4747]
38	[76, 77]	2087	[1448, 3222]	4136	[5398, 3065]	6185	[6983, 4780]
39	[78, 79]	2088	[3348, 1432]	4137	[1260, 1591]	6186	[6984, 6985]
40	[80, 81]	2089	[2856, 3349]	4138	[267, 262]	6187	[6986, 228]
41	[82, 83]	2090	[3350, 3351]	4139	[2782, 5399]	6188	[6987, 4363]
42	[84, 85]	2091	[3352, 1054]	4140	[3304, 3242]	6189	[1671, 6382]
43	[86, 87]	2092	[3353, 3354]	4141	[5400, 5401]	6190	[6988, 2307]
44	[88, 89]	2093	[3355, 986]	4142	[3610, 5402]	6191	[4607, 803]
45	[90, 91]	2094	[3356, 3357]	4143	[3005, 1091]	6192	[4719, 624]
46	[92, 93]	2095	[3358, 1431]	4144	[5403, 1198]	6193	[6989, 585]
47	[94, 95]	2096	[3359, 3360]	4145	[1483, 5404]	6194	[6990, 587]
48	[96, 97]	2097	[3361, 85]	4146	[3741, 5405]	6195	[6991, 594]
49	[98, 99]	2098	[3362, 117]	4147	[5329, 5406]	6196	[6992, 680]

50	[100, 101]	2099	[1146, 1594]	4148	[101, 71]	6197	[6993, 1879]
51	[102, 103]	2100	[3363, 3364]	4149	[5407, 965]	6198	[4793, 205]
52	[104, 105]	2101	[3365, 991]	4150	[1385, 5408]	6199	[6994, 5149]
53	[106, 107]	2102	[3366, 3325]	4151	[5409, 4004]	6200	[6363, 6464]
54	[108, 109]	2103	[3367, 454]	4152	[5410, 5411]	6201	[6995, 1691]
55	[110, 111]	2104	[3368, 320]	4153	[3585, 5412]	6202	[6464, 5141]
56	[112, 113]	2105	[3369, 1601]	4154	[3618, 5413]	6203	[641, 210]
57	[114, 115]	2106	[3280, 3370]	4155	[5414, 5415]	6204	[6996, 5146]
58	[116, 117]	2107	[3371, 3372]	4156	[1179, 3906]	6205	[2135, 4434]
59	[118, 119]	2108	[1540, 1351]	4157	[952, 5416]	6206	[6997, 2718]
60	[120, 121]	2109	[3373, 1017]	4158	[5417, 3926]	6207	[2050, 4140]
61	[122, 123]	2110	[3317, 299]	4159	[988, 3377]	6208	[6998, 4918]
62	[124, 125]	2111	[3374, 1556]	4160	[5418, 3391]	6209	[6999, 4269]
63	[56, 126]	2112	[3375, 68]	4161	[5419, 5420]	6210	[7000, 572]
64	[127, 128]	2113	[3376, 3377]	4162	[3147, 5421]	6211	[192, 6481]
65	[129, 130]	2114	[3378, 3379]	4163	[1309, 441]	6212	[7001, 6624]
66	[131, 132]	2115	[3380, 3381]	4164	[5422, 3836]	6213	[6961, 4840]
67	[133, 134]	2116	[1487, 3069]	4165	[5423, 295]	6214	[7002, 4475]
68	[135, 136]	2117	[3360, 3382]	4166	[5424, 3201]	6215	[713, 2712]
69	[137, 138]	2118	[1521, 3107]	4167	[5425, 1352]	6216	[7003, 2716]
70	[139, 140]	2119	[1524, 1231]	4168	[5426, 5427]	6217	[7004, 4980]
71	[141, 142]	2120	[3383, 3384]	4169	[3907, 3210]	6218	[7005, 7006]
72	[143, 144]	2121	[3385, 3386]	4170	[5428, 1297]	6219	[7007, 2302]
73	[145, 146]	2122	[3387, 110]	4171	[5429, 983]	6220	[2, 4795]
74	[147, 148]	2123	[1193, 3388]	4172	[3207, 2842]	6221	[7008, 2447]
75	[149, 150]	2124	[3389, 3390]	4173	[2938, 1532]	6222	[1657, 1717]
76	[151, 152]	2125	[3349, 3344]	4174	[5430, 3259]	6223	[7009, 179]
77	[153, 154]	2126	[3391, 3392]	4175	[3532, 5431]	6224	[2413, 7010]
78	[155, 156]	2127	[3393, 3394]	4176	[5432, 3703]	6225	[7011, 7012]
79	[157, 158]	2128	[3395, 3396]	4177	[5433, 2738]	6226	[1662, 5199]
80	[159, 160]	2129	[1574, 3397]	4178	[5434, 932]	6227	[2359, 5033]
81	[161, 162]	2130	[947, 3398]	4179	[5435, 1589]	6228	[7013, 4828]
82	[163, 164]	2131	[3399, 1462]	4180	[5436, 1326]	6229	[7014, 5202]
83	[165, 166]	2132	[3345, 3400]	4181	[5437, 1367]	6230	[7015, 2113]
84	[167, 168]	2133	[2812, 3401]	4182	[5382, 5438]	6231	[7016, 6328]
85	[169, 170]	2134	[3402, 3403]	4183	[5439, 3230]	6232	[4150, 4900]
86	[171, 172]	2135	[3404, 3405]	4184	[5440, 3944]	6233	[5124, 147]
87	[173, 174]	2136	[3406, 3135]	4185	[1059, 5441]	6234	[7017, 4849]
88	[175, 176]	2137	[1557, 3407]	4186	[5442, 1383]	6235	[7018, 4571]
89	[177, 178]	2138	[3408, 1038]	4187	[5443, 1614]	6236	[7019, 6901]
90	[179, 180]	2139	[3409, 114]	4188	[5444, 5390]	6237	[4461, 849]
91	[181, 182]	2140	[1602, 3410]	4189	[5445, 3833]	6238	[7020, 2416]
92	[183, 184]	2141	[3411, 3412]	4190	[5446, 5447]	6239	[5051, 6811]
93	[185, 186]	2142	[3413, 2749]	4191	[3091, 3237]	6240	[4357, 4272]

94	[187, 188]	2143	[3414, 3415]	4192	[3646, 5448]	6241	[1986, 4632]
95	[189, 190]	2144	[3416, 100]	4193	[3510, 3406]	6242	[7021, 4246]
96	[191, 192]	2145	[3417, 3418]	4194	[5449, 5450]	6243	[4579, 788]
97	[193, 194]	2146	[3419, 3420]	4195	[5451, 1333]	6244	[7022, 2238]
98	[195, 196]	2147	[3421, 3422]	4196	[4030, 3690]	6245	[658, 4211]
99	[197, 198]	2148	[3423, 3424]	4197	[5452, 2887]	6246	[166, 4729]
100	[199, 200]	2149	[3301, 1482]	4198	[1624, 5453]	6247	[2034, 4456]
101	[201, 202]	2150	[3425, 2854]	4199	[5454, 5455]	6248	[4385, 137]
102	[203, 204]	2151	[3426, 436]	4200	[5456, 3998]	6249	[7023, 4514]
103	[205, 48]	2152	[3149, 2762]	4201	[2954, 1522]	6250	[820, 537]
104	[206, 207]	2153	[3427, 3428]	4202	[5457, 5458]	6251	[5073, 2566]
105	[208, 209]	2154	[3429, 311]	4203	[5459, 3129]	6252	[7024, 5289]
106	[210, 211]	2155	[3430, 3431]	4204	[377, 5376]	6253	[1892, 605]
107	[212, 213]	2156	[3432, 3433]	4205	[5460, 432]	6254	[1697, 4719]
108	[214, 215]	2157	[3434, 3435]	4206	[5461, 1157]	6255	[7025, 1897]
109	[216, 217]	2158	[3436, 1565]	4207	[5462, 3039]	6256	[7010, 4483]
110	[218, 219]	2159	[3437, 972]	4208	[1331, 1300]	6257	[148, 4537]
111	[220, 221]	2160	[3438, 1145]	4209	[1598, 5463]	6258	[4513, 5034]
112	[222, 223]	2161	[3439, 402]	4210	[5464, 443]	6259	[7026, 5203]
113	[224, 225]	2162	[3440, 1125]	4211	[5465, 2954]	6260	[7027, 1953]
114	[226, 227]	2163	[3441, 3442]	4212	[5466, 3667]	6261	[7028, 6747]
115	[228, 229]	2164	[1213, 3443]	4213	[5467, 2995]	6262	[5160, 908]
116	[230, 209]	2165	[3444, 3445]	4214	[5468, 325]	6263	[7029, 4125]
117	[231, 232]	2166	[3446, 3447]	4215	[5469, 1338]	6264	[7030, 2339]
118	[233, 234]	2167	[3448, 3294]	4216	[5470, 5471]	6265	[2391, 1681]
119	[235, 236]	2168	[115, 3449]	4217	[929, 5414]	6266	[7031, 2612]
120	[237, 238]	2169	[1389, 3450]	4218	[5472, 1391]	6267	[2464, 4276]
121	[239, 240]	2170	[3262, 1166]	4219	[5473, 5343]	6268	[4765, 4224]
122	[241, 242]	2171	[3451, 1161]	4220	[5474, 5475]	6269	[7032, 2145]
123	[243, 244]	2172	[3452, 3453]	4221	[5476, 317]	6270	[7033, 5127]
124	[245, 246]	2173	[3454, 3455]	4222	[5477, 2931]	6271	[6625, 6717]
125	[247, 248]	2174	[1387, 1270]	4223	[5478, 1402]	6272	[7034, 569]
126	[111, 249]	2175	[3456, 1197]	4224	[5479, 2763]	6273	[7035, 4409]
127	[250, 251]	2176	[2826, 3457]	4225	[2945, 5480]	6274	[7036, 2380]
128	[252, 253]	2177	[3458, 406]	4226	[2838, 259]	6275	[7037, 7038]
129	[254, 255]	2178	[463, 3459]	4227	[5481, 303]	6276	[7039, 4276]
130	[256, 257]	2179	[3460, 3461]	4228	[1343, 2902]	6277	[132, 4305]
131	[258, 259]	2180	[3462, 3463]	4229	[5482, 2889]	6278	[1685, 4332]
132	[260, 261]	2181	[3464, 3465]	4230	[5483, 2891]	6279	[6909, 1951]
133	[262, 263]	2182	[3466, 3467]	4231	[5484, 1599]	6280	[4622, 906]
134	[264, 265]	2183	[1399, 3468]	4232	[5485, 446]	6281	[7040, 4638]
135	[266, 267]	2184	[2796, 1025]	4233	[5486, 5487]	6282	[4344, 4088]
136	[268, 269]	2185	[3469, 3470]	4234	[2927, 5488]	6283	[6692, 4373]
137	[270, 271]	2186	[3471, 1390]	4235	[5489, 5490]	6284	[4315, 4040]

138	[272, 273]	2187	[3472, 2852]	4236	[5491, 3580]	6285	[7041, 494]
139	[274, 275]	2188	[3473, 1239]	4237	[3873, 1178]	6286	[7042, 4520]
140	[276, 277]	2189	[2951, 3474]	4238	[3021, 3938]	6287	[7043, 6552]
141	[278, 279]	2190	[3475, 3476]	4239	[5492, 2925]	6288	[7044, 4989]
142	[280, 281]	2191	[1365, 3477]	4240	[5493, 3194]	6289	[7045, 763]
143	[282, 283]	2192	[2966, 1012]	4241	[3283, 5494]	6290	[747, 6496]
144	[284, 285]	2193	[3478, 254]	4242	[3010, 3908]	6291	[7046, 4121]
145	[286, 287]	2194	[3479, 3480]	4243	[5495, 5386]	6292	[7047, 1788]
146	[288, 289]	2195	[3481, 3482]	4244	[5496, 2919]	6293	[5038, 4662]
147	[290, 291]	2196	[3188, 1412]	4245	[5497, 2994]	6294	[1803, 6461]
148	[292, 293]	2197	[3483, 3484]	4246	[2742, 1568]	6295	[7048, 4243]
149	[294, 295]	2198	[3485, 3486]	4247	[2990, 1571]	6296	[168, 6363]
150	[296, 297]	2199	[3487, 277]	4248	[5498, 5499]	6297	[7049, 6808]
151	[81, 298]	2200	[3488, 3489]	4249	[1362, 5500]	6298	[7050, 147]
152	[299, 300]	2201	[3490, 3491]	4250	[5501, 2958]	6299	[7051, 7052]
153	[301, 302]	2202	[3492, 3149]	4251	[5502, 5503]	6300	[586, 2417]
154	[303, 304]	2203	[3493, 3494]	4252	[5504, 5505]	6301	[7053, 2057]
155	[305, 306]	2204	[1327, 2819]	4253	[5506, 976]	6302	[7054, 4744]
156	[307, 308]	2205	[3495, 1419]	4254	[3882, 978]	6303	[7055, 789]
157	[309, 310]	2206	[3233, 1562]	4255	[5507, 1615]	6304	[4174, 4041]
158	[311, 312]	2207	[3496, 1216]	4256	[5508, 3215]	6305	[7056, 7057]
159	[123, 313]	2208	[3497, 3498]	4257	[5509, 5510]	6306	[7058, 564]
160	[314, 315]	2209	[2992, 1296]	4258	[2909, 4004]	6307	[7059, 140]
161	[310, 316]	2210	[3499, 3500]	4259	[5511, 5512]	6308	[7060, 752]
162	[317, 318]	2211	[3501, 3174]	4260	[5513, 1513]	6309	[1968, 7061]
163	[319, 320]	2212	[3502, 260]	4261	[5514, 1553]	6310	[699, 4177]
164	[321, 322]	2213	[3503, 3504]	4262	[5515, 5454]	6311	[7062, 4847]
165	[323, 324]	2214	[3505, 3506]	4263	[3053, 1211]	6312	[7063, 7064]
166	[325, 326]	2215	[3507, 3121]	4264	[1381, 1426]	6313	[6369, 5306]
167	[327, 328]	2216	[3508, 3509]	4265	[5405, 386]	6314	[1722, 12]
168	[329, 330]	2217	[965, 3510]	4266	[3562, 1380]	6315	[7065, 6500]
169	[331, 332]	2218	[3511, 3512]	4267	[5516, 1382]	6316	[666, 7066]
170	[333, 334]	2219	[3513, 1534]	4268	[5517, 976]	6317	[6355, 7067]
171	[335, 336]	2220	[3514, 3515]	4269	[5518, 3892]	6318	[4800, 1723]
172	[337, 338]	2221	[3516, 1147]	4270	[5519, 5520]	6319	[7068, 1967]
173	[339, 340]	2222	[3517, 3518]	4271	[3316, 3717]	6320	[6544, 2432]
174	[341, 342]	2223	[3519, 3520]	4272	[5521, 5522]	6321	[7069, 5118]
175	[343, 344]	2224	[2745, 3374]	4273	[1341, 1041]	6322	[7070, 5549]
176	[345, 346]	2225	[3521, 3522]	4274	[3711, 462]	6323	[7071, 1236]
177	[347, 348]	2226	[3523, 3487]	4275	[3782, 466]	6324	[7072, 1087]
178	[349, 350]	2227	[1534, 3455]	4276	[5523, 5524]	6325	[3392, 1104]
179	[351, 108]	2228	[3515, 3524]	4277	[1039, 3387]	6326	[5490, 5819]
180	[352, 353]	2229	[3525, 3526]	4278	[5525, 2871]	6327	[7073, 1448]
181	[354, 355]	2230	[3527, 1627]	4279	[3623, 5526]	6328	[7074, 1033]

182	[356, 357]	2231	[2940, 372]	4280	[5527, 3573]	6329	[7075, 3718]
183	[358, 359]	2232	[3528, 1645]	4281	[5528, 2910]	6330	[7076, 1064]
184	[360, 361]	2233	[3529, 2806]	4282	[5529, 351]	6331	[7077, 929]
185	[362, 363]	2234	[3530, 3531]	4283	[5530, 5412]	6332	[5821, 2763]
186	[364, 365]	2235	[3435, 3532]	4284	[5531, 5377]	6333	[2801, 3578]
187	[366, 367]	2236	[3533, 1654]	4285	[3046, 3490]	6334	[113, 3192]
188	[368, 369]	2237	[1581, 3284]	4286	[5532, 3452]	6335	[5681, 4029]
189	[370, 371]	2238	[3534, 3535]	4287	[5533, 1091]	6336	[5615, 3871]
190	[372, 373]	2239	[1256, 3536]	4288	[5534, 3538]	6337	[3158, 7078]
191	[374, 375]	2240	[3537, 3538]	4289	[355, 5535]	6338	[7079, 3330]
192	[376, 377]	2241	[3459, 3390]	4290	[5536, 1247]	6339	[7080, 2916]
193	[378, 379]	2242	[3539, 1141]	4291	[3715, 1185]	6340	[958, 7081]
194	[380, 381]	2243	[330, 2773]	4292	[5537, 483]	6341	[7082, 3581]
195	[382, 383]	2244	[2986, 426]	4293	[5538, 3323]	6342	[6194, 301]
196	[318, 384]	2245	[1328, 1271]	4294	[5539, 2928]	6343	[7083, 3099]
197	[385, 386]	2246	[381, 1580]	4295	[3754, 1219]	6344	[7084, 3337]
198	[387, 388]	2247	[3540, 3541]	4296	[3923, 3799]	6345	[7085, 264]
199	[389, 390]	2248	[3542, 3489]	4297	[3544, 5540]	6346	[7086, 964]
200	[391, 392]	2249	[3543, 3544]	4298	[5541, 3857]	6347	[7087, 3296]
201	[393, 394]	2250	[3545, 1289]	4299	[998, 5319]	6348	[5942, 2924]
202	[395, 396]	2251	[3546, 1635]	4300	[5542, 3788]	6349	[7088, 5503]
203	[397, 398]	2252	[1177, 324]	4301	[5543, 3517]	6350	[7089, 935]
204	[388, 399]	2253	[271, 3547]	4302	[3962, 5477]	6351	[3007, 5711]
205	[400, 401]	2254	[3028, 3413]	4303	[5544, 1318]	6352	[451, 5445]
206	[402, 403]	2255	[3548, 1495]	4304	[3206, 3731]	6353	[7090, 7091]
207	[404, 349]	2256	[3549, 3550]	4305	[5545, 3955]	6354	[7092, 2915]
208	[405, 406]	2257	[3551, 1650]	4306	[5546, 5547]	6355	[7093, 5415]
209	[407, 408]	2258	[3552, 1444]	4307	[3494, 1190]	6356	[7094, 1021]
210	[409, 410]	2259	[3553, 3554]	4308	[3808, 3672]	6357	[313, 5469]
211	[411, 412]	2260	[1187, 401]	4309	[5548, 3660]	6358	[7095, 82]
212	[413, 414]	2261	[3555, 3524]	4310	[2756, 5549]	6359	[7096, 4027]
213	[415, 416]	2262	[3556, 3557]	4311	[5550, 3726]	6360	[5853, 5741]
214	[417, 418]	2263	[3558, 1209]	4312	[5551, 5552]	6361	[7097, 1047]
215	[419, 420]	2264	[3559, 3031]	4313	[5553, 2874]	6362	[6153, 5449]
216	[421, 422]	2265	[3560, 1106]	4314	[2884, 5554]	6363	[7098, 1310]
217	[423, 424]	2266	[3561, 3562]	4315	[5555, 5556]	6364	[7099, 4002]
218	[425, 426]	2267	[3563, 3120]	4316	[5557, 2918]	6365	[7100, 1176]
219	[427, 428]	2268	[71, 3564]	4317	[3578, 359]	6366	[7101, 3026]
220	[429, 430]	2269	[3447, 3565]	4318	[476, 2810]	6367	[3824, 1652]
221	[431, 432]	2270	[3566, 3567]	4319	[5558, 1577]	6368	[7102, 1055]
222	[433, 434]	2271	[1517, 1365]	4320	[5559, 326]	6369	[7103, 3850]
223	[435, 403]	2272	[1049, 3568]	4321	[5560, 1473]	6370	[7104, 1004]
224	[436, 437]	2273	[1051, 3569]	4322	[5561, 3515]	6371	[1544, 1216]
225	[438, 439]	2274	[3570, 3571]	4323	[5562, 1326]	6372	[7105, 944]

226	[440, 441]	2275	[3572, 322]	4324	[1410, 1114]	6373	[5520, 3231]
227	[442, 443]	2276	[3573, 3574]	4325	[5563, 5564]	6374	[7106, 1303]
228	[444, 445]	2277	[3442, 3575]	4326	[3307, 5565]	6375	[3274, 5640]
229	[446, 447]	2278	[3576, 1081]	4327	[5566, 1388]	6376	[3611, 1083]
230	[448, 449]	2279	[3577, 3578]	4328	[5567, 3944]	6377	[2836, 5975]
231	[450, 451]	2280	[3579, 3580]	4329	[927, 3540]	6378	[1641, 938]
232	[452, 453]	2281	[3581, 3582]	4330	[1350, 3269]	6379	[7107, 1068]
233	[454, 455]	2282	[3583, 119]	4331	[5568, 1301]	6380	[7108, 3596]
234	[456, 457]	2283	[285, 3366]	4332	[5569, 5570]	6381	[5960, 1245]
235	[458, 459]	2284	[3584, 3585]	4333	[5571, 5405]	6382	[7109, 5583]
236	[460, 461]	2285	[3586, 124]	4334	[5572, 3158]	6383	[7110, 5592]
237	[462, 463]	2286	[3587, 3588]	4335	[2959, 2779]	6384	[1615, 1297]
238	[464, 340]	2287	[1154, 3000]	4336	[5573, 1411]	6385	[7111, 1604]
239	[465, 466]	2288	[3251, 82]	4337	[5574, 5575]	6386	[7112, 1244]
240	[467, 468]	2289	[3589, 1139]	4338	[1591, 3154]	6387	[7113, 3606]
241	[469, 470]	2290	[3590, 3591]	4339	[3285, 3875]	6388	[2799, 5579]
242	[471, 472]	2291	[3299, 3592]	4340	[5576, 1222]	6389	[7114, 5936]
243	[473, 474]	2292	[3593, 961]	4341	[5577, 1223]	6390	[7115, 3297]
244	[475, 476]	2293	[3594, 3595]	4342	[1315, 3167]	6391	[7116, 2917]
245	[477, 478]	2294	[2819, 981]	4343	[4005, 5498]	6392	[7117, 1061]
246	[479, 480]	2295	[3596, 3597]	4344	[5578, 5579]	6393	[7118, 5732]
247	[481, 366]	2296	[3598, 3599]	4345	[5580, 3154]	6394	[3265, 3526]
248	[482, 483]	2297	[3600, 1010]	4346	[394, 4024]	6395	[7119, 1151]
249	[219, 484]	2298	[3601, 2863]	4347	[3474, 5581]	6396	[7120, 1334]
250	[485, 486]	2299	[3602, 3397]	4348	[5582, 1526]	6397	[7121, 1485]
251	[487, 219]	2300	[3603, 3604]	4349	[5583, 2792]	6398	[259, 449]
252	[488, 489]	2301	[3605, 3606]	4350	[5512, 303]	6399	[7122, 7123]
253	[490, 491]	2302	[2957, 1347]	4351	[5584, 5585]	6400	[7124, 3222]
254	[492, 493]	2303	[3400, 1504]	4352	[5586, 5587]	6401	[7125, 5915]
255	[494, 495]	2304	[3607, 3608]	4353	[5588, 5455]	6402	[7126, 3552]
256	[496, 497]	2305	[3609, 3373]	4354	[5589, 1178]	6403	[5849, 3784]
257	[498, 499]	2306	[472, 3274]	4355	[3775, 2803]	6404	[7127, 6168]
258	[500, 501]	2307	[2970, 2922]	4356	[5590, 1504]	6405	[7128, 3458]
259	[502, 503]	2308	[1227, 3610]	4357	[5591, 3404]	6406	[3748, 1169]
260	[504, 505]	2309	[3384, 3611]	4358	[5592, 5593]	6407	[7129, 304]
261	[506, 507]	2310	[3612, 3613]	4359	[5594, 5595]	6408	[7130, 3868]
262	[508, 509]	2311	[3329, 3614]	4360	[265, 2758]	6409	[7131, 954]
263	[510, 511]	2312	[3615, 3616]	4361	[5596, 1302]	6410	[3771, 5759]
264	[512, 513]	2313	[3617, 3618]	4362	[5597, 5598]	6411	[7132, 74]
265	[514, 515]	2314	[3619, 3620]	4363	[5599, 5600]	6412	[7133, 6238]
266	[516, 517]	2315	[3621, 456]	4364	[1451, 3608]	6413	[3853, 3399]
267	[518, 519]	2316	[3622, 3623]	4365	[1125, 3368]	6414	[3872, 3573]
268	[520, 521]	2317	[3624, 3625]	4366	[5601, 1195]	6415	[7134, 1207]
269	[522, 523]	2318	[3626, 1198]	4367	[5602, 1076]	6416	[3952, 3396]

270	[524, 525]	2319	[1402, 3627]	4368	[937, 3478]	6417	[3468, 1629]
271	[526, 527]	2320	[1131, 3061]	4369	[5603, 1150]	6418	[7135, 3788]
272	[528, 529]	2321	[3628, 3262]	4370	[5604, 2793]	6419	[7136, 5499]
273	[530, 531]	2322	[2824, 1337]	4371	[5605, 3981]	6420	[7137, 3196]
274	[532, 533]	2323	[3629, 371]	4372	[5606, 5607]	6421	[7138, 7139]
275	[534, 535]	2324	[3498, 2977]	4373	[5608, 2823]	6422	[7140, 5319]
276	[536, 537]	2325	[3630, 3631]	4374	[5609, 5610]	6423	[7141, 3513]
277	[538, 539]	2326	[3632, 472]	4375	[5611, 5612]	6424	[7142, 3835]
278	[540, 541]	2327	[1273, 3633]	4376	[5613, 5614]	6425	[7143, 2748]
279	[542, 543]	2328	[3289, 3634]	4377	[1313, 5615]	6426	[1018, 3943]
280	[544, 545]	2329	[3635, 3018]	4378	[5616, 2996]	6427	[5500, 3778]
281	[546, 547]	2330	[3636, 1243]	4379	[3661, 5617]	6428	[257, 3757]
282	[548, 549]	2331	[336, 3383]	4380	[1507, 2984]	6429	[7144, 3564]
283	[550, 551]	2332	[3637, 3638]	4381	[3550, 1614]	6430	[7145, 1332]
284	[552, 553]	2333	[1466, 3639]	4382	[3898, 2730]	6431	[5691, 3048]
285	[554, 555]	2334	[3640, 3628]	4383	[1109, 5618]	6432	[7146, 4011]
286	[556, 557]	2335	[2858, 1051]	4384	[5619, 89]	6433	[7147, 5516]
287	[558, 559]	2336	[3627, 3641]	4385	[5620, 5429]	6434	[7148, 1449]
288	[560, 561]	2337	[3642, 3643]	4386	[3991, 5621]	6435	[7149, 6050]
289	[562, 563]	2338	[3644, 2768]	4387	[5622, 16]	6436	[7150, 3973]
290	[564, 565]	2339	[1287, 3645]	4388	[5623, 3030]	6437	[7151, 1362]
291	[566, 567]	2340	[24, 3646]	4389	[5624, 5574]	6438	[7152, 1476]
292	[568, 569]	2341	[3647, 3410]	4390	[3424, 3918]	6439	[5556, 2982]
293	[570, 571]	2342	[1258, 2829]	4391	[5625, 5453]	6440	[7153, 5431]
294	[572, 573]	2343	[3648, 1624]	4392	[3026, 1157]	6441	[7154, 1292]
295	[574, 575]	2344	[3649, 3244]	4393	[3947, 5392]	6442	[2829, 3760]
296	[576, 492]	2345	[3650, 2873]	4394	[3608, 3684]	6443	[7155, 5438]
297	[577, 578]	2346	[3651, 1530]	4395	[5626, 1262]	6444	[7156, 294]
298	[579, 580]	2347	[3652, 3324]	4396	[5627, 3939]	6445	[1041, 1513]
299	[581, 582]	2348	[3653, 3422]	4397	[3071, 5427]	6446	[7157, 1034]
300	[583, 584]	2349	[457, 3654]	4398	[1397, 5628]	6447	[7158, 439]
301	[585, 586]	2350	[3655, 292]	4399	[3167, 1246]	6448	[7159, 1101]
302	[587, 134]	2351	[3656, 1557]	4400	[3403, 5629]	6449	[7160, 5809]
303	[588, 589]	2352	[3657, 3658]	4401	[5630, 3284]	6450	[7161, 6173]
304	[590, 591]	2353	[3659, 3271]	4402	[5631, 5632]	6451	[7162, 3062]
305	[592, 593]	2354	[3660, 3661]	4403	[5633, 5634]	6452	[7163, 5364]
306	[594, 595]	2355	[3662, 1227]	4404	[3997, 3216]	6453	[7164, 1194]
307	[596, 597]	2356	[279, 3469]	4405	[5635, 5432]	6454	[5447, 2970]
308	[598, 599]	2357	[3663, 3276]	4406	[5636, 2938]	6455	[1654, 2892]
309	[600, 601]	2358	[1376, 3003]	4407	[5637, 3279]	6456	[1140, 1243]
310	[602, 603]	2359	[3664, 3225]	4408	[5638, 1327]	6457	[7165, 101]
311	[604, 238]	2360	[2876, 3665]	4409	[5639, 5640]	6458	[7166, 1203]
312	[605, 606]	2361	[3382, 3053]	4410	[5641, 1553]	6459	[7167, 5918]
313	[242, 607]	2362	[2964, 3666]	4411	[5642, 5643]	6460	[7168, 1377]

314	[608, 609]	2363	[3599, 998]	4412	[3526, 944]	6461	[7169, 3430]
315	[610, 611]	2364	[3667, 3668]	4413	[5644, 1465]	6462	[1096, 3729]
316	[612, 613]	2365	[3668, 3669]	4414	[2809, 3190]	6463	[7170, 3038]
317	[614, 615]	2366	[3670, 3671]	4415	[5645, 5488]	6464	[7171, 5562]
318	[616, 616]	2367	[3672, 3673]	4416	[1500, 5646]	6465	[7172, 296]
319	[617, 618]	2368	[3674, 3675]	4417	[437, 3333]	6466	[7173, 1122]
320	[619, 620]	2369	[971, 1411]	4418	[5647, 5648]	6467	[1567, 5456]
321	[621, 518]	2370	[3676, 1093]	4419	[3019, 5519]	6468	[1462, 2861]
322	[622, 623]	2371	[1322, 3200]	4420	[1031, 5342]	6469	[408, 3585]
323	[624, 625]	2372	[3324, 283]	4421	[2934, 5631]	6470	[7174, 1196]
324	[626, 627]	2373	[91, 3677]	4422	[2936, 3740]	6471	[6018, 5836]
325	[628, 629]	2374	[3678, 3679]	4423	[16, 3141]	6472	[5909, 5490]
326	[630, 631]	2375	[3680, 100]	4424	[3575, 3404]	6473	[6214, 3110]
327	[632, 633]	2376	[3681, 1626]	4425	[5649, 5650]	6474	[7175, 2872]
328	[634, 635]	2377	[3682, 1403]	4426	[5651, 3611]	6475	[1219, 4034]
329	[636, 637]	2378	[3683, 1119]	4427	[2752, 4027]	6476	[7176, 7177]
330	[638, 639]	2379	[3684, 3685]	4428	[1307, 1400]	6477	[5918, 1627]
331	[640, 641]	2380	[3686, 3687]	4429	[5652, 3134]	6478	[7178, 6229]
332	[642, 643]	2381	[3688, 3689]	4430	[5653, 2878]	6479	[7179, 1187]
333	[644, 645]	2382	[3690, 3691]	4431	[5654, 2888]	6480	[5421, 3022]
334	[646, 647]	2383	[3121, 1014]	4432	[5655, 5656]	6481	[7180, 5825]
335	[648, 549]	2384	[3123, 3514]	4433	[5657, 5344]	6482	[7181, 3366]
336	[649, 650]	2385	[3692, 3693]	4434	[5658, 5635]	6483	[7182, 3293]
337	[651, 652]	2386	[3694, 3695]	4435	[5659, 1095]	6484	[3810, 2765]
338	[653, 654]	2387	[3524, 3696]	4436	[5660, 5334]	6485	[7183, 2885]
339	[655, 656]	2388	[3697, 2840]	4437	[5661, 5321]	6486	[7184, 3483]
340	[657, 658]	2389	[2769, 3698]	4438	[4018, 1446]	6487	[7185, 6124]
341	[659, 660]	2390	[3699, 3700]	4439	[3531, 423]	6488	[945, 5510]
342	[661, 662]	2391	[3701, 2771]	4440	[5662, 5663]	6489	[6175, 3877]
343	[663, 664]	2392	[103, 285]	4441	[5664, 5665]	6490	[7186, 2935]
344	[665, 666]	2393	[3702, 3703]	4442	[5666, 3832]	6491	[7187, 1023]
345	[531, 667]	2394	[3704, 3173]	4443	[1620, 5667]	6492	[7188, 930]
346	[668, 669]	2395	[3705, 478]	4444	[3093, 3186]	6493	[5554, 6068]
347	[670, 671]	2396	[3706, 1393]	4445	[5668, 1159]	6494	[5819, 3034]
348	[672, 673]	2397	[3707, 3708]	4446	[5669, 5389]	6495	[7189, 1396]
349	[674, 675]	2398	[3709, 3028]	4447	[5670, 5671]	6496	[7190, 3731]
350	[676, 677]	2399	[1045, 1066]	4448	[5540, 3403]	6497	[5600, 3473]
351	[678, 679]	2400	[3710, 3235]	4449	[5672, 5456]	6498	[7191, 1098]
352	[680, 676]	2401	[1082, 3711]	4450	[5673, 3547]	6499	[7192, 3024]
353	[681, 202]	2402	[399, 1097]	4451	[5674, 5646]	6500	[7193, 7194]
354	[682, 683]	2403	[3712, 1115]	4452	[5675, 2808]	6501	[7195, 445]
355	[684, 685]	2404	[261, 3713]	4453	[5676, 3333]	6502	[5570, 3693]
356	[686, 687]	2405	[1134, 1577]	4454	[5677, 5678]	6503	[7196, 3243]
357	[688, 689]	2406	[1138, 987]	4455	[5679, 939]	6504	[7197, 419]

