

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

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

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

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

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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

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

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

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

$$0 = x^{10u}T[u:2u] + x^{6u}T[5u:6u] + T[11u:12u],$$

which can be rewritten as

$$(2.7) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[110w]_2],$$

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

$$(2.9) \quad 0 = T[[w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1000w]_2],$$

$$(2.10) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[1001w]_2],$$

$$(2.11) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[1w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[110w]_2],$$

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

$$(2.15) \quad 0 = T[[w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1000w]_2],$$

$$(2.16) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 0 = T[[1w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8192 states; its transition function and output function can be found in the annex. Let $A(s, w)$ denote the state reached after reading w from right to left starting from the state s , and τ the output function. Define

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

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

$$(2.19) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 110)),$$

$$(2.20) \quad 0 = \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 111)),$$

$$(2.21) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

$$(2.23) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.24) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

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

$$(2.25) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 110)),$$

$$(2.26) \quad 0 = \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 111)),$$

$$(2.27) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

$$(2.28) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

$$(2.29) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.30) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{52}), E_{52}) = (A(i, 0^{24}), E_{24})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 26$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

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

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

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

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

For all $n \leq 12$, replace the occurrences of $W^e[:n \cdot v]$ and $M^e[:n \cdot v]$ in the above expression by the reduction modulo $x^{n \cdot v}$ of the right side of the corresponding

identity in Lemma 2.2 and get a new expression, which we call *rhs*. Define

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

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

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

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

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

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

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

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

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

Define

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

where

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

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

smaller than 186, which proves that $R(z, y)$ is not an annihilating polynomial of $f(x)$. Finally, $z^{12}Q(1/z, y)$ is the minimal polynomial of $\text{CF}(a, b) = f(1/z)$. $\square$

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$\begin{aligned} p_0(x) = & x^{138} + x^{134} + x^{130} + x^{126} + x^{124} + x^{122} + x^{120} + x^{114} + x^{112} + x^{108} \\ & + x^{106} + x^{102} + x^{86} + x^{76} + x^{74} + x^{72} + x^{62} + x^{60} + x^{58} + x^{56} + x^{46} \\ & + x^{42} + x^{38} + x^{36} + x^{26} + x^{22} + x^{12}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{130} + x^{128} + x^{126} + x^{116} + x^{112} + x^{110} + x^{106} + x^{104} + x^{92} + x^{84} \\ & + x^{80} + x^{74} + x^{72} + x^{64} + x^{58} + x^{48} + x^{42} + x^{38} + x^{32} + x^{28} + x^{24} \\ & + x^{22} + x^{20} + x^{16} + x^{14} + x^8, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{134} + x^{130} + x^{128} + x^{126} + x^{124} + x^{120} + x^{116} + x^{114} + x^{112} + x^{110} \\ & + x^{104} + x^{102} + x^{92} + x^{84} + x^{80} + x^{78} + x^{72} + x^{70} + x^{64} + x^{58} + x^{54} \\ & + x^{50} + x^{48} + x^{32} + x^{30} + x^{28} + x^{26} + x^{24} + x^{20} + x^{16} + x^{14} + x^{10} \\ & + x^8 + x^4 + x^2 + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{136} + x^{134} + x^{128} + x^{118} + x^{114} + x^{110} + x^{108} + x^{106} + x^{92} + x^{84} \\ & + x^{78} + x^{76} + x^{74} + x^{68} + x^{54} + x^{50} + x^{46} + x^{42} + x^{36} + x^{30} + x^{26} \\ & + x^{16} + x^{12} + x^{10} + x^8 + x^6 + x^4 + x^2, \end{aligned}$$

$$p_{12}(x) = x^{136} + x^{120} + x^{96} + x^{72} + x^{64} + x^{48} + x^{32} + x^{24} + x^8 + 1,$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{125} + x^{122} + x^{119} + x^{117} + x^{113} + x^{111} + x^{110} + x^{109} + x^{107} \\ & + x^{104} + x^{101} + x^{100} + x^{97} + x^{96} + x^{95} + x^{93} + x^{89} + x^{86} + x^{81} + x^{80} \\ & + x^{79} + x^{76} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{61} + x^{59} + x^{58} \\ & + x^{57} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} \\ & + x^{42} + x^{41} + x^{38} + x^{35} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{24} \\ & + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} \\ & + x^{112} + x^{111} + x^{109} + x^{107} + x^{104} + x^{99} + x^{98} + x^{96} + x^{94} + x^{91} \\ & + x^{90} + x^{89} + x^{84} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} \\ & + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{66} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} \\ & + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} \\ & + x^{43} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} \end{aligned}$$

$$\begin{aligned}
& + x^{26} + x^{25} + x^{24} + x^{19} + x^{18} + x^{16} + x^{14} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{123} + x^{119} + x^{118} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{105} \\
& + x^{104} + x^{102} + x^{100} + x^{99} + x^{96} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} \\
& + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{63} + x^{61} + x^{58} + x^{57} + x^{55} + x^{54} \\
& + x^{49} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} \\
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{16} \\
& + x^{15} + x^{14} + x^{11} + x^9 + x^7 + x^6, \\
p_9(x) = & x^{122} + x^{121} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{111} + x^{110} + x^{108} \\
& + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{99} + x^{95} + x^{93} + x^{92} + x^{91} \\
& + x^{84} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{72} + x^{71} + x^{69} + x^{68} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{59} + x^{58} + x^{54} + x^{49} + x^{47} + x^{46} + x^{45} + x^{42} \\
& + x^{41} + x^{39} + x^{37} + x^{34} + x^{29} + x^{27} + x^{24} + x^{20} + x^{15} + x^{13} + x^{12} \\
& + x^{11} + x^{10} + x^9 + x^7 + x^5 + x^4 + x^3, \\
p_{12}(x) = & x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{105} + x^{103} \\
& + x^{100} + x^{99} + x^{97} + x^{96} + x^{89} + x^{87} + x^{85} + x^{84} + x^{81} + x^{79} + x^{77} \\
& + x^{76} + x^{69} + x^{67} + x^{64} + x^{63} + x^{61} + x^{60} + x^{53} + x^{51} + x^{48} + x^{47} \\
& + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{35} + x^{33} + x^{32} + x^{25} + x^{23} + x^{21} \\
& + x^{20} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{122} + x^{119} + x^{117} + x^{113} + x^{111} + x^{110} + x^{109} + x^{107} \\
& + x^{104} + x^{101} + x^{100} + x^{97} + x^{96} + x^{95} + x^{93} + x^{89} + x^{86} + x^{81} + x^{80} \\
& + x^{79} + x^{76} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{61} + x^{59} + x^{58} \\
& + x^{57} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} \\
& + x^{42} + x^{41} + x^{38} + x^{35} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{24} \\
& + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_3(x) = & x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} \\
& + x^{112} + x^{111} + x^{109} + x^{107} + x^{104} + x^{99} + x^{98} + x^{96} + x^{94} + x^{91} \\
& + x^{90} + x^{89} + x^{84} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{66} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} \\
& + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} \\
& + x^{43} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} \\
& + x^{26} + x^{25} + x^{24} + x^{19} + x^{18} + x^{16} + x^{14} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{123} + x^{119} + x^{118} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{105} \\
& + x^{104} + x^{102} + x^{100} + x^{99} + x^{96} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85}
\end{aligned}$$

$$\begin{aligned}
& + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{63} + x^{61} + x^{58} + x^{57} + x^{55} + x^{54} \\
& + x^{49} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} \\
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{16} \\
& + x^{15} + x^{14} + x^{11} + x^9 + x^7 + x^6, \\
p_9(x) &= x^{122} + x^{121} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{111} + x^{110} + x^{108} \\
& + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{99} + x^{95} + x^{93} + x^{92} + x^{91} \\
& + x^{84} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{72} + x^{71} + x^{69} + x^{68} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{59} + x^{58} + x^{54} + x^{49} + x^{47} + x^{46} + x^{45} + x^{42} \\
& + x^{41} + x^{39} + x^{37} + x^{34} + x^{29} + x^{27} + x^{24} + x^{20} + x^{15} + x^{13} + x^{12} \\
& + x^{11} + x^{10} + x^9 + x^7 + x^5 + x^4 + x^3, \\
p_{12}(x) &= x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{105} + x^{103} \\
& + x^{100} + x^{99} + x^{97} + x^{96} + x^{89} + x^{87} + x^{85} + x^{84} + x^{81} + x^{79} + x^{77} \\
& + x^{76} + x^{69} + x^{67} + x^{64} + x^{63} + x^{61} + x^{60} + x^{53} + x^{51} + x^{48} + x^{47} \\
& + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{35} + x^{33} + x^{32} + x^{25} + x^{23} + x^{21} \\
& + x^{20} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

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

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{112} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} \\
& + x^{88} + x^{84} + x^{78} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} + x^{64} + x^{60} + x^{50}
\end{aligned}$$

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

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^{124} + x^{123} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{104} \\
& + x^{103} + x^{101} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} + x^{88} \\
& + x^{86} + x^{84} + x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{70} + x^{68} + x^{67} + x^{64} \\
& + x^{63} + x^{62} + x^{60} + x^{56} + x^{55} + x^{53} + x^{51} + x^{50} + x^{48} + x^{46} + x^{45} \\
& + x^{44} + x^{43} + x^{39} + x^{35} + x^{34} + x^{32} + x^{30} + x^{29} + x^{26} + x^{24}, \\
p_3(x) &= x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} \\
& + x^{112} + x^{111} + x^{109} + x^{107} + x^{104} + x^{99} + x^{98} + x^{96} + x^{94} + x^{91} \\
& + x^{90} + x^{89} + x^{84} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{66} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} \\
& + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} \\
& + x^{43} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} \\
& + x^{26} + x^{25} + x^{24} + x^{19} + x^{18} + x^{16} + x^{14} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{123} + x^{119} + x^{118} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{105} \\
& + x^{104} + x^{102} + x^{100} + x^{99} + x^{96} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} \\
& + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{63} + x^{61} + x^{58} + x^{57} + x^{55} + x^{54} \\
& + x^{49} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} \\
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{16} \\
& + x^{15} + x^{14} + x^{11} + x^9 + x^7 + x^6, \\
p_9(x) &= x^{122} + x^{121} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{111} + x^{110} + x^{108} \\
& + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{99} + x^{95} + x^{93} + x^{92} + x^{91}
\end{aligned}$$

$$\begin{aligned}
& + x^{84} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{72} + x^{71} + x^{69} + x^{68} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{59} + x^{58} + x^{54} + x^{49} + x^{47} + x^{46} + x^{45} + x^{42} \\
& + x^{41} + x^{39} + x^{37} + x^{34} + x^{29} + x^{27} + x^{24} + x^{20} + x^{15} + x^{13} + x^{12} \\
& + x^{11} + x^{10} + x^9 + x^7 + x^5 + x^4 + x^3, \\
p_{12}(x) = & x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{105} + x^{103} \\
& + x^{100} + x^{99} + x^{97} + x^{96} + x^{89} + x^{87} + x^{85} + x^{84} + x^{81} + x^{79} + x^{77} \\
& + x^{76} + x^{69} + x^{67} + x^{64} + x^{63} + x^{61} + x^{60} + x^{53} + x^{51} + x^{48} + x^{47} \\
& + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{35} + x^{33} + x^{32} + x^{25} + x^{23} + x^{21} \\
& + x^{20} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{123} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{104} \\
& + x^{103} + x^{101} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{90} + x^{88} \\
& + x^{86} + x^{84} + x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{70} + x^{68} + x^{67} + x^{64} \\
& + x^{63} + x^{62} + x^{60} + x^{56} + x^{55} + x^{53} + x^{51} + x^{50} + x^{48} + x^{46} + x^{45} \\
& + x^{44} + x^{43} + x^{39} + x^{35} + x^{34} + x^{32} + x^{30} + x^{29} + x^{26} + x^{24}, \\
p_3(x) = & x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} \\
& + x^{112} + x^{111} + x^{109} + x^{107} + x^{104} + x^{99} + x^{98} + x^{96} + x^{94} + x^{91} \\
& + x^{90} + x^{89} + x^{84} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{66} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} \\
& + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} \\
& + x^{43} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} \\
& + x^{26} + x^{25} + x^{24} + x^{19} + x^{18} + x^{16} + x^{14} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{123} + x^{119} + x^{118} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{105} \\
& + x^{104} + x^{102} + x^{100} + x^{99} + x^{96} + x^{92} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} \\
& + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{63} + x^{61} + x^{58} + x^{57} + x^{55} + x^{54} \\
& + x^{49} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} \\
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{16} \\
& + x^{15} + x^{14} + x^{11} + x^9 + x^7 + x^6, \\
p_9(x) = & x^{122} + x^{121} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{111} + x^{110} + x^{108} \\
& + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{99} + x^{95} + x^{93} + x^{92} + x^{91} \\
& + x^{84} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{72} + x^{71} + x^{69} + x^{68} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{59} + x^{58} + x^{54} + x^{49} + x^{47} + x^{46} + x^{45} + x^{42} \\
& + x^{41} + x^{39} + x^{37} + x^{34} + x^{29} + x^{27} + x^{24} + x^{20} + x^{15} + x^{13} + x^{12} \\
& + x^{11} + x^{10} + x^9 + x^7 + x^5 + x^4 + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{105} + x^{103} \\
& + x^{100} + x^{99} + x^{97} + x^{96} + x^{89} + x^{87} + x^{85} + x^{84} + x^{81} + x^{79} + x^{77} \\
& + x^{76} + x^{69} + x^{67} + x^{64} + x^{63} + x^{61} + x^{60} + x^{53} + x^{51} + x^{48} + x^{47} \\
& + x^{45} + x^{44} + x^{41} + x^{39} + x^{36} + x^{35} + x^{33} + x^{32} + x^{25} + x^{23} + x^{21} \\
& + x^{20} + x^{17} + x^{15} + x^{13} + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