358	[690, 691]	2407	[3714, 3715]	4456	[5680, 5681]	6505	[2918, 1264]
359	[692, 693]	2408	[3716, 3717]	4457	[5682, 3532]	6506	[7198, 968]
360	[694, 695]	2409	[1071, 3718]	4458	[3257, 2917]	6507	[7199, 300]
361	[696, 697]	2410	[3719, 3720]	4459	[5683, 65]	6508	[2888, 6053]
362	[698, 699]	2411	[3721, 3429]	4460	[3457, 3085]	6509	[3687, 2991]
363	[700, 701]	2412	[3722, 974]	4461	[2767, 1396]	6510	[7200, 5342]
364	[702, 703]	2413	[3723, 3724]	4462	[5684, 5685]	6511	[7201, 253]
365	[704, 705]	2414	[3725, 3726]	4463	[5686, 3459]	6512	[3795, 3447]
366	[706, 707]	2415	[3509, 3638]	4464	[5687, 5688]	6513	[7202, 3642]
367	[708, 709]	2416	[3727, 3588]	4465	[2975, 972]	6514	[7203, 5468]
368	[710, 131]	2417	[3728, 3729]	4466	[3875, 3093]	6515	[7204, 24]
369	[711, 490]	2418	[3730, 3203]	4467	[5689, 4018]	6516	[7205, 3431]
370	[712, 713]	2419	[3731, 3051]	4468	[5690, 5691]	6517	[5487, 3424]
371	[714, 715]	2420	[83, 1478]	4469	[5692, 1082]	6518	[7206, 3722]
372	[716, 717]	2421	[3732, 1057]	4470	[3500, 1453]	6519	[7207, 3582]
373	[718, 719]	2422	[3733, 3734]	4471	[5693, 1493]	6520	[7081, 5965]
374	[720, 721]	2423	[3735, 2797]	4472	[5694, 1018]	6521	[7208, 1631]
375	[722, 523]	2424	[1645, 3736]	4473	[5695, 1496]	6522	[1429, 3985]
376	[723, 724]	2425	[1010, 3737]	4474	[5696, 1584]	6523	[3136, 6229]
377	[725, 726]	2426	[3738, 3739]	4475	[3645, 5697]	6524	[5621, 3161]
378	[537, 664]	2427	[3069, 3520]	4476	[5698, 3453]	6525	[7209, 5652]
379	[727, 728]	2428	[3740, 3741]	4477	[5699, 1332]	6526	[7210, 3094]
380	[729, 730]	2429	[3067, 3742]	4478	[5700, 931]	6527	[5406, 3571]
381	[731, 732]	2430	[3743, 2805]	4479	[5701, 1108]	6528	[3057, 3620]
382	[733, 734]	2431	[371, 3482]	4480	[5702, 316]	6529	[7211, 5946]
383	[735, 736]	2432	[3744, 2821]	4481	[5703, 3745]	6530	[2734, 3589]
384	[737, 738]	2433	[3443, 3745]	4482	[3940, 2978]	6531	[7212, 3169]
385	[739, 740]	2434	[87, 3746]	4483	[5704, 5705]	6532	[5610, 3617]
386	[741, 742]	2435	[3747, 3748]	4484	[3885, 5411]	6533	[5345, 1129]
387	[743, 744]	2436	[3749, 1613]	4485	[5427, 2907]	6534	[7213, 380]
388	[745, 545]	2437	[3750, 2739]	4486	[3074, 1174]	6535	[3641, 5747]
389	[746, 747]	2438	[3751, 992]	4487	[5706, 973]	6536	[7214, 6207]
390	[748, 749]	2439	[3752, 1189]	4488	[5707, 5394]	6537	[7215, 5385]
391	[750, 751]	2440	[3753, 3754]	4489	[5708, 5709]	6538	[7216, 5610]
392	[752, 753]	2441	[3755, 3756]	4490	[445, 3418]	6539	[7217, 5420]
393	[754, 755]	2442	[3757, 1560]	4491	[5710, 452]	6540	[7218, 2804]
394	[756, 757]	2443	[3654, 3758]	4492	[3161, 3616]	6541	[7219, 1472]
395	[758, 759]	2444	[3759, 3760]	4493	[949, 2990]	6542	[7220, 3133]
396	[760, 761]	2445	[3761, 3762]	4494	[5711, 3997]	6543	[3370, 362]
397	[762, 763]	2446	[3763, 3505]	4495	[5712, 3162]	6544	[7221, 1608]
398	[764, 765]	2447	[3764, 2825]	4496	[5420, 1399]	6545	[396, 2754]
399	[766, 767]	2448	[3765, 3766]	4497	[5713, 3677]	6546	[7222, 5724]
400	[768, 769]	2449	[3767, 96]	4498	[5714, 3343]	6547	[3223, 1134]
401	[770, 771]	2450	[3768, 1097]	4499	[5715, 1361]	6548	[1023, 1158]

402	[772, 773]	2451	[3769, 2765]	4500	[5716, 5717]	6549	[7223, 5414]
403	[774, 775]	2452	[3770, 3771]	4501	[5718, 2909]	6550	[1639, 1093]
404	[776, 676]	2453	[1655, 1308]	4502	[5719, 254]	6551	[7224, 367]
405	[777, 778]	2454	[3772, 3036]	4503	[1115, 5720]	6552	[7225, 3313]
406	[234, 779]	2455	[3773, 3152]	4504	[3196, 5721]	6553	[5499, 5809]
407	[780, 781]	2456	[3103, 3173]	4505	[5722, 3859]	6554	[7226, 3756]
408	[782, 783]	2457	[3774, 3604]	4506	[3863, 1414]	6555	[5732, 3017]
409	[784, 785]	2458	[3095, 3775]	4507	[3700, 1006]	6556	[5547, 3850]
410	[786, 787]	2459	[3776, 3269]	4508	[5723, 3972]	6557	[7227, 3156]
411	[788, 789]	2460	[3777, 3579]	4509	[5724, 107]	6558	[7228, 5463]
412	[790, 791]	2461	[3778, 2883]	4510	[5725, 332]	6559	[7229, 121]
413	[792, 793]	2462	[3779, 3780]	4511	[5726, 1109]	6560	[7230, 5540]
414	[794, 559]	2463	[3781, 3782]	4512	[1604, 5727]	6561	[7231, 3420]
415	[795, 796]	2464	[3783, 3784]	4513	[315, 3743]	6562	[7232, 3407]
416	[225, 797]	2465	[3785, 2870]	4514	[5728, 3237]	6563	[7233, 1278]
417	[798, 799]	2466	[3786, 3787]	4515	[1189, 3625]	6564	[7234, 3023]
418	[800, 801]	2467	[3788, 475]	4516	[5729, 3855]	6565	[3482, 3075]
419	[802, 667]	2468	[3789, 302]	4517	[5730, 2911]	6566	[7235, 6178]
420	[803, 804]	2469	[3790, 3791]	4518	[5575, 5731]	6567	[7236, 2782]
421	[805, 806]	2470	[3792, 3479]	4519	[5688, 5732]	6568	[7237, 3706]
422	[807, 808]	2471	[3793, 3101]	4520	[5733, 5711]	6569	[7238, 1471]
423	[809, 810]	2472	[3794, 1152]	4521	[5734, 3666]	6570	[7239, 5823]
424	[811, 812]	2473	[403, 3795]	4522	[3138, 3632]	6571	[7240, 6130]
425	[813, 814]	2474	[3796, 3797]	4523	[5735, 943]	6572	[3108, 3591]
426	[815, 816]	2475	[3798, 1344]	4524	[5736, 4003]	6573	[1037, 3562]
427	[817, 818]	2476	[2853, 3631]	4525	[5737, 5612]	6574	[7241, 2800]
428	[819, 820]	2477	[422, 2783]	4526	[5738, 3977]	6575	[7242, 3427]
429	[821, 822]	2478	[3799, 456]	4527	[5739, 2985]	6576	[7243, 3761]
430	[823, 824]	2479	[3397, 3800]	4528	[3351, 1188]	6577	[449, 3931]
431	[825, 826]	2480	[3801, 1382]	4529	[5740, 3033]	6578	[973, 1111]
432	[827, 828]	2481	[3802, 3803]	4530	[2961, 3355]	6579	[7244, 3600]
433	[829, 830]	2482	[3804, 1060]	4531	[5741, 3522]	6580	[7245, 7174]
434	[244, 831]	2483	[3805, 3806]	4532	[5742, 3741]	6581	[2774, 2965]
435	[832, 833]	2484	[3807, 3808]	4533	[1498, 2838]	6582	[7246, 93]
436	[834, 563]	2485	[3809, 3810]	4534	[5743, 5721]	6583	[7247, 3549]
437	[835, 836]	2486	[3811, 3197]	4535	[1281, 5671]	6584	[3869, 5387]
438	[837, 838]	2487	[3812, 3363]	4536	[5744, 3940]	6585	[253, 2895]
439	[158, 839]	2488	[3813, 3814]	4537	[5745, 3258]	6586	[1264, 5542]
440	[840, 841]	2489	[3815, 3401]	4538	[293, 3493]	6587	[7248, 1148]
441	[842, 843]	2490	[3816, 3643]	4539	[5746, 5747]	6588	[7249, 3888]
442	[844, 845]	2491	[3817, 3228]	4540	[5748, 3011]	6589	[1063, 2945]
443	[724, 846]	2492	[447, 382]	4541	[5394, 5534]	6590	[7250, 6011]
444	[847, 848]	2493	[3818, 1208]	4542	[5749, 1174]	6591	[7251, 2910]
445	[849, 749]	2494	[3819, 3291]	4543	[5750, 1562]	6592	[7252, 3800]

446	[850, 733]	2495	[3118, 287]	4544	[2930, 3662]	6593	[1288, 2881]
447	[851, 852]	2496	[3820, 3821]	4545	[5751, 5752]	6594	[7253, 1271]
448	[853, 609]	2497	[320, 3822]	4546	[5753, 3247]	6595	[7254, 3206]
449	[854, 57]	2498	[3823, 3824]	4547	[5754, 1597]	6596	[7255, 2956]
450	[855, 856]	2499	[3825, 3483]	4548	[5755, 1444]	6597	[3971, 5570]
451	[857, 858]	2500	[3826, 3123]	4549	[1572, 5756]	6598	[7256, 5727]
452	[859, 499]	2501	[3827, 3828]	4550	[3418, 5757]	6599	[7257, 1234]
453	[860, 861]	2502	[3829, 3830]	4551	[5758, 5759]	6600	[7258, 2862]
454	[862, 498]	2503	[3831, 1409]	4552	[5760, 437]	6601	[1415, 7194]
455	[863, 864]	2504	[1489, 3832]	4553	[89, 5761]	6602	[4002, 87]
456	[865, 866]	2505	[3833, 3834]	4554	[5762, 372]	6603	[6222, 5876]
457	[867, 868]	2506	[3835, 1233]	4555	[5763, 5621]	6604	[7259, 5504]
458	[869, 870]	2507	[941, 3836]	4556	[3327, 1261]	6605	[7260, 1483]
459	[871, 872]	2508	[3213, 937]	4557	[5764, 3089]	6606	[3238, 3214]
460	[873, 874]	2509	[3837, 3306]	4558	[2817, 1334]	6607	[7261, 1505]
461	[875, 876]	2510	[3838, 1517]	4559	[5765, 979]	6608	[7262, 3623]
462	[877, 878]	2511	[1363, 2751]	4560	[5766, 5502]	6609	[7263, 7264]
463	[879, 880]	2512	[2732, 3554]	4561	[3522, 5767]	6610	[7265, 3505]
464	[881, 882]	2513	[3839, 1074]	4562	[3453, 5475]	6611	[3897, 7139]
465	[883, 35]	2514	[3840, 1328]	4563	[1067, 5562]	6612	[7266, 3198]
466	[884, 885]	2515	[3106, 3841]	4564	[5768, 5769]	6613	[7267, 2884]
467	[886, 650]	2516	[3842, 2931]	4565	[5770, 345]	6614	[7268, 3312]
468	[887, 888]	2517	[3843, 1545]	4566	[5771, 3778]	6615	[7269, 3947]
469	[889, 890]	2518	[979, 3844]	4567	[306, 5446]	6616	[7270, 3151]
470	[891, 892]	2519	[328, 3372]	4568	[474, 3386]	6617	[7271, 7272]
471	[893, 894]	2520	[1440, 1369]	4569	[5671, 5772]	6618	[7273, 363]
472	[895, 896]	2521	[3845, 3727]	4570	[5773, 1598]	6619	[3127, 1294]
473	[897, 898]	2522	[3846, 3148]	4571	[5774, 3374]	6620	[7274, 1410]
474	[899, 900]	2523	[2841, 1436]	4572	[3695, 3642]	6621	[7275, 3665]
475	[901, 902]	2524	[3847, 2886]	4573	[5775, 5776]	6622	[7264, 3046]
476	[903, 904]	2525	[3848, 3849]	4574	[3152, 1003]	6623	[7276, 6049]
477	[905, 906]	2526	[3850, 1431]	4575	[5777, 330]	6624	[7277, 2759]
478	[907, 128]	2527	[3631, 3701]	4576	[5778, 3088]	6625	[7278, 1104]
479	[908, 909]	2528	[3851, 1158]	4577	[5779, 1458]	6626	[7279, 3049]
480	[910, 911]	2529	[3852, 3853]	4578	[5780, 3817]	6627	[3696, 5614]
481	[912, 708]	2530	[3854, 3589]	4579	[5781, 1112]	6628	[7280, 3724]
482	[913, 914]	2531	[3855, 1344]	4580	[5782, 5783]	6629	[7281, 3536]
483	[915, 916]	2532	[3856, 3477]	4581	[5784, 5448]	6630	[7282, 3087]
484	[426, 917]	2533	[3857, 329]	4582	[3089, 5785]	6631	[7283, 3020]
485	[918, 919]	2534	[3858, 2768]	4583	[1197, 407]	6632	[7284, 391]
486	[920, 921]	2535	[3445, 3859]	4584	[5786, 5446]	6633	[7285, 1275]
487	[922, 923]	2536	[3860, 1261]	4585	[5412, 5787]	6634	[7286, 419]
488	[924, 925]	2537	[3861, 2853]	4586	[5788, 3893]	6635	[7287, 1092]
489	[926, 927]	2538	[3862, 3863]	4587	[5752, 5360]	6636	[7288, 7184]

490	[928, 929]	2539	[3864, 1277]	4588	[5789, 3287]	6637	[1514, 5810]
491	[930, 931]	2540	[3415, 2789]	4589	[5790, 3592]	6638	[7289, 1637]
492	[932, 933]	2541	[1333, 2776]	4590	[5791, 5792]	6639	[7290, 3118]
493	[934, 935]	2542	[2904, 76]	4591	[2886, 1480]	6640	[7291, 3495]
494	[936, 937]	2543	[3625, 1545]	4592	[5793, 5794]	6641	[7292, 3873]
495	[938, 939]	2544	[1432, 3865]	4593	[5795, 1554]	6642	[7293, 102]
496	[940, 941]	2545	[3866, 3867]	4594	[5796, 5593]	6643	[3616, 3429]
497	[942, 943]	2546	[2779, 1201]	4595	[5617, 1417]	6644	[3090, 3476]
498	[944, 945]	2547	[3868, 3869]	4596	[5797, 3285]	6645	[7294, 3594]
499	[946, 947]	2548	[3870, 2861]	4597	[369, 66]	6646	[5450, 3923]
500	[948, 949]	2549	[1383, 1258]	4598	[5798, 5345]	6647	[1419, 5753]
501	[950, 288]	2550	[3871, 3771]	4599	[5799, 5756]	6648	[7295, 7296]
502	[951, 952]	2551	[3620, 3872]	4600	[5386, 991]	6649	[7297, 1164]
503	[953, 954]	2552	[954, 3873]	4601	[3379, 321]	6650	[7298, 3058]
504	[955, 956]	2553	[3024, 3649]	4602	[3179, 1144]	6651	[3903, 1542]
505	[957, 958]	2554	[3874, 3875]	4603	[5800, 3168]	6652	[7299, 108]
506	[959, 960]	2555	[3876, 3877]	4604	[5801, 3916]	6653	[7300, 5440]
507	[961, 398]	2556	[3878, 3879]	4605	[5802, 5803]	6654	[7301, 927]
508	[962, 963]	2557	[3174, 3322]	4606	[3547, 3086]	6655	[7302, 1494]
509	[964, 965]	2558	[1248, 3229]	4607	[3671, 3880]	6656	[7303, 1204]
510	[966, 967]	2559	[3880, 1463]	4608	[5804, 1354]	6657	[7304, 3799]
511	[968, 969]	2560	[3881, 960]	4609	[2854, 3463]	6658	[7305, 3021]
512	[970, 971]	2561	[2907, 3882]	4610	[2982, 452]	6659	[7306, 5487]
513	[972, 973]	2562	[3883, 415]	4611	[5805, 3305]	6660	[7123, 7174]
514	[974, 975]	2563	[3884, 3885]	4612	[5806, 3286]	6661	[7307, 5999]
515	[976, 977]	2564	[3737, 3613]	4613	[5807, 1605]	6662	[3726, 2889]
516	[978, 979]	2565	[3886, 280]	4614	[5808, 3928]	6663	[7308, 3239]
517	[980, 981]	2566	[3887, 1652]	4615	[2840, 1584]	6664	[7309, 97]
518	[346, 982]	2567	[3888, 1225]	4616	[5809, 3065]	6665	[7310, 3919]
519	[983, 984]	2568	[1169, 3438]	4617	[357, 2851]	6666	[3756, 3626]
520	[985, 986]	2569	[3889, 3438]	4618	[5810, 5788]	6667	[3235, 5911]
521	[987, 988]	2570	[2843, 3254]	4619	[5811, 1177]	6668	[7311, 1378]
522	[989, 990]	2571	[1295, 1634]	4620	[5812, 5813]	6669	[7312, 1412]
523	[991, 992]	2572	[3890, 3891]	4621	[3163, 2993]	6670	[5322, 3557]
524	[993, 994]	2573	[1526, 3892]	4622	[1320, 5634]	6671	[7313, 7314]
525	[995, 996]	2574	[3893, 15]	4623	[5814, 3032]	6672	[7315, 3399]
526	[997, 998]	2575	[3894, 3895]	4624	[5815, 2923]	6673	[7316, 5550]
527	[999, 1000]	2576	[3896, 3897]	4625	[3814, 1192]	6674	[7317, 3490]
528	[1001, 1002]	2577	[1008, 3898]	4626	[5803, 5816]	6675	[7318, 1343]
529	[1003, 1004]	2578	[3899, 3628]	4627	[3328, 3165]	6676	[1536, 5677]
530	[1005, 1006]	2579	[3900, 3679]	4628	[5817, 3205]	6677	[2873, 315]
531	[1007, 1008]	2580	[3901, 3338]	4629	[67, 3009]	6678	[5899, 6171]
532	[1009, 1010]	2581	[3902, 3903]	4630	[5818, 5819]	6679	[3665, 1037]
533	[1011, 1012]	2582	[3904, 3257]	4631	[3746, 5637]	6680	[5650, 5663]

534	[1013, 1014]	2583	[3739, 1435]	4632	[5820, 5821]	6681	[344, 7296]
535	[1015, 1016]	2584	[3905, 3906]	4633	[5822, 3355]	6682	[1491, 5400]
536	[1017, 1018]	2585	[2833, 3907]	4634	[3410, 5823]	6683	[7319, 3172]
537	[1019, 1020]	2586	[3908, 3391]	4635	[5824, 2826]	6684	[5585, 3013]
538	[1021, 1022]	2587	[3909, 2767]	4636	[2760, 370]	6685	[2730, 961]
539	[428, 1023]	2588	[3910, 3218]	4637	[99, 5825]	6686	[3638, 327]
540	[1024, 1025]	2589	[2921, 450]	4638	[5826, 1114]	6687	[7320, 1403]
541	[1026, 1027]	2590	[3911, 1100]	4639	[5827, 5828]	6688	[5721, 1608]
542	[1028, 1029]	2591	[406, 3912]	4640	[5829, 5830]	6689	[3891, 5752]
543	[1030, 1031]	2592	[3913, 1090]	4641	[5831, 329]	6690	[7321, 313]
544	[1032, 1033]	2593	[3914, 3915]	4642	[5832, 5833]	6691	[7322, 3618]
545	[1034, 1035]	2594	[1105, 3916]	4643	[5834, 5810]	6692	[7323, 5609]
546	[1036, 1037]	2595	[3917, 3668]	4644	[3867, 3817]	6693	[7324, 3551]
547	[1038, 1039]	2596	[3918, 3919]	4645	[5835, 5836]	6694	[7325, 3473]
548	[1040, 1041]	2597	[3151, 3549]	4646	[5837, 3347]	6695	[7326, 5402]
549	[1042, 1043]	2598	[1277, 3920]	4647	[1279, 3915]	6696	[390, 3354]
550	[1044, 1045]	2599	[1519, 2864]	4648	[300, 1525]	6697	[3832, 3891]
551	[1046, 1047]	2600	[3921, 1386]	4649	[5838, 3646]	6698	[6034, 64]
552	[1048, 1049]	2601	[3800, 3113]	4650	[5839, 1535]	6699	[3155, 7184]
553	[1050, 1051]	2602	[1221, 1089]	4651	[3254, 3511]	6700	[414, 6016]
554	[1052, 1053]	2603	[3922, 3923]	4652	[5840, 3560]	6701	[7327, 1259]
555	[1054, 1055]	2604	[291, 3839]	4653	[5841, 3048]	6702	[7328, 2773]
556	[1056, 1057]	2605	[3924, 3419]	4654	[5842, 3833]	6703	[7329, 1643]
557	[1058, 1059]	2606	[3925, 3145]	4655	[1576, 3900]	6704	[316, 3697]
558	[1060, 1061]	2607	[3181, 3926]	4656	[5843, 3669]	6705	[353, 6308]
559	[1062, 1063]	2608	[3927, 1555]	4657	[5844, 1581]	6706	[7330, 427]
560	[1064, 1065]	2609	[1578, 3928]	4658	[5845, 1221]	6707	[1262, 3310]
561	[1066, 1067]	2610	[3929, 2865]	4659	[3591, 5846]	6708	[7331, 3369]
562	[478, 355]	2611	[3930, 3931]	4660	[1648, 3732]	6709	[7332, 321]
563	[1068, 1069]	2612	[3932, 3343]	4661	[1242, 5847]	6710	[3039, 6169]
564	[1070, 1071]	2613	[3463, 113]	4662	[5848, 5849]	6711	[3484, 1530]
565	[1072, 1073]	2614	[3933, 447]	4663	[5850, 988]	6712	[7333, 1017]
566	[1074, 317]	2615	[3934, 3364]	4664	[5851, 2869]	6713	[7334, 3603]
567	[1075, 1076]	2616	[3935, 3672]	4665	[5852, 5853]	6714	[392, 5999]
568	[1077, 1078]	2617	[3230, 3101]	4666	[5854, 3387]	6715	[5453, 3648]
569	[1079, 1080]	2618	[3936, 3937]	4667	[3567, 1498]	6716	[7335, 396]
570	[1081, 1082]	2619	[3938, 3939]	4668	[5855, 3910]	6717	[7336, 23]
571	[1083, 1084]	2620	[3428, 3940]	4669	[3302, 3895]	6718	[7337, 956]
572	[1085, 1086]	2621	[3291, 3941]	4670	[1653, 1108]	6719	[7338, 2892]
573	[1087, 1088]	2622	[3877, 3942]	4671	[5856, 5449]	6720	[3582, 1265]
574	[1089, 1090]	2623	[3943, 3127]	4672	[5857, 3763]	6721	[1144, 356]
575	[1091, 1092]	2624	[3944, 3945]	4673	[97, 5858]	6722	[7339, 1650]
576	[1093, 1094]	2625	[1208, 3946]	4674	[5859, 3942]	6723	[7340, 3205]
577	[1095, 1096]	2626	[1209, 3947]	4675	[5860, 3821]	6724	[273, 5770]

578	[1097, 1098]	2627	[3948, 1546]	4676	[5861, 5387]	6725	[7341, 1107]
579	[1099, 1100]	2628	[3949, 3213]	4677	[3450, 3479]	6726	[7342, 3219]
580	[1101, 434]	2629	[2784, 2808]	4678	[933, 3603]	6727	[7343, 3031]
581	[1102, 1103]	2630	[3249, 3719]	4679	[5862, 5631]	6728	[5494, 6190]
582	[1104, 1105]	2631	[3950, 3369]	4680	[977, 5528]	6729	[7344, 3569]
583	[1106, 1107]	2632	[3951, 3952]	4681	[5863, 3710]	6730	[3015, 6175]
584	[1108, 1109]	2633	[3953, 3209]	4682	[5864, 3066]	6731	[7345, 2772]
585	[1110, 1111]	2634	[3954, 1350]	4683	[5865, 2766]	6732	[7346, 3231]
586	[1112, 1113]	2635	[3955, 3956]	4684	[5866, 110]	6733	[3143, 5371]
587	[1114, 1115]	2636	[3957, 3610]	4685	[5867, 3147]	6734	[7347, 1539]
588	[1116, 1117]	2637	[3130, 3754]	4686	[5833, 5327]	6735	[7348, 3071]
589	[1118, 1119]	2638	[3958, 947]	4687	[5868, 318]	6736	[7349, 3775]
590	[1120, 1121]	2639	[3892, 3041]	4688	[3675, 18]	6737	[7350, 3920]
591	[1122, 1123]	2640	[3377, 3959]	4689	[5869, 1376]	6738	[2928, 5942]
592	[1124, 1125]	2641	[3960, 1186]	4690	[5870, 5506]	6739	[7351, 5575]
593	[1126, 1127]	2642	[3961, 3962]	4691	[3431, 957]	6740	[7352, 3405]
594	[1128, 1129]	2643	[3963, 1464]	4692	[2790, 3708]	6741	[5757, 5524]
595	[1130, 1131]	2644	[1148, 2745]	4693	[5871, 1032]	6742	[2962, 5984]
596	[1132, 261]	2645	[3964, 3965]	4694	[5872, 3179]	6743	[7353, 1488]
597	[1133, 1134]	2646	[3966, 67]	4695	[22, 96]	6744	[7354, 2904]
598	[1135, 1136]	2647	[2754, 1137]	4696	[5873, 5741]	6745	[7355, 2877]
599	[1137, 1138]	2648	[3967, 3468]	4697	[3758, 5373]	6746	[7356, 69]
600	[1139, 1140]	2649	[3968, 3382]	4698	[5377, 351]	6747	[7357, 3844]
601	[1141, 1142]	2650	[3969, 3203]	4699	[5874, 949]	6748	[3830, 6262]
602	[1143, 1144]	2651	[3970, 3971]	4700	[5875, 5876]	6749	[5612, 6199]
603	[1145, 1146]	2652	[3972, 308]	4701	[5877, 3893]	6750	[7358, 2760]
604	[1147, 1148]	2653	[3973, 3070]	4702	[5878, 5628]	6751	[7359, 5739]
605	[1149, 463]	2654	[3974, 3975]	4703	[5879, 942]	6752	[6201, 3467]
606	[1150, 1151]	2655	[3720, 2960]	4704	[994, 394]	6753	[7360, 3019]
607	[470, 1152]	2656	[3270, 3976]	4705	[5717, 5714]	6754	[1098, 6201]
608	[1153, 1154]	2657	[1231, 3977]	4706	[5880, 2843]	6755	[7361, 5906]
609	[1155, 1156]	2658	[3978, 1636]	4707	[5685, 3687]	6756	[7362, 1137]
610	[1157, 105]	2659	[432, 1212]	4708	[5881, 5693]	6757	[7363, 1375]
611	[1158, 1159]	2660	[3979, 3907]	4709	[5882, 29]	6758	[7364, 7365]
612	[1160, 390]	2661	[3980, 3010]	4710	[3386, 5324]	6759	[1162, 2882]
613	[1161, 1162]	2662	[255, 3981]	4711	[5883, 3574]	6760	[3449, 1160]
614	[1163, 257]	2663	[3982, 15]	4712	[5884, 5885]	6761	[7366, 5399]
615	[304, 1164]	2664	[3983, 3984]	4713	[3942, 3066]	6762	[367, 5946]
616	[1076, 1165]	2665	[3985, 2733]	4714	[5792, 2939]	6763	[1460, 3706]
617	[1166, 1167]	2666	[3975, 3700]	4715	[5886, 5724]	6764	[1450, 2903]
618	[1168, 1169]	2667	[3986, 3987]	4716	[3477, 2935]	6765	[7367, 5677]
619	[1170, 1171]	2668	[3988, 2846]	4717	[3364, 1181]	6766	[5991, 124]
620	[1172, 1173]	2669	[3989, 399]	4718	[5887, 470]	6767	[7368, 1237]
621	[1174, 1175]	2670	[3990, 3991]	4719	[5888, 1294]	6768	[7369, 3155]

622	[1176, 1177]	2671	[1204, 3373]	4720	[249, 3777]	6769	[7370, 2962]
623	[1178, 1179]	2672	[3992, 297]	4721	[5889, 2750]	6770	[6270, 2891]
624	[1180, 1181]	2673	[3132, 3675]	4722	[3009, 5890]	6771	[1626, 1121]
625	[1182, 1183]	2674	[3297, 3864]	4723	[5891, 3006]	6772	[2870, 3286]
626	[1184, 1185]	2675	[3993, 1160]	4724	[348, 923]	6773	[3742, 275]
627	[1186, 1187]	2676	[2743, 3293]	4725	[5892, 2934]	6774	[412, 5506]
628	[1188, 1189]	2677	[3994, 3995]	4726	[5646, 5504]	6775	[7371, 309]
629	[1190, 1191]	2678	[3996, 3997]	4727	[5893, 1351]	6776	[5727, 6020]
630	[1192, 1193]	2679	[3998, 1068]	4728	[5894, 953]	6777	[7372, 1366]
631	[1194, 1195]	2680	[3999, 2810]	4729	[5895, 1266]	6778	[5416, 5976]
632	[1196, 1197]	2681	[4000, 383]	4730	[2923, 291]	6779	[3614, 1007]
633	[1198, 1199]	2682	[4001, 1293]	4731	[5896, 272]	6780	[7373, 1165]
634	[1200, 1191]	2683	[3239, 1605]	4732	[5897, 2924]	6781	[7374, 3469]
635	[1201, 1202]	2684	[3766, 1124]	4733	[5898, 5899]	6782	[7375, 3320]
636	[1203, 1204]	2685	[3176, 3984]	4734	[3604, 5900]	6783	[7376, 1162]
637	[1205, 1206]	2686	[3486, 4002]	4735	[5901, 346]	6784	[7377, 3579]
638	[1207, 1208]	2687	[3504, 3433]	4736	[5902, 5903]	6785	[1428, 1078]
639	[342, 1209]	2688	[3760, 3125]	4737	[5904, 2898]	6786	[7378, 1105]
640	[1210, 1211]	2689	[4003, 3319]	4738	[5905, 1106]	6787	[386, 1313]
641	[1212, 1213]	2690	[4004, 4005]	4739	[3520, 3360]	6788	[7379, 1325]
642	[1214, 1215]	2691	[283, 3283]	4740	[3455, 5803]	6789	[7380, 1127]
643	[1216, 1217]	2692	[4006, 3135]	4741	[5906, 5885]	6790	[7381, 1315]
644	[1218, 1219]	2693	[4007, 3108]	4742	[5907, 1451]	6791	[3865, 5833]
645	[1220, 1221]	2694	[3841, 989]	4743	[5908, 5909]	6792	[7382, 6028]
646	[1222, 279]	2695	[4008, 3148]	4744	[5910, 5911]	6793	[3959, 2921]
647	[1223, 1081]	2696	[3912, 3153]	4745	[5912, 3575]	6794	[7383, 5400]
648	[1224, 1225]	2697	[3915, 1613]	4746	[5913, 2992]	6795	[1233, 3381]
649	[1226, 1227]	2698	[2911, 3363]	4747	[5914, 5406]	6796	[7384, 1279]
650	[1228, 1229]	2699	[4009, 1062]	4748	[5915, 1194]	6797	[7385, 7386]
651	[1230, 1231]	2700	[3215, 2741]	4749	[5916, 3882]	6798	[7387, 3470]
652	[1232, 1233]	2701	[1435, 79]	4750	[5917, 3654]	6799	[7388, 5846]
653	[1234, 1235]	2702	[4010, 3822]	4751	[3946, 3560]	6800	[3162, 376]
654	[1236, 1237]	2703	[1495, 3495]	4752	[975, 5918]	6801	[7389, 5667]
655	[1238, 1239]	2704	[4011, 4012]	4753	[5919, 1140]	6802	[7314, 5709]
656	[1240, 1241]	2705	[4013, 3378]	4754	[5920, 99]	6803	[7390, 1625]
657	[63, 1242]	2706	[3341, 3415]	4755	[5921, 2776]	6804	[7391, 5511]
658	[1243, 1244]	2707	[3613, 1587]	4756	[5922, 1356]	6805	[5565, 3005]
659	[1245, 1223]	2708	[4014, 1457]	4757	[5923, 5432]	6806	[5997, 20]
660	[1246, 336]	2709	[4015, 2783]	4758	[5924, 2899]	6807	[5772, 5468]
661	[1247, 1248]	2710	[1528, 1564]	4759	[5925, 3134]	6808	[7392, 3086]
662	[121, 1249]	2711	[2881, 4016]	4760	[5926, 3394]	6809	[298, 3965]
663	[1250, 1251]	2712	[4017, 3034]	4761	[5927, 2784]	6810	[7393, 3881]
664	[1252, 1253]	2713	[1335, 4018]	4762	[3011, 5928]	6811	[7394, 3073]
665	[1254, 312]	2714	[4019, 2812]	4763	[5929, 5860]	6812	[7395, 974]

666	[1255, 479]	2715	[4020, 4021]	4764	[1480, 5930]	6813	[7396, 3661]
667	[1006, 1256]	2716	[4022, 3232]	4765	[5931, 5932]	6814	[7397, 5512]
668	[1257, 1258]	2717	[4023, 4024]	4766	[5933, 289]	6815	[7398, 3119]
669	[1259, 1260]	2718	[4025, 120]	4767	[1035, 3197]	6816	[7399, 3187]
670	[1261, 1262]	2719	[4026, 3595]	4768	[5934, 987]	6817	[7400, 6190]
671	[1263, 1264]	2720	[4027, 3502]	4769	[3287, 1490]	6818	[5374, 3062]
672	[1265, 1266]	2721	[4028, 3450]	4770	[5935, 3280]	6819	[5994, 5887]
673	[1267, 1268]	2722	[4029, 4030]	4771	[5900, 5936]	6820	[7401, 6311]
674	[1269, 1270]	2723	[410, 3299]	4772	[5937, 22]	6821	[7402, 98]
675	[1271, 1095]	2724	[4031, 1414]	4773	[5938, 3328]	6822	[7403, 3956]
676	[1272, 1273]	2725	[277, 3863]	4774	[365, 2946]	6823	[7386, 2821]
677	[1274, 1275]	2726	[4032, 1075]	4775	[1404, 3029]	6824	[7404, 6264]
678	[1276, 1277]	2727	[4033, 970]	4776	[5939, 5926]	6825	[6049, 333]
679	[1278, 1279]	2728	[4034, 4035]	4777	[5940, 1606]	6826	[77, 81]
680	[1280, 1281]	2729	[4036, 4037]	4778	[5941, 5942]	6827	[3592, 3810]
681	[1282, 1283]	2730	[4038, 2168]	4779	[5943, 3041]	6828	[7405, 2833]
682	[1284, 1285]	2731	[4039, 4040]	4780	[1251, 3881]	6829	[7406, 3938]
683	[1286, 1287]	2732	[2416, 42]	4781	[5825, 5944]	6830	[6047, 7272]
684	[986, 1288]	2733	[2431, 1817]	4782	[3051, 5350]	6831	[7407, 3550]
685	[1289, 1290]	2734	[4041, 2015]	4783	[1053, 5945]	6832	[7408, 3858]
686	[1291, 420]	2735	[1740, 1994]	4784	[5946, 993]	6833	[7409, 1463]
687	[1292, 1293]	2736	[2283, 4042]	4785	[1561, 3057]	6834	[7410, 1342]
688	[1294, 1295]	2737	[2364, 4043]	4786	[5947, 983]	6835	[7411, 3994]
689	[1296, 963]	2738	[4044, 4045]	4787	[3634, 5948]	6836	[917, 5813]
690	[1297, 1020]	2739	[4046, 815]	4788	[5949, 3594]	6837	[3381, 375]
691	[1298, 1299]	2740	[749, 4047]	4789	[5950, 1514]	6838	[7412, 1131]
692	[1300, 1301]	2741	[4048, 1656]	4790	[5847, 1307]	6839	[7413, 3709]
693	[1302, 1303]	2742	[4049, 2619]	4791	[125, 5951]	6840	[7414, 273]
694	[1304, 476]	2743	[4050, 576]	4792	[3633, 3897]	6841	[1637, 3910]
695	[1305, 460]	2744	[2596, 2487]	4793	[5952, 5953]	6842	[7415, 3976]
696	[1306, 1307]	2745	[4051, 4052]	4794	[5954, 2789]	6843	[7416, 1288]
697	[1308, 1309]	2746	[4053, 1693]	4795	[5955, 5956]	6844	[2845, 7091]
698	[1310, 120]	2747	[1984, 4054]	4796	[1408, 3271]	6845	[7417, 4021]
699	[18, 1311]	2748	[4055, 819]	4797	[5957, 5958]	6846	[6060, 482]
700	[1312, 1313]	2749	[4056, 4057]	4798	[5959, 3244]	6847	[7418, 6017]
701	[1314, 1315]	2750	[4058, 4059]	4799	[3184, 5960]	6848	[7419, 1331]
702	[1316, 63]	2751	[4060, 4061]	4800	[5961, 2835]	6849	[5455, 7319]
703	[1317, 1318]	2752	[4062, 535]	4801	[5962, 3217]	6850	[5936, 6311]
704	[1319, 1320]	2753	[4063, 2012]	4802	[5963, 3367]	6851	[7420, 2813]
705	[1321, 1322]	2754	[4064, 2013]	4803	[5964, 5500]	6852	[7421, 2960]
706	[1323, 1324]	2755	[4065, 4066]	4804	[5965, 926]	6853	[7422, 1602]
707	[468, 1325]	2756	[4067, 2715]	4805	[5966, 3838]	6854	[3639, 6208]
708	[1326, 1327]	2757	[836, 4068]	4806	[5967, 1255]	6855	[6017, 3596]
709	[1022, 1328]	2758	[4069, 2281]	4807	[5968, 3737]	6856	[3693, 1575]

710	[1329, 260]	2759	[4070, 4071]	4808	[5969, 2937]	6857	[7423, 1647]
711	[1330, 1331]	2760	[4072, 4073]	4809	[5970, 2939]	6858	[7424, 3872]
712	[1332, 1333]	2761	[755, 4074]	4810	[3803, 271]	6859	[7425, 945]
713	[1334, 1335]	2762	[4075, 1996]	4811	[3536, 5971]	6860	[7426, 2977]
714	[1336, 1337]	2763	[4076, 4077]	4812	[5972, 3025]	6861	[6262, 1255]
715	[1338, 1339]	2764	[1949, 4071]	4813	[5973, 5419]	6862	[7427, 3207]
716	[322, 1340]	2765	[4078, 2106]	4814	[3679, 1512]	6863	[7428, 6319]
717	[1185, 1341]	2766	[4079, 4080]	4815	[5332, 3323]	6864	[7429, 1123]
718	[1342, 1343]	2767	[1915, 2383]	4816	[5607, 3786]	6865	[7430, 2781]
719	[1344, 1345]	2768	[4081, 4082]	4817	[5974, 5975]	6866	[7431, 6222]
720	[1346, 1347]	2769	[4083, 4045]	4818	[5552, 3531]	6867	[251, 6168]
721	[1348, 1349]	2770	[4084, 649]	4819	[5976, 1172]	6868	[7432, 5598]
722	[359, 1350]	2771	[4085, 4086]	4820	[3879, 999]	6869	[7433, 7434]
723	[1351, 1352]	2772	[2519, 1728]	4821	[5977, 1447]	6870	[5441, 7145]
724	[1353, 1354]	2773	[4087, 1703]	4822	[5978, 1536]	6871	[5665, 6219]
725	[1355, 299]	2774	[639, 2625]	4823	[5979, 3345]	6872	[7435, 3136]
726	[1356, 1046]	2775	[4088, 4089]	4824	[1601, 5739]	6873	[7436, 3457]
727	[1357, 1358]	2776	[4090, 687]	4825	[5980, 3605]	6874	[3467, 348]
728	[1359, 1360]	2777	[603, 2372]	4826	[5981, 5945]	6875	[3013, 3962]
729	[1361, 1362]	2778	[2411, 682]	4827	[3673, 5982]	6876	[4021, 3145]
730	[75, 1363]	2779	[4091, 1742]	4828	[5983, 5984]	6877	[6173, 256]
731	[1364, 1365]	2780	[4092, 2006]	4829	[5985, 1074]	6878	[7437, 7319]
732	[1366, 1274]	2781	[4093, 2713]	4830	[398, 402]	6879	[7438, 3787]
733	[1367, 1368]	2782	[1728, 2523]	4831	[5986, 5930]	6880	[3606, 5953]
734	[1369, 1101]	2783	[631, 2123]	4832	[2932, 1241]	6881	[7439, 1512]
735	[1370, 1371]	2784	[4094, 4095]	4833	[1550, 68]	6882	[340, 5564]
736	[1358, 1372]	2785	[4096, 1657]	4834	[1123, 3802]	6883	[7440, 7213]
737	[1373, 1374]	2786	[4097, 10]	4835	[1025, 3563]	6884	[7441, 5767]
738	[1375, 1376]	2787	[4098, 1712]	4836	[5987, 5988]	6885	[6005, 3509]
739	[1377, 1378]	2788	[1996, 1674]	4837	[5989, 5872]	6886	[7442, 1619]
740	[1379, 268]	2789	[4099, 521]	4838	[324, 2835]	6887	[7443, 1519]
741	[1380, 1381]	2790	[4100, 805]	4839	[5990, 5991]	6888	[7444, 3719]
742	[1382, 1383]	2791	[4101, 4102]	4840	[5992, 5369]	6889	[3433, 3357]
743	[1384, 1385]	2792	[4103, 2045]	4841	[5463, 442]	6890	[1239, 1317]
744	[1386, 1387]	2793	[4104, 4105]	4842	[5993, 2811]	6891	[3347, 5685]
745	[1388, 1389]	2794	[4106, 4107]	4843	[5930, 3142]	6892	[1303, 3458]
746	[1390, 1391]	2795	[898, 1836]	4844	[3669, 5516]	6893	[1470, 3780]
747	[1392, 1393]	2796	[2101, 4108]	4845	[308, 3187]	6894	[7445, 3107]
748	[1394, 1395]	2797	[831, 1993]	4846	[5593, 5643]	6895	[7446, 3037]
749	[1396, 1397]	2798	[4109, 4110]	4847	[3828, 5994]	6896	[6010, 6047]
750	[1398, 1399]	2799	[4111, 2019]	4848	[5995, 1124]	6897	[5404, 1374]
751	[1400, 88]	2800	[841, 4112]	4849	[5996, 5997]	6898	[3977, 3830]
752	[1401, 1402]	2801	[843, 692]	4850	[5998, 83]	6899	[7447, 3238]
753	[1403, 1404]	2802	[4113, 4114]	4851	[5999, 5522]	6900	[7448, 3317]

754	[1405, 1406]	2803	[4115, 4116]	4852	[931, 3488]	6901	[7449, 360]
755	[1407, 1408]	2804	[4117, 2013]	4853	[3557, 4032]	6902	[7450, 5611]
756	[1409, 1410]	2805	[611, 857]	4854	[6000, 6001]	6903	[7451, 7340]
757	[1411, 1251]	2806	[4118, 1997]	4855	[3762, 3176]	6904	[7452, 5435]
758	[1412, 1413]	2807	[4119, 4120]	4856	[5836, 3763]	6905	[7453, 2959]
759	[1414, 1415]	2808	[4121, 4122]	4857	[6002, 917]	6906	[7454, 1201]
760	[1416, 64]	2809	[4095, 2200]	4858	[6003, 2978]	6907	[2849, 3487]
761	[1417, 1228]	2810	[4123, 1952]	4859	[6004, 990]	6908	[7455, 3941]
762	[1418, 1419]	2811	[229, 4124]	4860	[5794, 6005]	6909	[7456, 5469]
763	[1420, 1421]	2812	[4125, 615]	4861	[1004, 3660]	6910	[7457, 5714]
764	[1422, 298]	2813	[4126, 4127]	4862	[6006, 5498]	6911	[7458, 7408]
765	[1423, 1424]	2814	[4128, 4129]	4863	[5776, 1059]	6912	[3198, 1156]
766	[1425, 1426]	2815	[4130, 4131]	4864	[6007, 479]	6913	[7459, 2734]
767	[1427, 1428]	2816	[2640, 1869]	4865	[326, 422]	6914	[1360, 1548]
768	[1354, 1429]	2817	[4132, 2301]	4866	[3724, 6008]	6915	[1472, 3416]
769	[1430, 1015]	2818	[4122, 2121]	4867	[6009, 3214]	6916	[3332, 1427]
770	[1431, 1432]	2819	[4133, 4134]	4868	[5761, 3305]	6917	[7460, 2777]
771	[269, 1433]	2820	[4135, 4136]	4869	[5759, 3838]	6918	[7461, 2932]
772	[1434, 1435]	2821	[4137, 1671]	4870	[6001, 6010]	6919	[7462, 2832]
773	[1436, 252]	2822	[4068, 2108]	4871	[5579, 1141]	6920	[7463, 482]
774	[1437, 1438]	2823	[4138, 4139]	4872	[1585, 2755]	6921	[6111, 5344]
775	[1439, 1440]	2824	[4140, 4120]	4873	[6011, 3337]	6922	[466, 1388]
776	[1441, 1274]	2825	[4141, 4142]	4874	[6012, 2883]	6923	[7464, 977]
777	[1442, 293]	2826	[4143, 1942]	4875	[5830, 3018]	6924	[3571, 5313]
778	[1443, 102]	2827	[4144, 2473]	4876	[6013, 118]	6925	[7465, 5597]
779	[1444, 296]	2828	[4145, 2]	4877	[1113, 5665]	6926	[2968, 1473]
780	[1445, 1446]	2829	[4146, 742]	4878	[3565, 3879]	6927	[7466, 5392]
781	[1447, 1448]	2830	[4147, 2005]	4879	[5411, 3846]	6928	[7467, 1436]
782	[1449, 1450]	2831	[4148, 1907]	4880	[6014, 3216]	6929	[7468, 3868]
783	[85, 1451]	2832	[4149, 1843]	4881	[1217, 309]	6930	[7469, 1417]
784	[1452, 1453]	2833	[812, 4150]	4882	[6015, 1069]	6931	[7470, 5356]
785	[1454, 1455]	2834	[4151, 4152]	4883	[6016, 1465]	6932	[109, 1356]
786	[1456, 1440]	2835	[4153, 4055]	4884	[5401, 6017]	6933	[5524, 7293]
787	[1457, 1458]	2836	[1826, 4154]	4885	[5320, 1487]	6934	[2896, 6187]
788	[1459, 1460]	2837	[4155, 907]	4886	[5948, 6018]	6935	[3780, 98]
789	[1461, 1462]	2838	[4156, 583]	4887	[6019, 6020]	6936	[7471, 2979]
790	[1463, 1464]	2839	[4157, 4158]	4888	[6021, 1573]	6937	[7472, 1179]
791	[1465, 1466]	2840	[4159, 2639]	4889	[4035, 6022]	6938	[1191, 1324]
792	[1467, 1468]	2841	[4160, 4161]	4890	[5629, 3640]	6939	[7473, 7081]
793	[1469, 1470]	2842	[1934, 4162]	4891	[6023, 5944]	6940	[7474, 5373]
794	[1471, 1472]	2843	[4163, 1786]	4892	[6024, 3697]	6941	[7475, 468]
795	[1473, 1386]	2844	[4164, 1834]	4893	[6025, 1489]	6942	[7476, 1202]
796	[1103, 1474]	2845	[4165, 2513]	4894	[6026, 6027]	6943	[6040, 3058]
797	[1475, 1476]	2846	[4166, 504]	4895	[1324, 6028]	6944	[7477, 1568]

798	[1477, 1478]	2847	[4167, 2501]	4896	[6029, 1499]	6945	[7296, 3689]
799	[1479, 1480]	2848	[4168, 4169]	4897	[6030, 3157]	6946	[3708, 925]
800	[1481, 1142]	2849	[643, 2059]	4898	[6031, 3648]	6947	[7478, 2922]
801	[1482, 1483]	2850	[856, 4170]	4899	[6032, 5404]	6948	[3113, 7314]
802	[1484, 1485]	2851	[4171, 518]	4900	[6033, 6034]	6949	[3330, 5899]
803	[1486, 1487]	2852	[689, 2571]	4901	[963, 5693]	6950	[7479, 7293]
804	[1488, 1489]	2853	[1976, 4172]	4902	[6035, 1089]	6951	[2747, 5973]
805	[1490, 1491]	2854	[1980, 1938]	4903	[6036, 88]	6952	[1293, 3761]
806	[1492, 1493]	2855	[4173, 4174]	4904	[5480, 3430]	6953	[7480, 3684]
807	[1494, 1495]	2856	[781, 4175]	4905	[1542, 3099]	6954	[7481, 3898]
808	[1496, 1342]	2857	[4176, 4177]	4906	[6037, 3102]	6955	[2739, 2806]
809	[1497, 1498]	2858	[4178, 4179]	4907	[6038, 5494]	6956	[459, 1150]
810	[1499, 1500]	2859	[4180, 4181]	4908	[6039, 5542]	6957	[6022, 2951]
811	[1501, 1385]	2860	[4182, 1829]	4909	[5587, 331]	6958	[6124, 1043]
812	[1502, 1503]	2861	[4183, 1922]	4910	[3791, 6040]	6959	[1569, 5956]
813	[1504, 1505]	2862	[2477, 2527]	4911	[6041, 3272]	6960	[7482, 7483]
814	[1506, 1507]	2863	[4184, 4185]	4912	[1554, 3137]	6961	[7484, 7485]
815	[281, 1508]	2864	[4186, 767]	4913	[6042, 5353]	6962	[7486, 938]
816	[1229, 1509]	2865	[4187, 887]	4914	[6043, 5886]	6963	[7487, 3736]
817	[1510, 1511]	2866	[4188, 1990]	4915	[6044, 3022]	6964	[7488, 382]
818	[1512, 438]	2867	[4189, 4190]	4916	[6045, 3864]	6965	[1152, 1366]
819	[1173, 1021]	2868	[4191, 1995]	4917	[3017, 1593]	6966	[1395, 341]
820	[967, 1499]	2869	[4192, 4163]	4918	[3734, 5783]	6967	[4012, 1550]
821	[1513, 1514]	2870	[2032, 1997]	4919	[6046, 6047]	6968	[1206, 3116]
822	[1515, 1083]	2871	[4193, 4073]	4920	[5581, 5382]	6969	[7489, 1503]
823	[1516, 1517]	2872	[4194, 2577]	4921	[6048, 2964]	6970	[7490, 115]
824	[1518, 1519]	2873	[4195, 503]	4922	[3003, 6049]	6971	[7491, 3880]
825	[1520, 1521]	2874	[1913, 2495]	4923	[275, 6050]	6972	[7492, 362]
826	[1522, 1236]	2875	[4196, 4197]	4924	[2847, 1377]	6973	[7493, 1175]
827	[1523, 1524]	2876	[4198, 4043]	4925	[6051, 3790]	6974	[3920, 946]
828	[1525, 1526]	2877	[4199, 1756]	4926	[6052, 3141]	6975	[5598, 1002]
829	[1527, 1528]	2878	[4200, 4201]	4927	[6053, 1247]	6976	[7494, 3869]
830	[1529, 978]	2879	[511, 2255]	4928	[3059, 5949]	6977	[4016, 379]
831	[1530, 928]	2880	[4089, 4202]	4929	[6054, 3506]	6978	[5628, 2823]
832	[1531, 1532]	2881	[4203, 1848]	4930	[6055, 3307]	6979	[7495, 2940]
833	[1533, 1534]	2882	[4204, 1940]	4931	[6056, 1450]	6980	[7496, 1321]
834	[1535, 1536]	2883	[4205, 2268]	4932	[3217, 1543]	6981	[7497, 5554]
835	[1537, 1538]	2884	[2471, 666]	4933	[3405, 5435]	6982	[7498, 3803]
836	[1539, 1540]	2885	[2200, 2257]	4934	[6057, 5847]	6983	[7499, 1138]
837	[1541, 1542]	2886	[4206, 862]	4935	[1589, 5458]	6984	[7500, 377]
838	[1543, 1544]	2887	[4207, 2015]	4936	[2781, 5717]	6985	[7501, 6126]
839	[1545, 1546]	2888	[4208, 4209]	4937	[480, 3517]	6986	[1268, 446]
840	[1547, 1548]	2889	[4210, 2091]	4938	[1421, 5556]	6987	[7502, 7503]
841	[1549, 1550]	2890	[4211, 4200]	4939	[6058, 2882]	6988	[483, 3971]

842	[1551, 1300]	2891	[4212, 701]	4940	[1378, 73]	6989	[7504, 1112]
843	[1347, 1302]	2892	[4213, 4182]	4941	[287, 3605]	6990	[2925, 264]
844	[1552, 462]	2893	[4214, 2658]	4942	[6059, 6060]	6991	[7505, 1130]
845	[1553, 1554]	2894	[4215, 714]	4943	[6061, 5753]	6992	[7506, 1509]
846	[1202, 1176]	2895	[4216, 157]	4944	[6062, 1490]	6993	[361, 3073]
847	[119, 1555]	2896	[491, 4217]	4945	[3928, 2980]	6994	[7507, 4035]
848	[1556, 1557]	2897	[4218, 4219]	4946	[1352, 1622]	6995	[3465, 5369]
849	[1558, 76]	2898	[4220, 4066]	4947	[6063, 1172]	6996	[7508, 3103]
850	[1559, 1369]	2899	[4221, 4222]	4948	[6064, 3184]	6997	[7509, 6053]
851	[1560, 1561]	2900	[4223, 2050]	4949	[5313, 1423]	6998	[7510, 3494]
852	[1562, 1538]	2901	[4224, 4110]	4950	[6065, 1576]	6999	[3470, 7386]
853	[1563, 408]	2902	[4225, 1913]	4951	[6066, 1249]	7000	[1630, 1087]
854	[1564, 1565]	2903	[4226, 639]	4952	[3844, 1215]	7001	[7511, 1594]
855	[1566, 1567]	2904	[4227, 153]	4953	[2988, 1122]	7002	[7512, 1561]
856	[1568, 1569]	2905	[4228, 1807]	4954	[6067, 6068]	7003	[7513, 1305]
857	[105, 1570]	2906	[4229, 4230]	4955	[6069, 3332]	7004	[7514, 1188]
858	[1571, 1572]	2907	[4231, 843]	4956	[6070, 2890]	7005	[5982, 3952]
859	[1573, 1574]	2908	[4232, 4233]	4957	[1156, 2972]	7006	[7515, 3146]
860	[1575, 1576]	2909	[4234, 1923]	4958	[6071, 5900]	7007	[3703, 364]
861	[1577, 1578]	2910	[4235, 2008]	4959	[6072, 3511]	7008	[1253, 3797]
862	[373, 1535]	2911	[4236, 4237]	4960	[6073, 3368]	7009	[7516, 1173]
863	[1579, 1580]	2912	[892, 4238]	4961	[1270, 3552]	7010	[7517, 3705]
864	[1183, 1581]	2913	[4239, 4240]	4962	[6074, 431]	7011	[3354, 3790]
865	[1582, 1583]	2914	[2692, 4241]	4963	[6075, 3344]	7012	[7518, 3434]
866	[1584, 1585]	2915	[4169, 1977]	4964	[5705, 1029]	7013	[5338, 5886]
867	[1586, 1371]	2916	[4242, 771]	4965	[6076, 1609]	7014	[7519, 1075]
868	[1587, 1186]	2917	[4243, 1832]	4966	[5471, 464]	7015	[5358, 3378]
869	[1588, 1589]	2918	[4244, 2009]	4967	[5958, 3903]	7016	[7520, 3597]
870	[1590, 1591]	2919	[4245, 2546]	4968	[6050, 1455]	7017	[7521, 2860]
871	[1592, 1593]	2920	[4246, 855]	4969	[6077, 5459]	7018	[7522, 3695]
872	[1594, 1595]	2921	[4247, 857]	4970	[6078, 3713]	7019	[6185, 1287]
873	[1596, 455]	2922	[4248, 4249]	4971	[6079, 934]	7020	[5956, 84]
874	[338, 1597]	2923	[4250, 4251]	4972	[3030, 5775]	7021	[3310, 3055]
875	[1084, 1598]	2924	[4252, 622]	4973	[6080, 3991]	7022	[7523, 1256]
876	[401, 1599]	2925	[4253, 514]	4974	[6028, 3835]	7023	[7524, 3398]
877	[1600, 1601]	2926	[4254, 2304]	4975	[5399, 3911]	7024	[7525, 6097]
878	[1016, 1602]	2927	[4255, 1675]	4976	[6081, 1146]	7025	[7526, 3858]
879	[1603, 1604]	2928	[4256, 2539]	4977	[6082, 3163]	7026	[2862, 3705]
880	[1605, 1606]	2929	[4257, 2265]	4978	[6083, 3871]	7027	[7527, 1113]
881	[1607, 1290]	2930	[507, 4258]	4979	[3945, 1154]	7028	[7528, 6022]
882	[1608, 1609]	2931	[4259, 555]	4980	[6084, 3777]	7029	[5348, 3312]
883	[1610, 249]	2932	[4260, 2728]	4981	[6085, 1575]	7030	[7529, 1080]
884	[289, 91]	2933	[4261, 4262]	4982	[6086, 5816]	7031	[7530, 3478]
885	[925, 1611]	2934	[2362, 4263]	4983	[3677, 6087]	7032	[1611, 1484]

886	[1612, 281]	2935	[4264, 4265]	4984	[5828, 5440]	7033	[1244, 3132]
887	[1613, 1283]	2936	[4266, 4267]	4985	[6088, 388]	7034	[7531, 3443]
888	[1614, 1615]	2937	[4268, 2720]	4986	[6089, 1088]	7035	[334, 5915]
889	[1616, 288]	2938	[4269, 4270]	4987	[3064, 5991]	7036	[7532, 453]
890	[1617, 75]	2939	[4271, 248]	4988	[5787, 1171]	7037	[3211, 1052]
891	[1618, 1096]	2940	[2475, 718]	4989	[6090, 6010]	7038	[7533, 5416]
892	[1619, 1438]	2941	[4272, 2135]	4990	[3941, 5592]	7039	[7534, 1039]
893	[943, 1620]	2942	[4273, 2112]	4991	[6091, 5348]	7040	[3087, 5652]
894	[1621, 1622]	2943	[4274, 851]	4992	[3390, 5459]	7041	[3984, 7340]
895	[1623, 1624]	2944	[2336, 239]	4993	[6092, 3400]	7042	[443, 3739]
896	[1625, 1626]	2945	[4275, 2129]	4994	[6093, 5581]	7043	[7535, 3912]
897	[1627, 1408]	2946	[4276, 4277]	4995	[6094, 1544]	7044	[7536, 5528]
898	[1628, 1629]	2947	[4278, 4279]	4996	[6095, 4034]	7045	[7537, 3075]
899	[363, 1630]	2948	[2354, 4280]	4997	[1211, 5331]	7046	[5944, 6097]
900	[1631, 1632]	2949	[4281, 4105]	4998	[350, 6096]	7047	[93, 431]
901	[1633, 1603]	2950	[4282, 4283]	4999	[3956, 6034]	7048	[3313, 1330]
902	[1634, 932]	2951	[4284, 4285]	5000	[6097, 2759]	7049	[2912, 7430]
903	[1635, 474]	2952	[2705, 4286]	5001	[6098, 1046]	7050	[5945, 3445]
904	[1636, 1637]	2953	[4287, 573]	5002	[1111, 3265]	7051	[7538, 1016]
905	[1027, 29]	2954	[4288, 4289]	5003	[6099, 3059]	7052	[7539, 7540]
906	[1638, 1639]	2955	[864, 2707]	5004	[6100, 5720]	7053	[1151, 2869]
907	[1640, 1641]	2956	[4290, 2283]	5005	[6101, 1345]	7054	[5640, 3106]
908	[1642, 1643]	2957	[4291, 2257]	5006	[2984, 305]	7055	[7541, 384]
909	[1644, 1645]	2958	[4292, 2383]	5007	[6102, 376]	7056	[1438, 3827]
910	[1646, 1065]	2959	[4293, 2102]	5008	[6103, 1595]	7057	[7542, 5565]
911	[1647, 1648]	2960	[4294, 227]	5009	[6104, 3723]	7058	[7543, 1525]
912	[1649, 1022]	2961	[1771, 613]	5010	[3931, 436]	7059	[7544, 1404]
913	[1650, 1651]	2962	[4295, 4296]	5011	[6105, 1268]	7060	[7545, 3568]
914	[1652, 1653]	2963	[4297, 4298]	5012	[1468, 5781]	7061	[7546, 5788]
915	[1503, 1654]	2964	[4299, 2364]	5013	[3125, 5769]	7062	[7547, 3691]
916	[1374, 1655]	2965	[4300, 2048]	5014	[3666, 2737]	7063	[3294, 5353]
917	[814, 1656]	2966	[4301, 4302]	5015	[3357, 3599]	7064	[7548, 6177]
918	[559, 1657]	2967	[4303, 873]	5016	[2737, 3667]	7065	[5385, 1299]
919	[1658, 911]	2968	[4304, 1779]	5017	[6106, 5800]	7066	[7549, 7550]
920	[1659, 1660]	2969	[4305, 4306]	5018	[6107, 1242]	7067	[7551, 92]
921	[1661, 1662]	2970	[4307, 820]	5019	[6108, 3791]	7068	[7552, 3742]
922	[1663, 1664]	2971	[4308, 4309]	5020	[6109, 3826]	7069	[3834, 1073]
923	[1665, 916]	2972	[1883, 2328]	5021	[5549, 1468]	7070	[7553, 4894]
924	[1666, 1667]	2973	[194, 4310]	5022	[3242, 1539]	7071	[2569, 2159]
925	[1668, 1669]	2974	[4311, 4312]	5023	[6110, 6111]	7072	[625, 6632]
926	[1670, 1671]	2975	[4313, 1748]	5024	[6112, 395]	7073	[7554, 7555]
927	[1672, 1673]	2976	[4314, 4315]	5025	[6113, 3701]	7074	[7556, 4480]
928	[1674, 1675]	2977	[2671, 914]	5026	[6114, 1387]	7075	[7557, 6571]
929	[1676, 1677]	2978	[4316, 1975]	5027	[6115, 2991]	7076	[4983, 6353]

930	[1678, 168]	2979	[4317, 1828]	5028	[6116, 5450]	7077	[2418, 6596]
931	[1679, 1680]	2980	[2031, 2105]	5029	[6117, 3959]	7078	[4219, 6532]
932	[1681, 1682]	2981	[4318, 1998]	5030	[6118, 3969]	7079	[7558, 696]
933	[601, 1683]	2982	[4319, 860]	5031	[3569, 1027]	7080	[757, 691]
934	[1684, 1685]	2983	[4320, 4321]	5032	[6119, 3622]	7081	[7559, 1670]
935	[736, 1686]	2984	[4322, 4323]	5033	[6120, 6121]	7082	[7560, 2474]
936	[1687, 223]	2985	[136, 4242]	5034	[6122, 5785]	7083	[7561, 4806]
937	[1688, 492]	2986	[4324, 4162]	5035	[6123, 5520]	7084	[7562, 4696]
938	[1689, 787]	2987	[4325, 1969]	5036	[3718, 3427]	7085	[5258, 2529]
939	[1690, 1691]	2988	[142, 2356]	5037	[5415, 6121]	7086	[555, 6450]
940	[1692, 1693]	2989	[4326, 4327]	5038	[1570, 1647]	7087	[2689, 6701]
941	[1694, 1695]	2990	[4328, 2623]	5039	[3077, 6124]	7088	[7563, 2654]
942	[1696, 1697]	2991	[4329, 2246]	5040	[6125, 1571]	7089	[7564, 4144]
943	[1698, 1699]	2992	[4330, 2060]	5041	[3689, 6126]	7090	[6717, 7025]
944	[852, 866]	2993	[4331, 1836]	5042	[6127, 5480]	7091	[7565, 2697]
945	[1700, 1701]	2994	[4332, 511]	5043	[6128, 2929]	7092	[4695, 6881]
946	[1702, 1703]	2995	[4333, 1986]	5044	[5783, 4020]	7093	[1718, 6777]
947	[1704, 880]	2996	[4334, 2696]	5045	[5634, 1289]	7094	[5150, 1732]
948	[1705, 1706]	2997	[911, 2512]	5046	[6129, 1094]	7095	[7566, 626]
949	[1707, 1708]	2998	[4335, 4336]	5047	[6130, 1147]	7096	[4280, 4867]
950	[1709, 1710]	2999	[2651, 1972]	5048	[6131, 993]	7097	[6719, 4914]
951	[1711, 568]	3000	[4337, 4338]	5049	[2750, 5358]	7098	[7567, 4462]
952	[1712, 887]	3001	[2036, 4339]	5050	[6132, 3841]	7099	[7568, 2063]
953	[1713, 1714]	3002	[4340, 4341]	5051	[6133, 3190]	7100	[1677, 2067]
954	[1715, 1716]	3003	[4342, 505]	5052	[69, 3766]	7101	[2481, 4409]
955	[1717, 1718]	3004	[4343, 4344]	5053	[6134, 481]	7102	[7569, 7068]
956	[1719, 1720]	3005	[4345, 838]	5054	[6135, 366]	7103	[7570, 7045]
957	[1721, 1722]	3006	[138, 4184]	5055	[4, 3973]	7104	[6792, 6884]
958	[1723, 1724]	3007	[888, 4346]	5056	[3797, 1161]	7105	[4052, 1700]
959	[1725, 1726]	3008	[4347, 4325]	5057	[3388, 3195]	7106	[4362, 2572]
960	[1727, 1728]	3009	[4348, 4349]	5058	[3398, 3260]	7107	[6493, 4793]
961	[1729, 1730]	3010	[4350, 1776]	5059	[6136, 1475]	7108	[7006, 2525]
962	[1731, 1676]	3011	[4351, 1844]	5060	[6137, 4005]	7109	[7571, 4103]
963	[1732, 1733]	3012	[4352, 4353]	5061	[6138, 5329]	7110	[2170, 4158]
964	[591, 1734]	3013	[4354, 4355]	5062	[3506, 3209]	7111	[5120, 4653]
965	[1735, 1736]	3014	[4356, 4357]	5063	[6139, 3406]	7112	[7572, 1885]
966	[1737, 1738]	3015	[4358, 2019]	5064	[6140, 1008]	7113	[7573, 6380]
967	[1739, 1740]	3016	[4217, 4359]	5065	[2899, 3734]	7114	[7574, 4676]
968	[1741, 1742]	3017	[4360, 4346]	5066	[6141, 3720]	7115	[7575, 6397]
969	[687, 169]	3018	[4361, 4362]	5067	[1622, 3715]	7116	[615, 4244]
970	[1743, 1744]	3019	[4363, 204]	5068	[6142, 2896]	7117	[2642, 4301]
971	[1745, 1746]	3020	[2517, 1787]	5069	[6143, 1439]	7118	[7576, 2680]
972	[1747, 637]	3021	[4364, 4365]	5070	[6144, 6145]	7119	[7577, 4732]
973	[1748, 1749]	3022	[4366, 1891]	5071	[6146, 428]	7120	[7578, 6460]