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

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

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

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{116} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{104} + x^{103} + x^{102} + x^{101} + x^{97} + x^{96} + x^{92} \\
& + x^{90} + x^{88} + x^{86} + x^{82} + x^{81} + x^{80} + x^{75} + x^{73} + x^{72} + x^{71} + x^{66} \\
& + x^{63} + x^{62} + x^{60} + x^{59} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{49} + x^{46} \\
& + x^{41} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} \\
& + x^{20} + x^{19} + x^{18} + x^{14} + x^{13} + x^{12}, \\
p_3(x) = & x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{114} + x^{110} + x^{108} \\
& + x^{107} + x^{105} + x^{102} + x^{99} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} \\
& + x^{88} + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{75} + x^{74} \\
& + x^{72} + x^{70} + x^{69} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} \\
& + x^{57} + x^{56} + x^{55} + x^{54} + x^{51} + x^{44} + x^{42} + x^{39} + x^{36} + x^{32} + x^{31} \\
& + x^{28} + x^{26} + x^{24} + x^{20} + x^{19} + x^{10} + x^9 + x^8,
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{125} + x^{124} + x^{121} + x^{115} + x^{114} + x^{112} + x^{109} + x^{104} + x^{102} + x^{100} \\
& + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{82} + x^{81} + x^{79} + x^{76} \\
& + x^{74} + x^{72} + x^{70} + x^{67} + x^{65} + x^{63} + x^{62} + x^{59} + x^{57} + x^{54} + x^{53} \\
& + x^{52} + x^{50} + x^{47} + x^{43} + x^{42} + x^{40} + x^{39} + x^{35} + x^{33} + x^{30} + x^{29} \\
& + x^{28} + x^{27} + x^{24} + x^{23} + x^{19} + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 \\
& + x^7 + x^6 + x^5 + x^3 + x + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{125} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{112} + x^{109} + x^{107} \\
& + x^{104} + x^{103} + x^{101} + x^{100} + x^{93} + x^{91} + x^{88} + x^{87} + x^{84} + x^{83} \\
& + x^{81} + x^{80} + x^{69} + x^{67} + x^{65} + x^{64} + x^{53} + x^{51} + x^{49} + x^{48} + x^{45} \\
& + x^{43} + x^{40} + x^{39} + x^{37} + x^{36} + x^{29} + x^{27} + x^{24} + x^{23} + x^{20} + x^{19} \\
& + x^{17} + x^{16} + x^{13} + x^{11} + x^8 + x^7 + x^5 + x^4,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{125} + x^{123} + x^{121} + x^{120} + x^{117} + x^{115} + x^{112} + x^{111} + x^{108} + x^{107} \\
& + x^{105} + x^{104} + x^{101} + x^{99} + x^{97} + x^{96} + x^{93} + x^{91} + x^{89} + x^{88} + x^{85} \\
& + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{65} + x^{63} + x^{61} + x^{60} + x^{49} + x^{47} \\
& + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} + x^{35} + x^{33} + x^{32} + x^{29} + x^{27} + x^{25} \\
& + x^{24} + x^{21} + x^{19} + x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^5 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{124} + x^{121} + x^{120} + x^{118} + x^{117} + x^{116} + x^{113} + x^{112} + x^{110} + x^{109} \\
& + x^{108} + x^{106} + x^{105} + x^{95} + x^{94} + x^{93} + x^{90} + x^{89} + x^{88} + x^{86} + x^{82} \\
& + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{72} + x^{70} + x^{69} + x^{67} + x^{64} + x^{62} \\
& + x^{59} + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{46} + x^{42} + x^{41} + x^{39} + x^{37} \\
& + x^{34} + x^{31} + x^{29} + x^{28} + x^{27} + x^{23} + x^{22} + x^{21} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{117} + x^{116} + x^{114} + x^{111} + x^{110} + x^{108} + x^{107} + x^{106} + x^{101} + x^{99} \\
& + x^{97} + x^{95} + x^{94} + x^{89} + x^{77} + x^{76} + x^{74} + x^{71} + x^{70} + x^{68} + x^{67} \\
& + x^{66} + x^{60} + x^{59} + x^{58} + x^{57} + x^{52} + x^{51} + x^{50} + x^{49} + x^{44} + x^{43} \\
& + x^{42} + x^{41} + x^{36} + x^{35} + x^{34} + x^{33} + x^{28} + x^{27} + x^{26} + x^{25} + x^{21} \\
& + x^{19} + x^{17} + x^{15} + x^{14} + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{118} + x^{116} + x^{114} + x^{110} + x^{104} + x^{102} + x^{100} + x^{96} + x^{92} + x^{90} \\
& + x^{86} + x^{80} + x^{76} + x^{58} + x^{54} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{30} \\
& + x^{28} + x^{26} + x^{24} + x^{22} + x^{16} + x^{14} + x^6,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{119} + x^{118} + x^{117} + x^{114} + x^{107} + x^{105} + x^{104} + x^{99} + x^{87} + x^{86} \\
& + x^{85} + x^{82} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{59} \\
& + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{43} + x^{41} + x^{40} + x^{35} \\
& + x^{23} + x^{22} + x^{21} + x^{18} + x^{11} + x^9 + x^8 + x^3,
\end{aligned}$$

$$p_{12}(x) = x^{120} + x^{112} + x^{108} + x^{104} + x^{96} + x^{88} + x^{80} + x^{76} + x^{60} + x^{44} + x^{40} \\ + x^{32} + x^{24} + x^{16} + x^{12} + x^8 + 1,$$

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

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

$$p_0(x) = x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} + x^{129} + x^{127} + x^{126} \\ + x^{124} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{111} + x^{108} + x^{105} \\ + x^{104} + x^{103} + x^{101} + x^{99} + x^{94} + x^{93} + x^{89} + x^{86} + x^{85} + x^{79} + x^{78} \\ + x^{76} + x^{75} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} \\ + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{46} + x^{43} + x^{41} + x^{40} + x^{38} \\ + x^{37} + x^{35} + x^{33} + x^{31} + x^{30} + x^{28} + x^{26} + x^{25} + x^{24},$$

$$p_3(x) = x^{137} + x^{136} + x^{134} + x^{131} + x^{130} + x^{129} + x^{127} + x^{123} + x^{122} + x^{116} \\ + x^{114} + x^{113} + x^{112} + x^{111} + x^{108} + x^{105} + x^{103} + x^{101} + x^{98} + x^{96} \\ + x^{95} + x^{93} + x^{91} + x^{90} + x^{87} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} \\ + x^{75} + x^{72} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} \\ + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} \\ + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} + x^{37} + x^{36} + x^{32} + x^{30} \\ + x^{29} + x^{28} + x^{23} + x^{21} + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^9,$$

$$p_6(x) = x^{138} + x^{136} + x^{134} + x^{128} + x^{126} + x^{124} + x^{122} + x^{116} + x^{114} + x^{104} \\ + x^{100} + x^{98} + x^{96} + x^{94} + x^{88} + x^{86} + x^{84} + x^{78} + x^{76} + x^{74} + x^{70} \\ + x^{66} + x^{64} + x^{60} + x^{58} + x^{52} + x^{48} + x^{44} + x^{40} + x^{36} + x^{34} + x^{32} \\ + x^{28} + x^{24} + x^{22} + x^{20} + x^{16} + x^{14} + x^{10} + x^6,$$

$$p_9(x) = x^{139} + x^{138} + x^{137} + x^{134} + x^{131} + x^{130} + x^{129} + x^{127} + x^{126} + x^{125} \\ + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{116} + x^{114} + x^{109} + x^{108} \\ + x^{106} + x^{104} + x^{103} + x^{102} + x^{98} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} \\ + x^{87} + x^{86} + x^{84} + x^{83} + x^{81} + x^{79} + x^{78} + x^{75} + x^{73} + x^{72} + x^{70} \\ + x^{68} + x^{65} + x^{63} + x^{62} + x^{58} + x^{56} + x^{52} + x^{51} + x^{50} + x^{45} + x^{44} \\ + x^{42} + x^{40} + x^{39} + x^{38} + x^{34} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} \\ + x^{26} + x^{25} + x^{23} + x^{20} + x^{18} + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^7 + x^3,$$

$$p_{12}(x) = x^{140} + x^{128} + x^{124} + x^{116} + x^{104} + x^{100} + x^{84} + x^{80} + x^{76} + x^{72} \\ + x^{56} + x^{48} + x^{40} + x^{36} + x^{28} + x^{20} + x^{12} + x^8 + x^4 + 1,$$

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

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

$$p_0(x) = x^{126} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{113} + x^{110} + x^{109} \\ + x^{107} + x^{106} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{94} + x^{93} \\ + x^{92} + x^{90} + x^{89} + x^{87} + x^{85} + x^{84} + x^{83} + x^{82} + x^{74} + x^{71} + x^{70}$$

$$\begin{aligned}
& + x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{55} + x^{53} + x^{52} + x^{49} \\
& + x^{46} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30}, \\
p_3(x) = & x^{125} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} \\
& + x^{100} + x^{99} + x^{95} + x^{87} + x^{84} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} \\
& + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{63} + x^{60} + x^{57} + x^{56} + x^{55} \\
& + x^{53} + x^{52} + x^{46} + x^{45} + x^{43} + x^{42} + x^{39} + x^{38} + x^{37} + x^{35} + x^{32} \\
& + x^{31} + x^{30} + x^{29} + x^{26} + x^{25} + x^{24} + x^{23} + x^{19} + x^{17} + x^{16} + x^{15} \\
& + x^{14} + x^{13} + x^{12}, \\
p_6(x) = & x^{125} + x^{124} + x^{123} + x^{118} + x^{113} + x^{110} + x^{108} + x^{107} + x^{104} + x^{99} \\
& + x^{97} + x^{94} + x^{90} + x^{89} + x^{88} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{77} \\
& + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{63} + x^{62} + x^{60} \\
& + x^{59} + x^{58} + x^{57} + x^{53} + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{43} + x^{40} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{29} + x^{28} + x^{26} + x^{22} + x^{16} + x^{15} + x^{14} \\
& + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^7 + x^4 + x^3 + x + 1, \\
p_9(x) = & x^{125} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{112} + x^{109} + x^{107} \\
& + x^{104} + x^{103} + x^{101} + x^{100} + x^{93} + x^{91} + x^{88} + x^{87} + x^{84} + x^{83} \\
& + x^{81} + x^{80} + x^{69} + x^{67} + x^{65} + x^{64} + x^{53} + x^{51} + x^{49} + x^{48} + x^{45} \\
& + x^{43} + x^{40} + x^{39} + x^{37} + x^{36} + x^{29} + x^{27} + x^{24} + x^{23} + x^{20} + x^{19} \\
& + x^{17} + x^{16} + x^{13} + x^{11} + x^8 + x^7 + x^5 + x^4, \\
p_{12}(x) = & x^{125} + x^{123} + x^{121} + x^{120} + x^{117} + x^{115} + x^{112} + x^{111} + x^{108} + x^{107} \\
& + x^{105} + x^{104} + x^{101} + x^{99} + x^{97} + x^{96} + x^{93} + x^{91} + x^{89} + x^{88} + x^{85} \\
& + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{65} + x^{63} + x^{61} + x^{60} + x^{49} + x^{47} \\
& + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} + x^{35} + x^{33} + x^{32} + x^{29} + x^{27} + x^{25} \\
& + x^{24} + x^{21} + x^{19} + x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^5 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{116} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{104} + x^{103} + x^{102} + x^{101} + x^{97} + x^{96} + x^{92} \\
& + x^{90} + x^{88} + x^{86} + x^{82} + x^{81} + x^{80} + x^{75} + x^{73} + x^{72} + x^{71} + x^{66} \\
& + x^{63} + x^{62} + x^{60} + x^{59} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{49} + x^{46} \\
& + x^{41} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} \\
& + x^{20} + x^{19} + x^{18} + x^{14} + x^{13} + x^{12}, \\
p_3(x) = & x^{125} + x^{124} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{114} + x^{110} + x^{108} \\
& + x^{107} + x^{105} + x^{102} + x^{99} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89}
\end{aligned}$$