974	[1750, 1751]	3023	[4367, 2723]	5072	[5324, 3500]	7121	[7579, 2608]
975	[1752, 589]	3024	[2133, 4368]	5073	[6147, 6148]	7122	[7580, 4113]
976	[1753, 1754]	3025	[719, 611]	5074	[6149, 311]	7123	[7581, 4726]
977	[1755, 1756]	3026	[2045, 2336]	5075	[6150, 450]	7124	[7582, 4229]
978	[1757, 1735]	3027	[4369, 4370]	5076	[6151, 1003]	7125	[2659, 2094]
979	[1758, 1759]	3028	[4371, 4056]	5077	[6152, 265]	7126	[675, 2450]
980	[1760, 1739]	3029	[4372, 4277]	5078	[5951, 6153]	7127	[6596, 4131]
981	[1761, 1762]	3030	[4373, 4374]	5079	[384, 5607]	7128	[1993, 4939]
982	[1763, 1764]	3031	[4285, 4375]	5080	[6154, 262]	7129	[7583, 7584]
983	[1765, 1754]	3032	[4376, 4189]	5081	[6155, 5761]	7130	[7585, 4817]
984	[1766, 1767]	3033	[2688, 2343]	5082	[6156, 3827]	7131	[7586, 5195]
985	[1768, 1769]	3034	[4377, 4267]	5083	[6157, 3143]	7132	[6340, 4282]
986	[613, 558]	3035	[4378, 4379]	5084	[6158, 1339]	7133	[1886, 131]
987	[1770, 1771]	3036	[4380, 4381]	5085	[6159, 2866]	7134	[2567, 2112]
988	[1772, 1773]	3037	[1726, 2726]	5086	[5903, 2786]	7135	[7587, 6383]
989	[1774, 513]	3038	[236, 4142]	5087	[5331, 3504]	7136	[7588, 7589]
990	[1775, 1776]	3039	[685, 4295]	5088	[5984, 5691]	7137	[7590, 1694]
991	[1777, 1740]	3040	[4382, 2604]	5089	[3538, 21]	7138	[7591, 7592]
992	[1778, 1779]	3041	[2043, 4383]	5090	[6160, 1585]	7139	[7593, 4760]
993	[1780, 1699]	3042	[4384, 4385]	5091	[2867, 1502]	7140	[2585, 7006]
994	[1781, 1782]	3043	[4386, 4387]	5092	[6161, 5669]	7141	[6681, 4876]
995	[1783, 1784]	3044	[4388, 4389]	5093	[6162, 5976]	7142	[7594, 6745]
996	[1785, 1786]	3045	[4390, 4391]	5094	[5393, 3806]	7143	[6881, 817]
997	[1787, 1788]	3046	[4392, 4393]	5095	[6163, 380]	7144	[7595, 5159]
998	[1789, 1790]	3047	[4394, 4395]	5096	[6164, 3168]	7145	[7596, 4983]
999	[1791, 1792]	3048	[4396, 2387]	5097	[939, 3849]	7146	[7597, 6560]
1000	[213, 1793]	3049	[4353, 4397]	5098	[6165, 5906]	7147	[4625, 1815]
1001	[1794, 1795]	3050	[4398, 163]	5099	[6166, 4032]	7148	[7598, 552]
1002	[1796, 636]	3051	[4399, 4400]	5100	[6167, 2946]	7149	[7599, 4867]
1003	[793, 1797]	3052	[4086, 4401]	5101	[6168, 5688]	7150	[5092, 7600]
1004	[1798, 1799]	3053	[4402, 2428]	5102	[5413, 5648]	7151	[7601, 6449]
1005	[1800, 1801]	3054	[4403, 2084]	5103	[6169, 4003]	7152	[223, 4144]
1006	[1802, 1803]	3055	[4404, 1981]	5104	[6170, 6171]	7153	[7602, 568]
1007	[1804, 1805]	3056	[4110, 43]	5105	[6172, 3658]	7154	[2178, 2240]
1008	[1806, 1807]	3057	[4405, 858]	5106	[5823, 6173]	7155	[7603, 7604]
1009	[916, 1808]	3058	[4406, 4407]	5107	[6174, 6175]	7156	[6802, 6901]
1010	[1809, 1810]	3059	[4408, 2328]	5108	[6176, 3995]	7157	[5253, 1849]
1011	[1811, 1812]	3060	[4409, 4410]	5109	[1241, 6177]	7158	[5030, 4440]
1012	[1813, 1814]	3061	[4411, 4412]	5110	[5618, 444]	7159	[4703, 7605]
1013	[1815, 1816]	3062	[4413, 1844]	5111	[1127, 6178]	7160	[6636, 6650]
1014	[1817, 1818]	3063	[4414, 1961]	5112	[6179, 5890]	7161	[7606, 602]
1015	[1819, 1820]	3064	[4415, 4241]	5113	[6180, 364]	7162	[2329, 1842]
1016	[1821, 1714]	3065	[4416, 154]	5114	[1301, 1636]	7163	[4928, 552]
1017	[1822, 1823]	3066	[4417, 2640]	5115	[6181, 1229]	7164	[7607, 2095]

1018	[1824, 709]	3067	[4418, 4419]	5116	[6182, 6169]	7165	[7608, 4989]
1019	[1825, 1826]	3068	[4420, 4401]	5117	[6183, 3828]	7166	[2014, 7045]
1020	[1827, 1828]	3069	[4421, 4422]	5118	[6184, 6185]	7167	[1738, 7584]
1021	[1829, 1830]	3070	[10, 2005]	5119	[6186, 3302]	7168	[5152, 2090]
1022	[1831, 1832]	3071	[4423, 699]	5120	[1532, 1375]	7169	[7609, 4786]
1023	[818, 1833]	3072	[4424, 4425]	5121	[5595, 5792]	7170	[7610, 6514]
1024	[1834, 1835]	3073	[4426, 4427]	5122	[6187, 114]	7171	[6765, 4505]
1025	[1836, 1820]	3074	[697, 4428]	5123	[332, 2848]	7172	[4628, 6617]
1026	[1837, 721]	3075	[4429, 4234]	5124	[5431, 292]	7173	[2558, 1989]
1027	[1838, 805]	3076	[4430, 2352]	5125	[6068, 3559]	7174	[7611, 2155]
1028	[1839, 1840]	3077	[4431, 2379]	5126	[5697, 1457]	7175	[7612, 4195]
1029	[1841, 868]	3078	[2523, 4432]	5127	[3228, 6001]	7176	[7613, 6732]
1030	[1842, 1843]	3079	[671, 4433]	5128	[1393, 5362]	7177	[7614, 1767]
1031	[1844, 791]	3080	[4434, 728]	5129	[6188, 3732]	7178	[1876, 6610]
1032	[1845, 578]	3081	[4435, 4436]	5130	[6189, 3384]	7179	[4375, 6997]
1033	[1846, 558]	3082	[4437, 652]	5131	[6190, 3710]	7180	[7615, 590]
1034	[1847, 1848]	3083	[4438, 4439]	5132	[6191, 1052]	7181	[7616, 4682]
1035	[1849, 1850]	3084	[4440, 4441]	5133	[6192, 3694]	7182	[7617, 4499]
1036	[1851, 1837]	3085	[1942, 575]	5134	[1493, 3020]	7183	[7618, 4206]
1037	[1852, 1853]	3086	[4442, 2404]	5135	[6193, 6194]	7184	[7619, 1678]
1038	[1854, 1855]	3087	[4443, 4072]	5136	[923, 1353]	7185	[1840, 6369]
1039	[1856, 1857]	3088	[4444, 2626]	5137	[6195, 305]	7186	[7620, 2207]
1040	[1858, 1859]	3089	[4445, 4446]	5138	[6196, 3755]	7187	[6381, 4250]
1041	[1860, 761]	3090	[759, 2477]	5139	[6197, 3352]	7188	[7621, 7003]
1042	[1861, 1862]	3091	[4447, 4448]	5140	[3784, 1045]	7189	[4668, 7580]
1043	[1863, 1864]	3092	[4346, 4449]	5141	[6198, 6199]	7190	[4659, 6792]
1044	[1865, 1866]	3093	[4450, 1966]	5142	[6200, 6201]	7191	[7622, 5003]
1045	[1867, 547]	3094	[4451, 2469]	5143	[6202, 1248]	7192	[7623, 557]
1046	[1868, 1755]	3095	[4452, 1677]	5144	[5505, 5583]	7193	[7624, 585]
1047	[1869, 745]	3096	[2697, 1712]	5145	[6203, 341]	7194	[7625, 1958]
1048	[1870, 52]	3097	[4453, 4454]	5146	[6204, 325]	7195	[7626, 2037]
1049	[1871, 1872]	3098	[4455, 4456]	5147	[6205, 2827]	7196	[2087, 4333]
1050	[1873, 1795]	3099	[4457, 781]	5148	[6206, 5401]	7197	[7627, 803]
1051	[1874, 1716]	3100	[2583, 4458]	5149	[1000, 3994]	7198	[5172, 7024]
1052	[1875, 1876]	3101	[4459, 2331]	5150	[1167, 6207]	7199	[7628, 2576]
1053	[1877, 1878]	3102	[4460, 2591]	5151	[6208, 6165]	7200	[150, 1753]
1054	[1879, 1880]	3103	[2588, 4461]	5152	[6209, 6172]	7201	[6775, 4216]
1055	[763, 1881]	3104	[804, 4462]	5153	[6210, 416]	7202	[2103, 5145]
1056	[1882, 1883]	3105	[4463, 4464]	5154	[3226, 353]	7203	[2079, 4436]
1057	[1884, 908]	3106	[4465, 1774]	5155	[6211, 6187]	7204	[7629, 553]
1058	[1885, 1886]	3107	[2555, 4466]	5156	[1599, 3183]	7205	[7630, 2721]
1059	[1887, 1888]	3108	[2010, 509]	5157	[6212, 1295]	7206	[7631, 1750]
1060	[160, 1889]	3109	[4467, 4468]	5158	[6213, 6214]	7207	[7632, 7633]
1061	[1807, 1803]	3110	[4469, 4470]	5159	[6215, 1642]	7208	[7634, 5283]

1062	[1890, 779]	3111	[4471, 4472]	5160	[6216, 1644]	7209	[2277, 4709]
1063	[1891, 1892]	3112	[2385, 4473]	5161	[6217, 1217]	7210	[4678, 2645]
1064	[1893, 1894]	3113	[4474, 4475]	5162	[6218, 5615]	7211	[2711, 7012]
1065	[1895, 1896]	3114	[4476, 4477]	5163	[6219, 5828]	7212	[7635, 7636]
1066	[1866, 782]	3115	[4478, 2630]	5164	[6220, 5505]	7213	[7637, 4258]
1067	[1897, 1898]	3116	[4479, 2585]	5165	[6221, 310]	7214	[4310, 7057]
1068	[1899, 1900]	3117	[2109, 4100]	5166	[2786, 6222]	7215	[7638, 6529]
1069	[1901, 1902]	3118	[4480, 2723]	5167	[6223, 2793]	7216	[7639, 2162]
1070	[1903, 1904]	3119	[4481, 733]	5168	[5769, 6048]	7217	[186, 4555]
1071	[1905, 1906]	3120	[4482, 1817]	5169	[6224, 3493]	7218	[7061, 6397]
1072	[1907, 1908]	3121	[4483, 2395]	5170	[6225, 3943]	7219	[6617, 4581]
1073	[1909, 812]	3122	[4484, 1784]	5171	[5890, 3259]	7220	[695, 2636]
1074	[567, 162]	3123	[4485, 816]	5172	[6226, 5352]	7221	[7640, 7641]
1075	[1910, 1911]	3124	[4486, 2181]	5173	[2807, 2927]	7222	[7642, 212]
1076	[1912, 1913]	3125	[742, 4265]	5174	[3564, 2988]	7223	[7636, 4115]
1077	[1914, 1915]	3126	[4487, 4488]	5175	[2794, 3671]	7224	[7555, 4085]
1078	[1916, 1720]	3127	[709, 2244]	5176	[3165, 3327]	7225	[7643, 682]
1079	[1917, 1918]	3128	[4489, 2338]	5177	[6227, 4030]	7226	[7644, 5033]
1080	[1919, 1920]	3129	[4490, 2591]	5178	[1181, 2871]	7227	[673, 5172]
1081	[1921, 1922]	3130	[499, 2129]	5179	[6228, 1118]	7228	[4410, 844]
1082	[1923, 1924]	3131	[734, 4491]	5180	[6229, 3036]	7229	[7645, 2186]
1083	[1925, 1926]	3132	[4492, 4124]	5181	[1318, 919]	7230	[7646, 4757]
1084	[1927, 635]	3133	[4493, 2666]	5182	[6230, 342]	7231	[7647, 7648]
1085	[1928, 565]	3134	[4494, 2598]	5183	[6231, 3117]	7232	[2268, 6385]
1086	[1929, 1930]	3135	[4495, 2291]	5184	[3037, 1421]	7233	[6344, 2221]
1087	[1931, 1932]	3136	[4496, 2629]	5185	[6232, 2980]	7234	[7649, 6878]
1088	[1933, 1934]	3137	[4497, 2093]	5186	[5360, 3498]	7235	[6911, 4753]
1089	[1935, 1936]	3138	[2601, 744]	5187	[921, 2958]	7236	[7650, 1816]
1090	[1937, 1902]	3139	[4498, 2325]	5188	[6233, 2805]	7237	[7651, 5060]
1091	[1938, 1939]	3140	[4499, 564]	5189	[6234, 3270]	7238	[2276, 6950]
1092	[838, 1940]	3141	[32, 657]	5190	[2878, 921]	7239	[7652, 4306]
1093	[1941, 1942]	3142	[4500, 2588]	5191	[6235, 3218]	7240	[7653, 4227]
1094	[1943, 836]	3143	[4249, 4143]	5192	[6126, 3814]	7241	[5291, 4763]
1095	[1944, 1697]	3144	[2302, 842]	5193	[5632, 5909]	7242	[2458, 671]
1096	[1945, 1946]	3145	[4501, 507]	5194	[6236, 1556]	7243	[6919, 6668]
1097	[1947, 570]	3146	[4502, 2676]	5195	[6237, 444]	7244	[7654, 485]
1098	[1948, 1949]	3147	[134, 4503]	5196	[6238, 3194]	7245	[7655, 700]
1099	[1950, 1951]	3148	[4504, 4185]	5197	[3745, 5821]	7246	[7656, 4376]
1100	[1952, 562]	3149	[1664, 1778]	5198	[3906, 1616]	7247	[4439, 2072]
1101	[1953, 1932]	3150	[4505, 4036]	5199	[6239, 2900]	7248	[7657, 5141]
1102	[1954, 1955]	3151	[2539, 4506]	5200	[6240, 1372]	7249	[7600, 2139]
1103	[525, 1741]	3152	[4507, 4368]	5201	[5376, 6111]	7250	[7658, 5069]
1104	[1956, 1957]	3153	[779, 2349]	5202	[3461, 2817]	7251	[2552, 4236]
1105	[1958, 522]	3154	[2648, 599]	5203	[6241, 6242]	7252	[2339, 4474]

1106	[152, 848]	3155	[4508, 4509]	5204	[3554, 1267]	7253	[4370, 1944]
1107	[1959, 1960]	3156	[4510, 4251]	5205	[3713, 1038]	7254	[7659, 4174]
1108	[1961, 1962]	3157	[4511, 856]	5206	[6243, 5951]	7255	[730, 2075]
1109	[1963, 567]	3158	[4512, 4513]	5207	[6244, 2949]	7256	[7660, 6396]
1110	[693, 1964]	3159	[4514, 4218]	5208	[6245, 3626]	7257	[7661, 6422]
1111	[1965, 1966]	3160	[4515, 4516]	5209	[6246, 3510]	7258	[7662, 6423]
1112	[1967, 1968]	3161	[4517, 153]	5210	[6247, 3946]	7259	[7663, 7664]
1113	[1969, 1970]	3162	[4336, 2546]	5211	[6248, 3491]	7260	[6820, 2238]
1114	[1971, 1972]	3163	[4338, 4518]	5212	[6249, 6005]	7261	[4105, 5155]
1115	[1973, 1974]	3164	[4519, 4094]	5213	[3476, 1320]	7262	[7665, 2377]
1116	[1975, 1976]	3165	[4071, 4134]	5214	[6250, 1635]	7263	[7666, 2708]
1117	[1977, 1978]	3166	[2118, 4520]	5215	[6251, 1648]	7264	[7667, 5201]
1118	[1979, 1980]	3167	[4521, 4522]	5216	[6252, 3614]	7265	[7668, 6466]
1119	[1981, 1982]	3168	[4523, 2657]	5217	[5614, 3306]	7266	[7669, 6858]
1120	[1983, 1984]	3169	[4524, 174]	5218	[6253, 3130]	7267	[7670, 4433]
1121	[1985, 1986]	3170	[906, 2380]	5219	[1606, 6242]	7268	[7671, 7672]
1122	[1987, 1988]	3171	[4525, 4373]	5220	[3200, 3567]	7269	[778, 6396]
1123	[1989, 1990]	3172	[4526, 2000]	5221	[6254, 5632]	7270	[7673, 5142]
1124	[1991, 1759]	3173	[2590, 231]	5222	[6255, 1508]	7271	[7674, 2503]
1125	[1992, 1993]	3174	[2699, 4527]	5223	[6256, 3120]	7272	[7675, 697]
1126	[1994, 1762]	3175	[4528, 2661]	5224	[6257, 3183]	7273	[7676, 2695]
1127	[1995, 1996]	3176	[4529, 2214]	5225	[6258, 3690]	7274	[7677, 2088]
1128	[1997, 1998]	3177	[4530, 2092]	5226	[6259, 3142]	7275	[7678, 6452]
1129	[1999, 1911]	3178	[4531, 2648]	5227	[6260, 5772]	7276	[7679, 2004]
1130	[2000, 2001]	3179	[4532, 804]	5228	[6261, 6262]	7277	[7680, 4709]
1131	[2002, 826]	3180	[4533, 829]	5229	[6263, 1389]	7278	[667, 6851]
1132	[2003, 2004]	3181	[4534, 2623]	5230	[3597, 3119]	7279	[7681, 177]
1133	[2005, 2006]	3182	[4535, 909]	5231	[6264, 5988]	7280	[7682, 6858]
1134	[2007, 2008]	3183	[4536, 4095]	5232	[6265, 1634]	7281	[806, 2439]
1135	[2009, 2010]	3184	[4537, 4538]	5233	[6266, 3100]	7282	[7683, 4088]
1136	[2011, 713]	3185	[4539, 4540]	5234	[5678, 5635]	7283	[7684, 6399]
1137	[2012, 1770]	3186	[4541, 661]	5235	[6267, 6040]	7284	[6701, 4352]
1138	[2013, 2014]	3187	[597, 2404]	5236	[5756, 3157]	7285	[4190, 2634]
1139	[2015, 2016]	3188	[599, 1906]	5237	[6268, 3383]	7286	[7685, 1914]
1140	[2017, 2018]	3189	[4542, 2618]	5238	[6269, 5413]	7287	[5163, 2165]
1141	[2019, 1847]	3190	[4543, 845]	5239	[5731, 6270]	7288	[4136, 4464]
1142	[2020, 1900]	3191	[4544, 4545]	5240	[6271, 6272]	7289	[7686, 4915]
1143	[2021, 242]	3192	[4546, 2170]	5241	[3685, 3535]	7290	[7687, 139]
1144	[2022, 688]	3193	[4547, 1897]	5242	[6273, 3743]	7291	[7688, 4943]
1145	[2023, 2024]	3194	[4548, 874]	5243	[6274, 5419]	7292	[2722, 6960]
1146	[2025, 2026]	3195	[4549, 4550]	5244	[6275, 1572]	7293	[7689, 6342]
1147	[2027, 2028]	3196	[4551, 2142]	5245	[6276, 365]	7294	[2168, 4524]
1148	[1749, 885]	3197	[4552, 4553]	5246	[6277, 3740]	7295	[7690, 6902]
1149	[2029, 556]	3198	[4554, 155]	5247	[6278, 2993]	7296	[664, 4780]

1150	[2030, 2031]	3199	[4555, 2315]	5248	[6279, 933]	7297	[501, 6909]
1151	[872, 2032]	3200	[4556, 846]	5249	[6272, 3987]	7298	[2186, 833]
1152	[890, 146]	3201	[4557, 1814]	5250	[6280, 3329]	7299	[7691, 216]
1153	[2033, 2034]	3202	[1900, 2101]	5251	[6281, 2807]	7300	[4238, 5251]
1154	[2035, 2036]	3203	[4558, 2011]	5252	[6282, 3188]	7301	[858, 530]
1155	[2037, 1883]	3204	[4559, 4560]	5253	[6283, 3029]	7302	[7692, 2678]
1156	[2038, 194]	3205	[4561, 4458]	5254	[3247, 268]	7303	[7693, 4729]
1157	[2039, 2040]	3206	[4562, 2246]	5255	[6284, 461]	7304	[7694, 2165]
1158	[2041, 577]	3207	[1932, 4163]	5256	[6020, 5585]	7305	[6415, 2151]
1159	[1833, 225]	3208	[4563, 4170]	5257	[6285, 5678]	7306	[7695, 4566]
1160	[2042, 2043]	3209	[4564, 4565]	5258	[5816, 3888]	7307	[6428, 6541]
1161	[2044, 2045]	3210	[4566, 4056]	5259	[6286, 1053]	7308	[6522, 2664]
1162	[2016, 57]	3211	[2062, 1914]	5260	[6287, 1540]	7309	[2502, 6747]
1163	[2046, 2047]	3212	[660, 2330]	5261	[6288, 1466]	7310	[7696, 5279]
1164	[589, 1735]	3213	[156, 4567]	5262	[6289, 1054]	7311	[7697, 1989]
1165	[1911, 2048]	3214	[4568, 2103]	5263	[1002, 3857]	7312	[909, 6571]
1166	[2049, 2050]	3215	[4569, 4400]	5264	[6290, 6008]	7313	[7698, 4468]
1167	[2051, 2036]	3216	[4570, 4519]	5265	[1345, 414]	7314	[7699, 6381]
1168	[2052, 2053]	3217	[2089, 2586]	5266	[3729, 3232]	7315	[7700, 6758]
1169	[2054, 2009]	3218	[2703, 4381]	5267	[6291, 3316]	7316	[7701, 6833]
1170	[2055, 2056]	3219	[4571, 4572]	5268	[6292, 1380]	7317	[7702, 5251]
1171	[2057, 1746]	3220	[4108, 2088]	5269	[982, 5669]	7318	[539, 6765]
1172	[2058, 1829]	3221	[4573, 2181]	5270	[455, 2799]	7319	[7703, 2391]
1173	[2059, 2060]	3222	[1918, 1855]	5271	[3420, 5356]	7320	[7704, 4302]
1174	[2061, 2062]	3223	[2456, 4574]	5272	[6293, 3116]	7321	[7705, 7605]
1175	[2063, 2064]	3224	[4575, 4576]	5273	[6294, 5776]	7322	[4913, 6418]
1176	[2065, 2066]	3225	[4577, 44]	5274	[6295, 2824]	7323	[7706, 6568]
1177	[2067, 2068]	3226	[4578, 4579]	5275	[6296, 3911]	7324	[7707, 6961]
1178	[1716, 2069]	3227	[4580, 4581]	5276	[6297, 1063]	7325	[7708, 2163]
1179	[2070, 228]	3228	[4582, 616]	5277	[6298, 3998]	7326	[7709, 6919]
1180	[2071, 2072]	3229	[2028, 4583]	5278	[6299, 467]	7327	[6811, 4690]
1181	[2073, 631]	3230	[2177, 4460]	5279	[6300, 6048]	7328	[2571, 2033]
1182	[2074, 2075]	3231	[4584, 4189]	5280	[6301, 5787]	7329	[7710, 4236]
1183	[2076, 2077]	3232	[4585, 4503]	5281	[3836, 3969]	7330	[2212, 7664]
1184	[2078, 2079]	3233	[4586, 2577]	5282	[6302, 3908]	7331	[7711, 5089]
1185	[2080, 2081]	3234	[4587, 4068]	5283	[6303, 5486]	7332	[791, 6474]
1186	[1695, 2082]	3235	[4588, 4080]	5284	[6304, 2733]	7333	[2437, 6355]
1187	[221, 2083]	3236	[4589, 4590]	5285	[1094, 3040]	7334	[2157, 6903]
1188	[2084, 14]	3237	[4591, 571]	5286	[95, 3251]	7335	[5127, 2462]
1189	[2085, 1818]	3238	[4448, 4569]	5287	[6305, 3000]	7336	[7712, 2565]
1190	[2086, 2087]	3239	[2655, 2666]	5288	[6306, 5389]	7337	[1767, 487]
1191	[2088, 2089]	3240	[4059, 4592]	5289	[6307, 6308]	7338	[4943, 7641]
1192	[2090, 2091]	3241	[4593, 4114]	5290	[6309, 969]	7339	[2409, 5063]
1193	[2092, 2093]	3242	[1660, 2579]	5291	[6310, 3275]	7340	[7713, 4562]

1194	[2094, 641]	3243	[1888, 4550]	5292	[6311, 6027]	7341	[751, 2037]
1195	[2095, 1690]	3244	[4594, 4595]	5293	[5371, 3088]	7342	[4222, 2292]
1196	[2096, 824]	3245	[4596, 4597]	5294	[6312, 306]	7343	[7714, 4376]
1197	[2097, 782]	3246	[4598, 4599]	5295	[3895, 1349]	7344	[7715, 6960]
1198	[2098, 828]	3247	[4600, 522]	5296	[5362, 6313]	7345	[7057, 4571]
1199	[1970, 2099]	3248	[2616, 2366]	5297	[3821, 1079]	7346	[2621, 890]
1200	[2100, 2101]	3249	[40, 1980]	5298	[6314, 3990]	7347	[4074, 6869]
1201	[2102, 2065]	3250	[4601, 163]	5299	[6315, 3484]	7348	[4820, 6422]
1202	[1742, 2103]	3251	[4602, 2066]	5300	[6145, 3077]	7349	[7716, 4115]
1203	[2104, 1736]	3252	[4603, 4604]	5301	[6316, 2895]	7350	[6413, 4450]
1204	[2105, 2106]	3253	[2114, 2536]	5302	[1478, 3341]	7351	[7717, 7624]
1205	[2107, 2108]	3254	[4605, 2068]	5303	[2865, 467]	7352	[7718, 6504]
1206	[1733, 2109]	3255	[4606, 160]	5304	[6317, 3091]	7353	[7719, 7025]
1207	[2110, 2111]	3256	[1691, 4139]	5305	[6318, 957]	7354	[7720, 2033]
1208	[2112, 1669]	3257	[2405, 4607]	5306	[1055, 6319]	7355	[4436, 6732]
1209	[2113, 2114]	3258	[4608, 4601]	5307	[5402, 1071]	7356	[7721, 7582]
1210	[2077, 2115]	3259	[4609, 1963]	5308	[3859, 6060]	7357	[2126, 4800]
1211	[2116, 2117]	3260	[4610, 231]	5309	[6320, 1193]	7358	[7722, 1811]
1212	[826, 2118]	3261	[4611, 2049]	5310	[6321, 5534]	7359	[2285, 7582]
1213	[828, 2119]	3262	[4612, 2051]	5311	[6096, 3461]	7360	[7723, 6496]
1214	[2120, 2121]	3263	[4613, 586]	5312	[6322, 4167]	7361	[7724, 827]
1215	[2122, 2123]	3264	[4614, 4540]	5313	[6323, 2425]	7362	[7725, 7726]
1216	[2124, 818]	3265	[4615, 852]	5314	[6324, 2414]	7363	[4309, 2353]
1217	[2125, 2126]	3266	[4616, 2240]	5315	[6325, 2610]	7364	[7727, 2632]
1218	[2127, 2128]	3267	[4617, 1732]	5316	[861, 2608]	7365	[7728, 4528]
1219	[2129, 2130]	3268	[4618, 2611]	5317	[4583, 230]	7366	[5134, 2310]
1220	[2131, 2132]	3269	[4619, 715]	5318	[765, 4737]	7367	[7729, 4778]
1221	[1930, 2133]	3270	[4620, 4519]	5319	[6326, 5016]	7368	[7730, 7559]
1222	[2134, 2135]	3271	[4621, 4622]	5320	[1790, 4421]	7369	[4590, 7731]
1223	[2136, 1923]	3272	[2399, 2254]	5321	[6327, 4419]	7370	[7732, 5085]
1224	[2137, 2138]	3273	[4623, 841]	5322	[6328, 5230]	7371	[2160, 602]
1225	[2139, 1957]	3274	[894, 4443]	5323	[6329, 6330]	7372	[4131, 4899]
1226	[2140, 1984]	3275	[4624, 4625]	5324	[6331, 5150]	7373	[1878, 6910]
1227	[2141, 2142]	3276	[4626, 4627]	5325	[6332, 1676]	7374	[7733, 4836]
1228	[2143, 2144]	3277	[4449, 4628]	5326	[6333, 5247]	7375	[4472, 809]
1229	[2145, 1888]	3278	[4629, 842]	5327	[2250, 1851]	7376	[7734, 6487]
1230	[2146, 2147]	3279	[4630, 2297]	5328	[6334, 5034]	7377	[7735, 5137]
1231	[2148, 2149]	3280	[2645, 2300]	5329	[2128, 6335]	7378	[7736, 817]
1232	[2150, 2151]	3281	[4631, 4632]	5330	[4116, 754]	7379	[753, 1725]
1233	[2152, 2153]	3282	[4633, 2615]	5331	[6336, 2117]	7380	[4306, 1738]
1234	[2154, 2155]	3283	[4634, 4242]	5332	[2696, 6337]	7381	[2123, 668]
1235	[2156, 2157]	3284	[4635, 4466]	5333	[1843, 6338]	7382	[7737, 4232]
1236	[2158, 1722]	3285	[4636, 2218]	5334	[6339, 6340]	7383	[2194, 7738]
1237	[2159, 2160]	3286	[4637, 4607]	5335	[1788, 6341]	7384	[7739, 7740]

1238	[2161, 2162]	3287	[4638, 2203]	5336	[6342, 4227]	7385	[6399, 4797]
1239	[2163, 2164]	3288	[4639, 4640]	5337	[6343, 6344]	7386	[7741, 6748]
1240	[2165, 2166]	3289	[4641, 1724]	5338	[6345, 4918]	7387	[6950, 5299]
1241	[2167, 1856]	3290	[4642, 4643]	5339	[2466, 4425]	7388	[7742, 1835]
1242	[58, 2168]	3291	[4644, 2177]	5340	[6346, 6347]	7389	[2115, 2216]
1243	[2169, 584]	3292	[4645, 1955]	5341	[6348, 4880]	7390	[4806, 4962]
1244	[2018, 2170]	3293	[4646, 4647]	5342	[6349, 2301]	7391	[7743, 6490]
1245	[2171, 2172]	3294	[848, 4648]	5343	[6350, 2193]	7392	[7744, 6590]
1246	[2173, 2174]	3295	[4649, 4508]	5344	[6351, 2014]	7393	[2553, 7064]
1247	[2175, 2028]	3296	[4650, 4116]	5345	[4349, 4358]	7394	[7012, 5069]
1248	[2176, 2177]	3297	[4651, 2217]	5346	[6352, 6353]	7395	[7745, 1752]
1249	[238, 2178]	3298	[4652, 4539]	5347	[6354, 6355]	7396	[7746, 6575]
1250	[2179, 2180]	3299	[2635, 4077]	5348	[6356, 4054]	7397	[7747, 487]
1251	[1746, 593]	3300	[4653, 2503]	5349	[6357, 4047]	7398	[4961, 4387]
1252	[2181, 2182]	3301	[4654, 2504]	5350	[6358, 4879]	7399	[7748, 7731]
1253	[2183, 2184]	3302	[4477, 4562]	5351	[6359, 2719]	7400	[1818, 5007]
1254	[2185, 2186]	3303	[4655, 1660]	5352	[6360, 4461]	7401	[7749, 5310]
1255	[2187, 2188]	3304	[4656, 1751]	5353	[6361, 1850]	7402	[7750, 2094]
1256	[1801, 2189]	3305	[4657, 2144]	5354	[616, 2145]	7403	[7751, 624]
1257	[845, 2190]	3306	[4658, 1770]	5355	[6362, 6363]	7404	[7752, 542]
1258	[2191, 741]	3307	[1946, 4659]	5356	[4748, 4695]	7405	[7753, 5223]
1259	[2192, 2118]	3308	[4660, 4315]	5357	[6364, 4477]	7406	[7754, 7755]
1260	[2193, 2194]	3309	[4661, 4662]	5358	[6365, 4237]	7407	[7756, 2385]
1261	[2195, 2196]	3310	[4663, 1851]	5359	[6366, 2563]	7408	[7757, 6681]
1262	[2197, 2109]	3311	[4664, 4665]	5360	[6367, 2671]	7409	[1744, 4391]
1263	[2198, 2023]	3312	[4666, 2102]	5361	[6368, 6369]	7410	[7758, 2310]
1264	[2199, 2200]	3313	[4667, 689]	5362	[6370, 677]	7411	[4791, 5280]
1265	[2201, 1830]	3314	[2279, 4668]	5363	[6371, 642]	7412	[6394, 4411]
1266	[2202, 2203]	3315	[4669, 618]	5364	[6372, 862]	7413	[4296, 4453]
1267	[2204, 2205]	3316	[2121, 2309]	5365	[6373, 5179]	7414	[4632, 7624]
1268	[2206, 851]	3317	[4670, 583]	5366	[1960, 4858]	7415	[6515, 2584]
1269	[2207, 2208]	3318	[4671, 4576]	5367	[6374, 4216]	7416	[217, 139]
1270	[2209, 757]	3319	[4672, 4673]	5368	[6375, 4491]	7417	[4934, 910]
1271	[1832, 1945]	3320	[4674, 4675]	5369	[6376, 5258]	7418	[7759, 7066]
1272	[2210, 799]	3321	[2668, 4676]	5370	[701, 5092]	7419	[7760, 2529]
1273	[2211, 2212]	3322	[4677, 4678]	5371	[6377, 6378]	7420	[7641, 6466]
1274	[146, 730]	3323	[4679, 4680]	5372	[4690, 2581]	7421	[7761, 4633]
1275	[2213, 2214]	3324	[4681, 2174]	5373	[6379, 2212]	7422	[5155, 5195]
1276	[2215, 2216]	3325	[4682, 645]	5374	[6380, 6381]	7423	[6335, 2721]
1277	[2217, 2218]	3326	[1889, 1739]	5375	[6382, 6383]	7424	[7762, 2530]
1278	[2219, 2220]	3327	[4683, 4172]	5376	[6384, 2227]	7425	[1864, 4309]
1279	[2221, 2077]	3328	[4077, 808]	5377	[6385, 5174]	7426	[7763, 4642]
1280	[2222, 2223]	3329	[4684, 1891]	5378	[6386, 4628]	7427	[2356, 2680]
1281	[2224, 1858]	3330	[4685, 4686]	5379	[2274, 5020]	7428	[4919, 6575]

1282	[2225, 2226]	3331	[679, 4646]	5380	[6387, 185]	7429	[7764, 7765]
1283	[2227, 2228]	3332	[4687, 2430]	5381	[6388, 6389]	7430	[7766, 4574]
1284	[2229, 2230]	3333	[4688, 658]	5382	[6390, 2272]	7431	[7767, 7600]
1285	[2231, 189]	3334	[4689, 4690]	5383	[5201, 1866]	7432	[7768, 7769]
1286	[2232, 2233]	3335	[4691, 2099]	5384	[4339, 4516]	7433	[4700, 680]
1287	[2234, 2235]	3336	[4692, 4693]	5385	[4047, 4215]	7434	[7770, 6818]
1288	[1769, 1936]	3337	[4694, 4695]	5386	[6391, 1778]	7435	[7771, 1944]
1289	[2236, 1962]	3338	[4696, 4697]	5387	[6392, 1809]	7436	[6818, 6671]
1290	[1708, 1930]	3339	[4698, 4699]	5388	[6393, 5272]	7437	[7772, 5070]
1291	[2237, 1763]	3340	[2155, 4700]	5389	[1764, 189]	7438	[6338, 216]
1292	[2238, 2239]	3341	[4701, 4573]	5390	[2373, 6394]	7439	[4932, 837]
1293	[2240, 2241]	3342	[4702, 4703]	5391	[6395, 4733]	7440	[7773, 4385]
1294	[2242, 2243]	3343	[4704, 888]	5392	[6396, 51]	7441	[7774, 4848]
1295	[2244, 2245]	3344	[4175, 2087]	5393	[6397, 4586]	7442	[7775, 2440]
1296	[2246, 2247]	3345	[2451, 2533]	5394	[6398, 4460]	7443	[7776, 2266]
1297	[2248, 627]	3346	[4705, 855]	5395	[4574, 6399]	7444	[2270, 5027]
1298	[2249, 2250]	3347	[4706, 1933]	5396	[6400, 6401]	7445	[801, 4825]
1299	[2251, 2252]	3348	[4707, 4708]	5397	[6402, 2315]	7446	[7777, 2292]
1300	[2253, 2254]	3349	[4458, 2701]	5398	[6403, 6404]	7447	[7778, 7010]
1301	[2255, 2256]	3350	[4709, 2084]	5399	[2395, 1952]	7448	[7779, 4684]
1302	[2257, 717]	3351	[4710, 2026]	5400	[6405, 1894]	7449	[7780, 696]
1303	[2258, 234]	3352	[4676, 1730]	5401	[6406, 491]	7450	[5135, 6570]
1304	[2259, 2208]	3353	[4711, 4712]	5402	[5259, 5055]	7451	[7781, 6561]
1305	[2260, 875]	3354	[4713, 4296]	5403	[6407, 6408]	7452	[4737, 2646]
1306	[2261, 2262]	3355	[4714, 4583]	5404	[6409, 2728]	7453	[7782, 7580]
1307	[2263, 2264]	3356	[4715, 2341]	5405	[6410, 3412]	7454	[7783, 7061]
1308	[2265, 2137]	3357	[4716, 1789]	5406	[6411, 5174]	7455	[7784, 7578]
1309	[2266, 896]	3358	[4717, 1927]	5407	[2245, 6412]	7456	[4327, 5030]
1310	[2267, 1892]	3359	[4718, 4719]	5408	[2530, 6413]	7457	[7785, 7773]
1311	[36, 2268]	3360	[4422, 4402]	5409	[2715, 4934]	7458	[7066, 528]
1312	[2269, 2270]	3361	[4720, 2459]	5410	[6414, 6415]	7459	[46, 4874]
1313	[2271, 1790]	3362	[565, 2719]	5411	[6416, 4338]	7460	[7786, 7554]
1314	[2272, 2273]	3363	[4721, 4337]	5412	[6417, 693]	7461	[4289, 4682]
1315	[645, 1876]	3364	[4722, 4506]	5413	[6418, 4083]	7462	[7787, 7733]
1316	[48, 2274]	3365	[4723, 4074]	5414	[1675, 1715]	7463	[7788, 4359]
1317	[2275, 2276]	3366	[553, 2272]	5415	[6419, 4922]	7464	[5138, 840]
1318	[2164, 2277]	3367	[4724, 2245]	5416	[6420, 551]	7465	[6904, 6557]
1319	[2278, 2279]	3368	[1759, 1744]	5417	[5212, 792]	7466	[1730, 2147]
1320	[2280, 768]	3369	[4725, 732]	5418	[4152, 4240]	7467	[7789, 488]
1321	[2281, 2220]	3370	[2469, 4726]	5419	[4054, 629]	7468	[7790, 6802]
1322	[2282, 2283]	3371	[4727, 4728]	5420	[2382, 2677]	7469	[7726, 2143]
1323	[2284, 2285]	3372	[4170, 4323]	5421	[2676, 129]	7470	[7791, 2454]
1324	[2286, 2287]	3373	[4729, 2281]	5422	[4665, 6421]	7471	[7792, 2139]
1325	[650, 815]	3374	[4730, 797]	5423	[2381, 2556]	7472	[2387, 1910]

1326	[1898, 2011]	3375	[4731, 137]	5424	[691, 541]	7473	[180, 6817]
1327	[2288, 2289]	3376	[4732, 4733]	5425	[717, 2569]	7474	[7633, 6380]
1328	[2290, 2291]	3377	[4734, 1683]	5426	[1756, 2695]	7475	[7793, 4224]
1329	[2292, 506]	3378	[4735, 621]	5427	[6422, 527]	7476	[2527, 7633]
1330	[2293, 514]	3379	[4237, 622]	5428	[6423, 6424]	7477	[7794, 7727]
1331	[2294, 2295]	3380	[4736, 4737]	5429	[6425, 1766]	7478	[7795, 4250]
1332	[2296, 2297]	3381	[4738, 4670]	5430	[6426, 4534]	7479	[7796, 5160]
1333	[2298, 1741]	3382	[4739, 2116]	5431	[822, 570]	7480	[7797, 5028]
1334	[2299, 2300]	3383	[2174, 4740]	5432	[6427, 6428]	7481	[6748, 5129]
1335	[2301, 2302]	3384	[4741, 1734]	5433	[6429, 2606]	7482	[4066, 199]
1336	[2303, 2304]	3385	[1936, 1973]	5434	[808, 2447]	7483	[7798, 51]
1337	[2305, 1733]	3386	[4742, 4317]	5435	[6430, 4310]	7484	[5017, 2463]
1338	[607, 2306]	3387	[4743, 1662]	5436	[6431, 4900]	7485	[7799, 4626]
1339	[2082, 2307]	3388	[2091, 4528]	5437	[4201, 6432]	7486	[7800, 7067]
1340	[2308, 1978]	3389	[578, 2020]	5438	[6389, 4871]	7487	[2422, 6345]
1341	[2309, 247]	3390	[880, 4512]	5439	[2372, 1769]	7488	[2713, 4891]
1342	[14, 31]	3391	[4744, 2515]	5440	[6433, 4565]	7489	[7801, 2727]
1343	[2310, 864]	3392	[2694, 1958]	5441	[5256, 4884]	7490	[7802, 4036]
1344	[2311, 1847]	3393	[4745, 4746]	5442	[4922, 6434]	7491	[7803, 6661]
1345	[2312, 1731]	3394	[4747, 4748]	5443	[2196, 2678]	7492	[2066, 700]
1346	[2313, 2314]	3395	[4749, 1886]	5444	[6435, 4301]	7493	[7804, 2198]
1347	[2315, 2258]	3396	[4750, 2513]	5445	[6436, 4762]	7494	[7805, 1919]
1348	[2316, 2317]	3397	[2626, 4751]	5446	[593, 4365]	7495	[7806, 788]
1349	[2318, 2306]	3398	[1703, 4752]	5447	[6437, 4248]	7496	[144, 2282]
1350	[2319, 519]	3399	[4753, 4196]	5448	[6438, 1717]	7497	[1862, 6902]
1351	[2320, 2321]	3400	[4754, 2320]	5449	[6439, 1833]	7498	[1776, 4898]
1352	[2322, 623]	3401	[4124, 2492]	5450	[6440, 4647]	7499	[2426, 6525]
1353	[2323, 2324]	3402	[4755, 4756]	5451	[6441, 4090]	7500	[7807, 7808]
1354	[2325, 2081]	3403	[4757, 4082]	5452	[543, 2393]	7501	[7809, 6821]
1355	[2295, 501]	3404	[4758, 176]	5453	[6442, 2687]	7502	[7810, 2712]
1356	[2326, 2327]	3405	[4759, 4760]	5454	[6443, 4379]	7503	[7811, 4201]
1357	[2328, 2329]	3406	[4761, 4496]	5455	[6444, 4222]	7504	[7812, 1969]
1358	[2330, 2331]	3407	[656, 4762]	5456	[6445, 2541]	7505	[7813, 2002]
1359	[2332, 2333]	3408	[4763, 4645]	5457	[4462, 2249]	7506	[5003, 1692]
1360	[2334, 50]	3409	[4764, 4765]	5458	[6446, 745]	7507	[7814, 4473]
1361	[2335, 2336]	3410	[4766, 4248]	5459	[6447, 148]	7508	[2297, 7038]
1362	[2337, 662]	3411	[1957, 740]	5460	[6448, 4410]	7509	[7815, 2175]
1363	[2338, 2339]	3412	[3412, 3412]	5461	[561, 6449]	7510	[2656, 7003]
1364	[2340, 2341]	3413	[4767, 524]	5462	[2561, 4822]	7511	[2264, 7714]
1365	[2342, 2343]	3414	[4768, 4099]	5463	[635, 724]	7512	[7816, 2329]
1366	[2344, 893]	3415	[4769, 4100]	5464	[6450, 4206]	7513	[172, 873]
1367	[2345, 489]	3416	[4770, 2149]	5465	[6451, 2556]	7514	[7817, 7714]
1368	[1779, 1896]	3417	[4733, 4712]	5466	[1714, 6452]	7515	[5311, 4325]
1369	[2346, 244]	3418	[4771, 2003]	5467	[2540, 1694]	7516	[7818, 188]

1370	[2347, 603]	3419	[4772, 4748]	5468	[6453, 630]	7517	[773, 907]
1371	[2348, 229]	3420	[4773, 4774]	5469	[6454, 2082]	7518	[6561, 6560]
1372	[2349, 150]	3421	[4775, 4776]	5470	[6455, 849]	7519	[2307, 7589]
1373	[2350, 2166]	3422	[4777, 1889]	5471	[6456, 657]	7520	[7819, 4481]
1374	[2351, 2265]	3423	[4778, 172]	5472	[6457, 6458]	7521	[7820, 4063]
1375	[2352, 142]	3424	[4779, 4454]	5473	[6459, 6460]	7522	[535, 4991]
1376	[2353, 2354]	3425	[4780, 1961]	5474	[4545, 4756]	7523	[7821, 4902]
1377	[2355, 2356]	3426	[4781, 867]	5475	[6461, 2154]	7524	[2214, 6614]
1378	[2357, 1791]	3427	[4782, 4339]	5476	[178, 2422]	7525	[7822, 1904]
1379	[2358, 2359]	3428	[4783, 2653]	5477	[1908, 2333]	7526	[7823, 4165]
1380	[1853, 2360]	3429	[4784, 861]	5478	[6462, 5280]	7527	[2492, 2092]
1381	[2361, 2362]	3430	[4785, 2621]	5479	[6463, 6464]	7528	[6833, 2163]
1382	[2363, 2364]	3431	[4786, 4787]	5480	[6465, 617]	7529	[7824, 7555]
1383	[2365, 1853]	3432	[4788, 4789]	5481	[6466, 590]	7530	[7825, 5278]
1384	[2366, 2367]	3433	[2117, 2550]	5482	[6467, 4211]	7531	[1792, 4612]
1385	[2368, 1880]	3434	[4790, 4791]	5483	[6468, 525]	7532	[7826, 4369]
1386	[2369, 2209]	3435	[2064, 4129]	5484	[6469, 1976]	7533	[4321, 7052]
1387	[2370, 902]	3436	[4792, 4793]	5485	[190, 5107]	7534	[7827, 4743]
1388	[2371, 2372]	3437	[4794, 4795]	5486	[6470, 4150]	7535	[2453, 6808]
1389	[885, 2373]	3438	[4796, 2025]	5487	[789, 5079]	7536	[816, 4235]
1390	[2374, 2160]	3439	[4797, 4798]	5488	[2304, 516]	7537	[5283, 4232]
1391	[2375, 2334]	3440	[4799, 4800]	5489	[6471, 1815]	7538	[7828, 7829]
1392	[2376, 2377]	3441	[4801, 4802]	5490	[6472, 4421]	7539	[7830, 4352]
1393	[2378, 2379]	3442	[4803, 4804]	5491	[4241, 2407]	7540	[7831, 2185]
1394	[2380, 2381]	3443	[4805, 4522]	5492	[6473, 6474]	7541	[4379, 6564]
1395	[60, 661]	3444	[2053, 4806]	5493	[6475, 6476]	7542	[4686, 4534]
1396	[486, 2382]	3445	[4807, 1898]	5494	[551, 2399]	7543	[198, 1885]
1397	[2383, 2384]	3446	[4808, 4809]	5495	[6477, 4858]	7544	[7832, 4836]
1398	[1924, 2385]	3447	[4810, 4811]	5496	[4795, 6478]	7545	[7833, 2159]
1399	[629, 2386]	3448	[1951, 4378]	5497	[6479, 4665]	7546	[7834, 5211]
1400	[2262, 2387]	3449	[227, 4052]	5498	[6480, 1912]	7547	[7038, 7765]
1401	[2388, 1793]	3450	[4812, 4813]	5499	[6481, 860]	7548	[7835, 4645]
1402	[2223, 2389]	3451	[4814, 1903]	5500	[6449, 5249]	7549	[7836, 4971]
1403	[2390, 543]	3452	[4815, 4816]	5501	[6482, 4293]	7550	[7837, 5296]
1404	[1812, 2391]	3453	[4817, 4818]	5502	[6483, 2024]	7551	[7808, 7665]
1405	[2392, 2393]	3454	[4819, 517]	5503	[2497, 1981]	7552	[4359, 4802]
1406	[2394, 2395]	3455	[2321, 4820]	5504	[4599, 1748]	7553	[7838, 7331]
1407	[2396, 2397]	3456	[4821, 780]	5505	[6484, 4394]	7554	[7839, 2848]
1408	[2398, 2399]	3457	[4822, 182]	5506	[6485, 1755]	7555	[7840, 6165]
1409	[2400, 2401]	3458	[4823, 2665]	5507	[126, 2658]	7556	[3491, 410]
1410	[2402, 900]	3459	[878, 4824]	5508	[6486, 2067]	7557	[5988, 5650]
1411	[2403, 1974]	3460	[4825, 4132]	5509	[6487, 4672]	7558	[7841, 7430]
1412	[2404, 2405]	3461	[677, 2327]	5510	[6488, 4648]	7559	[7842, 2751]
1413	[1906, 2406]	3462	[2060, 4344]	5511	[6489, 1718]	7560	[6027, 349]

1414	[2407, 2324]	3463	[4826, 4567]	5512	[6490, 198]	7561	[7843, 2908]
1415	[2408, 2409]	3464	[4827, 4828]	5513	[6491, 2012]	7562	[7844, 3758]
1416	[2410, 2411]	3465	[4829, 2206]	5514	[6492, 6493]	7563	[7845, 5421]
1417	[2412, 2413]	3466	[4830, 4831]	5515	[4847, 4897]	7564	[7846, 361]
1418	[2414, 488]	3467	[4832, 4783]	5516	[6494, 2365]	7565	[6087, 5830]
1419	[2415, 2416]	3468	[4833, 4834]	5517	[6495, 4914]	7566	[1474, 3885]
1420	[2417, 2418]	3469	[541, 4835]	5518	[4374, 747]	7567	[7365, 7331]
1421	[2419, 2420]	3470	[4836, 4407]	5519	[6496, 6340]	7568	[3186, 1528]
1422	[2421, 2422]	3471	[4837, 4640]	5520	[204, 6497]	7569	[7847, 3195]
1423	[2423, 2424]	3472	[4838, 4839]	5521	[6498, 6344]	7570	[2919, 5656]
1424	[2425, 654]	3473	[4840, 4841]	5522	[6499, 1920]	7571	[5846, 3296]
1425	[874, 2426]	3474	[4283, 179]	5523	[6500, 2483]	7572	[7091, 7503]
1426	[2427, 2428]	3475	[200, 4808]	5524	[6501, 5271]	7573	[7848, 3392]
1427	[2429, 524]	3476	[4842, 4843]	5525	[6502, 806]	7574	[7849, 424]
1428	[2430, 196]	3477	[4844, 4266]	5526	[2377, 752]	7575	[7850, 1139]
1429	[2324, 2431]	3478	[4567, 4845]	5527	[6503, 4798]	7576	[3320, 3808]
1430	[2432, 1821]	3479	[4846, 4751]	5528	[1754, 2711]	7577	[7851, 3449]
1431	[2433, 2434]	3480	[4037, 4847]	5529	[6504, 214]	7578	[7852, 5973]
1432	[2435, 2256]	3481	[4848, 4849]	5530	[6505, 769]	7579	[1580, 5794]
1433	[521, 684]	3482	[4850, 2287]	5531	[4395, 5164]	7580	[7853, 6223]
1434	[2436, 2437]	3483	[4851, 4569]	5532	[4312, 4817]	7581	[7483, 418]
1435	[846, 768]	3484	[4852, 4853]	5533	[6506, 4440]	7582	[7854, 5965]
1436	[1656, 490]	3485	[4854, 1868]	5534	[6507, 2609]	7583	[7855, 301]
1437	[2438, 2439]	3486	[4855, 4428]	5535	[128, 6378]	7584	[7856, 1317]
1438	[2440, 2441]	3487	[4856, 899]	5536	[6508, 4449]	7585	[7857, 5757]
1439	[2442, 2443]	3488	[4857, 708]	5537	[6509, 912]	7586	[7858, 1433]
1440	[2444, 2445]	3489	[4858, 2196]	5538	[744, 4681]	7587	[7859, 454]
1441	[2446, 2213]	3490	[4391, 2596]	5539	[6510, 780]	7588	[5767, 6130]
1442	[2447, 2448]	3491	[4859, 2635]	5540	[6511, 4818]	7589	[7860, 2965]
1443	[2449, 205]	3492	[4860, 706]	5541	[6512, 4996]	7590	[5975, 6]
1444	[2450, 577]	3493	[569, 1679]	5542	[6513, 726]	7591	[7861, 984]
1445	[1855, 2451]	3494	[571, 2401]	5543	[6514, 6515]	7592	[7862, 4012]
1446	[2452, 2453]	3495	[4708, 4161]	5544	[6516, 506]	7593	[7863, 3846]
1447	[2454, 1918]	3496	[4804, 4312]	5545	[5271, 5152]	7594	[3401, 7483]
1448	[2455, 2456]	3497	[4861, 4862]	5546	[4811, 5066]	7595	[7864, 1212]
1449	[2457, 2258]	3498	[4863, 4184]	5547	[6517, 2105]	7596	[3192, 3653]
1450	[1896, 2458]	3499	[4864, 2463]	5548	[6518, 5009]	7597	[7865, 2847]
1451	[2459, 2460]	3500	[4865, 759]	5549	[4643, 4686]	7598	[7434, 3182]
1452	[2461, 2462]	3501	[4866, 1907]	5550	[6519, 5120]	7599	[7866, 3245]
1453	[2463, 246]	3502	[4867, 2276]	5551	[6520, 4897]	7600	[7867, 3182]
1454	[2075, 2464]	3503	[4868, 754]	5552	[6521, 4673]	7601	[3995, 6272]
1455	[2465, 2466]	3504	[4869, 4263]	5553	[2132, 2490]	7602	[7868, 1079]
1456	[2467, 2346]	3505	[4870, 1983]	5554	[4433, 6522]	7603	[7869, 1067]
1457	[2468, 2469]	3506	[4871, 4872]	5555	[6523, 4294]	7604	[7870, 5887]

1458	[2470, 2193]	3507	[4873, 4874]	5556	[6524, 4358]	7605	[7871, 6208]
1459	[1797, 2471]	3508	[4875, 4876]	5557	[6525, 5170]	7606	[6148, 5853]
1460	[2472, 2473]	3509	[4877, 1775]	5558	[6526, 2631]	7607	[960, 1406]
1461	[2474, 2475]	3510	[1734, 4834]	5559	[6527, 4555]	7608	[7872, 7145]
1462	[2476, 2477]	3511	[2536, 4601]	5560	[6528, 6432]	7609	[7873, 3634]
1463	[2478, 2479]	3512	[2068, 4626]	5561	[5130, 6529]	7610	[3335, 5511]
1464	[2480, 2481]	3513	[4878, 2321]	5562	[6530, 2288]	7611	[6242, 5471]
1465	[2482, 200]	3514	[1784, 4879]	5563	[5296, 4578]	7612	[6178, 953]
1466	[2483, 675]	3515	[4880, 1783]	5564	[6531, 6532]	7613	[7874, 5858]
1467	[2484, 2485]	3516	[4881, 1964]	5565	[6533, 1938]	7614	[7550, 344]
1468	[2486, 1967]	3517	[4882, 2241]	5566	[6534, 2487]	7615	[7875, 480]
1469	[2487, 2488]	3518	[4883, 4884]	5567	[4389, 870]	7616	[1290, 1220]
1470	[2489, 531]	3519	[726, 2548]	5568	[6535, 4944]	7617	[3806, 2943]
1471	[2490, 2303]	3520	[4885, 4739]	5569	[6536, 548]	7618	[7876, 373]
1472	[2491, 2492]	3521	[4886, 4887]	5570	[6537, 4538]	7619	[3916, 948]
1473	[2493, 132]	3522	[4888, 718]	5571	[595, 2]	7620	[7877, 5574]
1474	[1955, 630]	3523	[4889, 4671]	5572	[6538, 4219]	7621	[3588, 1015]
1475	[2494, 1685]	3524	[4879, 4234]	5573	[6539, 6478]	7622	[7878, 66]
1476	[2495, 38]	3525	[4890, 4891]	5574	[6540, 529]	7623	[7879, 350]
1477	[2496, 844]	3526	[1966, 561]	5575	[6541, 1809]	7624	[7880, 7877]
1478	[164, 2497]	3527	[4892, 2230]	5576	[1872, 542]	7625	[969, 1409]
1479	[2498, 2499]	3528	[4893, 4894]	5577	[6542, 1921]	7626	[5971, 5380]
1480	[2500, 187]	3529	[4895, 4432]	5578	[6543, 6544]	7627	[3396, 1488]
1481	[2501, 2502]	3530	[4896, 809]	5579	[6545, 4824]	7628	[7881, 1167]
1482	[2503, 1864]	3531	[4897, 4804]	5580	[6546, 4508]	7629	[7882, 1384]
1483	[2504, 2505]	3532	[4898, 2157]	5581	[6547, 2505]	7630	[1073, 7468]
1484	[2506, 2507]	3533	[4899, 4754]	5582	[1940, 572]	7631	[2890, 2877]
1485	[2508, 2133]	3534	[4900, 4099]	5583	[6548, 719]	7632	[5911, 2968]
1486	[1894, 2509]	3535	[4901, 2125]	5584	[6549, 5112]	7633	[7883, 5960]
1487	[2510, 2116]	3536	[4902, 4061]	5585	[5042, 4827]	7634	[7884, 1587]
1488	[2511, 2512]	3537	[4903, 43]	5586	[633, 6490]	7635	[7885, 1578]
1489	[2513, 2443]	3538	[4904, 4513]	5587	[6550, 5038]	7636	[7886, 5903]
1490	[2514, 2515]	3539	[4905, 2020]	5588	[6551, 2716]	7637	[5564, 5600]
1491	[2203, 587]	3540	[4906, 2456]	5589	[6434, 2052]	7638	[7887, 3546]
1492	[2516, 2517]	3541	[1673, 2647]	5590	[4102, 6552]	7639	[7888, 3786]
1493	[2518, 2519]	3542	[4907, 4908]	5591	[4776, 4759]	7640	[7889, 2803]
1494	[2520, 2434]	3543	[4262, 4696]	5592	[6553, 493]	7641	[7890, 7891]
1495	[2521, 2415]	3544	[4909, 4910]	5593	[4158, 617]	7642	[1159, 415]
1496	[2522, 2523]	3545	[2386, 4327]	5594	[6554, 1821]	7643	[7892, 2955]
1497	[2524, 2525]	3546	[4112, 899]	5595	[6555, 4651]	7644	[7893, 1363]
1498	[2526, 2527]	3547	[4911, 4443]	5596	[4298, 4947]	7645	[5408, 3301]
1499	[1762, 875]	3548	[4813, 4708]	5597	[6556, 2431]	7646	[65, 5352]
1500	[2528, 2269]	3549	[4912, 2677]	5598	[6557, 4179]	7647	[7894, 999]
1501	[2529, 2530]	3550	[4506, 2598]	5599	[6558, 4840]	7648	[7895, 1502]

1502	[2531, 1810]	3551	[783, 4622]	5600	[6559, 5311]	7649	[3110, 5681]
1503	[2532, 2481]	3552	[902, 576]	5601	[6560, 4447]	7650	[7896, 3249]
1504	[2533, 1678]	3553	[728, 4913]	5602	[830, 4357]	7651	[7897, 2809]
1505	[2534, 1679]	3554	[4040, 2206]	5603	[5272, 6561]	7652	[7898, 5447]
1506	[2535, 2536]	3555	[4914, 4915]	5604	[6562, 4106]	7653	[7485, 2858]
1507	[2537, 164]	3556	[4916, 4152]	5605	[4456, 2128]	7654	[7899, 1482]
1508	[2538, 2539]	3557	[4917, 2069]	5606	[6563, 5112]	7655	[1080, 7213]
1509	[2144, 2540]	3558	[4918, 4919]	5607	[6564, 4595]	7656	[7900, 6087]
1510	[2541, 2494]	3559	[4746, 184]	5608	[6565, 6566]	7657	[7901, 1569]
1511	[2542, 2495]	3560	[1669, 34]	5609	[6567, 4841]	7658	[7902, 2912]
1512	[2543, 158]	3561	[4920, 2190]	5610	[6568, 2235]	7659	[3080, 1390]
1513	[2544, 2217]	3562	[4921, 2361]	5611	[6569, 46]	7660	[7903, 5526]
1514	[2545, 1782]	3563	[1835, 4922]	5612	[6570, 6342]	7661	[3595, 4011]
1515	[2546, 1927]	3564	[140, 4923]	5613	[6571, 1781]	7662	[7904, 994]
1516	[2547, 2548]	3565	[4809, 1791]	5614	[6572, 1946]	7663	[6171, 3083]
1517	[2549, 2550]	3566	[4924, 4925]	5615	[6573, 5013]	7664	[7905, 6016]
1518	[2551, 2552]	3567	[4926, 4927]	5616	[6574, 6515]	7665	[7906, 1401]
1519	[1920, 2553]	3568	[52, 4928]	5617	[6575, 751]	7666	[7907, 3617]
1520	[2554, 2555]	3569	[1795, 4670]	5618	[1962, 4246]	7667	[3480, 5611]
1521	[1828, 2209]	3570	[4929, 214]	5619	[6576, 6504]	7668	[7908, 3502]
1522	[2556, 1872]	3571	[4930, 4597]	5620	[6577, 2470]	7669	[7909, 3662]
1523	[2047, 2148]	3572	[4503, 4839]	5621	[6578, 1704]	7670	[7910, 1429]
1524	[2557, 2558]	3573	[4931, 705]	5622	[547, 6404]	7671	[7911, 1245]
1525	[582, 796]	3574	[4798, 2000]	5623	[6579, 6580]	7672	[7912, 1423]
1526	[584, 2043]	3575	[4802, 4932]	5624	[6581, 6541]	7673	[7913, 3757]
1527	[2559, 210]	3576	[4933, 4934]	5625	[5202, 5298]	7674	[7914, 5408]
1528	[2560, 2561]	3577	[505, 2397]	5626	[6582, 2221]	7675	[7915, 3226]
1529	[2562, 2563]	3578	[4935, 1977]	5627	[2341, 6583]	7676	[302, 3146]
1530	[2564, 2247]	3579	[484, 539]	5628	[6584, 4140]	7677	[434, 5547]
1531	[2565, 2352]	3580	[4936, 1680]	5629	[4818, 6585]	7678	[3083, 5429]
1532	[2566, 2567]	3581	[4937, 2065]	5630	[4675, 4262]	7679	[1086, 1310]
1533	[2568, 2569]	3582	[2620, 4853]	5631	[2428, 4739]	7680	[1012, 360]
1534	[2570, 2571]	3583	[4938, 4939]	5632	[4263, 5014]	7681	[7916, 3633]
1535	[2572, 2018]	3584	[654, 2317]	5633	[6586, 156]	7682	[7917, 1000]
1536	[2573, 2574]	3585	[4940, 2083]	5634	[4843, 1708]	7683	[7918, 77]
1537	[2575, 2576]	3586	[4941, 1859]	5635	[6587, 606]	7684	[5510, 7550]
1538	[2577, 2574]	3587	[4942, 4943]	5636	[6588, 2566]	7685	[2827, 3723]
1539	[2578, 2320]	3588	[4944, 4945]	5637	[6589, 2137]	7686	[7919, 5982]
1540	[2579, 1774]	3589	[4946, 2656]	5638	[2420, 5073]	7687	[3245, 2846]
1541	[2580, 2581]	3590	[4947, 4560]	5639	[6330, 6590]	7688	[7920, 1338]
1542	[2582, 2583]	3591	[4948, 4108]	5640	[6591, 4509]	7689	[7921, 269]
1543	[2584, 2585]	3592	[787, 2520]	5641	[6592, 2600]	7690	[7922, 1260]
1544	[2586, 2125]	3593	[4949, 764]	5642	[2605, 4786]	7691	[7923, 423]
1545	[2587, 2588]	3594	[4950, 4767]	5643	[6593, 232]	7692	[3987, 3513]