$$\begin{aligned}
& + x^{88} + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{76} + x^{75} + x^{74} \\
& + x^{72} + x^{70} + x^{69} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} \\
& + x^{57} + x^{56} + x^{55} + x^{54} + x^{51} + x^{44} + x^{42} + x^{39} + x^{36} + x^{32} + x^{31} \\
& + x^{28} + x^{26} + x^{24} + x^{20} + x^{19} + x^{10} + x^9 + x^8, \\
p_6(x) = & x^{125} + x^{124} + x^{121} + x^{115} + x^{114} + x^{112} + x^{109} + x^{104} + x^{102} + x^{100} \\
& + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{82} + x^{81} + x^{79} + x^{76} \\
& + x^{74} + x^{72} + x^{70} + x^{67} + x^{65} + x^{63} + x^{62} + x^{59} + x^{57} + x^{54} + x^{53} \\
& + x^{52} + x^{50} + x^{47} + x^{43} + x^{42} + x^{40} + x^{39} + x^{35} + x^{33} + x^{30} + x^{29} \\
& + x^{28} + x^{27} + x^{24} + x^{23} + x^{19} + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 \\
& + x^7 + x^6 + x^5 + x^3 + x + 1, \\
p_9(x) = & x^{125} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{112} + x^{109} + x^{107} \\
& + x^{104} + x^{103} + x^{101} + x^{100} + x^{93} + x^{91} + x^{88} + x^{87} + x^{84} + x^{83} \\
& + x^{81} + x^{80} + x^{69} + x^{67} + x^{65} + x^{64} + x^{53} + x^{51} + x^{49} + x^{48} + x^{45} \\
& + x^{43} + x^{40} + x^{39} + x^{37} + x^{36} + x^{29} + x^{27} + x^{24} + x^{23} + x^{20} + x^{19} \\
& + x^{17} + x^{16} + x^{13} + x^{11} + x^8 + x^7 + x^5 + x^4, \\
p_{12}(x) = & x^{125} + x^{123} + x^{121} + x^{120} + x^{117} + x^{115} + x^{112} + x^{111} + x^{108} + x^{107} \\
& + x^{105} + x^{104} + x^{101} + x^{99} + x^{97} + x^{96} + x^{93} + x^{91} + x^{89} + x^{88} + x^{85} \\
& + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{65} + x^{63} + x^{61} + x^{60} + x^{49} + x^{47} \\
& + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} + x^{35} + x^{33} + x^{32} + x^{29} + x^{27} + x^{25} \\
& + x^{24} + x^{21} + x^{19} + x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^5 + x^3 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} + x^{129} + x^{127} + x^{126} \\
& + x^{124} + x^{119} + x^{117} + x^{116} + x^{115} + x^{112} + x^{111} + x^{108} + x^{105} \\
& + x^{104} + x^{103} + x^{101} + x^{99} + x^{94} + x^{93} + x^{89} + x^{86} + x^{85} + x^{79} + x^{78} \\
& + x^{76} + x^{75} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} \\
& + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{46} + x^{43} + x^{41} + x^{40} + x^{38} \\
& + x^{37} + x^{35} + x^{33} + x^{31} + x^{30} + x^{28} + x^{26} + x^{25} + x^{24}, \\
p_3(x) = & x^{137} + x^{136} + x^{134} + x^{131} + x^{130} + x^{129} + x^{127} + x^{123} + x^{122} + x^{116} \\
& + x^{114} + x^{113} + x^{112} + x^{111} + x^{108} + x^{105} + x^{103} + x^{101} + x^{98} + x^{96} \\
& + x^{95} + x^{93} + x^{91} + x^{90} + x^{87} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} \\
& + x^{75} + x^{72} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} \\
& + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} \\
& + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} + x^{37} + x^{36} + x^{32} + x^{30} \\
& + x^{29} + x^{28} + x^{23} + x^{21} + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{138} + x^{136} + x^{134} + x^{128} + x^{126} + x^{124} + x^{122} + x^{116} + x^{114} + x^{104} \\
&\quad + x^{100} + x^{98} + x^{96} + x^{94} + x^{88} + x^{86} + x^{84} + x^{78} + x^{76} + x^{74} + x^{70} \\
&\quad + x^{66} + x^{64} + x^{60} + x^{58} + x^{52} + x^{48} + x^{44} + x^{40} + x^{36} + x^{34} + x^{32} \\
&\quad + x^{28} + x^{24} + x^{22} + x^{20} + x^{16} + x^{14} + x^{10} + x^6, \\
p_9(x) &= x^{139} + x^{138} + x^{137} + x^{134} + x^{131} + x^{130} + x^{129} + x^{127} + x^{126} + x^{125} \\
&\quad + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{116} + x^{114} + x^{109} + x^{108} \\
&\quad + x^{106} + x^{104} + x^{103} + x^{102} + x^{98} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} \\
&\quad + x^{87} + x^{86} + x^{84} + x^{83} + x^{81} + x^{79} + x^{78} + x^{75} + x^{73} + x^{72} + x^{70} \\
&\quad + x^{68} + x^{65} + x^{63} + x^{62} + x^{58} + x^{56} + x^{52} + x^{51} + x^{50} + x^{45} + x^{44} \\
&\quad + x^{42} + x^{40} + x^{39} + x^{38} + x^{34} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} \\
&\quad + x^{26} + x^{25} + x^{23} + x^{20} + x^{18} + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^7 + x^3, \\
p_{12}(x) &= x^{140} + x^{128} + x^{124} + x^{116} + x^{104} + x^{100} + x^{84} + x^{80} + x^{76} + x^{72} \\
&\quad + x^{56} + x^{48} + x^{40} + x^{36} + x^{28} + x^{20} + x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{120} + x^{118} + x^{117} + x^{116} + x^{113} + x^{112} + x^{110} + x^{109} \\
&\quad + x^{108} + x^{106} + x^{105} + x^{95} + x^{94} + x^{93} + x^{90} + x^{89} + x^{88} + x^{86} + x^{82} \\
&\quad + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{72} + x^{70} + x^{69} + x^{67} + x^{64} + x^{62} \\
&\quad + x^{59} + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{46} + x^{42} + x^{41} + x^{39} + x^{37} \\
&\quad + x^{34} + x^{31} + x^{29} + x^{28} + x^{27} + x^{23} + x^{22} + x^{21} + x^{18}, \\
p_3(x) &= x^{117} + x^{116} + x^{114} + x^{111} + x^{110} + x^{108} + x^{107} + x^{106} + x^{101} + x^{99} \\
&\quad + x^{97} + x^{95} + x^{94} + x^{89} + x^{77} + x^{76} + x^{74} + x^{71} + x^{70} + x^{68} + x^{67} \\
&\quad + x^{66} + x^{60} + x^{59} + x^{58} + x^{57} + x^{52} + x^{51} + x^{50} + x^{49} + x^{44} + x^{43} \\
&\quad + x^{42} + x^{41} + x^{36} + x^{35} + x^{34} + x^{33} + x^{28} + x^{27} + x^{26} + x^{25} + x^{21} \\
&\quad + x^{19} + x^{17} + x^{15} + x^{14} + x^9, \\
p_6(x) &= x^{118} + x^{116} + x^{114} + x^{110} + x^{104} + x^{102} + x^{100} + x^{96} + x^{92} + x^{90} \\
&\quad + x^{86} + x^{80} + x^{76} + x^{58} + x^{54} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{30} \\
&\quad + x^{28} + x^{26} + x^{24} + x^{22} + x^{16} + x^{14} + x^6, \\
p_9(x) &= x^{119} + x^{118} + x^{117} + x^{114} + x^{107} + x^{105} + x^{104} + x^{99} + x^{87} + x^{86} \\
&\quad + x^{85} + x^{82} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{59} \\
&\quad + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{43} + x^{41} + x^{40} + x^{35} \\
&\quad + x^{23} + x^{22} + x^{21} + x^{18} + x^{11} + x^9 + x^8 + x^3, \\
p_{12}(x) &= x^{120} + x^{112} + x^{108} + x^{104} + x^{96} + x^{88} + x^{80} + x^{76} + x^{60} + x^{44} + x^{40} \\
&\quad + x^{32} + x^{24} + x^{16} + x^{12} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{113} + x^{110} + x^{109} \\
&\quad + x^{107} + x^{106} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{94} + x^{93} \\
&\quad + x^{92} + x^{90} + x^{89} + x^{87} + x^{85} + x^{84} + x^{83} + x^{82} + x^{74} + x^{71} + x^{70} \\
&\quad + x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{55} + x^{53} + x^{52} + x^{49} \\
&\quad + x^{46} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30}, \\
p_3(x) &= x^{125} + x^{124} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} \\
&\quad + x^{111} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} \\
&\quad + x^{100} + x^{99} + x^{95} + x^{87} + x^{84} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} \\
&\quad + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{63} + x^{60} + x^{57} + x^{56} + x^{55} \\
&\quad + x^{53} + x^{52} + x^{46} + x^{45} + x^{43} + x^{42} + x^{39} + x^{38} + x^{37} + x^{35} + x^{32} \\
&\quad + x^{31} + x^{30} + x^{29} + x^{26} + x^{25} + x^{24} + x^{23} + x^{19} + x^{17} + x^{16} + x^{15} \\
&\quad + x^{14} + x^{13} + x^{12}, \\
p_6(x) &= x^{125} + x^{124} + x^{123} + x^{118} + x^{113} + x^{110} + x^{108} + x^{107} + x^{104} + x^{99} \\
&\quad + x^{97} + x^{94} + x^{90} + x^{89} + x^{88} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{77} \\
&\quad + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{63} + x^{62} + x^{60} \\
&\quad + x^{59} + x^{58} + x^{57} + x^{53} + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{43} + x^{40} \\
&\quad + x^{39} + x^{38} + x^{37} + x^{36} + x^{29} + x^{28} + x^{26} + x^{22} + x^{16} + x^{15} + x^{14} \\
&\quad + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^7 + x^4 + x^3 + x + 1, \\
p_9(x) &= x^{125} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{112} + x^{109} + x^{107} \\
&\quad + x^{104} + x^{103} + x^{101} + x^{100} + x^{93} + x^{91} + x^{88} + x^{87} + x^{84} + x^{83} \\
&\quad + x^{81} + x^{80} + x^{69} + x^{67} + x^{65} + x^{64} + x^{53} + x^{51} + x^{49} + x^{48} + x^{45} \\
&\quad + x^{43} + x^{40} + x^{39} + x^{37} + x^{36} + x^{29} + x^{27} + x^{24} + x^{23} + x^{20} + x^{19} \\
&\quad + x^{17} + x^{16} + x^{13} + x^{11} + x^8 + x^7 + x^5 + x^4, \\
p_{12}(x) &= x^{125} + x^{123} + x^{121} + x^{120} + x^{117} + x^{115} + x^{112} + x^{111} + x^{108} + x^{107} \\
&\quad + x^{105} + x^{104} + x^{101} + x^{99} + x^{97} + x^{96} + x^{93} + x^{91} + x^{89} + x^{88} + x^{85} \\
&\quad + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{65} + x^{63} + x^{61} + x^{60} + x^{49} + x^{47} \\
&\quad + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} + x^{35} + x^{33} + x^{32} + x^{29} + x^{27} + x^{25} \\
&\quad + x^{24} + x^{21} + x^{19} + x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^5 + x^3 + x + 1,
\end{aligned}$$

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

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	[1297, 3317]	4098	[4473, 1787]	6147	[7000, 4607]
1	[3, 4]	2050	[1090, 3318]	4099	[1740, 1775]	6148	[7001, 2087]

2	[5, 6]	2051	[3319, 3320]	4100	[5453, 5358]	6149	[7002, 1797]
3	[7, 8]	2052	[3321, 2879]	4101	[5454, 889]	6150	[5200, 2365]
4	[9, 10]	2053	[3322, 3015]	4102	[5455, 1713]	6151	[7003, 4668]
5	[11, 12]	2054	[3323, 3324]	4103	[5456, 2572]	6152	[4316, 2418]
6	[13, 14]	2055	[3325, 2886]	4104	[4818, 692]	6153	[7004, 2687]
7	[15, 16]	2056	[3326, 101]	4105	[5457, 2218]	6154	[7005, 4638]
8	[17, 18]	2057	[3327, 1284]	4106	[518, 2777]	6155	[2578, 4988]
9	[19, 20]	2058	[3328, 3329]	4107	[5458, 4574]	6156	[2201, 5026]
10	[21, 22]	2059	[3330, 3331]	4108	[2651, 2075]	6157	[7006, 1888]
11	[23, 24]	2060	[456, 3332]	4109	[5459, 5460]	6158	[7007, 1865]
12	[25, 26]	2061	[3174, 1390]	4110	[5461, 2714]	6159	[5256, 152]
13	[27, 28]	2062	[3333, 3334]	4111	[2085, 2512]	6160	[7008, 2392]
14	[29, 30]	2063	[471, 3335]	4112	[630, 2184]	6161	[7009, 7010]
15	[31, 32]	2064	[3336, 3337]	4113	[5462, 4585]	6162	[5326, 7011]
16	[33, 34]	2065	[3338, 1331]	4114	[5463, 2322]	6163	[7012, 5101]
17	[35, 36]	2066	[3281, 3339]	4115	[5464, 5465]	6164	[7013, 5460]
18	[37, 38]	2067	[3340, 3341]	4116	[5466, 5467]	6165	[4282, 6813]
19	[39, 40]	2068	[3342, 1687]	4117	[5468, 5134]	6166	[4829, 4418]
20	[41, 42]	2069	[3343, 407]	4118	[5469, 5470]	6167	[6880, 5236]
21	[43, 44]	2070	[3344, 287]	4119	[5471, 2461]	6168	[7014, 4966]
22	[45, 46]	2071	[452, 3345]	4120	[5472, 1737]	6169	[2109, 604]
23	[47, 48]	2072	[3346, 3347]	4121	[5473, 490]	6170	[7015, 138]
24	[49, 50]	2073	[3348, 1346]	4122	[5474, 5475]	6171	[7016, 1702]
25	[51, 52]	2074	[3349, 3350]	4123	[2548, 4833]	6172	[7017, 5328]
26	[53, 54]	2075	[3351, 3352]	4124	[5476, 4385]	6173	[7018, 2239]
27	[55, 56]	2076	[3353, 1646]	4125	[5477, 5229]	6174	[7019, 1875]
28	[57, 58]	2077	[1655, 1411]	4126	[5478, 4868]	6175	[5486, 7020]
29	[59, 60]	2078	[1152, 1002]	4127	[5479, 2041]	6176	[7021, 7022]
30	[61, 62]	2079	[3354, 332]	4128	[5480, 597]	6177	[5234, 2363]
31	[63, 64]	2080	[3355, 3032]	4129	[2777, 895]	6178	[222, 5502]
32	[65, 66]	2081	[3356, 3357]	4130	[588, 4407]	6179	[7023, 2718]
33	[67, 68]	2082	[3358, 1181]	4131	[5481, 5482]	6180	[5508, 619]
34	[69, 70]	2083	[1054, 381]	4132	[5483, 1900]	6181	[4848, 7024]
35	[71, 72]	2084	[1324, 3359]	4133	[5484, 2234]	6182	[7025, 1761]
36	[73, 74]	2085	[3360, 3189]	4134	[5485, 5486]	6183	[7026, 4783]
37	[75, 76]	2086	[3275, 3361]	4135	[5487, 2376]	6184	[6801, 1963]
38	[77, 78]	2087	[3362, 1171]	4136	[5488, 769]	6185	[5387, 5465]
39	[79, 80]	2088	[255, 3363]	4137	[5489, 4481]	6186	[7027, 6596]
40	[81, 82]	2089	[3364, 3365]	4138	[5490, 2728]	6187	[7028, 4435]
41	[83, 84]	2090	[3366, 3367]	4139	[912, 506]	6188	[487, 677]
42	[85, 86]	2091	[3368, 1258]	4140	[5491, 150]	6189	[7029, 7030]
43	[87, 88]	2092	[3369, 1490]	4141	[5492, 2630]	6190	[7031, 2640]
44	[89, 90]	2093	[3370, 3371]	4142	[5493, 2145]	6191	[7032, 5231]
45	[91, 92]	2094	[3372, 3037]	4143	[5494, 5331]	6192	[7033, 6976]