1546	[2589, 2590]	3595	[4951, 2064]	5644	[6594, 2483]	7693	[5747, 3581]
1547	[2591, 2592]	3596	[4952, 1924]	5645	[6595, 6596]	7694	[5876, 5872]
1548	[2593, 2239]	3597	[4927, 60]	5646	[6597, 819]	7695	[1538, 1032]
1549	[2594, 871]	3598	[4953, 4916]	5647	[6404, 4994]	7696	[3061, 7123]
1550	[2595, 2596]	3599	[2550, 2361]	5648	[6598, 2154]	7697	[1100, 5932]
1551	[2597, 2255]	3600	[4697, 1983]	5649	[6599, 5158]	7698	[7924, 3640]
1552	[2598, 1667]	3601	[4323, 912]	5650	[6600, 4932]	7699	[7925, 6153]
1553	[2599, 2001]	3602	[4954, 4955]	5651	[6601, 6412]	7700	[1249, 1460]
1554	[2600, 2601]	3603	[1682, 660]	5652	[6602, 2520]	7701	[7926, 5441]
1555	[2602, 130]	3604	[1683, 2040]	5653	[6603, 4235]	7702	[6121, 3824]
1556	[2603, 882]	3605	[4956, 4957]	5654	[6604, 2284]	7703	[7927, 2790]
1557	[797, 2604]	3606	[4958, 801]	5655	[6605, 725]	7704	[7928, 3325]
1558	[1904, 2605]	3607	[1816, 548]	5656	[6606, 2497]	7705	[7929, 3685]
1559	[2606, 1953]	3608	[4959, 4122]	5657	[2509, 6607]	7706	[7930, 3435]
1560	[2607, 2349]	3609	[4527, 1822]	5658	[4279, 6608]	7707	[2914, 5597]
1561	[2608, 2609]	3610	[4960, 2533]	5659	[2119, 6609]	7708	[7931, 1213]
1562	[2610, 582]	3611	[4740, 4961]	5660	[6610, 2565]	7709	[7932, 1500]
1563	[2611, 2612]	3612	[4962, 2643]	5661	[6611, 4221]	7710	[2772, 2887]
1564	[2613, 1901]	3613	[4963, 1695]	5662	[6612, 4759]	7711	[5535, 1511]
1565	[2614, 1731]	3614	[4964, 1806]	5663	[6613, 4397]	7712	[7933, 3541]
1566	[2615, 2616]	3615	[4965, 2605]	5664	[6614, 6408]	7713	[7934, 381]
1567	[2617, 839]	3616	[4966, 604]	5665	[6615, 4412]	7714	[7935, 5445]
1568	[2618, 621]	3617	[2162, 2466]	5666	[4884, 2346]	7715	[5858, 7408]
1569	[2619, 2620]	3618	[4967, 2413]	5667	[1699, 2184]	7716	[7936, 1424]
1570	[2040, 2621]	3619	[4968, 4969]	5668	[6616, 6617]	7717	[7937, 407]
1571	[2622, 2590]	3620	[4970, 2367]	5669	[6618, 4112]	7718	[7938, 5629]
1572	[2623, 2624]	3621	[2707, 867]	5670	[6619, 6620]	7719	[7939, 2972]
1573	[2625, 2626]	3622	[4971, 4972]	5671	[6621, 2445]	7720	[3939, 118]
1574	[2627, 126]	3623	[4973, 2567]	5672	[6622, 6324]	7721	[7940, 2836]
1575	[2628, 595]	3624	[4974, 4646]	5673	[6623, 4230]	7722	[3822, 7485]
1576	[2629, 2153]	3625	[4975, 2589]	5674	[6474, 4599]	7723	[7941, 958]
1577	[2006, 2630]	3626	[4976, 1970]	5675	[6624, 6625]	7724	[439, 1361]
1578	[2631, 2031]	3627	[4977, 2051]	5676	[6626, 2366]	7725	[5928, 3452]
1579	[2632, 2633]	3628	[4978, 1878]	5677	[6627, 4845]	7726	[7942, 3416]
1580	[2634, 2635]	3629	[4979, 4850]	5678	[2574, 2639]	7727	[7943, 7468]
1581	[2252, 903]	3630	[4980, 4981]	5679	[5107, 4539]	7728	[7078, 6214]
1582	[2636, 236]	3631	[4982, 707]	5680	[6628, 5214]	7729	[3518, 280]
1583	[2637, 685]	3632	[2093, 4983]	5681	[6629, 4984]	7730	[7944, 6270]
1584	[2638, 240]	3633	[799, 4470]	5682	[647, 822]	7731	[7945, 5781]
1585	[2639, 2640]	3634	[4640, 4984]	5683	[6630, 683]	7732	[7946, 3639]
1586	[2641, 2642]	3635	[4985, 4363]	5684	[6631, 6632]	7733	[7947, 5637]
1587	[2643, 221]	3636	[4986, 1800]	5685	[6633, 607]	7734	[7948, 357]
1588	[2644, 2645]	3637	[4987, 4395]	5686	[6634, 6614]	7735	[5813, 5595]
1589	[2646, 1766]	3638	[4988, 2295]	5687	[6635, 6636]	7736	[7949, 3711]

1590	[2647, 2648]	3639	[4989, 4281]	5688	[6637, 1934]	7737	[7950, 1360]
1591	[2649, 669]	3640	[4990, 2119]	5689	[1786, 6433]	7738	[7951, 2830]
1592	[2650, 2651]	3641	[2581, 4253]	5690	[6638, 4596]	7739	[5390, 2937]
1593	[2652, 2653]	3642	[4991, 878]	5691	[6639, 4827]	7740	[7952, 387]
1594	[2654, 2655]	3643	[4992, 2625]	5692	[2548, 6423]	7741	[7953, 2842]
1595	[2026, 2656]	3644	[4993, 4994]	5693	[6640, 1823]	7742	[7954, 5697]
1596	[2289, 2611]	3645	[2233, 2424]	5694	[211, 2517]	7743	[5458, 387]
1597	[652, 2657]	3646	[4995, 4107]	5695	[6641, 4702]	7744	[7955, 3985]
1598	[2658, 166]	3647	[4553, 4996]	5696	[6642, 6608]	7745	[3055, 1118]
1599	[2083, 2659]	3648	[4997, 4402]	5697	[2235, 4439]	7746	[7956, 1400]
1600	[2660, 2633]	3649	[557, 4998]	5698	[6643, 6461]	7747	[5503, 3465]
1601	[2661, 136]	3650	[4999, 4892]	5699	[6644, 894]	7748	[7957, 460]
1602	[1820, 636]	3651	[5000, 1674]	5700	[4945, 2459]	7749	[6319, 5902]
1603	[130, 2662]	3652	[5001, 550]	5701	[4853, 829]	7750	[1047, 7365]
1604	[2663, 2114]	3653	[5002, 2373]	5702	[2563, 2642]	7751	[7958, 5393]
1605	[2664, 2665]	3654	[866, 2003]	5703	[6645, 649]	7752	[3049, 7434]
1606	[2666, 1806]	3655	[4728, 5003]	5704	[2507, 1943]	7753	[7959, 3319]
1607	[2667, 2668]	3656	[4540, 656]	5705	[6646, 4295]	7754	[7540, 338]
1608	[2669, 591]	3657	[5004, 1723]	5706	[6647, 4087]	7755	[7960, 7320]
1609	[2670, 2671]	3658	[5005, 4928]	5707	[2048, 4480]	7756	[3717, 6194]
1610	[2672, 1687]	3659	[5006, 5007]	5708	[6648, 1842]	7757	[3698, 3937]
1611	[2673, 604]	3660	[5008, 1881]	5709	[4468, 2334]	7758	[1299, 1183]
1612	[2674, 2538]	3661	[5009, 2412]	5710	[6649, 6650]	7759	[7139, 5800]
1613	[2675, 2676]	3662	[5010, 2689]	5711	[6651, 4518]	7760	[3372, 6148]
1614	[2677, 1926]	3663	[5011, 4041]	5712	[2182, 5051]	7761	[5667, 3133]
1615	[2678, 758]	3664	[5012, 4578]	5713	[6652, 4441]	7762	[7961, 1206]
1616	[2679, 562]	3665	[2343, 5013]	5714	[6653, 138]	7763	[263, 369]
1617	[683, 2338]	3666	[5014, 5015]	5715	[669, 6324]	7764	[7962, 1166]
1618	[2680, 2681]	3667	[5015, 5016]	5716	[6654, 1689]	7765	[7963, 6018]
1619	[2682, 2189]	3668	[4043, 2365]	5717	[6655, 643]	7766	[2955, 5705]
1620	[2681, 2683]	3669	[5016, 2363]	5718	[4831, 4488]	7767	[7964, 1474]
1621	[2684, 1994]	3670	[1710, 5017]	5719	[6378, 494]	7768	[1069, 5454]
1622	[2685, 2659]	3671	[5018, 4423]	5720	[1972, 1698]	7769	[7965, 3518]
1623	[2686, 2225]	3672	[5019, 215]	5721	[6656, 2670]	7770	[7966, 3349]
1624	[2687, 2688]	3673	[5020, 4774]	5722	[6657, 4505]	7771	[7967, 3074]
1625	[2657, 893]	3674	[5021, 2484]	5723	[4127, 6620]	7772	[7968, 3762]
1626	[174, 2689]	3675	[4491, 580]	5724	[6658, 892]	7773	[7969, 5514]
1627	[2690, 692]	3676	[5022, 1943]	5725	[6659, 4447]	7774	[7970, 5322]
1628	[2691, 2692]	3677	[563, 4289]	5726	[2612, 2668]	7775	[5663, 3755]
1629	[2693, 2694]	3678	[5023, 2052]	5727	[2662, 6428]	7776	[3691, 7286]
1630	[2695, 1933]	3679	[2153, 1706]	5728	[4387, 4514]	7777	[2947, 412]
1631	[2592, 2696]	3680	[5024, 201]	5729	[6660, 5199]	7778	[3658, 6185]
1632	[2239, 2697]	3681	[2247, 2213]	5730	[6661, 2631]	7779	[7194, 5997]
1633	[2698, 2699]	3682	[5025, 1812]	5731	[529, 4127]	7780	[7971, 1308]

1634	[2243, 601]	3683	[5026, 5027]	5732	[5166, 915]	7781	[7972, 3696]
1635	[2700, 2701]	3684	[2460, 2025]	5733	[1974, 2651]	7782	[7973, 1322]
1636	[2702, 1783]	3685	[5028, 4573]	5734	[6662, 6434]	7783	[3568, 5926]
1637	[2256, 2703]	3686	[5029, 5030]	5735	[6663, 2681]	7784	[6177, 1281]
1638	[2704, 2705]	3687	[5031, 484]	5736	[6664, 4672]	7785	[7974, 3563]
1639	[2706, 2707]	3688	[4425, 2233]	5737	[6665, 193]	7786	[1632, 1642]
1640	[2708, 1689]	3689	[5032, 2164]	5738	[4432, 201]	7787	[7975, 1427]
1641	[2709, 1690]	3690	[5033, 1988]	5739	[2633, 4169]	7788	[3489, 1278]
1642	[2710, 2711]	3691	[5034, 2430]	5740	[6666, 4305]	7789	[7976, 926]
1643	[2712, 2713]	3692	[5035, 2171]	5741	[6667, 2244]	7790	[7977, 3007]
1644	[2714, 2715]	3693	[5036, 2629]	5742	[246, 4916]	7791	[7978, 1311]
1645	[2716, 695]	3694	[4381, 2205]	5743	[6668, 5259]	7792	[7979, 5949]
1646	[2717, 2718]	3695	[4572, 2111]	5744	[580, 4336]	7793	[7980, 3229]
1647	[2719, 2720]	3696	[4915, 4715]	5745	[6669, 6424]	7794	[7981, 1543]
1648	[2721, 2722]	3697	[5037, 159]	5746	[1998, 608]	7795	[5656, 5502]
1649	[2723, 2290]	3698	[4082, 5038]	5747	[6670, 2620]	7796	[7982, 3632]
1650	[2306, 633]	3699	[5039, 2274]	5748	[6671, 6458]	7797	[7983, 5775]
1651	[2724, 758]	3700	[5040, 4446]	5749	[1686, 2063]	7798	[7984, 3097]
1652	[2725, 1982]	3701	[4172, 2519]	5750	[2406, 4892]	7799	[6207, 3826]
1653	[2726, 1963]	3702	[5041, 5042]	5751	[6672, 6673]	7800	[7985, 252]
1654	[2727, 2670]	3703	[5043, 5044]	5752	[6674, 1758]	7801	[461, 3990]
1655	[2728, 2552]	3704	[4824, 2699]	5753	[6675, 2269]	7802	[7986, 3379]
1656	[1505, 930]	3705	[5045, 684]	5754	[6676, 4453]	7803	[7987, 6313]
1657	[2729, 2730]	3706	[5046, 4972]	5755	[914, 4499]	7804	[7988, 3641]
1658	[2731, 2732]	3707	[1724, 61]	5756	[6677, 4512]	7805	[3643, 1639]
1659	[2733, 2734]	3708	[5047, 2673]	5757	[4712, 6678]	7806	[1455, 7877]
1660	[2735, 1340]	3709	[5048, 4767]	5758	[4179, 2207]	7807	[5785, 6172]
1661	[2736, 2737]	3710	[5049, 515]	5759	[6679, 2362]	7808	[7989, 5770]
1662	[2738, 955]	3711	[1922, 2673]	5760	[6680, 180]	7809	[7990, 1632]
1663	[1609, 2739]	3712	[5050, 5051]	5761	[176, 6681]	7810	[5885, 7177]
1664	[2740, 2741]	3713	[2004, 1856]	5762	[5298, 4848]	7811	[5932, 3975]
1665	[1275, 2742]	3714	[5052, 4537]	5763	[6682, 2175]	7812	[7991, 2941]
1666	[1014, 2743]	3715	[5053, 2309]	5764	[6683, 4280]	7813	[7992, 1522]
1667	[2744, 2745]	3716	[2499, 2079]	5765	[6684, 6450]	7814	[7993, 1491]
1668	[2746, 2747]	3717	[5054, 2409]	5766	[6685, 4700]	7815	[3512, 3275]
1669	[1225, 2748]	3718	[5055, 4783]	5767	[6686, 2458]	7816	[5953, 3419]
1670	[2749, 2750]	3719	[42, 2420]	5768	[4154, 4604]	7817	[6313, 3544]
1671	[2751, 2752]	3720	[5056, 1771]	5769	[2360, 2687]	7818	[5488, 1305]
1672	[2753, 2754]	3721	[5057, 4592]	5770	[6687, 2273]	7819	[992, 1367]
1673	[2755, 2756]	3722	[5058, 1857]	5771	[5289, 4418]	7820	[379, 3289]
1674	[2757, 2758]	3723	[5059, 4553]	5772	[6620, 688]	7821	[3574, 5334]
1675	[2759, 2760]	3724	[5060, 4362]	5773	[2525, 4728]	7822	[7994, 5535]
1676	[2761, 2762]	3725	[5061, 4809]	5774	[6688, 2603]	7823	[1555, 3855]
1677	[2763, 2764]	3726	[5062, 4314]	5775	[4277, 4816]	7824	[7995, 3945]

1678	[2765, 2766]	3727	[5063, 2415]	5776	[5148, 5256]	7825	[3541, 1401]
1679	[1078, 2767]	3728	[1880, 4437]	5777	[4355, 4087]	7826	[7996, 3722]
1680	[2768, 2769]	3729	[5064, 4586]	5778	[6689, 2494]	7827	[5448, 2738]
1681	[2770, 1246]	3730	[5065, 5066]	5779	[6690, 6691]	7828	[1090, 5552]
1682	[2771, 2772]	3731	[5067, 190]	5780	[2333, 6692]	7829	[7997, 7286]
1683	[2773, 2774]	3732	[5068, 155]	5781	[6693, 4923]	7830	[7998, 3388]
1684	[2775, 2774]	3733	[5069, 5070]	5782	[6694, 5299]	7831	[7999, 3001]
1685	[2776, 968]	3734	[5071, 4835]	5783	[5070, 775]	7832	[8000, 3223]
1686	[1371, 2777]	3735	[5072, 5073]	5784	[6695, 5017]	7833	[8001, 1341]
1687	[2778, 2779]	3736	[4894, 2504]	5785	[6696, 6394]	7834	[5720, 942]
1688	[383, 934]	3737	[1808, 2453]	5786	[4862, 6437]	7835	[8002, 3795]
1689	[2780, 2781]	3738	[4595, 4925]	5787	[6697, 4820]	7836	[1057, 5550]
1690	[1406, 2782]	3739	[5074, 157]	5788	[6698, 31]	7837	[8003, 3210]
1691	[2783, 2784]	3740	[4265, 1789]	5789	[6699, 4244]	7838	[8004, 4551]
1692	[2785, 2786]	3741	[4267, 741]	5790	[4910, 4699]	7839	[4181, 7773]
1693	[2787, 1196]	3742	[5075, 4675]	5791	[6700, 6701]	7840	[8005, 6658]
1694	[2788, 1265]	3743	[503, 2541]	5792	[6702, 4196]	7841	[2106, 1750]
1695	[2789, 2790]	3744	[5076, 528]	5793	[4849, 785]	7842	[769, 4062]
1696	[2791, 2792]	3745	[5077, 5078]	5794	[6703, 4448]	7843	[8006, 8007]
1697	[2793, 2794]	3746	[5079, 1659]	5795	[6704, 4411]	7844	[2720, 6379]
1698	[2795, 2796]	3747	[882, 4744]	5796	[6705, 6338]	7845	[202, 2610]
1699	[2797, 1136]	3748	[5080, 4496]	5797	[6706, 2182]	7846	[8008, 6345]
1700	[2798, 2799]	3749	[4061, 4340]	5798	[6707, 1772]	7847	[2254, 4551]
1701	[2800, 2801]	3750	[2505, 4862]	5799	[2624, 2312]	7848	[7765, 6405]
1702	[2802, 975]	3751	[5081, 2528]	5800	[6708, 4173]	7849	[5129, 6848]
1703	[2803, 2804]	3752	[4197, 4702]	5801	[4475, 2359]	7850	[8009, 2664]
1704	[2805, 74]	3753	[2424, 5082]	5802	[573, 2056]	7851	[4522, 7554]
1705	[2806, 2807]	3754	[5083, 495]	5803	[517, 620]	7852	[4560, 7672]
1706	[2808, 2809]	3755	[5084, 4866]	5804	[6709, 4703]	7853	[8010, 7665]
1707	[2810, 1370]	3756	[4397, 4314]	5805	[2604, 4165]	7854	[8011, 7592]
1708	[2811, 2812]	3757	[497, 2507]	5806	[4538, 4638]	7855	[8012, 7738]
1709	[2813, 2814]	3758	[5085, 4957]	5807	[2701, 4693]	7856	[7738, 6821]
1710	[2815, 111]	3759	[5086, 2270]	5808	[5145, 4732]	7857	[8013, 6379]
1711	[2816, 2817]	3760	[5087, 2360]	5809	[6710, 32]	7858	[4470, 4684]
1712	[2818, 2819]	3761	[5088, 2540]	5810	[6711, 904]	7859	[8014, 1681]
1713	[2820, 438]	3762	[2241, 5089]	5811	[868, 626]	7860	[4565, 2705]
1714	[2821, 272]	3763	[5090, 4871]	5812	[2226, 6347]	7861	[8015, 840]
1715	[2758, 2822]	3764	[5091, 5092]	5813	[6712, 4945]	7862	[8016, 2532]
1716	[2823, 2824]	3765	[1964, 5093]	5814	[1848, 212]	7863	[8017, 6925]
1717	[2825, 2826]	3766	[5094, 4740]	5815	[623, 5203]	7864	[7672, 6976]
1718	[1476, 2827]	3767	[5095, 193]	5816	[2056, 1975]	7865	[8018, 8019]
1719	[2828, 2829]	3768	[5096, 1948]	5817	[6713, 5212]	7866	[8020, 5113]
1720	[2830, 1234]	3769	[5097, 4079]	5818	[6714, 2509]	7867	[8021, 9]
1721	[2831, 116]	3770	[5098, 4042]	5819	[6715, 2688]	7868	[232, 1919]

1722	[2832, 2833]	3771	[5013, 4266]	5820	[6716, 6717]	7869	[6478, 8022]
1723	[2834, 948]	3772	[5099, 1726]	5821	[6718, 1949]	7870	[7755, 2600]
1724	[2835, 2836]	3773	[5100, 793]	5822	[4680, 6719]	7871	[2462, 1862]
1725	[2837, 2838]	3774	[34, 2113]	5823	[6720, 2126]	7872	[4518, 546]
1726	[2839, 2840]	3775	[4080, 4117]	5824	[6721, 4822]	7873	[8023, 6817]
1727	[2741, 2841]	3776	[5101, 4620]	5825	[6722, 2579]	7874	[7769, 7569]
1728	[2842, 2843]	3777	[5102, 4175]	5826	[6723, 1973]	7875	[2130, 8]
1729	[2844, 2845]	3778	[5103, 2178]	5827	[6724, 6433]	7876	[8024, 2572]
1730	[2846, 2847]	3779	[5104, 4611]	5828	[4412, 4393]	7877	[8025, 753]
1731	[2848, 2849]	3780	[5105, 647]	5829	[4839, 4431]	7878	[8026, 8027]
1732	[2850, 1651]	3781	[5106, 5107]	5830	[6725, 2722]	7879	[8028, 6920]
1733	[2851, 2852]	3782	[5108, 62]	5831	[6726, 6583]	7880	[8029, 6418]
1734	[1121, 2747]	3783	[5109, 4630]	5832	[6727, 2250]	7881	[7589, 5142]
1735	[1117, 2853]	3784	[5110, 2553]	5833	[6728, 2586]	7882	[8030, 6385]
1736	[1119, 2854]	3785	[5111, 2210]	5834	[6729, 755]	7883	[4286, 2171]
1737	[2855, 2856]	3786	[5112, 679]	5835	[6730, 4257]	7884	[8031, 6421]
1738	[2857, 2858]	3787	[5113, 185]	5836	[6731, 646]	7885	[4981, 6985]
1739	[2859, 1205]	3788	[5114, 903]	5837	[6732, 4090]	7886	[8032, 4341]
1740	[1285, 2860]	3789	[2317, 2555]	5838	[6733, 2592]	7887	[5300, 4063]
1741	[2861, 2862]	3790	[5115, 1797]	5839	[4073, 4102]	7888	[6972, 5113]
1742	[2863, 481]	3791	[5116, 703]	5840	[2008, 6734]	7889	[196, 6758]
1743	[2864, 2865]	3792	[5117, 4037]	5841	[6735, 4353]	7890	[6432, 7648]
1744	[2866, 2867]	3793	[4427, 5118]	5842	[6736, 5164]	7891	[8033, 217]
1745	[2868, 1126]	3794	[5119, 211]	5843	[489, 2498]	7892	[8034, 6910]
1746	[2869, 2870]	3795	[833, 5120]	5844	[6737, 2675]	7893	[8035, 4557]
1747	[2871, 970]	3796	[5121, 2636]	5845	[6738, 2330]	7894	[8036, 7602]
1748	[2872, 2873]	3797	[5122, 2016]	5846	[509, 4651]	7895	[4834, 2532]
1749	[2874, 1471]	3798	[5123, 2312]	5847	[6739, 6335]	7896	[8037, 4913]
1750	[2875, 2876]	3799	[4647, 5124]	5848	[6740, 4899]	7897	[7604, 5028]
1751	[2877, 2878]	3800	[4955, 5125]	5849	[6741, 1659]	7898	[703, 7755]
1752	[2879, 327]	3801	[5126, 2498]	5850	[4139, 4633]	7899	[8038, 4837]
1753	[2880, 2881]	3802	[1988, 4791]	5851	[4428, 6542]	7900	[4787, 2158]
1754	[2882, 28]	3803	[1990, 5127]	5852	[6742, 6743]	7901	[4516, 2575]
1755	[2883, 2884]	3804	[5128, 5129]	5853	[6744, 2172]	7902	[6421, 7602]
1756	[2885, 2886]	3805	[4401, 5130]	5854	[4726, 1752]	7903	[8039, 2353]
1757	[2887, 2888]	3806	[5131, 2228]	5855	[4872, 6745]	7904	[8040, 6886]
1758	[2889, 2890]	3807	[5132, 533]	5856	[705, 4500]	7905	[8041, 4958]
1759	[2891, 1103]	3808	[5133, 5134]	5857	[6746, 4286]	7906	[1680, 2223]
1760	[2892, 1285]	3809	[2218, 5135]	5858	[6747, 6748]	7907	[6353, 6518]
1761	[2893, 1084]	3810	[5136, 2386]	5859	[6749, 4653]	7908	[7740, 8019]
1762	[2860, 95]	3811	[5137, 4554]	5860	[6750, 4374]	7909	[1978, 731]
1763	[2894, 370]	3812	[4908, 5138]	5861	[6751, 2488]	7910	[2488, 5275]
1764	[2895, 2896]	3813	[5139, 2090]	5862	[761, 4789]	7911	[8042, 6609]
1765	[2897, 451]	3814	[5140, 1968]	5863	[6752, 5224]	7912	[8043, 2464]

1766	[2898, 2899]	3815	[5141, 737]	5864	[6753, 4418]	7913	[824, 4369]
1767	[2748, 427]	3816	[5142, 556]	5865	[6754, 1822]	7914	[8044, 7068]
1768	[1508, 2900]	3817	[5143, 2303]	5866	[6755, 4293]	7915	[8045, 191]
1769	[2901, 2902]	3818	[5144, 5145]	5867	[6756, 2226]	7916	[8046, 4413]
1770	[2903, 2904]	3819	[5146, 35]	5868	[6757, 737]	7917	[515, 5279]
1771	[2905, 1060]	3820	[5147, 5148]	5869	[6758, 5159]	7918	[8047, 6734]
1772	[2906, 2907]	3821	[5149, 4889]	5870	[6759, 1753]	7919	[2393, 2454]
1773	[2908, 2909]	3822	[618, 5150]	5871	[1751, 4778]	7920	[8048, 6997]
1774	[1340, 1126]	3823	[5151, 5152]	5872	[6760, 2194]	7921	[8049, 4942]
1775	[2910, 2911]	3824	[5153, 2726]	5873	[6761, 1921]	7922	[8050, 4805]
1776	[107, 2912]	3825	[5154, 5155]	5874	[6762, 837]	7923	[7648, 811]
1777	[2913, 2914]	3826	[5156, 2406]	5875	[6590, 2606]	7924	[2653, 4978]
1778	[2915, 2916]	3827	[5157, 810]	5876	[6763, 6585]	7925	[4604, 6624]
1779	[2917, 2918]	3828	[5158, 4259]	5877	[6764, 6765]	7926	[8051, 1692]
1780	[1171, 2919]	3829	[5159, 5160]	5878	[2001, 6415]	7927	[2190, 4942]
1781	[2920, 2921]	3830	[5161, 192]	5879	[545, 6743]	7928	[5240, 7604]
1782	[2922, 2923]	3831	[523, 4472]	5880	[2291, 814]	7929	[6337, 6576]
1783	[2924, 2925]	3832	[5162, 5163]	5881	[5027, 4181]	7930	[8052, 4898]
1784	[2926, 2927]	3833	[4969, 2264]	5882	[6766, 61]	7931	[1926, 4805]
1785	[430, 2928]	3834	[5164, 4355]	5883	[6767, 4278]	7932	[1857, 8011]
1786	[2929, 2930]	3835	[5165, 1787]	5884	[6768, 2414]	7933	[8053, 4229]
1787	[2931, 2932]	3836	[1693, 5166]	5885	[6769, 4200]	7934	[8054, 2634]
1788	[2933, 475]	3837	[5167, 4437]	5886	[6770, 4375]	7935	[5125, 4969]
1789	[1426, 2934]	3838	[5168, 4422]	5887	[6771, 6497]	7936	[8055, 5048]
1790	[2935, 2936]	3839	[4251, 1805]	5888	[1814, 4887]	7937	[8056, 8022]
1791	[2937, 2938]	3840	[5169, 5170]	5889	[2273, 2095]	7938	[785, 5208]
1792	[2939, 2940]	3841	[4509, 1775]	5890	[6772, 4659]	7939	[8057, 7569]
1793	[1372, 2941]	3842	[4996, 4260]	5891	[6773, 1725]	7940	[8058, 2138]
1794	[2942, 2943]	3843	[5171, 5172]	5892	[6774, 2115]	7941	[8059, 7559]
1795	[2944, 2945]	3844	[5173, 2289]	5893	[50, 6775]	7942	[8060, 199]
1796	[1337, 1205]	3845	[2609, 4944]	5894	[6776, 6777]	7943	[8061, 7733]
1797	[2946, 2947]	3846	[2384, 673]	5895	[6778, 2290]	7944	[170, 823]
1798	[2948, 1574]	3847	[5174, 2314]	5896	[6779, 530]	7945	[8062, 7608]
1799	[1043, 2949]	3848	[4816, 4831]	5897	[6780, 608]	7946	[6878, 6920]
1800	[2950, 2951]	3849	[5175, 2405]	5898	[6781, 2485]	7947	[4120, 4630]
1801	[2952, 333]	3850	[5176, 4961]	5899	[6782, 2412]	7948	[8063, 7024]
1802	[2953, 2954]	3851	[771, 2562]	5900	[6783, 4527]	7949	[4835, 4481]
1803	[2902, 2955]	3852	[5177, 4753]	5901	[6585, 1763]	7950	[8064, 4260]
1804	[2956, 2957]	3853	[5178, 4117]	5902	[6784, 2354]	7951	[7067, 2708]
1805	[2958, 2959]	3854	[5179, 2284]	5903	[6785, 2277]	7952	[8065, 2632]
1806	[2960, 2961]	3855	[5180, 2624]	5904	[4302, 4221]	7953	[2069, 2210]
1807	[1029, 2962]	3856	[5181, 4197]	5905	[4845, 1959]	7954	[4828, 5048]
1808	[2963, 2964]	3857	[5182, 638]	5906	[6786, 2601]	7955	[2443, 7769]
1809	[2965, 1573]	3858	[5183, 4083]	5907	[1701, 2408]	7956	[8066, 175]

1810	[1061, 2966]	3859	[5184, 2032]	5908	[4233, 4298]	7957	[8067, 8011]
1811	[2967, 2968]	3860	[5185, 4981]	5909	[6787, 2363]	7958	[4270, 7726]
1812	[2969, 2970]	3861	[2331, 1995]	5910	[6788, 4668]	7959	[8068, 4674]
1813	[2971, 457]	3862	[5186, 2407]	5911	[6789, 516]	7960	[4762, 2440]
1814	[2972, 2973]	3863	[5187, 170]	5912	[6790, 811]	7961	[8069, 2282]
1815	[2974, 2975]	3864	[5188, 2683]	5913	[6791, 6792]	7962	[5170, 8070]
1816	[2976, 2851]	3865	[5189, 4215]	5914	[6412, 2262]	7963	[6824, 9]
1817	[2977, 2863]	3866	[4142, 56]	5915	[6793, 4057]	7964	[6424, 6797]
1818	[2978, 2979]	3867	[1939, 736]	5916	[6794, 4763]	7965	[8071, 6668]
1819	[2980, 1203]	3868	[5190, 4889]	5917	[609, 5085]	7966	[1982, 5137]
1820	[1629, 2914]	3869	[5191, 4697]	5918	[4114, 4182]	7967	[8072, 4132]
1821	[2981, 2982]	3870	[5192, 4808]	5919	[2401, 1903]	7968	[8073, 4333]
1822	[2983, 2984]	3871	[5193, 5015]	5920	[6795, 1915]	7969	[6851, 6401]
1823	[2985, 2915]	3872	[5194, 765]	5921	[6796, 6797]	7970	[2441, 6824]
1824	[1325, 2986]	3873	[5195, 2070]	5922	[4874, 1868]	7971	[4134, 2266]
1825	[2987, 2988]	3874	[5196, 4450]	5923	[6798, 2148]	7972	[4393, 8007]
1826	[2989, 2990]	3875	[4466, 2176]	5924	[6799, 4643]	7973	[4057, 7740]
1827	[2991, 2992]	3876	[5197, 230]	5925	[6800, 5135]	7974	[4550, 7829]
1828	[2993, 2994]	3877	[5198, 2662]	5926	[6801, 6522]	7975	[8074, 241]
1829	[2995, 941]	3878	[5199, 144]	5927	[4446, 4121]	7976	[8075, 1672]
1830	[2996, 2997]	3879	[5200, 213]	5928	[6458, 6802]	7977	[904, 4642]
1831	[2998, 2999]	3880	[4107, 5201]	5929	[6803, 6804]	7978	[8076, 4434]
1832	[3000, 3001]	3881	[2180, 5202]	5930	[6805, 4249]	7979	[8077, 4451]
1833	[1511, 1475]	3882	[4230, 1758]	5931	[767, 1710]	7980	[732, 7578]
1834	[3002, 3003]	3883	[527, 4545]	5932	[6806, 734]	7981	[5089, 7787]
1835	[3004, 3005]	3884	[5203, 5146]	5933	[6807, 1700]	7982	[2434, 766]
1836	[3006, 3007]	3885	[5204, 2384]	5934	[1881, 1772]	7983	[4887, 5148]
1837	[3008, 3009]	3886	[5205, 546]	5935	[6808, 6691]	7984	[4592, 7636]
1838	[1339, 3010]	3887	[5206, 2418]	5936	[6809, 2130]	7985	[2479, 8027]
1839	[1237, 3011]	3888	[620, 4055]	5937	[5007, 191]	7986	[8078, 2575]
1840	[3012, 3013]	3889	[5207, 2023]	5938	[4209, 1811]	7987	[8079, 7553]
1841	[3014, 3015]	3890	[5208, 597]	5939	[6401, 4747]	7988	[8080, 8070]
1842	[3016, 3017]	3891	[5209, 1764]	5940	[2448, 778]	7989	[549, 4611]
1843	[3018, 3019]	3892	[5210, 1960]	5941	[6810, 6811]	7990	[6869, 5096]
1844	[2814, 430]	3893	[5211, 497]	5942	[6812, 4253]	7991	[4957, 4557]
1845	[3020, 3021]	3894	[1667, 5212]	5943	[6813, 4378]	7992	[8081, 2158]
1846	[3022, 1062]	3895	[5213, 783]	5944	[6814, 5055]	7993	[8082, 6405]
1847	[3023, 3024]	3896	[5118, 5214]	5945	[4520, 2583]	7994	[1720, 6514]
1848	[3025, 3026]	3897	[5215, 1670]	5946	[6815, 4715]	7995	[6529, 7727]
1849	[3027, 3028]	3898	[5216, 4813]	5947	[6816, 2249]	7996	[8083, 4238]
1850	[3029, 3030]	3899	[5217, 4612]	5948	[6817, 6818]	7997	[7605, 241]
1851	[3031, 3032]	3900	[5218, 2070]	5949	[4407, 4173]	7998	[6797, 4542]
1852	[3033, 2876]	3901	[5219, 2455]	5950	[6819, 6820]	7999	[2228, 6925]
1853	[3034, 3033]	3902	[5220, 4681]	5951	[4576, 2243]	8000	[4185, 4743]