46	[93, 94]	2095	[3373, 3014]	4144	[5495, 2055]	6193	[7034, 2107]
47	[95, 96]	2096	[3374, 1303]	4145	[5011, 1711]	6194	[7035, 4614]
48	[97, 98]	2097	[3375, 3376]	4146	[5496, 4531]	6195	[7036, 6991]
49	[99, 100]	2098	[3377, 3272]	4147	[5497, 4540]	6196	[7037, 1987]
50	[101, 102]	2099	[3378, 412]	4148	[5498, 2021]	6197	[5328, 2295]
51	[103, 104]	2100	[3379, 3380]	4149	[5499, 5500]	6198	[7038, 1876]
52	[105, 106]	2101	[3381, 3382]	4150	[2415, 5501]	6199	[7039, 2258]
53	[107, 108]	2102	[2841, 3383]	4151	[5116, 804]	6200	[7040, 571]
54	[109, 110]	2103	[3384, 3385]	4152	[5502, 5314]	6201	[558, 2407]
55	[74, 111]	2104	[3386, 3387]	4153	[2714, 5229]	6202	[2250, 6724]
56	[112, 113]	2105	[3334, 3388]	4154	[5503, 4225]	6203	[7041, 7042]
57	[114, 115]	2106	[3389, 432]	4155	[5504, 735]	6204	[7043, 4857]
58	[116, 117]	2107	[3390, 3391]	4156	[5505, 2056]	6205	[7044, 2365]
59	[118, 119]	2108	[3392, 3273]	4157	[5506, 869]	6206	[5475, 525]
60	[120, 76]	2109	[3341, 260]	4158	[5507, 5508]	6207	[7045, 154]
61	[121, 122]	2110	[1519, 1616]	4159	[5509, 5142]	6208	[4952, 2486]
62	[123, 124]	2111	[3393, 3394]	4160	[5510, 1941]	6209	[4658, 2527]
63	[125, 126]	2112	[3395, 3396]	4161	[5511, 2645]	6210	[7046, 49]
64	[127, 128]	2113	[1619, 1502]	4162	[4744, 5512]	6211	[2586, 840]
65	[129, 130]	2114	[3397, 3398]	4163	[845, 5513]	6212	[7047, 4684]
66	[131, 132]	2115	[3399, 3400]	4164	[5514, 4784]	6213	[7048, 2395]
67	[133, 61]	2116	[3401, 3357]	4165	[5515, 4575]	6214	[7049, 2090]
68	[134, 135]	2117	[3402, 3403]	4166	[5516, 5517]	6215	[2435, 4243]
69	[136, 137]	2118	[271, 3006]	4167	[228, 868]	6216	[2336, 2024]
70	[138, 139]	2119	[3404, 3405]	4168	[1916, 4593]	6217	[7050, 2281]
71	[140, 141]	2120	[3137, 3327]	4169	[5518, 4438]	6218	[7051, 4446]
72	[142, 143]	2121	[3406, 3407]	4170	[5519, 2752]	6219	[7052, 2226]
73	[144, 145]	2122	[3408, 1057]	4171	[2753, 5363]	6220	[7053, 1826]
74	[146, 147]	2123	[3409, 3410]	4172	[5520, 2083]	6221	[7054, 4740]
75	[148, 149]	2124	[3411, 3412]	4173	[5521, 5522]	6222	[7055, 4870]
76	[150, 151]	2125	[3413, 1138]	4174	[5523, 2466]	6223	[4753, 533]
77	[152, 153]	2126	[3414, 1401]	4175	[5524, 4268]	6224	[7056, 7057]
78	[154, 155]	2127	[1299, 3274]	4176	[5525, 2803]	6225	[7058, 7059]
79	[156, 157]	2128	[3415, 3416]	4177	[5482, 2133]	6226	[7060, 887]
80	[158, 159]	2129	[1671, 3417]	4178	[862, 1801]	6227	[6768, 2823]
81	[160, 161]	2130	[3418, 1500]	4179	[5526, 750]	6228	[1836, 7061]
82	[162, 163]	2131	[3419, 3420]	4180	[5527, 2211]	6229	[4769, 2605]
83	[164, 165]	2132	[3421, 2988]	4181	[5178, 4268]	6230	[7062, 6634]
84	[166, 167]	2133	[3422, 3423]	4182	[2073, 714]	6231	[7063, 2419]
85	[168, 169]	2134	[3424, 3425]	4183	[4929, 545]	6232	[2351, 4977]
86	[170, 171]	2135	[3426, 248]	4184	[5528, 4413]	6233	[7064, 863]
87	[172, 173]	2136	[3427, 3428]	4185	[5529, 2386]	6234	[7065, 5376]
88	[174, 175]	2137	[3429, 3430]	4186	[2221, 1823]	6235	[4962, 6980]
89	[176, 177]	2138	[1438, 2938]	4187	[5530, 5531]	6236	[7066, 7067]

90	[178, 179]	2139	[1440, 3431]	4188	[5532, 772]	6237	[1905, 1721]
91	[180, 181]	2140	[3161, 3432]	4189	[2808, 5175]	6238	[2281, 2602]
92	[182, 183]	2141	[3165, 3433]	4190	[2720, 4529]	6239	[7068, 5216]
93	[184, 185]	2142	[3434, 1293]	4191	[5533, 661]	6240	[7069, 4886]
94	[186, 187]	2143	[3435, 3436]	4192	[5534, 2449]	6241	[7070, 1990]
95	[188, 189]	2144	[1542, 3437]	4193	[5535, 591]	6242	[7071, 2178]
96	[190, 191]	2145	[3438, 3439]	4194	[5536, 4594]	6243	[4321, 2236]
97	[192, 193]	2146	[1363, 3360]	4195	[5537, 2505]	6244	[7072, 670]
98	[194, 195]	2147	[341, 411]	4196	[197, 4853]	6245	[7073, 5071]
99	[196, 197]	2148	[3440, 3061]	4197	[5538, 5539]	6246	[7074, 4881]
100	[198, 199]	2149	[3441, 3442]	4198	[693, 5540]	6247	[7075, 4934]
101	[200, 201]	2150	[3443, 3444]	4199	[5541, 5542]	6248	[2470, 6807]
102	[202, 203]	2151	[3445, 3446]	4200	[2355, 2228]	6249	[7076, 225]
103	[204, 205]	2152	[3447, 322]	4201	[2330, 5543]	6250	[7077, 2748]
104	[206, 207]	2153	[1692, 3292]	4202	[5544, 2531]	6251	[1706, 166]
105	[208, 209]	2154	[2966, 3448]	4203	[641, 5210]	6252	[2518, 5120]
106	[210, 211]	2155	[3449, 3450]	4204	[5545, 1866]	6253	[7078, 5360]
107	[161, 212]	2156	[3451, 3452]	4205	[205, 237]	6254	[7079, 2612]
108	[213, 214]	2157	[3350, 3453]	4206	[5546, 4241]	6255	[7080, 5368]
109	[215, 216]	2158	[3454, 1248]	4207	[883, 2465]	6256	[7081, 4541]
110	[217, 218]	2159	[3455, 71]	4208	[5059, 5547]	6257	[7082, 5519]
111	[219, 220]	2160	[3456, 3457]	4209	[4413, 5362]	6258	[2726, 655]
112	[221, 222]	2161	[3458, 3459]	4210	[5548, 2158]	6259	[7083, 4745]
113	[223, 224]	2162	[3460, 3461]	4211	[5549, 530]	6260	[4833, 4854]
114	[225, 226]	2163	[3462, 113]	4212	[5550, 549]	6261	[7084, 5137]
115	[227, 228]	2164	[3463, 3464]	4213	[5551, 2478]	6262	[7085, 5056]
116	[229, 230]	2165	[1371, 3465]	4214	[2326, 5552]	6263	[7086, 2609]
117	[231, 232]	2166	[3466, 3467]	4215	[5553, 4392]	6264	[6915, 138]
118	[14, 233]	2167	[3039, 3468]	4216	[5554, 3702]	6265	[7087, 4459]
119	[234, 235]	2168	[1098, 1383]	4217	[4135, 5555]	6266	[4881, 697]
120	[236, 237]	2169	[3149, 3469]	4218	[2894, 3793]	6267	[5088, 2314]
121	[238, 239]	2170	[3470, 3471]	4219	[5556, 5557]	6268	[7088, 7089]
122	[240, 241]	2171	[481, 3472]	4220	[5558, 5559]	6269	[7089, 5008]
123	[242, 243]	2172	[3473, 3425]	4221	[5560, 1213]	6270	[4726, 4476]
124	[244, 245]	2173	[3474, 316]	4222	[3324, 1381]	6271	[7090, 2706]
125	[246, 247]	2174	[3475, 1087]	4223	[5561, 1266]	6272	[2145, 7091]
126	[248, 249]	2175	[3476, 1577]	4224	[5562, 1512]	6273	[7092, 7093]
127	[250, 251]	2176	[3477, 3478]	4225	[3543, 5563]	6274	[1928, 7094]
128	[252, 253]	2177	[3479, 3480]	4226	[5564, 5561]	6275	[7095, 2707]
129	[254, 255]	2178	[3481, 3482]	4227	[3331, 1409]	6276	[4964, 6857]
130	[256, 257]	2179	[1558, 3483]	4228	[3317, 3084]	6277	[2120, 2056]
131	[258, 259]	2180	[3484, 3485]	4229	[5565, 1204]	6278	[4333, 4258]
132	[260, 261]	2181	[3486, 1057]	4230	[3286, 393]	6279	[2038, 4837]
133	[262, 263]	2182	[3487, 3488]	4231	[5566, 3197]	6280	[7096, 2125]

134	[264, 265]	2183	[2871, 3489]	4232	[2887, 5567]	6281	[7097, 4407]
135	[266, 267]	2184	[24, 3062]	4233	[5568, 5569]	6282	[7098, 5080]
136	[268, 269]	2185	[3490, 3491]	4234	[3584, 3474]	6283	[5417, 4465]
137	[270, 271]	2186	[3492, 462]	4235	[5570, 63]	6284	[7099, 2180]
138	[272, 273]	2187	[3493, 3494]	4236	[5571, 4006]	6285	[594, 6676]
139	[274, 275]	2188	[3495, 1215]	4237	[5572, 5573]	6286	[5354, 2152]
140	[276, 277]	2189	[3496, 1246]	4238	[5574, 979]	6287	[6735, 1762]
141	[278, 279]	2190	[3497, 3498]	4239	[3787, 3507]	6288	[2252, 4680]
142	[280, 281]	2191	[1349, 3499]	4240	[5575, 2953]	6289	[5009, 5085]
143	[282, 283]	2192	[3500, 3501]	4241	[5576, 5577]	6290	[722, 1894]
144	[284, 285]	2193	[3502, 3503]	4242	[5578, 3327]	6291	[7020, 5219]
145	[286, 287]	2194	[3504, 252]	4243	[5579, 3476]	6292	[7100, 4942]
146	[288, 289]	2195	[267, 1171]	4244	[5580, 391]	6293	[7101, 558]
147	[290, 291]	2196	[1270, 3505]	4245	[1020, 5581]	6294	[5322, 2092]
148	[292, 293]	2197	[3506, 3507]	4246	[5582, 1003]	6295	[4631, 727]
149	[294, 295]	2198	[3508, 3509]	4247	[2853, 3299]	6296	[4343, 7102]
150	[296, 297]	2199	[3510, 3511]	4248	[5583, 3605]	6297	[7103, 5024]
151	[298, 299]	2200	[3512, 3223]	4249	[3802, 5584]	6298	[2732, 7104]
152	[300, 301]	2201	[3513, 3514]	4250	[5585, 2853]	6299	[7105, 6681]
153	[302, 303]	2202	[3515, 3371]	4251	[5586, 3190]	6300	[2019, 4947]
154	[304, 305]	2203	[3516, 3517]	4252	[5587, 2891]	6301	[5531, 202]
155	[306, 307]	2204	[3518, 2869]	4253	[5588, 3956]	6302	[7106, 5502]
156	[308, 309]	2205	[3519, 1391]	4254	[5589, 290]	6303	[6798, 548]
157	[310, 311]	2206	[3520, 3521]	4255	[3579, 104]	6304	[7057, 7107]
158	[312, 313]	2207	[1451, 1027]	4256	[425, 3239]	6305	[7108, 5076]
159	[314, 315]	2208	[3522, 3523]	4257	[479, 5590]	6306	[2305, 7109]
160	[316, 317]	2209	[3524, 3525]	4258	[5591, 1224]	6307	[7110, 2595]
161	[318, 319]	2210	[3526, 966]	4259	[5592, 418]	6308	[7111, 6855]
162	[320, 321]	2211	[3527, 3528]	4260	[5593, 3001]	6309	[808, 2824]
163	[322, 323]	2212	[3529, 3530]	4261	[1176, 5594]	6310	[902, 4566]
164	[324, 325]	2213	[3531, 1577]	4262	[5595, 3060]	6311	[7112, 2764]
165	[326, 327]	2214	[427, 2980]	4263	[5596, 1432]	6312	[7113, 5354]
166	[328, 329]	2215	[1242, 3532]	4264	[5597, 3000]	6313	[7114, 4267]
167	[330, 331]	2216	[3533, 3534]	4265	[5598, 5599]	6314	[7115, 6980]
168	[332, 333]	2217	[3535, 1600]	4266	[3262, 5600]	6315	[4598, 4862]
169	[334, 335]	2218	[119, 3536]	4267	[5601, 5602]	6316	[7116, 5432]
170	[336, 337]	2219	[3537, 3538]	4268	[3989, 1356]	6317	[2740, 639]
171	[338, 339]	2220	[3539, 1189]	4269	[5603, 3833]	6318	[7117, 5200]
172	[340, 341]	2221	[1077, 3540]	4270	[5604, 5605]	6319	[1965, 787]
173	[342, 343]	2222	[1065, 3541]	4271	[5606, 5607]	6320	[7118, 1898]
174	[344, 345]	2223	[3542, 3543]	4272	[5608, 5609]	6321	[7119, 2639]
175	[346, 347]	2224	[3544, 3545]	4273	[5610, 1258]	6322	[2798, 6958]
176	[348, 349]	2225	[3546, 3010]	4274	[1513, 3560]	6323	[5081, 4299]
177	[350, 351]	2226	[3547, 3548]	4275	[5611, 5612]	6324	[6711, 2736]

178	[352, 353]	2227	[3549, 93]	4276	[5613, 3325]	6325	[7120, 501]
179	[354, 355]	2228	[3550, 3551]	4277	[5614, 3776]	6326	[6881, 4601]
180	[356, 357]	2229	[3552, 996]	4278	[5615, 973]	6327	[2679, 4609]
181	[358, 359]	2230	[3553, 3554]	4279	[5616, 3018]	6328	[7121, 5492]
182	[360, 361]	2231	[1009, 3043]	4280	[3417, 5617]	6329	[676, 887]
183	[362, 363]	2232	[1147, 3555]	4281	[5618, 5619]	6330	[1850, 5240]
184	[364, 365]	2233	[3525, 3556]	4282	[5620, 1418]	6331	[4588, 2148]
185	[366, 367]	2234	[86, 3557]	4283	[5621, 3016]	6332	[7122, 2602]
186	[368, 369]	2235	[1265, 3558]	4284	[3981, 3320]	6333	[7107, 844]
187	[370, 371]	2236	[3559, 3560]	4285	[5622, 4029]	6334	[4352, 4623]
188	[372, 373]	2237	[3561, 71]	4286	[4007, 5623]	6335	[5144, 4812]
189	[374, 375]	2238	[3562, 2841]	4287	[1232, 5624]	6336	[7123, 7124]
190	[376, 377]	2239	[3563, 3564]	4288	[5625, 5626]	6337	[7125, 2295]
191	[18, 378]	2240	[3565, 1260]	4289	[5627, 438]	6338	[4667, 7126]
192	[379, 380]	2241	[3566, 3567]	4290	[5628, 3141]	6339	[7030, 863]
193	[381, 382]	2242	[3568, 3569]	4291	[4183, 278]	6340	[7127, 1972]
194	[383, 384]	2243	[3570, 3571]	4292	[5629, 1481]	6341	[7128, 7129]
195	[385, 386]	2244	[3572, 3573]	4293	[5630, 3401]	6342	[4956, 2447]
196	[387, 388]	2245	[3574, 983]	4294	[3626, 955]	6343	[4235, 6674]
197	[389, 390]	2246	[3575, 3576]	4295	[5631, 1433]	6344	[4616, 699]
198	[391, 392]	2247	[1380, 3577]	4296	[5632, 5633]	6345	[7130, 5363]
199	[393, 394]	2248	[3578, 3579]	4297	[2907, 2843]	6346	[4269, 4663]
200	[395, 396]	2249	[1410, 3401]	4298	[5607, 295]	6347	[7131, 609]
201	[397, 398]	2250	[2964, 1038]	4299	[5634, 5635]	6348	[7132, 658]
202	[399, 400]	2251	[1145, 3486]	4300	[5636, 2981]	6349	[4578, 4305]
203	[401, 402]	2252	[3580, 968]	4301	[5637, 1420]	6350	[7133, 6922]
204	[403, 404]	2253	[3581, 3316]	4302	[5638, 4104]	6351	[4653, 7134]
205	[405, 406]	2254	[3582, 3583]	4303	[5639, 3909]	6352	[7135, 2391]
206	[407, 408]	2255	[1230, 3584]	4304	[5640, 5641]	6353	[4596, 5420]
207	[409, 410]	2256	[1664, 1643]	4305	[5642, 5643]	6354	[7136, 2621]
208	[411, 412]	2257	[3585, 1130]	4306	[3437, 1414]	6355	[7137, 125]
209	[413, 414]	2258	[3586, 3587]	4307	[5644, 5645]	6356	[7138, 4954]
210	[415, 416]	2259	[3234, 3588]	4308	[5646, 3829]	6357	[659, 2818]
211	[417, 418]	2260	[3589, 3590]	4309	[5647, 1049]	6358	[7139, 7116]
212	[419, 420]	2261	[3591, 3592]	4310	[1052, 1493]	6359	[7102, 597]
213	[421, 422]	2262	[3177, 2940]	4311	[3583, 304]	6360	[6922, 1778]
214	[313, 423]	2263	[1433, 3593]	4312	[3764, 1142]	6361	[7140, 525]
215	[424, 425]	2264	[1043, 3594]	4313	[5648, 964]	6362	[2605, 5467]
216	[426, 427]	2265	[2861, 3595]	4314	[295, 5649]	6363	[7141, 2560]
217	[428, 429]	2266	[3596, 3597]	4315	[5650, 3313]	6364	[7142, 4415]
218	[430, 431]	2267	[3598, 3599]	4316	[3013, 5651]	6365	[2661, 4380]
219	[432, 433]	2268	[3600, 1182]	4317	[5652, 1008]	6366	[833, 2778]
220	[434, 435]	2269	[3219, 3424]	4318	[5653, 1519]	6367	[4684, 5522]
221	[436, 437]	2270	[2847, 3601]	4319	[5654, 1105]	6368	[7143, 165]

222	[420, 438]	2271	[3602, 3565]	4320	[5655, 3187]	6369	[7144, 152]
223	[439, 440]	2272	[3603, 3604]	4321	[5656, 3847]	6370	[7145, 580]
224	[441, 442]	2273	[3605, 3606]	4322	[1486, 941]	6371	[7146, 2026]
225	[443, 444]	2274	[3607, 3009]	4323	[5657, 4070]	6372	[2004, 125]
226	[445, 446]	2275	[3608, 3465]	4324	[1101, 3058]	6373	[7147, 838]
227	[447, 448]	2276	[3609, 3610]	4325	[5658, 3814]	6374	[7148, 4978]
228	[449, 450]	2277	[3611, 3612]	4326	[5659, 5660]	6375	[1889, 1991]
229	[451, 452]	2278	[305, 3613]	4327	[5661, 3339]	6376	[772, 1952]
230	[453, 454]	2279	[307, 3614]	4328	[3210, 3211]	6377	[854, 704]
231	[455, 456]	2280	[3615, 1004]	4329	[5662, 1101]	6378	[7149, 2225]
232	[457, 458]	2281	[3616, 3617]	4330	[1423, 5663]	6379	[7150, 5059]
233	[28, 459]	2282	[1240, 3533]	4331	[5664, 3445]	6380	[5366, 2067]
234	[460, 461]	2283	[1328, 3618]	4332	[1562, 5591]	6381	[7151, 1934]
235	[462, 463]	2284	[3619, 267]	4333	[5584, 3861]	6382	[7152, 1728]
236	[464, 465]	2285	[3620, 397]	4334	[3365, 5665]	6383	[7153, 589]
237	[466, 467]	2286	[3621, 469]	4335	[3806, 1231]	6384	[7154, 2350]
238	[468, 469]	2287	[3622, 3623]	4336	[5666, 3634]	6385	[2053, 5470]
239	[470, 471]	2288	[3382, 3624]	4337	[5667, 3423]	6386	[891, 6772]
240	[472, 473]	2289	[3625, 3626]	4338	[1139, 3301]	6387	[904, 4719]
241	[474, 475]	2290	[3627, 1337]	4339	[3471, 5668]	6388	[7155, 6597]
242	[476, 477]	2291	[3628, 3629]	4340	[5643, 2942]	6389	[1854, 914]
243	[478, 479]	2292	[3630, 3631]	4341	[5669, 4114]	6390	[7156, 1751]
244	[480, 481]	2293	[3632, 3633]	4342	[3485, 1499]	6391	[7157, 5297]
245	[482, 483]	2294	[3634, 3635]	4343	[1267, 2877]	6392	[7158, 5019]
246	[484, 485]	2295	[3636, 474]	4344	[3159, 3428]	6393	[7159, 4826]
247	[486, 487]	2296	[3637, 3638]	4345	[5670, 1429]	6394	[7160, 7161]
248	[488, 489]	2297	[3639, 3640]	4346	[5671, 5672]	6395	[4763, 5308]
249	[490, 491]	2298	[3641, 3642]	4347	[301, 5673]	6396	[7162, 2635]
250	[492, 493]	2299	[3643, 3644]	4348	[5674, 972]	6397	[4496, 2798]
251	[494, 495]	2300	[3645, 3646]	4349	[2836, 4048]	6398	[4983, 4395]
252	[496, 497]	2301	[3647, 3648]	4350	[5675, 2931]	6399	[7163, 7070]
253	[498, 180]	2302	[3649, 3650]	4351	[5676, 1324]	6400	[7164, 6578]
254	[499, 500]	2303	[3651, 3652]	4352	[5677, 5660]	6401	[661, 4699]
255	[183, 501]	2304	[1102, 404]	4353	[5678, 3593]	6402	[7165, 4227]
256	[502, 503]	2305	[3652, 1429]	4354	[1588, 4019]	6403	[2087, 617]
257	[504, 207]	2306	[3653, 2883]	4355	[3910, 3953]	6404	[921, 652]
258	[505, 506]	2307	[382, 21]	4356	[3184, 3249]	6405	[7124, 828]
259	[507, 508]	2308	[3654, 2969]	4357	[3695, 3312]	6406	[7166, 2763]
260	[509, 510]	2309	[3655, 1424]	4358	[3430, 5620]	6407	[4786, 4915]
261	[511, 512]	2310	[3656, 3656]	4359	[5679, 5680]	6408	[6860, 7167]
262	[513, 514]	2311	[3410, 2862]	4360	[5594, 5681]	6409	[2630, 5289]
263	[515, 516]	2312	[3657, 3081]	4361	[5682, 2906]	6410	[7168, 4669]
264	[517, 518]	2313	[3658, 120]	4362	[297, 2857]	6411	[7169, 746]
265	[519, 520]	2314	[3659, 3660]	4363	[1001, 3099]	6412	[7170, 2801]