1854	[3035, 1644]	3903	[5221, 2389]	5952	[6821, 6568]	8001	[8084, 5275]
1855	[3036, 3037]	3904	[2287, 4243]	5953	[6822, 6682]	8002	[8085, 7698]
1856	[3038, 3039]	3905	[513, 4765]	5954	[6823, 6824]	8003	[5278, 2198]
1857	[3040, 1384]	3906	[5222, 1773]	5955	[2327, 2474]	8004	[73, 5849]
1858	[3041, 3035]	3907	[5223, 2062]	5956	[6825, 169]	8005	[8086, 3480]
1859	[3042, 1518]	3908	[5224, 2694]	5957	[4400, 2444]	8006	[935, 2898]
1860	[3043, 30]	3909	[5225, 486]	5958	[6826, 6337]	8007	[8087, 7996]
1861	[3044, 1655]	3910	[5226, 4086]	5959	[188, 4596]	8008	[8088, 5971]
1862	[3045, 3046]	3911	[5227, 1682]	5960	[6827, 1945]	8009	[2979, 1064]
1863	[3047, 989]	3912	[2665, 2132]	5961	[6691, 1826]	8010	[8089, 2930]
1864	[3048, 3049]	3913	[5228, 4202]	5962	[6828, 2584]	8011	[8090, 6219]
1865	[1065, 1449]	3914	[2072, 2675]	5963	[6829, 2499]	8012	[5643, 1619]
1866	[3050, 3051]	3915	[2220, 2227]	5964	[6830, 4919]	8013	[3394, 7891]
1867	[3052, 3053]	3916	[5229, 5230]	5965	[6831, 178]	8014	[3976, 2956]
1868	[3054, 3055]	3917	[2024, 5179]	5966	[6832, 2426]	8015	[8091, 5928]
1869	[3056, 3057]	3918	[5231, 1792]	5967	[4177, 6833]	8016	[3097, 7996]
1870	[3058, 3059]	3919	[4454, 1858]	5968	[4045, 2727]	8017	[2994, 6238]
1871	[3060, 3061]	3920	[2683, 1704]	5969	[4419, 4269]	8018	[8092, 1199]
1872	[3062, 1030]	3921	[5232, 2370]	5970	[6834, 2475]	8019	[8093, 2814]
1873	[3063, 1653]	3922	[5233, 2616]	5971	[2439, 5134]	8020	[8094, 3698]
1874	[1266, 3064]	3923	[5234, 1939]	5972	[4464, 6487]	8021	[8095, 21]
1875	[3065, 2905]	3924	[5235, 4283]	5973	[6835, 2382]	8022	[8096, 8097]
1876	[3066, 3067]	3925	[4751, 4257]	5974	[2397, 40]	8023	[8098, 5374]
1877	[3068, 3069]	3926	[5236, 4143]	5975	[6836, 876]	8024	[1020, 3263]
1878	[3070, 3071]	3927	[5237, 4218]	5976	[6837, 2059]	8025	[7503, 3304]
1879	[3072, 464]	3928	[2630, 2288]	5977	[1902, 2455]	8026	[117, 7320]
1880	[3073, 3074]	3929	[5238, 1948]	5978	[6552, 1800]	8027	[8099, 3918]
1881	[3075, 2908]	3930	[5239, 5240]	5979	[6838, 4754]	8028	[8100, 2752]
1882	[3076, 3077]	3931	[5241, 5124]	5980	[2149, 4958]	8029	[8101, 3649]
1883	[3078, 2986]	3932	[5242, 5093]	5981	[6839, 2049]	8030	[7272, 6011]
1884	[3079, 3080]	3933	[5243, 2381]	5982	[215, 4910]	8031	[8102, 1145]
1885	[3081, 356]	3934	[5244, 2034]	5983	[54, 5116]	8032	[8103, 7078]
1886	[3082, 3083]	3935	[5245, 5020]	5984	[6840, 4998]	8033	[8104, 1413]
1887	[3084, 3085]	3936	[2512, 642]	5985	[4752, 5216]	8034	[1199, 5587]
1888	[1165, 2874]	3937	[5246, 4059]	5986	[6841, 4500]	8035	[3172, 23]
1889	[3086, 3087]	3938	[2151, 638]	5987	[6842, 4062]	8036	[8105, 5477]
1890	[3088, 3089]	3939	[4365, 4394]	5988	[6843, 2441]	8037	[8097, 5486]
1891	[1453, 3090]	3940	[5247, 4317]	5989	[6844, 4978]	8038	[8106, 3802]
1892	[1195, 3091]	3941	[62, 159]	5990	[6845, 6557]	8039	[8107, 3834]
1893	[3092, 3093]	3942	[5248, 5249]	5991	[6846, 247]	8040	[7891, 3486]
1894	[2973, 3094]	3943	[5250, 4233]	5992	[6847, 6341]	8041	[6308, 7540]
1895	[2766, 3095]	3944	[5251, 2619]	5993	[154, 4125]	8042	[3965, 5321]
1896	[2916, 1117]	3945	[870, 4337]	5994	[6848, 6493]	8043	[8108, 3138]
1897	[3096, 1235]	3946	[2111, 152]	5995	[6849, 6382]	8044	[8109, 5332]

1898	[1597, 3097]	3947	[662, 2558]	5996	[6850, 6851]	8045	[8110, 3512]
1899	[3098, 1611]	3948	[5252, 5253]	5997	[6852, 4154]	8046	[8111, 1428]
1900	[3099, 3100]	3949	[1736, 4136]	5998	[6341, 4321]	8047	[984, 5958]
1901	[3101, 3102]	3950	[5254, 2661]	5999	[6853, 1673]	8048	[418, 5609]
1902	[1546, 3103]	3951	[4383, 4757]	6000	[6854, 6564]	8049	[8112, 1620]
1903	[3104, 1220]	3952	[5255, 5256]	6001	[4581, 5044]	8050	[5343, 3335]
1904	[3105, 3106]	3953	[2099, 871]	6002	[606, 4880]	8051	[8113, 103]
1905	[3107, 1253]	3954	[627, 2057]	6003	[2216, 6330]	8052	[1175, 3434]
1906	[1136, 3108]	3955	[5257, 4572]	6004	[4161, 5080]	8053	[8114, 5994]
1907	[3109, 3110]	3956	[4627, 5258]	6005	[6855, 4988]	8054	[3276, 3955]
1908	[3111, 84]	3957	[1, 5259]	6006	[6856, 6481]	8055	[8115, 1035]
1909	[3112, 3113]	3958	[5260, 4089]	6007	[6857, 910]	8056	[8116, 442]
1910	[3114, 3115]	3959	[1773, 2561]	6008	[6858, 5149]	8057	[8117, 2769]
1911	[3116, 3117]	3960	[4939, 1687]	6009	[2184, 6500]	8058	[3102, 26]
1912	[1033, 3118]	3961	[5261, 1908]	6010	[6859, 1799]	8059	[8118, 2749]
1913	[3119, 1395]	3962	[5262, 4259]	6011	[6860, 5306]	8060	[5526, 391]
1914	[3120, 3121]	3963	[5263, 2451]	6012	[6861, 2471]	8061	[8119, 3746]
1915	[3122, 3123]	3964	[5264, 36]	6013	[810, 4103]	8062	[8120, 2997]
1916	[3124, 3125]	3965	[5265, 1686]	6014	[6862, 2285]	8063	[8121, 5618]
1917	[3126, 3127]	3966	[4876, 2370]	6015	[6863, 1849]	8064	[8122, 2966]
1918	[1311, 3080]	3967	[2108, 4079]	6016	[6864, 6678]	8065	[8123, 4029]
1919	[3128, 3129]	3968	[2172, 2225]	6017	[2718, 4927]	8066	[8124, 345]
1920	[453, 3130]	3969	[5266, 831]	6018	[6865, 5300]	8067	[3129, 1049]
1921	[3131, 3132]	3970	[5249, 2325]	6019	[2367, 5042]	8068	[6199, 5860]
1922	[3133, 1582]	3971	[5267, 2460]	6020	[6866, 738]	8069	[8125, 1031]
1923	[3134, 1494]	3972	[5268, 5163]	6021	[6867, 2490]	8070	[8126, 5902]
1924	[3135, 3136]	3973	[8, 4423]	6022	[4473, 6682]	8071	[8127, 5948]
1925	[420, 123]	3974	[5269, 5040]	6023	[6868, 6869]	8072	[8128, 3035]
1926	[3137, 3138]	3975	[5270, 58]	6024	[6870, 6719]	8073	[5438, 2813]
1927	[3139, 1353]	3976	[715, 2252]	6025	[6871, 5162]	8074	[8129, 5617]
1928	[3140, 2801]	3977	[2147, 5271]	6026	[6872, 6570]	8075	[8130, 2755]
1929	[3141, 2953]	3978	[721, 5272]	6027	[6873, 4579]	8076	[1391, 1359]
1930	[3142, 3143]	3979	[575, 4566]	6028	[6874, 2703]	8077	[8131, 4016]
1931	[3144, 1309]	3980	[2515, 5224]	6029	[2166, 2528]	8078	[8132, 3839]
1932	[3145, 2929]	3981	[493, 4678]	6030	[6875, 2161]	8079	[8133, 334]
1933	[3146, 3147]	3982	[5093, 2047]	6031	[6876, 2417]	8080	[8134, 5327]
1934	[3148, 3149]	3983	[5273, 2618]	6032	[38, 6389]	8081	[424, 2832]
1935	[3150, 2961]	3984	[5274, 872]	6033	[4597, 4195]	8082	[8135, 2973]
1936	[2900, 3151]	3985	[5275, 4625]	6034	[6877, 129]	8083	[26, 6145]
1937	[1565, 3152]	3986	[5276, 2448]	6035	[4760, 6878]	8084	[8136, 392]
1938	[3153, 1358]	3987	[5078, 4988]	6036	[207, 177]	8085	[8137, 3370]
1939	[1129, 3015]	3988	[5082, 4167]	6037	[6879, 4272]	8086	[8138, 4474]
1940	[3154, 3155]	3989	[4258, 2538]	6038	[6880, 6881]	8087	[8022, 6510]
1941	[3156, 1086]	3990	[5277, 2655]	6039	[6882, 6883]	8088	[6580, 5305]

1942	[3157, 3158]	3991	[876, 4209]	6040	[6884, 773]	8089	[6673, 4389]
1943	[3159, 1583]	3992	[896, 5278]	6041	[6885, 5063]	8090	[8139, 4113]
1944	[3160, 3161]	3993	[1805, 2603]	6042	[1850, 4971]	8091	[8140, 7558]
1945	[2999, 3162]	3994	[5279, 4680]	6043	[6886, 6658]	8092	[8141, 6976]
1946	[3001, 3163]	3995	[5280, 5078]	6044	[4162, 2411]	8093	[8142, 823]
1947	[3164, 3165]	3996	[5281, 4332]	6045	[4972, 6820]	8094	[900, 1719]
1948	[3166, 3167]	3997	[5282, 2089]	6046	[6887, 5009]	8095	[8143, 45]
1949	[3168, 3169]	3998	[839, 1901]	6047	[6888, 6413]	8096	[7829, 6804]
1950	[3170, 1397]	3999	[2379, 5211]	6048	[6889, 5014]	8097	[8144, 4279]
1951	[3171, 3172]	4000	[796, 5040]	6049	[4341, 646]	8098	[8019, 4413]
1952	[3173, 3174]	4001	[4891, 5283]	6050	[533, 2425]	8099	[8145, 6510]
1953	[3175, 3176]	4002	[5284, 5079]	6051	[6890, 5116]	8100	[8146, 5305]
1954	[3177, 1192]	4003	[5285, 4383]	6052	[6891, 1959]	8101	[6678, 1798]
1955	[3178, 3179]	4004	[4488, 4843]	6053	[6892, 2176]	8102	[8147, 6576]
1956	[3180, 3181]	4005	[5286, 4217]	6054	[6893, 1808]	8103	[6532, 45]
1957	[3182, 4]	4006	[5287, 2053]	6055	[6894, 6525]	8104	[637, 6563]
1958	[3183, 3184]	4007	[209, 4850]	6056	[6895, 4947]	8105	[8148, 7730]
1959	[3185, 3186]	4008	[1823, 1664]	6057	[2189, 764]	8106	[6632, 6364]
1960	[3187, 3188]	4009	[5288, 5289]	6058	[2142, 5240]	8107	[7592, 175]
1961	[3189, 2742]	4010	[5290, 5291]	6059	[6896, 6542]	8108	[8149, 4542]
1962	[3190, 2885]	4011	[5292, 4190]	6060	[6897, 915]	8109	[519, 5162]
1963	[416, 294]	4012	[5293, 4872]	6061	[1810, 6476]	8110	[6460, 760]
1964	[3191, 3192]	4013	[5294, 5138]	6062	[6607, 4590]	8111	[8150, 4058]
1965	[3193, 1066]	4014	[4368, 2470]	6063	[6898, 4671]	8112	[1799, 6886]
1966	[3194, 2732]	4015	[5295, 4094]	6064	[6899, 6625]	8113	[8151, 6987]
1967	[3195, 3196]	4016	[4202, 5296]	6065	[6900, 6437]	8114	[4662, 7730]
1968	[3197, 3198]	4017	[5297, 5298]	6066	[6650, 4065]	8115	[44, 4552]
1969	[3199, 3200]	4018	[2300, 2479]	6067	[6901, 4746]	8116	[4129, 7808]
1970	[2941, 3201]	4019	[4774, 2484]	6068	[6902, 4285]	8117	[8152, 5208]
1971	[3202, 2795]	4020	[5299, 2188]	6069	[6903, 6904]	8118	[1830, 4058]
1972	[3203, 2797]	4021	[775, 5300]	6070	[6905, 2432]	8119	[8153, 4962]
1973	[3204, 263]	4022	[5301, 5130]	6071	[184, 207]	8120	[8154, 5096]
1974	[3205, 3206]	4023	[5302, 2450]	6072	[6906, 625]	8121	[2445, 6343]
1975	[1088, 3207]	4024	[1782, 2589]	6073	[6907, 2010]	8122	[4673, 4902]
1976	[3208, 328]	4025	[5303, 239]	6074	[4648, 827]	8123	[8155, 5095]
1977	[3209, 459]	4026	[5304, 4370]	6075	[2081, 898]	8124	[8156, 668]
1978	[3210, 3211]	4027	[5305, 504]	6076	[6908, 6909]	8125	[7664, 5223]
1979	[3212, 3153]	4028	[5306, 4776]	6077	[4923, 2161]	8126	[6609, 7608]
1980	[79, 3213]	4029	[5214, 4866]	6078	[6910, 6911]	8127	[6476, 5095]
1981	[3214, 3215]	4030	[4984, 4811]	6079	[6912, 6692]	8128	[2473, 4674]
1982	[3216, 3217]	4031	[5307, 2408]	6080	[6913, 4664]	8129	[6743, 6972]
1983	[3218, 3219]	4032	[5230, 1912]	6081	[5066, 2654]	8130	[5044, 4067]
1984	[3220, 1190]	4033	[5308, 714]	6082	[707, 5247]	8131	[8157, 4552]
1985	[3221, 1381]	4034	[5309, 5125]	6083	[6914, 1837]	8132	[8158, 6343]

1986	[3222, 3223]	4035	[5310, 5311]	6084	[6497, 1794]	8133	[8159, 6645]
1987	[3224, 125]	4036	[5312, 5313]	6085	[6915, 6610]	8134	[8160, 7787]
1988	[3225, 3226]	4037	[5314, 3137]	6086	[6583, 5291]	8135	[4925, 4451]
1989	[3227, 3228]	4038	[312, 1524]	6087	[4441, 54]	8136	[8161, 2143]
1990	[3229, 3230]	4039	[5315, 3233]	6088	[6916, 766]	8137	[8070, 6755]
1991	[3231, 2866]	4040	[5316, 1560]	6089	[6917, 830]	8138	[5380, 6223]
1992	[996, 1507]	4041	[5317, 3260]	6090	[6566, 704]	8139	[8162, 3645]
1993	[3232, 3233]	4042	[5318, 3900]	6091	[6918, 2643]	8140	[8163, 5731]
1994	[3234, 3235]	4043	[5319, 5320]	6092	[6347, 6919]	8141	[8164, 3474]
1995	[3236, 3064]	4044	[5321, 3442]	6093	[12, 4106]	8142	[5522, 1518]
1996	[3237, 3238]	4045	[3117, 5322]	6094	[4699, 6328]	8143	[3787, 92]
1997	[1595, 3239]	4046	[3338, 1470]	6095	[4998, 5310]	8144	[8165, 3256]
1998	[3240, 1484]	4047	[5323, 5324]	6096	[6920, 4427]	8145	[8166, 4020]
1999	[3241, 3242]	4048	[5325, 928]	6097	[6921, 4072]	8146	[8167, 955]
2000	[3243, 2995]	4049	[5326, 3428]	6098	[6922, 1869]	8147	[3085, 1222]
2001	[3244, 3245]	4050	[4024, 3156]	6099	[6923, 4797]	8148	[8168, 3413]
2002	[3246, 3247]	4051	[5327, 3351]	6100	[4994, 2180]	8149	[8169, 5519]
2003	[1583, 3038]	4052	[441, 2800]	6101	[6924, 2502]	8150	[5648, 7264]
2004	[3248, 3040]	4053	[5328, 3565]	6102	[4756, 725]	8151	[8170, 3211]
2005	[20, 3249]	4054	[3219, 3694]	6103	[4042, 4664]	8152	[8171, 3559]
2006	[3250, 3251]	4055	[981, 967]	6104	[6925, 5060]	8153	[8172, 2947]
2007	[3252, 2936]	4056	[1092, 3867]	6105	[6926, 4991]	8154	[8173, 1030]
2008	[1509, 3243]	4057	[3981, 5329]	6106	[6927, 2646]	8155	[8174, 1335]
2009	[1164, 964]	4058	[5330, 5331]	6107	[2576, 4955]	8156	[1458, 1259]
2010	[3253, 3254]	4059	[2997, 5332]	6108	[6928, 6884]	8157	[5709, 5514]
2011	[1235, 952]	4060	[5333, 255]	6109	[2205, 6566]	8158	[7177, 1439]
2012	[3255, 2905]	4061	[5334, 1130]	6110	[6929, 4340]	8159	[8175, 109]
2013	[3256, 3257]	4062	[5335, 1267]	6111	[6383, 4349]	8160	[295, 6264]
2014	[3258, 395]	4063	[5336, 2903]	6112	[6930, 760]	8161	[8176, 3067]
2015	[3259, 3181]	4064	[1651, 3258]	6113	[6931, 4085]	8162	[8177, 6518]
2016	[3260, 116]	4065	[5337, 3540]	6114	[6932, 4825]	8163	[7052, 485]
2017	[3261, 3262]	4066	[3736, 5338]	6115	[6933, 1794]	8164	[8178, 7669]
2018	[3263, 1521]	4067	[5339, 2953]	6116	[6934, 2562]	8165	[8179, 6563]
2019	[2792, 3025]	4068	[5340, 2841]	6117	[6935, 6903]	8166	[6745, 7698]
2020	[3264, 3265]	4069	[5341, 3514]	6118	[4693, 6636]	8167	[8180, 1719]
2021	[3266, 2794]	4070	[5342, 5343]	6119	[6936, 4554]	8168	[8181, 4649]
2022	[3267, 1296]	4071	[956, 251]	6120	[6937, 4483]	8169	[6777, 6987]
2023	[3268, 256]	4072	[3272, 3727]	6121	[6938, 4627]	8170	[6985, 4649]
2024	[2949, 1292]	4073	[5344, 5345]	6122	[6939, 1801]	8171	[8027, 7669]
2025	[3269, 3270]	4074	[5346, 3263]	6123	[2314, 2002]	8172	[7064, 6580]
2026	[3271, 3272]	4075	[5347, 2822]	6124	[6940, 4281]	8173	[2138, 7558]
2027	[3273, 3274]	4076	[6, 1496]	6125	[6941, 792]	8174	[8182, 6755]
2028	[3275, 3276]	4077	[990, 3748]	6126	[6942, 2501]	8175	[6883, 5132]
2029	[3277, 2985]	4078	[1446, 5348]	6127	[6943, 5082]	8176	[8183, 4067]

2030	[3278, 3279]	4079	[5349, 5350]	6128	[6944, 6911]	8177	[8184, 3070]
2031	[3094, 3280]	4080	[3849, 3256]	6129	[6945, 6671]	8178	[8185, 2867]
2032	[1593, 2999]	4081	[5351, 1570]	6130	[6946, 1749]	8179	[2762, 3853]
2033	[3281, 1007]	4082	[5352, 1603]	6131	[6947, 1781]	8180	[5475, 2830]
2034	[3282, 3283]	4083	[5353, 3622]	6132	[6948, 6775]	8181	[8186, 3673]
2035	[3284, 3285]	4084	[5354, 1228]	6133	[1793, 6883]	8182	[8187, 6096]
2036	[3286, 3287]	4085	[5355, 1370]	6134	[240, 706]	8183	[6008, 8097]
2037	[3288, 3289]	4086	[5356, 1447]	6135	[2208, 4908]	8184	[7731, 6661]
2038	[3290, 2756]	4087	[5357, 5358]	6136	[6949, 6950]	8185	[8188, 6364]
2039	[30, 3291]	4088	[5359, 5360]	6137	[4789, 2279]	8186	[8189, 5132]
2040	[1142, 1034]	4089	[5361, 5362]	6138	[738, 1879]	8187	[1859, 7553]
2041	[3292, 1630]	4090	[5363, 331]	6139	[495, 2692]	8188	[8190, 5338]
2042	[3293, 1567]	4091	[5364, 3367]	6140	[6951, 5216]	8189	[8191, 1314]
2043	[1107, 3294]	4092	[3535, 2975]	6141	[4841, 4294]	8190	[8007, 4837]
2044	[3295, 982]	4093	[5365, 5320]	6142	[6452, 2437]	8191	[7584, 6645]
2045	[3296, 3297]	4094	[5366, 3488]	6143	[6952, 2444]		
2046	[3298, 3299]	4095	[1349, 3551]	6144	[6953, 4431]		
2047	[3300, 3301]	4096	[3926, 2825]	6145	[6954, 4270]		
2048	[3115, 3302]	4097	[5367, 1368]	6146	[740, 4980]		

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

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1366	1	2732	1	4098	1	5464	1	6830	0
1	0	1367	0	2733	1	4099	1	5465	0	6831	1
2	0	1368	1	2734	0	4100	0	5466	1	6832	0
3	0	1369	0	2735	0	4101	1	5467	0	6833	1
4	0	1370	0	2736	1	4102	0	5468	0	6834	0
5	0	1371	0	2737	0	4103	0	5469	0	6835	0
6	0	1372	1	2738	1	4104	0	5470	1	6836	1
7	0	1373	1	2739	1	4105	1	5471	0	6837	0
8	0	1374	0	2740	1	4106	0	5472	1	6838	0
9	0	1375	1	2741	0	4107	0	5473	0	6839	1
10	1	1376	1	2742	0	4108	0	5474	0	6840	0
11	0	1377	0	2743	1	4109	0	5475	0	6841	0
12	1	1378	1	2744	0	4110	1	5476	1	6842	1
13	0	1379	1	2745	1	4111	0	5477	1	6843	0
14	1	1380	1	2746	1	4112	0	5478	1	6844	1
15	0	1381	0	2747	0	4113	0	5479	1	6845	1
16	0	1382	1	2748	0	4114	1	5480	1	6846	0
17	0	1383	1	2749	0	4115	1	5481	0	6847	0
18	1	1384	1	2750	0	4116	0	5482	0	6848	0
19	0	1385	0	2751	1	4117	1	5483	0	6849	0
20	0	1386	0	2752	1	4118	0	5484	1	6850	0
21	1	1387	0	2753	0	4119	1	5485	1	6851	0

22	1	1388	0	2754	0	4120	0	5486	0	6852	1
23	0	1389	1	2755	1	4121	0	5487	1	6853	1
24	0	1390	0	2756	0	4122	1	5488	1	6854	1
25	1	1391	0	2757	0	4123	1	5489	0	6855	0
26	1	1392	1	2758	0	4124	0	5490	1	6856	0
27	0	1393	1	2759	1	4125	0	5491	1	6857	0
28	0	1394	0	2760	1	4126	1	5492	0	6858	1
29	1	1395	0	2761	0	4127	1	5493	1	6859	0
30	0	1396	1	2762	1	4128	0	5494	1	6860	1
31	0	1397	1	2763	0	4129	1	5495	1	6861	0
32	1	1398	0	2764	0	4130	1	5496	0	6862	1
33	0	1399	0	2765	0	4131	1	5497	0	6863	1
34	1	1400	1	2766	0	4132	0	5498	1	6864	1
35	0	1401	0	2767	0	4133	1	5499	1	6865	0
36	0	1402	1	2768	0	4134	0	5500	0	6866	0
37	1	1403	0	2769	0	4135	1	5501	0	6867	1
38	1	1404	1	2770	0	4136	0	5502	0	6868	0
39	0	1405	1	2771	0	4137	1	5503	1	6869	0
40	1	1406	0	2772	1	4138	0	5504	1	6870	0
41	0	1407	0	2773	1	4139	0	5505	1	6871	0
42	1	1408	0	2774	0	4140	0	5506	0	6872	1
43	1	1409	0	2775	0	4141	1	5507	1	6873	1
44	0	1410	1	2776	0	4142	1	5508	1	6874	1
45	1	1411	1	2777	1	4143	0	5509	1	6875	1
46	0	1412	1	2778	1	4144	1	5510	0	6876	1
47	0	1413	0	2779	0	4145	0	5511	0	6877	0
48	1	1414	1	2780	1	4146	0	5512	1	6878	1
49	0	1415	0	2781	0	4147	0	5513	1	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	0
52	1	1418	1	2784	0	4150	0	5516	0	6882	0
53	1	1419	1	2785	0	4151	0	5517	1	6883	0
54	1	1420	0	2786	1	4152	1	5518	1	6884	0
55	0	1421	0	2787	1	4153	1	5519	0	6885	0
56	0	1422	0	2788	1	4154	0	5520	0	6886	0
57	0	1423	1	2789	1	4155	1	5521	0	6887	1
58	0	1424	0	2790	0	4156	1	5522	0	6888	0
59	1	1425	1	2791	1	4157	1	5523	1	6889	0
60	0	1426	0	2792	0	4158	0	5524	0	6890	0
61	0	1427	0	2793	0	4159	0	5525	0	6891	1
62	1	1428	1	2794	0	4160	1	5526	0	6892	0
63	0	1429	0	2795	0	4161	0	5527	0	6893	1
64	1	1430	0	2796	1	4162	0	5528	1	6894	0
65	0	1431	0	2797	1	4163	1	5529	0	6895	0

66	0	1432	1	2798	0	4164	0	5530	0	6896	0
67	1	1433	1	2799	0	4165	1	5531	1	6897	0
68	1	1434	1	2800	1	4166	1	5532	0	6898	1
69	1	1435	1	2801	0	4167	0	5533	1	6899	0
70	0	1436	0	2802	0	4168	1	5534	1	6900	1
71	0	1437	1	2803	1	4169	0	5535	1	6901	0
72	0	1438	1	2804	1	4170	0	5536	1	6902	0
73	1	1439	1	2805	1	4171	0	5537	1	6903	0
74	1	1440	1	2806	0	4172	0	5538	0	6904	0
75	0	1441	0	2807	1	4173	1	5539	1	6905	0
76	1	1442	1	2808	0	4174	0	5540	0	6906	1
77	0	1443	0	2809	0	4175	1	5541	1	6907	1
78	0	1444	0	2810	1	4176	0	5542	0	6908	0
79	1	1445	1	2811	0	4177	1	5543	0	6909	1
80	1	1446	0	2812	0	4178	1	5544	1	6910	0
81	1	1447	0	2813	1	4179	0	5545	1	6911	1
82	0	1448	0	2814	0	4180	1	5546	0	6912	1
83	0	1449	1	2815	1	4181	1	5547	1	6913	0
84	1	1450	1	2816	1	4182	1	5548	0	6914	1
85	0	1451	0	2817	0	4183	1	5549	0	6915	1
86	1	1452	1	2818	1	4184	1	5550	0	6916	0
87	1	1453	0	2819	1	4185	1	5551	0	6917	1
88	0	1454	0	2820	1	4186	0	5552	1	6918	1
89	0	1455	0	2821	1	4187	0	5553	0	6919	1
90	1	1456	0	2822	1	4188	1	5554	1	6920	1
91	1	1457	1	2823	0	4189	1	5555	1	6921	0
92	0	1458	0	2824	0	4190	1	5556	1	6922	0
93	1	1459	1	2825	1	4191	0	5557	0	6923	1
94	0	1460	0	2826	0	4192	1	5558	0	6924	0
95	1	1461	1	2827	1	4193	0	5559	0	6925	0
96	1	1462	0	2828	0	4194	1	5560	0	6926	1
97	1	1463	1	2829	0	4195	0	5561	1	6927	1
98	0	1464	1	2830	0	4196	1	5562	0	6928	0
99	0	1465	1	2831	1	4197	0	5563	1	6929	0
100	0	1466	0	2832	1	4198	1	5564	1	6930	0
101	1	1467	1	2833	1	4199	0	5565	0	6931	0
102	1	1468	0	2834	0	4200	0	5566	1	6932	1
103	1	1469	0	2835	1	4201	1	5567	0	6933	0
104	1	1470	1	2836	0	4202	0	5568	1	6934	0
105	1	1471	0	2837	1	4203	0	5569	0	6935	0
106	1	1472	1	2838	1	4204	1	5570	0	6936	1
107	1	1473	1	2839	1	4205	1	5571	1	6937	1
108	1	1474	1	2840	0	4206	1	5572	0	6938	1
109	1	1475	1	2841	1	4207	1	5573	1	6939	1

110	0	1476	0	2842	0	4208	1	5574	0	6940	0
111	1	1477	1	2843	1	4209	1	5575	1	6941	1
112	0	1478	1	2844	0	4210	1	5576	0	6942	1
113	1	1479	0	2845	1	4211	0	5577	0	6943	0
114	0	1480	1	2846	1	4212	1	5578	1	6944	1
115	1	1481	1	2847	0	4213	0	5579	1	6945	0
116	0	1482	0	2848	1	4214	0	5580	0	6946	0
117	0	1483	0	2849	1	4215	0	5581	1	6947	0
118	1	1484	0	2850	1	4216	1	5582	1	6948	1
119	1	1485	0	2851	0	4217	0	5583	0	6949	1
120	0	1486	1	2852	0	4218	1	5584	1	6950	1
121	0	1487	1	2853	0	4219	0	5585	0	6951	0
122	0	1488	1	2854	1	4220	0	5586	1	6952	0
123	1	1489	0	2855	1	4221	1	5587	1	6953	0
124	1	1490	1	2856	0	4222	1	5588	1	6954	0
125	0	1491	1	2857	0	4223	1	5589	1	6955	1
126	1	1492	0	2858	1	4224	1	5590	0	6956	0
127	1	1493	1	2859	1	4225	1	5591	0	6957	1
128	1	1494	1	2860	1	4226	1	5592	1	6958	0
129	0	1495	0	2861	1	4227	0	5593	0	6959	1
130	0	1496	1	2862	1	4228	0	5594	1	6960	1
131	0	1497	0	2863	1	4229	0	5595	1	6961	1
132	1	1498	0	2864	0	4230	0	5596	1	6962	1
133	1	1499	1	2865	0	4231	1	5597	1	6963	0
134	0	1500	1	2866	1	4232	1	5598	0	6964	0
135	1	1501	0	2867	1	4233	0	5599	0	6965	0
136	0	1502	1	2868	0	4234	1	5600	1	6966	0
137	1	1503	0	2869	1	4235	0	5601	0	6967	0
138	1	1504	0	2870	1	4236	1	5602	1	6968	0
139	0	1505	0	2871	0	4237	0	5603	1	6969	0
140	0	1506	1	2872	1	4238	0	5604	0	6970	1
141	0	1507	1	2873	0	4239	0	5605	0	6971	0
142	1	1508	0	2874	1	4240	1	5606	0	6972	0
143	0	1509	1	2875	1	4241	1	5607	1	6973	0
144	0	1510	0	2876	1	4242	1	5608	1	6974	0
145	1	1511	0	2877	0	4243	1	5609	1	6975	0
146	0	1512	0	2878	0	4244	0	5610	1	6976	1
147	1	1513	1	2879	1	4245	0	5611	0	6977	0
148	0	1514	1	2880	0	4246	0	5612	0	6978	0
149	0	1515	0	2881	0	4247	0	5613	1	6979	0
150	1	1516	0	2882	1	4248	1	5614	0	6980	0
151	1	1517	1	2883	1	4249	1	5615	0	6981	0
152	0	1518	0	2884	1	4250	0	5616	1	6982	1
153	0	1519	0	2885	1	4251	0	5617	1	6983	1

154	0	1520	0	2886	1	4252	1	5618	1	6984	0
155	0	1521	1	2887	1	4253	0	5619	1	6985	0
156	0	1522	1	2888	1	4254	0	5620	1	6986	0
157	1	1523	0	2889	1	4255	1	5621	1	6987	1
158	1	1524	1	2890	0	4256	1	5622	1	6988	0
159	1	1525	0	2891	1	4257	1	5623	1	6989	0
160	1	1526	0	2892	0	4258	1	5624	0	6990	0
161	1	1527	0	2893	0	4259	0	5625	0	6991	0
162	1	1528	0	2894	0	4260	1	5626	1	6992	1
163	0	1529	1	2895	1	4261	1	5627	0	6993	0
164	1	1530	1	2896	0	4262	1	5628	0	6994	0
165	0	1531	0	2897	1	4263	1	5629	1	6995	1
166	1	1532	1	2898	0	4264	0	5630	0	6996	1
167	1	1533	1	2899	1	4265	1	5631	1	6997	0
168	1	1534	1	2900	1	4266	0	5632	1	6998	0
169	0	1535	1	2901	1	4267	0	5633	1	6999	1
170	1	1536	0	2902	1	4268	1	5634	0	7000	0
171	1	1537	0	2903	1	4269	1	5635	0	7001	1
172	0	1538	1	2904	0	4270	0	5636	0	7002	0
173	1	1539	0	2905	0	4271	1	5637	0	7003	0
174	1	1540	1	2906	0	4272	0	5638	0	7004	0
175	0	1541	1	2907	1	4273	1	5639	0	7005	0
176	1	1542	0	2908	1	4274	1	5640	0	7006	1
177	0	1543	0	2909	1	4275	1	5641	0	7007	1
178	1	1544	0	2910	0	4276	1	5642	1	7008	0
179	1	1545	0	2911	1	4277	0	5643	1	7009	1
180	1	1546	0	2912	0	4278	0	5644	0	7010	0
181	1	1547	0	2913	0	4279	0	5645	0	7011	1
182	1	1548	0	2914	1	4280	0	5646	1	7012	1
183	0	1549	1	2915	0	4281	1	5647	0	7013	1
184	0	1550	1	2916	1	4282	0	5648	1	7014	1
185	1	1551	0	2917	1	4283	0	5649	1	7015	0
186	1	1552	0	2918	0	4284	1	5650	0	7016	0
187	0	1553	0	2919	0	4285	0	5651	0	7017	1
188	0	1554	0	2920	0	4286	0	5652	0	7018	0
189	1	1555	1	2921	0	4287	1	5653	1	7019	1
190	1	1556	1	2922	1	4288	1	5654	0	7020	0
191	1	1557	1	2923	0	4289	1	5655	1	7021	0
192	1	1558	1	2924	1	4290	1	5656	0	7022	0
193	1	1559	0	2925	0	4291	0	5657	1	7023	0
194	1	1560	1	2926	0	4292	1	5658	0	7024	0
195	0	1561	0	2927	1	4293	0	5659	1	7025	1
196	1	1562	1	2928	1	4294	1	5660	1	7026	1
197	0	1563	0	2929	1	4295	0	5661	1	7027	1