266	[521, 522]	2315	[359, 3661]	4364	[5683, 334]	6413	[151, 4818]
267	[523, 524]	2316	[3662, 3663]	4365	[5684, 3859]	6414	[7171, 7172]
268	[525, 526]	2317	[3664, 3665]	4366	[5685, 393]	6415	[7173, 4859]
269	[527, 140]	2318	[3567, 1309]	4367	[3610, 3889]	6416	[6700, 2659]
270	[528, 529]	2319	[3666, 3443]	4368	[1376, 3034]	6417	[220, 2722]
271	[530, 531]	2320	[3667, 1019]	4369	[2848, 5686]	6418	[7174, 4956]
272	[532, 533]	2321	[3668, 451]	4370	[5687, 3467]	6419	[7175, 7176]
273	[534, 535]	2322	[3669, 453]	4371	[5688, 3985]	6420	[7177, 1698]
274	[536, 537]	2323	[1525, 3670]	4372	[5689, 1297]	6421	[7178, 5209]
275	[538, 539]	2324	[3671, 3672]	4373	[3958, 1480]	6422	[7179, 4771]
276	[540, 167]	2325	[3673, 3674]	4374	[5690, 5691]	6423	[4801, 6972]
277	[541, 542]	2326	[3675, 3676]	4375	[5692, 5693]	6424	[7042, 484]
278	[543, 544]	2327	[3677, 3678]	4376	[5694, 1316]	6425	[7180, 1877]
279	[545, 32]	2328	[3679, 3680]	4377	[5573, 1318]	6426	[7181, 4905]
280	[546, 547]	2329	[3681, 1427]	4378	[3541, 5695]	6427	[7182, 6715]
281	[548, 549]	2330	[3650, 3130]	4379	[5696, 5665]	6428	[7183, 4575]
282	[550, 228]	2331	[3682, 3683]	4380	[5697, 3300]	6429	[6681, 4951]
283	[551, 552]	2332	[3684, 1599]	4381	[5698, 4005]	6430	[7184, 5508]
284	[553, 554]	2333	[3685, 1453]	4382	[5699, 1252]	6431	[1810, 4944]
285	[555, 556]	2334	[3686, 3687]	4383	[5700, 3877]	6432	[5395, 5528]
286	[557, 558]	2335	[3688, 3169]	4384	[3780, 3074]	6433	[7185, 6727]
287	[559, 560]	2336	[3689, 1655]	4385	[5701, 5702]	6434	[7186, 2557]
288	[561, 562]	2337	[3690, 3691]	4386	[5703, 3361]	6435	[7129, 2716]
289	[563, 564]	2338	[2839, 1612]	4387	[5704, 5705]	6436	[7187, 2439]
290	[565, 566]	2339	[3692, 983]	4388	[5706, 116]	6437	[7188, 2246]
291	[567, 568]	2340	[122, 3693]	4389	[5707, 5708]	6438	[7189, 615]
292	[569, 570]	2341	[3694, 3695]	4390	[5709, 5710]	6439	[7190, 2510]
293	[571, 572]	2342	[3696, 441]	4391	[5711, 264]	6440	[7191, 2517]
294	[573, 574]	2343	[1511, 3610]	4392	[5712, 1375]	6441	[7192, 852]
295	[575, 179]	2344	[3697, 3698]	4393	[3719, 5713]	6442	[5547, 5482]
296	[576, 577]	2345	[3699, 3116]	4394	[5714, 3833]	6443	[2158, 783]
297	[578, 579]	2346	[2931, 3700]	4395	[5715, 5716]	6444	[5414, 4470]
298	[580, 581]	2347	[2932, 3203]	4396	[5717, 3916]	6445	[7193, 7163]
299	[495, 582]	2348	[3701, 1009]	4397	[5718, 1037]	6446	[7194, 7195]
300	[583, 584]	2349	[3702, 3347]	4398	[5719, 1501]	6447	[7196, 4904]
301	[585, 586]	2350	[3703, 3704]	4399	[5720, 5658]	6448	[2146, 7121]
302	[587, 588]	2351	[2949, 3422]	4400	[5721, 3282]	6449	[7197, 5230]
303	[589, 590]	2352	[3705, 3577]	4401	[3218, 5722]	6450	[7198, 2430]
304	[591, 592]	2353	[3706, 314]	4402	[3825, 5723]	6451	[6749, 2473]
305	[593, 594]	2354	[3707, 3708]	4403	[5724, 3532]	6452	[4254, 2803]
306	[595, 596]	2355	[3709, 3710]	4404	[1218, 5725]	6453	[7199, 2494]
307	[597, 598]	2356	[3711, 1088]	4405	[333, 5726]	6454	[7200, 4781]
308	[599, 600]	2357	[3712, 1108]	4406	[5727, 3855]	6455	[7201, 7202]
309	[601, 602]	2358	[3713, 3676]	4407	[5728, 5729]	6456	[6905, 5499]

310	[603, 604]	2359	[1067, 1194]	4408	[5730, 5731]	6457	[2467, 6905]
311	[605, 606]	2360	[3714, 3715]	4409	[3693, 3059]	6458	[7203, 2772]
312	[607, 608]	2361	[3716, 3717]	4410	[1694, 5732]	6459	[6706, 4692]
313	[609, 610]	2362	[3718, 3719]	4411	[257, 3675]	6460	[879, 574]
314	[611, 612]	2363	[3720, 1041]	4412	[5733, 305]	6461	[7204, 1784]
315	[613, 614]	2364	[3721, 1658]	4413	[5734, 5735]	6462	[5101, 685]
316	[615, 616]	2365	[3722, 332]	4414	[5736, 1052]	6463	[7205, 4376]
317	[617, 618]	2366	[3723, 1192]	4415	[5737, 3171]	6464	[7206, 4551]
318	[619, 620]	2367	[3724, 1135]	4416	[5738, 5681]	6465	[5512, 2180]
319	[621, 622]	2368	[3725, 3726]	4417	[1007, 1415]	6466	[7207, 7208]
320	[623, 624]	2369	[3727, 3728]	4418	[5739, 1528]	6467	[4504, 4229]
321	[625, 626]	2370	[3577, 3729]	4419	[1184, 285]	6468	[7209, 6677]
322	[627, 628]	2371	[375, 1497]	4420	[5740, 3965]	6469	[7210, 1849]
323	[629, 630]	2372	[3730, 3731]	4421	[5741, 3166]	6470	[7211, 51]
324	[631, 632]	2373	[3018, 3732]	4422	[3003, 4021]	6471	[2766, 1998]
325	[633, 235]	2374	[3733, 3604]	4423	[3405, 5742]	6472	[6817, 4586]
326	[634, 635]	2375	[3734, 1266]	4424	[5673, 4138]	6473	[7212, 5512]
327	[636, 637]	2376	[3237, 1268]	4425	[5743, 1141]	6474	[7213, 5311]
328	[638, 639]	2377	[3735, 3736]	4426	[5744, 1144]	6475	[1771, 4275]
329	[640, 641]	2378	[940, 3737]	4427	[5745, 5746]	6476	[7214, 7024]
330	[642, 643]	2379	[3738, 3739]	4428	[5747, 1007]	6477	[4731, 194]
331	[644, 645]	2380	[3740, 3020]	4429	[3198, 258]	6478	[7215, 6621]
332	[646, 647]	2381	[3467, 1256]	4430	[5748, 4006]	6479	[7216, 2119]
333	[648, 649]	2382	[3741, 3211]	4431	[3886, 5749]	6480	[2792, 1992]
334	[650, 651]	2383	[3431, 3213]	4432	[5750, 3380]	6481	[7217, 4229]
335	[652, 653]	2384	[1556, 1205]	4433	[1414, 1442]	6482	[7218, 4426]
336	[654, 655]	2385	[3742, 3709]	4434	[5751, 2959]	6483	[7219, 4801]
337	[656, 657]	2386	[3743, 1539]	4435	[5752, 5753]	6484	[7220, 2563]
338	[658, 659]	2387	[3744, 3745]	4436	[5754, 5755]	6485	[7221, 4378]
339	[660, 661]	2388	[3746, 2974]	4437	[5756, 3233]	6486	[4812, 738]
340	[662, 663]	2389	[973, 3641]	4438	[5749, 3151]	6487	[7222, 5057]
341	[664, 665]	2390	[3747, 3748]	4439	[3965, 3092]	6488	[846, 2738]
342	[666, 2]	2391	[1235, 289]	4440	[5757, 1528]	6489	[6609, 4955]
343	[667, 668]	2392	[3749, 3750]	4441	[5758, 4192]	6490	[7223, 4432]
344	[669, 670]	2393	[3144, 3162]	4442	[5759, 5588]	6491	[5153, 7224]
345	[671, 672]	2394	[3751, 1543]	4443	[3576, 3415]	6492	[7225, 922]
346	[673, 674]	2395	[3752, 3753]	4444	[5760, 1314]	6493	[2219, 225]
347	[675, 676]	2396	[3337, 3321]	4445	[5761, 2924]	6494	[7226, 1946]
348	[677, 678]	2397	[3538, 2950]	4446	[5762, 5614]	6495	[7227, 2248]
349	[679, 680]	2398	[3754, 1015]	4447	[5763, 124]	6496	[7104, 2713]
350	[681, 682]	2399	[3755, 2961]	4448	[5764, 376]	6497	[5317, 7228]
351	[191, 683]	2400	[1357, 1334]	4449	[5765, 1287]	6498	[871, 2411]
352	[684, 685]	2401	[277, 3756]	4450	[251, 3592]	6499	[7229, 1874]
353	[686, 687]	2402	[3595, 3757]	4451	[5766, 3970]	6500	[7230, 6801]

354	[688, 689]	2403	[3758, 3759]	4452	[3075, 5767]	6501	[4549, 7030]
355	[690, 169]	2404	[3503, 1291]	4453	[5768, 409]	6502	[7231, 7232]
356	[691, 557]	2405	[3357, 3479]	4454	[5769, 3335]	6503	[4778, 4350]
357	[692, 693]	2406	[3760, 989]	4455	[5770, 430]	6504	[2343, 7233]
358	[694, 695]	2407	[3761, 1126]	4456	[3804, 1148]	6505	[7234, 132]
359	[696, 697]	2408	[3762, 3562]	4457	[5771, 5772]	6506	[7235, 6789]
360	[698, 699]	2409	[3763, 3764]	4458	[3930, 5773]	6507	[4489, 4567]
361	[700, 701]	2410	[3765, 957]	4459	[5774, 3088]	6508	[7236, 7126]
362	[702, 703]	2411	[3766, 3767]	4460	[5775, 5776]	6509	[5432, 922]
363	[704, 705]	2412	[1600, 3031]	4461	[5777, 4213]	6510	[5522, 4942]
364	[706, 707]	2413	[349, 3087]	4462	[5778, 4133]	6511	[7237, 6892]
365	[708, 709]	2414	[3768, 1326]	4463	[5779, 117]	6512	[7126, 5391]
366	[710, 711]	2415	[3769, 3566]	4464	[5780, 3554]	6513	[4640, 2577]
367	[626, 712]	2416	[3770, 29]	4465	[5781, 3666]	6514	[5270, 164]
368	[713, 714]	2417	[3208, 1089]	4466	[3021, 3348]	6515	[2593, 7238]
369	[715, 716]	2418	[3771, 3772]	4467	[5782, 5783]	6516	[6679, 5405]
370	[717, 718]	2419	[3773, 3774]	4468	[2911, 5784]	6517	[7239, 5067]
371	[719, 720]	2420	[3775, 3776]	4469	[5785, 5786]	6518	[1809, 4886]
372	[721, 722]	2421	[3777, 3105]	4470	[5787, 1313]	6519	[5236, 6601]
373	[723, 724]	2422	[1647, 3778]	4471	[3629, 1226]	6520	[7240, 1725]
374	[725, 726]	2423	[3779, 3780]	4472	[5788, 5789]	6521	[606, 4426]
375	[727, 728]	2424	[1488, 1420]	4473	[5790, 1105]	6522	[7241, 4567]
376	[729, 730]	2425	[3781, 3477]	4474	[115, 5736]	6523	[7242, 2047]
377	[731, 732]	2426	[3782, 3783]	4475	[5791, 3126]	6524	[7243, 4865]
378	[36, 733]	2427	[1675, 3784]	4476	[5792, 5793]	6525	[7244, 5199]
379	[734, 735]	2428	[3785, 2871]	4477	[5794, 2917]	6526	[4859, 6908]
380	[736, 737]	2429	[275, 3490]	4478	[3054, 1512]	6527	[7245, 4334]
381	[738, 739]	2430	[3786, 3787]	4479	[5795, 4084]	6528	[5233, 5388]
382	[740, 741]	2431	[3788, 1515]	4480	[5796, 408]	6529	[2724, 4459]
383	[742, 743]	2432	[1150, 3789]	4481	[5797, 120]	6530	[7246, 5531]
384	[744, 745]	2433	[3790, 3791]	4482	[5798, 1285]	6531	[7228, 2740]
385	[746, 747]	2434	[335, 3344]	4483	[5799, 3298]	6532	[7247, 6866]
386	[712, 748]	2435	[3792, 1662]	4484	[4154, 3859]	6533	[4509, 1928]
387	[749, 750]	2436	[3793, 3794]	4485	[3534, 5800]	6534	[7248, 2324]
388	[751, 752]	2437	[956, 2891]	4486	[5801, 3529]	6535	[7249, 7233]
389	[753, 754]	2438	[345, 3795]	4487	[3170, 1557]	6536	[7250, 4490]
390	[755, 756]	2439	[3796, 951]	4488	[5802, 1070]	6537	[4533, 6943]
391	[757, 758]	2440	[418, 2916]	4489	[1514, 3629]	6538	[7251, 5473]
392	[759, 760]	2441	[3797, 3654]	4490	[5803, 5624]	6539	[1920, 4831]
393	[761, 762]	2442	[3798, 3799]	4491	[5804, 5805]	6540	[6767, 2244]
394	[763, 764]	2443	[3800, 3801]	4492	[5806, 3100]	6541	[7252, 2693]
395	[765, 766]	2444	[2997, 3687]	4493	[5807, 2845]	6542	[7253, 4767]
396	[767, 768]	2445	[1204, 3802]	4494	[3748, 5808]	6543	[2248, 6603]
397	[769, 770]	2446	[3803, 3804]	4495	[5809, 3729]	6544	[5134, 7254]