198	1	1564	1	2930	0	4296	1	5662	1	7028	1
199	0	1565	1	2931	0	4297	1	5663	0	7029	1
200	0	1566	0	2932	1	4298	1	5664	0	7030	0
201	1	1567	0	2933	1	4299	0	5665	0	7031	1
202	1	1568	1	2934	0	4300	0	5666	1	7032	1
203	1	1569	1	2935	0	4301	0	5667	1	7033	1
204	0	1570	1	2936	0	4302	0	5668	0	7034	1
205	1	1571	1	2937	1	4303	1	5669	0	7035	1
206	1	1572	0	2938	1	4304	1	5670	0	7036	1
207	0	1573	0	2939	1	4305	1	5671	0	7037	0
208	1	1574	1	2940	0	4306	0	5672	1	7038	0
209	1	1575	0	2941	0	4307	1	5673	1	7039	0
210	1	1576	0	2942	1	4308	1	5674	0	7040	1
211	1	1577	0	2943	1	4309	0	5675	1	7041	1
212	1	1578	0	2944	1	4310	0	5676	1	7042	0
213	1	1579	1	2945	1	4311	0	5677	0	7043	1
214	1	1580	1	2946	1	4312	0	5678	1	7044	0
215	0	1581	1	2947	0	4313	0	5679	0	7045	0
216	1	1582	0	2948	1	4314	1	5680	0	7046	1
217	0	1583	0	2949	1	4315	1	5681	0	7047	1
218	0	1584	1	2950	0	4316	0	5682	0	7048	1
219	0	1585	1	2951	1	4317	1	5683	0	7049	0
220	1	1586	1	2952	1	4318	0	5684	0	7050	1
221	0	1587	0	2953	1	4319	0	5685	1	7051	1
222	0	1588	1	2954	1	4320	0	5686	1	7052	0
223	0	1589	1	2955	0	4321	0	5687	1	7053	0
224	1	1590	0	2956	1	4322	1	5688	1	7054	0
225	1	1591	1	2957	0	4323	0	5689	1	7055	0
226	0	1592	0	2958	1	4324	1	5690	1	7056	1
227	0	1593	1	2959	0	4325	1	5691	1	7057	1
228	1	1594	0	2960	1	4326	0	5692	1	7058	1
229	0	1595	1	2961	0	4327	1	5693	1	7059	1
230	0	1596	0	2962	0	4328	0	5694	1	7060	1
231	0	1597	1	2963	1	4329	0	5695	1	7061	0
232	0	1598	1	2964	0	4330	1	5696	1	7062	0
233	1	1599	1	2965	0	4331	1	5697	1	7063	1
234	0	1600	0	2966	0	4332	0	5698	0	7064	0
235	1	1601	0	2967	1	4333	1	5699	1	7065	0
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237	0	1603	0	2969	1	4335	0	5701	1	7067	1
238	0	1604	0	2970	1	4336	1	5702	0	7068	1
239	0	1605	1	2971	1	4337	0	5703	1	7069	0
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242	0	1608	1	2974	0	4340	0	5706	1	7072	1
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244	1	1610	0	2976	1	4342	0	5708	1	7074	0
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248	0	1614	0	2980	0	4346	0	5712	0	7078	0
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250	1	1616	0	2982	0	4348	1	5714	0	7080	1
251	1	1617	0	2983	0	4349	0	5715	0	7081	0
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253	0	1619	0	2985	0	4351	1	5717	1	7083	1
254	0	1620	1	2986	1	4352	1	5718	0	7084	0
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260	1	1626	1	2992	1	4358	1	5724	0	7090	0
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263	1	1629	1	2995	1	4361	1	5727	1	7093	0
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265	1	1631	1	2997	0	4363	0	5729	0	7095	1
266	1	1632	1	2998	0	4364	0	5730	1	7096	0
267	0	1633	1	2999	1	4365	0	5731	0	7097	0
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269	1	1635	0	3001	0	4367	1	5733	1	7099	1
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275	0	1641	0	3007	0	4373	1	5739	0	7105	0
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277	1	1643	1	3009	1	4375	0	5741	1	7107	1
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279	1	1645	1	3011	1	4377	1	5743	1	7109	0
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282	0	1648	0	3014	0	4380	1	5746	0	7112	0
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284	0	1650	0	3016	0	4382	0	5748	0	7114	1
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295	0	1661	1	3027	1	4393	0	5759	1	7125	0
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304	0	1670	0	3036	1	4402	1	5768	0	7134	0
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308	0	1674	0	3040	0	4406	0	5772	1	7138	0
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311	1	1677	0	3043	0	4409	0	5775	0	7141	0
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390	0	1756	1	3122	0	4488	1	5854	1	7220	0
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408	1	1774	1	3140	0	4506	1	5872	0	7238	0
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505	1	1871	0	3237	1	4603	1	5969	0	7335	0

506	1	1872	0	3238	0	4604	0	5970	0	7336	0
507	0	1873	0	3239	0	4605	0	5971	0	7337	0
508	1	1874	1	3240	0	4606	0	5972	1	7338	0
509	0	1875	1	3241	1	4607	1	5973	0	7339	1
510	1	1876	0	3242	0	4608	1	5974	1	7340	0
511	1	1877	0	3243	1	4609	1	5975	1	7341	1
512	0	1878	1	3244	0	4610	0	5976	0	7342	1
513	0	1879	1	3245	1	4611	0	5977	0	7343	0
514	1	1880	0	3246	1	4612	0	5978	0	7344	0
515	0	1881	0	3247	0	4613	1	5979	0	7345	1
516	1	1882	1	3248	0	4614	1	5980	0	7346	1
517	0	1883	1	3249	1	4615	0	5981	1	7347	1
518	0	1884	1	3250	0	4616	1	5982	0	7348	0
519	1	1885	1	3251	0	4617	0	5983	1	7349	0
520	0	1886	1	3252	1	4618	1	5984	0	7350	1
521	1	1887	1	3253	0	4619	0	5985	1	7351	1
522	1	1888	1	3254	0	4620	0	5986	0	7352	0
523	0	1889	1	3255	0	4621	1	5987	1	7353	1
524	1	1890	1	3256	1	4622	0	5988	0	7354	0
525	1	1891	0	3257	1	4623	1	5989	1	7355	1
526	0	1892	1	3258	1	4624	0	5990	1	7356	0
527	1	1893	0	3259	1	4625	1	5991	0	7357	0
528	1	1894	1	3260	0	4626	0	5992	0	7358	0
529	0	1895	0	3261	0	4627	0	5993	0	7359	1
530	0	1896	1	3262	0	4628	1	5994	0	7360	0
531	1	1897	0	3263	1	4629	1	5995	0	7361	1
532	0	1898	1	3264	1	4630	0	5996	0	7362	1
533	1	1899	0	3265	0	4631	1	5997	1	7363	0
534	0	1900	0	3266	1	4632	0	5998	1	7364	0
535	0	1901	0	3267	0	4633	1	5999	1	7365	0
536	0	1902	0	3268	1	4634	1	6000	1	7366	1
537	1	1903	1	3269	0	4635	0	6001	0	7367	1
538	1	1904	1	3270	0	4636	1	6002	1	7368	1
539	0	1905	1	3271	1	4637	0	6003	1	7369	0
540	0	1906	0	3272	1	4638	0	6004	0	7370	1
541	0	1907	1	3273	1	4639	0	6005	0	7371	0
542	1	1908	1	3274	1	4640	1	6006	0	7372	1
543	0	1909	1	3275	0	4641	1	6007	0	7373	1
544	1	1910	0	3276	0	4642	0	6008	1	7374	0
545	1	1911	1	3277	1	4643	0	6009	1	7375	1
546	0	1912	0	3278	1	4644	1	6010	0	7376	0
547	1	1913	1	3279	0	4645	1	6011	1	7377	0
548	0	1914	0	3280	1	4646	1	6012	0	7378	1
549	1	1915	0	3281	1	4647	1	6013	1	7379	0

550	0	1916	1	3282	1	4648	0	6014	1	7380	0
551	1	1917	1	3283	1	4649	1	6015	1	7381	1
552	0	1918	0	3284	0	4650	0	6016	1	7382	1
553	0	1919	1	3285	1	4651	0	6017	0	7383	0
554	1	1920	0	3286	0	4652	1	6018	0	7384	1
555	1	1921	0	3287	0	4653	0	6019	0	7385	0
556	1	1922	1	3288	0	4654	0	6020	0	7386	1
557	1	1923	0	3289	1	4655	0	6021	1	7387	1
558	1	1924	0	3290	0	4656	0	6022	1	7388	1
559	1	1925	1	3291	1	4657	1	6023	0	7389	0
560	0	1926	0	3292	1	4658	1	6024	0	7390	1
561	1	1927	0	3293	1	4659	0	6025	0	7391	0
562	0	1928	0	3294	1	4660	0	6026	1	7392	1
563	0	1929	1	3295	1	4661	0	6027	1	7393	0
564	1	1930	1	3296	0	4662	0	6028	1	7394	1
565	1	1931	0	3297	0	4663	0	6029	0	7395	0
566	0	1932	0	3298	1	4664	1	6030	1	7396	0
567	0	1933	0	3299	1	4665	0	6031	1	7397	1
568	0	1934	0	3300	0	4666	1	6032	1	7398	1
569	1	1935	0	3301	0	4667	1	6033	1	7399	1
570	0	1936	1	3302	1	4668	1	6034	0	7400	0
571	1	1937	1	3303	0	4669	1	6035	0	7401	1
572	0	1938	0	3304	0	4670	0	6036	0	7402	1
573	0	1939	1	3305	1	4671	1	6037	1	7403	0
574	0	1940	1	3306	1	4672	0	6038	0	7404	1
575	0	1941	1	3307	0	4673	1	6039	0	7405	0
576	1	1942	1	3308	0	4674	0	6040	0	7406	1
577	0	1943	1	3309	0	4675	0	6041	0	7407	1
578	1	1944	0	3310	0	4676	1	6042	0	7408	0
579	0	1945	1	3311	1	4677	1	6043	0	7409	1
580	1	1946	0	3312	1	4678	0	6044	0	7410	0
581	0	1947	1	3313	1	4679	1	6045	1	7411	0
582	0	1948	1	3314	1	4680	1	6046	1	7412	0
583	0	1949	0	3315	1	4681	1	6047	0	7413	1
584	0	1950	0	3316	1	4682	0	6048	0	7414	0
585	0	1951	1	3317	0	4683	1	6049	0	7415	1
586	0	1952	1	3318	1	4684	1	6050	1	7416	0
587	0	1953	1	3319	0	4685	1	6051	0	7417	1
588	0	1954	0	3320	0	4686	1	6052	1	7418	0
589	0	1955	1	3321	0	4687	0	6053	0	7419	0
590	0	1956	0	3322	1	4688	1	6054	1	7420	0
591	0	1957	1	3323	1	4689	0	6055	0	7421	1
592	0	1958	1	3324	1	4690	0	6056	0	7422	1
593	1	1959	0	3325	0	4691	1	6057	1	7423	0

594	1	1960	0	3326	1	4692	0	6058	1	7424	1
595	1	1961	0	3327	1	4693	0	6059	0	7425	0
596	0	1962	1	3328	0	4694	0	6060	0	7426	1
597	0	1963	1	3329	1	4695	1	6061	0	7427	1
598	0	1964	0	3330	1	4696	1	6062	1	7428	1
599	0	1965	0	3331	0	4697	1	6063	1	7429	1
600	1	1966	1	3332	0	4698	1	6064	0	7430	0
601	0	1967	0	3333	1	4699	1	6065	1	7431	0
602	1	1968	0	3334	0	4700	0	6066	1	7432	0
603	1	1969	1	3335	1	4701	1	6067	0	7433	0
604	1	1970	0	3336	0	4702	0	6068	0	7434	1
605	1	1971	0	3337	0	4703	1	6069	0	7435	1
606	1	1972	0	3338	1	4704	0	6070	0	7436	1
607	1	1973	0	3339	1	4705	1	6071	0	7437	1
608	1	1974	1	3340	0	4706	1	6072	1	7438	1
609	0	1975	0	3341	1	4707	1	6073	1	7439	0
610	0	1976	0	3342	0	4708	0	6074	0	7440	0
611	1	1977	0	3343	0	4709	0	6075	0	7441	0
612	1	1978	1	3344	1	4710	1	6076	0	7442	0
613	1	1979	0	3345	0	4711	1	6077	0	7443	1
614	1	1980	1	3346	1	4712	0	6078	0	7444	0
615	0	1981	0	3347	1	4713	1	6079	1	7445	0
616	0	1982	1	3348	1	4714	1	6080	0	7446	0
617	0	1983	0	3349	1	4715	1	6081	0	7447	0
618	0	1984	0	3350	0	4716	0	6082	1	7448	1
619	1	1985	0	3351	1	4717	1	6083	1	7449	0
620	0	1986	0	3352	1	4718	1	6084	1	7450	0
621	1	1987	0	3353	1	4719	1	6085	1	7451	0
622	1	1988	0	3354	1	4720	0	6086	1	7452	0
623	0	1989	0	3355	1	4721	1	6087	0	7453	0
624	0	1990	0	3356	1	4722	1	6088	0	7454	1
625	1	1991	0	3357	0	4723	1	6089	1	7455	0
626	1	1992	0	3358	1	4724	0	6090	1	7456	1
627	1	1993	1	3359	1	4725	1	6091	1	7457	0
628	1	1994	1	3360	0	4726	1	6092	1	7458	1
629	0	1995	0	3361	0	4727	0	6093	1	7459	0
630	0	1996	1	3362	1	4728	1	6094	1	7460	1
631	1	1997	1	3363	1	4729	1	6095	0	7461	1
632	1	1998	0	3364	1	4730	0	6096	1	7462	1
633	1	1999	1	3365	1	4731	0	6097	0	7463	1
634	1	2000	1	3366	0	4732	1	6098	0	7464	1
635	0	2001	0	3367	0	4733	0	6099	1	7465	0
636	1	2002	1	3368	1	4734	1	6100	1	7466	1
637	0	2003	0	3369	1	4735	0	6101	0	7467	0

638	0	2004	0	3370	1	4736	0	6102	0	7468	0
639	0	2005	0	3371	0	4737	0	6103	1	7469	0
640	0	2006	0	3372	0	4738	0	6104	0	7470	0
641	1	2007	1	3373	1	4739	0	6105	1	7471	1
642	0	2008	1	3374	0	4740	1	6106	1	7472	1
643	1	2009	0	3375	0	4741	1	6107	1	7473	1
644	1	2010	0	3376	1	4742	1	6108	0	7474	0
645	0	2011	0	3377	1	4743	0	6109	0	7475	1
646	1	2012	0	3378	0	4744	0	6110	0	7476	1
647	0	2013	1	3379	0	4745	1	6111	0	7477	1
648	1	2014	1	3380	0	4746	1	6112	0	7478	0
649	1	2015	1	3381	0	4747	1	6113	0	7479	1
650	0	2016	0	3382	0	4748	1	6114	1	7480	0
651	0	2017	0	3383	0	4749	0	6115	0	7481	0
652	1	2018	1	3384	1	4750	0	6116	0	7482	1
653	1	2019	0	3385	1	4751	0	6117	0	7483	0
654	0	2020	1	3386	1	4752	1	6118	0	7484	1
655	1	2021	1	3387	0	4753	0	6119	1	7485	1
656	0	2022	0	3388	1	4754	1	6120	1	7486	1
657	0	2023	1	3389	1	4755	1	6121	1	7487	0
658	1	2024	1	3390	1	4756	0	6122	1	7488	0
659	1	2025	0	3391	0	4757	1	6123	1	7489	0
660	0	2026	1	3392	0	4758	1	6124	0	7490	1
661	0	2027	1	3393	1	4759	1	6125	1	7491	0
662	0	2028	0	3394	1	4760	0	6126	1	7492	0
663	0	2029	1	3395	0	4761	0	6127	0	7493	0
664	0	2030	1	3396	0	4762	1	6128	1	7494	1
665	0	2031	0	3397	1	4763	1	6129	0	7495	0
666	1	2032	1	3398	1	4764	1	6130	0	7496	0
667	1	2033	1	3399	0	4765	0	6131	0	7497	0
668	0	2034	1	3400	1	4766	1	6132	1	7498	1
669	0	2035	0	3401	0	4767	1	6133	1	7499	1
670	0	2036	0	3402	1	4768	0	6134	0	7500	0
671	1	2037	0	3403	1	4769	0	6135	1	7501	0
672	0	2038	0	3404	1	4770	1	6136	1	7502	1
673	0	2039	0	3405	1	4771	0	6137	0	7503	1
674	1	2040	1	3406	0	4772	0	6138	1	7504	0
675	0	2041	1	3407	0	4773	1	6139	1	7505	0
676	0	2042	1	3408	1	4774	1	6140	0	7506	1
677	0	2043	0	3409	1	4775	1	6141	0	7507	0
678	1	2044	1	3410	1	4776	0	6142	0	7508	1
679	0	2045	0	3411	1	4777	0	6143	0	7509	0
680	1	2046	1	3412	0	4778	0	6144	0	7510	0
681	0	2047	0	3413	1	4779	0	6145	0	7511	1

682	1	2048	1	3414	0	4780	1	6146	1	7512	0
683	0	2049	0	3415	0	4781	1	6147	1	7513	0
684	1	2050	1	3416	1	4782	1	6148	1	7514	0
685	1	2051	1	3417	0	4783	0	6149	0	7515	1
686	1	2052	0	3418	0	4784	1	6150	1	7516	1
687	1	2053	0	3419	0	4785	0	6151	0	7517	0
688	0	2054	1	3420	1	4786	1	6152	1	7518	1
689	0	2055	1	3421	1	4787	1	6153	0	7519	1
690	0	2056	1	3422	0	4788	0	6154	1	7520	0
691	1	2057	1	3423	0	4789	0	6155	1	7521	1
692	0	2058	0	3424	0	4790	1	6156	0	7522	0
693	0	2059	0	3425	1	4791	0	6157	0	7523	0
694	0	2060	0	3426	1	4792	0	6158	0	7524	0
695	0	2061	1	3427	1	4793	1	6159	1	7525	0
696	0	2062	0	3428	0	4794	1	6160	0	7526	1
697	1	2063	0	3429	1	4795	0	6161	1	7527	1
698	1	2064	1	3430	0	4796	0	6162	0	7528	1
699	1	2065	1	3431	1	4797	1	6163	0	7529	0
700	0	2066	0	3432	0	4798	0	6164	0	7530	1
701	0	2067	1	3433	0	4799	1	6165	0	7531	1
702	1	2068	0	3434	1	4800	0	6166	0	7532	1
703	0	2069	1	3435	1	4801	0	6167	0	7533	0
704	1	2070	1	3436	0	4802	1	6168	0	7534	0
705	1	2071	0	3437	1	4803	0	6169	1	7535	1
706	0	2072	0	3438	0	4804	1	6170	0	7536	0
707	1	2073	1	3439	1	4805	0	6171	0	7537	0
708	1	2074	1	3440	1	4806	1	6172	0	7538	1
709	0	2075	0	3441	0	4807	1	6173	0	7539	0
710	0	2076	0	3442	0	4808	0	6174	0	7540	1
711	1	2077	0	3443	0	4809	0	6175	0	7541	0
712	1	2078	1	3444	0	4810	0	6176	1	7542	1
713	0	2079	0	3445	1	4811	0	6177	0	7543	1
714	1	2080	0	3446	0	4812	1	6178	0	7544	1
715	1	2081	0	3447	0	4813	0	6179	0	7545	1
716	1	2082	1	3448	1	4814	1	6180	0	7546	0
717	0	2083	1	3449	0	4815	1	6181	1	7547	0
718	1	2084	1	3450	1	4816	1	6182	0	7548	0
719	1	2085	0	3451	1	4817	1	6183	0	7549	1
720	1	2086	0	3452	1	4818	1	6184	1	7550	1
721	1	2087	0	3453	1	4819	0	6185	1	7551	1
722	0	2088	1	3454	0	4820	0	6186	0	7552	1
723	1	2089	0	3455	1	4821	0	6187	0	7553	1
724	0	2090	0	3456	0	4822	0	6188	1	7554	1
725	1	2091	1	3457	0	4823	0	6189	1	7555	1

726	1	2092	1	3458	0	4824	0	6190	0	7556	0
727	1	2093	1	3459	0	4825	0	6191	1	7557	0
728	0	2094	1	3460	0	4826	1	6192	1	7558	1
729	1	2095	1	3461	0	4827	0	6193	0	7559	0
730	0	2096	1	3462	0	4828	1	6194	0	7560	1
731	0	2097	0	3463	1	4829	1	6195	0	7561	1
732	1	2098	1	3464	0	4830	0	6196	1	7562	0
733	0	2099	0	3465	1	4831	0	6197	0	7563	1
734	0	2100	1	3466	0	4832	1	6198	1	7564	1
735	0	2101	1	3467	1	4833	1	6199	0	7565	0
736	1	2102	0	3468	1	4834	0	6200	0	7566	1
737	1	2103	0	3469	0	4835	1	6201	1	7567	0
738	1	2104	1	3470	1	4836	1	6202	1	7568	1
739	0	2105	1	3471	1	4837	1	6203	1	7569	0
740	1	2106	1	3472	1	4838	1	6204	1	7570	0
741	1	2107	0	3473	0	4839	1	6205	1	7571	0
742	1	2108	1	3474	0	4840	0	6206	0	7572	0
743	1	2109	1	3475	0	4841	0	6207	1	7573	1
744	0	2110	0	3476	0	4842	0	6208	0	7574	1
745	0	2111	0	3477	0	4843	0	6209	1	7575	1
746	0	2112	0	3478	1	4844	0	6210	0	7576	0
747	1	2113	1	3479	0	4845	0	6211	1	7577	0
748	0	2114	0	3480	1	4846	0	6212	1	7578	1
749	1	2115	0	3481	0	4847	1	6213	1	7579	1
750	0	2116	1	3482	1	4848	0	6214	0	7580	0
751	1	2117	0	3483	1	4849	0	6215	0	7581	0
752	0	2118	1	3484	1	4850	1	6216	0	7582	1
753	0	2119	1	3485	1	4851	1	6217	0	7583	1
754	1	2120	0	3486	0	4852	1	6218	0	7584	1
755	0	2121	1	3487	1	4853	1	6219	1	7585	1
756	0	2122	0	3488	1	4854	1	6220	0	7586	0
757	1	2123	1	3489	1	4855	0	6221	0	7587	1
758	1	2124	1	3490	0	4856	1	6222	1	7588	0
759	1	2125	1	3491	0	4857	1	6223	1	7589	1
760	1	2126	0	3492	1	4858	1	6224	1	7590	1
761	1	2127	1	3493	1	4859	0	6225	1	7591	0
762	1	2128	0	3494	1	4860	1	6226	1	7592	1
763	0	2129	1	3495	0	4861	1	6227	0	7593	0
764	0	2130	1	3496	1	4862	0	6228	1	7594	0
765	1	2131	0	3497	1	4863	0	6229	1	7595	1
766	1	2132	0	3498	0	4864	0	6230	0	7596	0
767	0	2133	0	3499	0	4865	0	6231	0	7597	0
768	1	2134	1	3500	0	4866	0	6232	0	7598	1
769	0	2135	1	3501	0	4867	1	6233	0	7599	1

770	0	2136	0	3502	1	4868	1	6234	1	7600	0
771	1	2137	1	3503	1	4869	1	6235	0	7601	0
772	1	2138	1	3504	1	4870	0	6236	1	7602	0
773	0	2139	1	3505	0	4871	1	6237	0	7603	0
774	1	2140	1	3506	1	4872	1	6238	0	7604	1
775	1	2141	1	3507	1	4873	1	6239	1	7605	0
776	0	2142	1	3508	1	4874	0	6240	0	7606	1
777	1	2143	0	3509	1	4875	1	6241	0	7607	0
778	0	2144	1	3510	0	4876	1	6242	0	7608	1
779	0	2145	0	3511	0	4877	1	6243	1	7609	0
780	1	2146	0	3512	0	4878	0	6244	0	7610	1
781	0	2147	1	3513	0	4879	1	6245	1	7611	0
782	1	2148	0	3514	0	4880	1	6246	1	7612	0
783	0	2149	0	3515	1	4881	1	6247	1	7613	0
784	1	2150	1	3516	1	4882	1	6248	1	7614	1
785	0	2151	1	3517	1	4883	1	6249	0	7615	1
786	0	2152	1	3518	1	4884	1	6250	1	7616	0
787	1	2153	1	3519	1	4885	0	6251	1	7617	0
788	1	2154	1	3520	0	4886	0	6252	0	7618	0
789	1	2155	0	3521	0	4887	0	6253	1	7619	1
790	1	2156	0	3522	1	4888	1	6254	0	7620	1
791	1	2157	1	3523	0	4889	0	6255	1	7621	1
792	1	2158	0	3524	1	4890	1	6256	0	7622	0
793	0	2159	1	3525	1	4891	0	6257	0	7623	0
794	0	2160	0	3526	1	4892	0	6258	0	7624	1
795	1	2161	1	3527	0	4893	0	6259	1	7625	1
796	1	2162	1	3528	0	4894	1	6260	1	7626	0
797	1	2163	0	3529	0	4895	0	6261	1	7627	0
798	1	2164	0	3530	0	4896	0	6262	0	7628	1
799	0	2165	0	3531	1	4897	1	6263	1	7629	1
800	1	2166	0	3532	1	4898	1	6264	0	7630	1
801	0	2167	1	3533	1	4899	1	6265	0	7631	0
802	0	2168	1	3534	1	4900	1	6266	1	7632	0
803	1	2169	1	3535	1	4901	1	6267	1	7633	0
804	1	2170	0	3536	0	4902	0	6268	0	7634	1
805	1	2171	1	3537	0	4903	0	6269	1	7635	1
806	0	2172	1	3538	1	4904	1	6270	1	7636	1
807	1	2173	0	3539	0	4905	0	6271	1	7637	1
808	1	2174	0	3540	1	4906	1	6272	1	7638	0
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810	1	2176	0	3542	0	4908	0	6274	1	7640	1
811	0	2177	0	3543	1	4909	1	6275	0	7641	0
812	1	2178	0	3544	1	4910	0	6276	0	7642	0
813	0	2179	0	3545	1	4911	0	6277	1	7643	0

814	1	2180	0	3546	0	4912	0	6278	0	7644	1
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816	0	2182	0	3548	0	4914	0	6280	0	7646	0
817	0	2183	0	3549	0	4915	0	6281	1	7647	1
818	0	2184	1	3550	1	4916	1	6282	1	7648	0
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822	0	2188	0	3554	0	4920	1	6286	0	7652	0
823	0	2189	1	3555	0	4921	0	6287	1	7653	1
824	0	2190	0	3556	1	4922	0	6288	0	7654	1
825	0	2191	1	3557	1	4923	0	6289	0	7655	1
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827	0	2193	1	3559	1	4925	0	6291	1	7657	0
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835	0	2201	0	3567	1	4933	1	6299	1	7665	0
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840	0	2206	0	3572	0	4938	0	6304	0	7670	0
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843	0	2209	1	3575	1	4941	1	6307	1	7673	0
844	0	2210	0	3576	1	4942	0	6308	1	7674	1
845	0	2211	0	3577	1	4943	0	6309	0	7675	1
846	1	2212	1	3578	1	4944	1	6310	1	7676	0
847	1	2213	1	3579	0	4945	1	6311	0	7677	1
848	1	2214	0	3580	0	4946	0	6312	1	7678	0
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850	0	2216	1	3582	0	4948	0	6314	1	7680	1
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852	1	2218	0	3584	0	4950	1	6316	1	7682	0
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860	0	2226	0	3592	1	4958	0	6324	1	7690	1
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866	1	2232	0	3598	1	4964	0	6330	0	7696	1
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871	0	2237	1	3603	0	4969	0	6335	0	7701	0
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873	0	2239	1	3605	0	4971	1	6337	0	7703	0
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875	0	2241	0	3607	1	4973	0	6339	1	7705	0
876	0	2242	0	3608	1	4974	1	6340	0	7706	0
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885	1	2251	0	3617	1	4983	0	6349	1	7715	0
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893	0	2259	0	3625	0	4991	1	6357	0	7723	0
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896	0	2262	1	3628	1	4994	1	6360	0	7726	0
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918	1	2284	0	3650	0	5016	0	6382	0	7748	1
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941	1	2307	1	3673	0	5039	0	6405	1	7771	1
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950	1	2316	1	3682	0	5048	0	6414	1	7780	0
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1307	1	2673	1	4039	0	5405	1	6771	1	8137	0
1308	1	2674	0	4040	0	5406	0	6772	1	8138	1
1309	1	2675	1	4041	0	5407	1	6773	1	8139	1
1310	1	2676	1	4042	1	5408	1	6774	1	8140	0
1311	0	2677	0	4043	1	5409	0	6775	0	8141	0
1312	0	2678	1	4044	1	5410	1	6776	1	8142	0
1313	1	2679	0	4045	1	5411	1	6777	1	8143	0
1314	0	2680	1	4046	1	5412	1	6778	1	8144	1
1315	0	2681	1	4047	0	5413	1	6779	0	8145	1
1316	1	2682	0	4048	0	5414	1	6780	1	8146	0
1317	0	2683	0	4049	0	5415	0	6781	0	8147	1
1318	0	2684	1	4050	1	5416	1	6782	1	8148	1
1319	1	2685	0	4051	1	5417	0	6783	0	8149	1
1320	0	2686	0	4052	0	5418	1	6784	0	8150	1
1321	1	2687	1	4053	1	5419	0	6785	1	8151	0
1322	0	2688	0	4054	0	5420	1	6786	1	8152	1
1323	0	2689	1	4055	0	5421	1	6787	1	8153	0
1324	0	2690	1	4056	0	5422	0	6788	0	8154	1
1325	0	2691	0	4057	0	5423	1	6789	0	8155	1
1326	1	2692	1	4058	0	5424	1	6790	1	8156	0
1327	0	2693	1	4059	0	5425	0	6791	1	8157	1
1328	1	2694	0	4060	1	5426	1	6792	1	8158	1
1329	0	2695	0	4061	1	5427	1	6793	1	8159	0
1330	1	2696	1	4062	1	5428	0	6794	0	8160	0
1331	1	2697	0	4063	0	5429	0	6795	1	8161	1
1332	1	2698	1	4064	0	5430	0	6796	1	8162	1
1333	0	2699	1	4065	1	5431	0	6797	0	8163	0
1334	0	2700	0	4066	1	5432	0	6798	1	8164	0
1335	0	2701	1	4067	0	5433	1	6799	1	8165	1
1336	1	2702	0	4068	1	5434	1	6800	1	8166	1
1337	0	2703	0	4069	0	5435	0	6801	0	8167	0
1338	1	2704	0	4070	1	5436	1	6802	0	8168	1
1339	1	2705	1	4071	0	5437	1	6803	1	8169	1
1340	1	2706	1	4072	1	5438	1	6804	0	8170	0
1341	1	2707	0	4073	0	5439	1	6805	0	8171	1

1342	1	2708	0	4074	1	5440	1	6806	1	8172	0
1343	0	2709	0	4075	1	5441	0	6807	1	8173	1
1344	1	2710	0	4076	0	5442	0	6808	1	8174	1
1345	0	2711	0	4077	0	5443	0	6809	0	8175	0
1346	1	2712	1	4078	0	5444	1	6810	0	8176	1
1347	0	2713	0	4079	0	5445	1	6811	1	8177	1
1348	1	2714	1	4080	0	5446	1	6812	0	8178	0
1349	0	2715	0	4081	0	5447	0	6813	0	8179	1
1350	1	2716	1	4082	0	5448	0	6814	1	8180	0
1351	1	2717	1	4083	0	5449	1	6815	1	8181	1
1352	0	2718	0	4084	0	5450	0	6816	1	8182	1
1353	0	2719	0	4085	0	5451	0	6817	0	8183	1
1354	1	2720	0	4086	1	5452	0	6818	1	8184	1
1355	1	2721	0	4087	1	5453	0	6819	0	8185	0
1356	1	2722	1	4088	0	5454	0	6820	1	8186	1
1357	1	2723	0	4089	0	5455	0	6821	1	8187	1
1358	1	2724	0	4090	0	5456	0	6822	0	8188	0
1359	0	2725	1	4091	0	5457	0	6823	1	8189	1
1360	1	2726	0	4092	1	5458	0	6824	1	8190	0
1361	1	2727	1	4093	0	5459	0	6825	0	8191	1
1362	1	2728	1	4094	0	5460	1	6826	0		
1363	1	2729	1	4095	0	5461	1	6827	1		
1364	0	2730	1	4096	0	5462	1	6828	0		
1365	1	2731	0	4097	1	5463	0	6829	1		

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