398	[771, 772]	2447	[3805, 3806]	4496	[5810, 1557]	6545	[4506, 2260]
399	[773, 774]	2448	[3807, 1342]	4497	[5811, 1292]	6546	[7255, 1915]
400	[775, 776]	2449	[3808, 3809]	4498	[1210, 251]	6547	[7256, 7257]
401	[777, 678]	2450	[3810, 3501]	4499	[3179, 1367]	6548	[7258, 7184]
402	[778, 779]	2451	[1355, 3811]	4500	[3811, 4011]	6549	[1975, 5178]
403	[754, 780]	2452	[3812, 1625]	4501	[5812, 3046]	6550	[2536, 5498]
404	[781, 782]	2453	[3813, 962]	4502	[5813, 3411]	6551	[4791, 1934]
405	[783, 784]	2454	[1172, 3379]	4503	[3791, 1560]	6552	[7259, 4476]
406	[785, 786]	2455	[3814, 3521]	4504	[2902, 1122]	6553	[4438, 2047]
407	[787, 788]	2456	[3271, 1076]	4505	[3016, 5640]	6554	[4601, 4523]
408	[789, 790]	2457	[3815, 451]	4506	[5814, 1406]	6555	[4256, 1947]
409	[791, 792]	2458	[259, 1230]	4507	[5815, 374]	6556	[7260, 4612]
410	[793, 794]	2459	[3816, 3817]	4508	[3146, 353]	6557	[531, 6786]
411	[795, 10]	2460	[3818, 3819]	4509	[5816, 5817]	6558	[4433, 775]
412	[796, 797]	2461	[3215, 1082]	4510	[5818, 343]	6559	[7261, 778]
413	[798, 799]	2462	[3820, 3821]	4511	[5702, 3570]	6560	[7262, 4631]
414	[800, 582]	2463	[3822, 3823]	4512	[4061, 3381]	6561	[7263, 815]
415	[801, 802]	2464	[3824, 3825]	4513	[3391, 5819]	6562	[1799, 2026]
416	[803, 804]	2465	[3826, 3827]	4514	[5820, 3710]	6563	[2692, 6747]
417	[805, 806]	2466	[3828, 2866]	4515	[4050, 5821]	6564	[241, 5519]
418	[807, 808]	2467	[3829, 3830]	4516	[1191, 5822]	6565	[7264, 6631]
419	[809, 810]	2468	[3831, 3832]	4517	[5823, 3333]	6566	[7265, 5420]
420	[811, 812]	2469	[2835, 3673]	4518	[1326, 262]	6567	[7266, 4885]
421	[813, 814]	2470	[3833, 3834]	4519	[1656, 3051]	6568	[7267, 2210]
422	[815, 816]	2471	[3835, 3836]	4520	[5824, 3889]	6569	[7268, 6737]
423	[817, 818]	2472	[3837, 3838]	4521	[5825, 3360]	6570	[4465, 7172]
424	[819, 649]	2473	[3839, 3840]	4522	[5826, 984]	6571	[7269, 1758]
425	[820, 821]	2474	[3841, 3842]	4523	[5827, 5828]	6572	[7270, 1844]
426	[822, 823]	2475	[3843, 3844]	4524	[992, 5829]	6573	[7271, 2123]
427	[824, 825]	2476	[3845, 3846]	4525	[4210, 3980]	6574	[7272, 4260]
428	[826, 827]	2477	[1295, 3847]	4526	[5830, 5831]	6575	[7059, 5033]
429	[828, 829]	2478	[3115, 1237]	4527	[5681, 986]	6576	[139, 4712]
430	[830, 831]	2479	[3848, 482]	4528	[5832, 5800]	6577	[7273, 3754]
431	[832, 833]	2480	[3849, 258]	4529	[5833, 5756]	6578	[7274, 3019]
432	[834, 835]	2481	[3850, 3851]	4530	[3836, 3857]	6579	[1237, 6]
433	[836, 837]	2482	[3852, 1143]	4531	[1135, 3651]	6580	[3329, 1211]
434	[838, 839]	2483	[3853, 3119]	4532	[5834, 5749]	6581	[7275, 3654]
435	[840, 841]	2484	[3854, 3022]	4533	[5835, 5571]	6582	[7276, 6289]
436	[842, 843]	2485	[3363, 3855]	4534	[5836, 262]	6583	[3778, 1275]
437	[844, 845]	2486	[3856, 3857]	4535	[5837, 1526]	6584	[7277, 481]
438	[810, 846]	2487	[2955, 3858]	4536	[5838, 3446]	6585	[5695, 3853]
439	[847, 608]	2488	[3859, 2835]	4537	[3517, 3763]	6586	[3335, 3180]
440	[848, 849]	2489	[1022, 3860]	4538	[3623, 1651]	6587	[7278, 3416]
441	[850, 851]	2490	[3861, 3862]	4539	[5839, 1214]	6588	[1302, 4107]

442	[852, 580]	2491	[2892, 3863]	4540	[5840, 1411]	6589	[7279, 3879]
443	[853, 854]	2492	[3864, 3865]	4541	[5841, 990]	6590	[7280, 5786]
444	[855, 856]	2493	[3866, 3330]	4542	[5842, 5617]	6591	[3446, 4160]
445	[857, 858]	2494	[3867, 419]	4543	[5843, 1076]	6592	[7281, 5808]
446	[859, 860]	2495	[3385, 3868]	4544	[5844, 3907]	6593	[7282, 3650]
447	[861, 862]	2496	[3869, 1601]	4545	[5845, 3065]	6594	[3058, 1097]
448	[863, 864]	2497	[3870, 1216]	4546	[5846, 3133]	6595	[7283, 3931]
449	[865, 866]	2498	[1582, 1536]	4547	[5847, 5848]	6596	[7284, 6212]
450	[735, 867]	2499	[3871, 3872]	4548	[3973, 3146]	6597	[7285, 2969]
451	[868, 869]	2500	[3819, 3013]	4549	[5849, 5850]	6598	[7286, 4028]
452	[870, 871]	2501	[3873, 21]	4550	[5851, 5633]	6599	[7287, 3537]
453	[872, 873]	2502	[3874, 3875]	4551	[5852, 1261]	6600	[3906, 974]
454	[874, 875]	2503	[433, 3070]	4552	[5853, 1437]	6601	[7288, 2916]
455	[876, 877]	2504	[3876, 1327]	4553	[3633, 3768]	6602	[7289, 1696]
456	[878, 879]	2505	[3877, 3878]	4554	[5854, 4113]	6603	[7290, 4036]
457	[880, 881]	2506	[950, 3879]	4555	[1259, 5855]	6604	[5784, 5706]
458	[882, 522]	2507	[3880, 3881]	4556	[3157, 5856]	6605	[7291, 3878]
459	[56, 883]	2508	[3882, 3883]	4557	[5857, 1100]	6606	[3195, 3157]
460	[884, 885]	2509	[3884, 3015]	4558	[5858, 3147]	6607	[3345, 990]
461	[886, 11]	2510	[3885, 3886]	4559	[5859, 5585]	6608	[7292, 4000]
462	[887, 834]	2511	[3887, 3888]	4560	[5860, 1281]	6609	[7293, 3180]
463	[888, 889]	2512	[3359, 3336]	4561	[5861, 3189]	6610	[7294, 1417]
464	[890, 891]	2513	[3889, 428]	4562	[5862, 2887]	6611	[7295, 3020]
465	[892, 160]	2514	[1481, 3542]	4563	[5863, 1656]	6612	[7296, 5600]
466	[893, 894]	2515	[3890, 15]	4564	[5864, 3111]	6613	[5732, 1227]
467	[895, 896]	2516	[1092, 3891]	4565	[5865, 65]	6614	[7297, 1302]
468	[897, 898]	2517	[3892, 1464]	4566	[5866, 5867]	6615	[7298, 385]
469	[899, 900]	2518	[3893, 1018]	4567	[5868, 5673]	6616	[4003, 6263]
470	[901, 902]	2519	[355, 3894]	4568	[3459, 1637]	6617	[3604, 1648]
471	[903, 904]	2520	[3895, 3896]	4569	[5869, 5870]	6618	[1396, 5776]
472	[905, 906]	2521	[3545, 3286]	4570	[5871, 1242]	6619	[7299, 3383]
473	[907, 908]	2522	[3897, 1090]	4571	[5872, 1439]	6620	[475, 2955]
474	[909, 910]	2523	[3898, 3899]	4572	[5873, 5874]	6621	[989, 4181]
475	[911, 912]	2524	[3900, 3901]	4573	[3049, 5875]	6622	[7300, 6046]
476	[913, 914]	2525	[3902, 3903]	4574	[463, 432]	6623	[7301, 423]
477	[915, 916]	2526	[1595, 3904]	4575	[5876, 5811]	6624	[7302, 3612]
478	[917, 918]	2527	[3905, 3906]	4576	[3881, 4133]	6625	[6037, 5945]
479	[919, 216]	2528	[3907, 3908]	4577	[5877, 5878]	6626	[5569, 3136]
480	[920, 921]	2529	[3909, 3910]	4578	[5879, 3437]	6627	[4152, 5785]
481	[922, 923]	2530	[3911, 3834]	4579	[3163, 1575]	6628	[7303, 7304]
482	[924, 490]	2531	[1539, 3466]	4580	[5880, 1305]	6629	[1417, 7305]
483	[925, 926]	2532	[3912, 302]	4581	[3311, 5881]	6630	[7306, 1558]
484	[927, 928]	2533	[2995, 3913]	4582	[3452, 3420]	6631	[7307, 1292]
485	[929, 930]	2534	[3914, 3915]	4583	[5882, 1367]	6632	[4002, 6068]

486	[931, 932]	2535	[3916, 3251]	4584	[4092, 388]	6633	[1195, 5607]
487	[933, 934]	2536	[3917, 3279]	4585	[3296, 3808]	6634	[7308, 3594]
488	[935, 936]	2537	[3918, 3538]	4586	[5883, 5884]	6635	[7309, 5773]
489	[937, 938]	2538	[3919, 3920]	4587	[414, 3116]	6636	[7310, 4183]
490	[939, 940]	2539	[1568, 2947]	4588	[1030, 1608]	6637	[7311, 1321]
491	[941, 942]	2540	[3921, 3218]	4589	[371, 5885]	6638	[3950, 3063]
492	[943, 944]	2541	[3922, 3923]	4590	[5886, 1633]	6639	[7312, 1677]
493	[945, 417]	2542	[3924, 3925]	4591	[5887, 3976]	6640	[7313, 6434]
494	[946, 947]	2543	[3926, 252]	4592	[5888, 4033]	6641	[7314, 5821]
495	[113, 948]	2544	[3927, 1669]	4593	[3756, 5889]	6642	[7315, 119]
496	[949, 950]	2545	[3928, 3217]	4594	[5890, 256]	6643	[3124, 1305]
497	[951, 952]	2546	[3929, 3930]	4595	[1467, 5891]	6644	[7316, 7317]
498	[953, 954]	2547	[3931, 3932]	4596	[339, 5892]	6645	[7318, 3184]
499	[955, 956]	2548	[3933, 3934]	4597	[984, 3296]	6646	[7319, 458]
500	[957, 958]	2549	[3935, 3936]	4598	[3588, 961]	6647	[5874, 6505]
501	[361, 959]	2550	[971, 3267]	4599	[5893, 1275]	6648	[7320, 1527]
502	[960, 961]	2551	[3937, 3938]	4600	[5894, 1221]	6649	[7321, 1286]
503	[962, 963]	2552	[3939, 3376]	4601	[5895, 1458]	6650	[7322, 5583]
504	[964, 965]	2553	[3940, 3941]	4602	[5896, 1320]	6651	[3122, 1523]
505	[966, 967]	2554	[1364, 1066]	4603	[5897, 3561]	6652	[7323, 1212]
506	[968, 969]	2555	[3942, 3191]	4604	[3908, 5898]	6653	[102, 3246]
507	[970, 971]	2556	[3943, 3944]	4605	[1425, 3797]	6654	[2898, 3688]
508	[972, 973]	2557	[3945, 3946]	4606	[3025, 5899]	6655	[3514, 3217]
509	[974, 975]	2558	[1269, 937]	4607	[5900, 5901]	6656	[7324, 1136]
510	[976, 112]	2559	[3095, 3947]	4608	[3448, 3896]	6657	[7325, 6013]
511	[977, 978]	2560	[3948, 2990]	4609	[5902, 5903]	6658	[7326, 969]
512	[979, 980]	2561	[3949, 3950]	4610	[5904, 3082]	6659	[7327, 1479]
513	[981, 982]	2562	[3951, 3433]	4611	[4148, 5905]	6660	[3472, 2875]
514	[983, 984]	2563	[3952, 3953]	4612	[5906, 5907]	6661	[7328, 1572]
515	[985, 986]	2564	[3954, 3579]	4613	[5908, 1676]	6662	[7329, 1366]
516	[16, 987]	2565	[3955, 3956]	4614	[5909, 3912]	6663	[7330, 3293]
517	[988, 989]	2566	[1668, 3271]	4615	[3878, 1463]	6664	[7331, 968]
518	[990, 409]	2567	[1527, 3746]	4616	[2919, 3823]	6665	[7332, 1603]
519	[991, 992]	2568	[3957, 3958]	4617	[5910, 3853]	6666	[5891, 1296]
520	[993, 994]	2569	[315, 3493]	4618	[5911, 3267]	6667	[1060, 4202]
521	[995, 996]	2570	[3959, 3495]	4619	[5912, 1588]	6668	[7333, 3498]
522	[997, 478]	2571	[3680, 3725]	4620	[5913, 3669]	6669	[6122, 3539]
523	[247, 998]	2572	[1214, 3960]	4621	[5914, 5915]	6670	[5901, 4036]
524	[249, 999]	2573	[3961, 2973]	4622	[5916, 1488]	6671	[7334, 3651]
525	[1000, 1001]	2574	[1485, 1424]	4623	[5917, 3493]	6672	[5881, 1011]
526	[1002, 1003]	2575	[3962, 1399]	4624	[3846, 338]	6673	[1170, 3197]
527	[1004, 1005]	2576	[1477, 3963]	4625	[5918, 5899]	6674	[7335, 1064]
528	[1006, 1007]	2577	[3964, 2950]	4626	[5919, 4181]	6675	[7336, 2966]
529	[1008, 1009]	2578	[1446, 3965]	4627	[5920, 5921]	6676	[7337, 5822]

530	[1010, 1011]	2579	[3966, 3967]	4628	[3558, 3400]	6677	[7338, 1647]
531	[1012, 1013]	2580	[3968, 3969]	4629	[5922, 1095]	6678	[7339, 1681]
532	[1014, 1015]	2581	[3970, 3633]	4630	[5923, 3978]	6679	[7340, 2921]
533	[1016, 269]	2582	[3971, 3719]	4631	[5924, 472]	6680	[7341, 102]
534	[1017, 1018]	2583	[3972, 3169]	4632	[2941, 3414]	6681	[3532, 5691]
535	[1019, 1020]	2584	[3925, 3973]	4633	[3865, 1568]	6682	[6499, 3309]
536	[1021, 1022]	2585	[1521, 434]	4634	[1449, 3140]	6683	[1156, 3679]
537	[1023, 1024]	2586	[3974, 1555]	4635	[5925, 5926]	6684	[7342, 975]
538	[1025, 1026]	2587	[3975, 1157]	4636	[5927, 3652]	6685	[6382, 1319]
539	[1027, 1028]	2588	[3976, 1530]	4637	[5928, 5929]	6686	[5602, 3358]
540	[1029, 1030]	2589	[3977, 1532]	4638	[3287, 3842]	6687	[7343, 453]
541	[1031, 1032]	2590	[3978, 3979]	4639	[4164, 2859]	6688	[4168, 97]
542	[1033, 1034]	2591	[3980, 3981]	4640	[1471, 5930]	6689	[1312, 5850]
543	[1035, 1036]	2592	[3982, 3129]	4641	[3257, 1457]	6690	[7344, 3999]
544	[1032, 1037]	2593	[1421, 3689]	4642	[5931, 1184]	6691	[7345, 5930]
545	[1038, 1039]	2594	[3983, 3984]	4643	[1228, 3992]	6692	[7346, 3981]
546	[1040, 1041]	2595	[3745, 281]	4644	[5932, 1006]	6693	[7347, 6301]
547	[1042, 1043]	2596	[3985, 1308]	4645	[5933, 3055]	6694	[3082, 2888]
548	[1044, 1045]	2597	[3594, 3986]	4646	[4107, 5804]	6695	[7348, 7349]
549	[373, 1046]	2598	[3855, 3970]	4647	[5934, 3460]	6696	[1261, 7317]
550	[1047, 480]	2599	[3987, 3740]	4648	[3894, 1040]	6697	[6013, 1283]
551	[1048, 424]	2600	[3613, 1185]	4649	[5935, 1129]	6698	[3799, 1298]
552	[1049, 1050]	2601	[429, 1675]	4650	[5936, 1189]	6699	[7350, 1168]
553	[1051, 1052]	2602	[3988, 3989]	4651	[5937, 3122]	6700	[7351, 4012]
554	[1053, 1054]	2603	[3617, 3263]	4652	[1272, 5938]	6701	[4160, 3516]
555	[1055, 1056]	2604	[3990, 298]	4653	[3842, 1348]	6702	[3674, 3253]
556	[1057, 1058]	2605	[3991, 3992]	4654	[2863, 3598]	6703	[5950, 1234]
557	[1059, 1060]	2606	[3993, 1443]	4655	[3590, 5939]	6704	[7352, 304]
558	[1061, 1062]	2607	[3994, 3995]	4656	[3380, 5940]	6705	[7353, 1683]
559	[1063, 994]	2608	[2985, 1416]	4657	[5941, 5942]	6706	[7354, 377]
560	[1064, 1065]	2609	[3996, 3997]	4658	[3061, 5943]	6707	[7355, 1662]
561	[1066, 1067]	2610	[3998, 3999]	4659	[3064, 436]	6708	[7356, 2952]
562	[1068, 1069]	2611	[3715, 4000]	4660	[1111, 1492]	6709	[7357, 77]
563	[1070, 1071]	2612	[3717, 4001]	4661	[5944, 3615]	6710	[7358, 378]
564	[1072, 1073]	2613	[3428, 4002]	4662	[5945, 1478]	6711	[7359, 3899]
565	[1074, 1075]	2614	[3687, 4003]	4663	[5946, 5564]	6712	[7360, 6029]
566	[1076, 1077]	2615	[3509, 1341]	4664	[5947, 5948]	6713	[7361, 1605]
567	[1078, 1079]	2616	[4004, 3825]	4665	[76, 5830]	6714	[7362, 3792]
568	[1080, 29]	2617	[80, 1012]	4666	[5949, 3618]	6715	[7363, 3768]
569	[1081, 1082]	2618	[4005, 2873]	4667	[3052, 5950]	6716	[7364, 1587]
570	[1083, 1084]	2619	[4006, 472]	4668	[5951, 5844]	6717	[7365, 16]
571	[1085, 1086]	2620	[965, 4007]	4669	[5952, 3797]	6718	[5921, 7362]
572	[1087, 1088]	2621	[4008, 4009]	4670	[3847, 1294]	6719	[1419, 3537]
573	[1089, 1090]	2622	[4010, 4011]	4671	[3830, 5942]	6720	[7366, 3509]

574	[1091, 1092]	2623	[1343, 4012]	4672	[5953, 5805]	6721	[1115, 3886]
575	[1093, 1094]	2624	[4013, 3941]	4673	[3979, 3935]	6722	[7367, 2842]
576	[1095, 1096]	2625	[3196, 4014]	4674	[5954, 1400]	6723	[3172, 3590]
577	[1097, 1098]	2626	[4015, 3338]	4675	[1212, 3231]	6724	[7368, 5764]
578	[1099, 72]	2627	[68, 1033]	4676	[5955, 1269]	6725	[5746, 2882]
579	[1100, 1101]	2628	[4016, 3505]	4677	[5956, 1529]	6726	[7369, 398]
580	[952, 1102]	2629	[4017, 2985]	4678	[5957, 3466]	6727	[7370, 266]
581	[1103, 1104]	2630	[4018, 3626]	4679	[5958, 1668]	6728	[7371, 3814]
582	[1105, 1106]	2631	[4019, 82]	4680	[5959, 3063]	6729	[7372, 6041]
583	[1107, 1108]	2632	[4020, 3450]	4681	[5960, 1257]	6730	[7373, 2854]
584	[1109, 931]	2633	[4021, 314]	4682	[5961, 3059]	6731	[6454, 3866]
585	[1110, 399]	2634	[3776, 107]	4683	[5962, 1436]	6732	[3258, 1500]
586	[353, 1111]	2635	[4022, 3377]	4684	[3183, 3278]	6733	[7374, 3152]
587	[1112, 1113]	2636	[4023, 2843]	4685	[5668, 1179]	6734	[3737, 3631]
588	[1114, 1115]	2637	[4024, 1231]	4686	[3821, 1538]	6735	[7375, 2927]
589	[1116, 1117]	2638	[4025, 1438]	4687	[5963, 3398]	6736	[7376, 5584]
590	[1118, 1119]	2639	[3635, 3945]	4688	[1517, 5964]	6737	[7377, 6263]
591	[1120, 1121]	2640	[4026, 1303]	4689	[5965, 1578]	6738	[7378, 3274]
592	[1122, 1123]	2641	[4027, 2940]	4690	[5966, 3614]	6739	[2851, 3950]
593	[1124, 1125]	2642	[4028, 3721]	4691	[5967, 987]	6740	[7379, 1518]
594	[1126, 1127]	2643	[4029, 3851]	4692	[5968, 5831]	6741	[4146, 122]
595	[1128, 1129]	2644	[4030, 4031]	4693	[5969, 24]	6742	[7380, 1472]
596	[1130, 1131]	2645	[4032, 4033]	4694	[5970, 3656]	6743	[7381, 3700]
597	[1132, 1133]	2646	[1503, 15]	4695	[5624, 1203]	6744	[4012, 7382]
598	[1134, 1135]	2647	[4034, 1098]	4696	[4196, 4188]	6745	[7383, 3350]
599	[1136, 1137]	2648	[4035, 3454]	4697	[400, 3216]	6746	[5649, 3815]
600	[1138, 1139]	2649	[4036, 3996]	4698	[5971, 5972]	6747	[7384, 3643]
601	[1140, 1141]	2650	[1084, 3998]	4699	[5973, 330]	6748	[7385, 4138]
602	[1142, 1143]	2651	[469, 1021]	4700	[5974, 1421]	6749	[7386, 1360]
603	[1144, 1145]	2652	[4037, 3337]	4701	[5975, 3887]	6750	[7387, 3868]
604	[1146, 1147]	2653	[4038, 118]	4702	[1387, 5976]	6751	[7388, 3864]
605	[1148, 27]	2654	[4039, 3735]	4703	[5977, 5978]	6752	[412, 1619]
606	[1149, 1150]	2655	[4040, 2886]	4704	[5979, 3872]	6753	[7389, 1621]
607	[1151, 1152]	2656	[4041, 3669]	4705	[3904, 1598]	6754	[7390, 6158]
608	[1153, 1154]	2657	[954, 1586]	4706	[5980, 3979]	6755	[1575, 3375]
609	[1155, 1156]	2658	[4042, 3765]	4707	[5981, 5982]	6756	[7391, 1107]
610	[1157, 1158]	2659	[4043, 4013]	4708	[3750, 80]	6757	[7392, 5594]
611	[1159, 1160]	2660	[4044, 3691]	4709	[5983, 954]	6758	[7393, 3910]
612	[1079, 264]	2661	[4045, 3299]	4710	[3731, 3349]	6759	[7394, 5938]
613	[1161, 1162]	2662	[4011, 1087]	4711	[2922, 3407]	6760	[7395, 1348]
614	[1163, 1164]	2663	[4046, 1271]	4712	[5984, 5985]	6761	[2876, 1064]
615	[1165, 1166]	2664	[4047, 4048]	4713	[5986, 5950]	6762	[7396, 3588]
616	[1167, 1168]	2665	[4049, 4050]	4714	[1018, 1208]	6763	[3239, 4094]
617	[1169, 1170]	2666	[4051, 357]	4715	[3757, 1679]	6764	[1624, 3158]

618	[1171, 1172]	2667	[4052, 4053]	4716	[5987, 3168]	6765	[7397, 1416]
619	[1173, 1174]	2668	[4054, 4055]	4717	[1685, 3864]	6766	[7398, 5608]
620	[1175, 1176]	2669	[1573, 471]	4718	[5723, 5988]	6767	[7399, 3574]
621	[1177, 1178]	2670	[4056, 354]	4719	[5989, 4193]	6768	[7400, 5864]
622	[1179, 1180]	2671	[4057, 4058]	4720	[5817, 1086]	6769	[5609, 1689]
623	[1181, 1182]	2672	[3132, 4059]	4721	[5990, 5693]	6770	[7401, 95]
624	[1183, 1184]	2673	[4060, 4061]	4722	[5991, 1530]	6771	[7402, 1670]
625	[1185, 1186]	2674	[4062, 1572]	4723	[4126, 3824]	6772	[7403, 1576]
626	[477, 1187]	2675	[4063, 4064]	4724	[3260, 1151]	6773	[7404, 1227]
627	[1188, 1077]	2676	[4065, 3617]	4725	[3278, 1059]	6774	[5651, 1360]
628	[1189, 1017]	2677	[4066, 4067]	4726	[3642, 4123]	6775	[7405, 6104]
629	[1190, 1191]	2678	[4068, 4069]	4727	[1649, 115]	6776	[7406, 3763]
630	[1192, 1193]	2679	[4070, 1103]	4728	[5992, 1125]	6777	[3710, 1070]
631	[1194, 1195]	2680	[4071, 4072]	4729	[1234, 5993]	6778	[6051, 1435]
632	[1196, 1197]	2681	[3521, 4073]	4730	[5994, 3898]	6779	[7407, 410]
633	[1198, 1199]	2682	[4074, 4075]	4731	[367, 385]	6780	[7408, 3782]
634	[1200, 1201]	2683	[124, 1163]	4732	[5995, 375]	6781	[3499, 417]
635	[1202, 1203]	2684	[2878, 4076]	4733	[3117, 1621]	6782	[7409, 1442]
636	[1005, 1204]	2685	[4077, 4078]	4734	[5996, 5997]	6783	[7410, 424]
637	[1205, 1206]	2686	[4079, 1569]	4735	[1374, 5610]	6784	[7411, 3222]
638	[1207, 1208]	2687	[3403, 4080]	4736	[5998, 3056]	6785	[987, 6040]
639	[1209, 1210]	2688	[4081, 2888]	4737	[5999, 1422]	6786	[7412, 356]
640	[1211, 1212]	2689	[3347, 3232]	4738	[6000, 3159]	6787	[7413, 5555]
641	[1213, 1214]	2690	[4082, 30]	4739	[6001, 3080]	6788	[7414, 1471]
642	[1215, 1216]	2691	[4083, 3679]	4740	[6002, 5736]	6789	[7415, 3558]
643	[1217, 1218]	2692	[3888, 4084]	4741	[331, 1431]	6790	[7416, 1253]
644	[1219, 1220]	2693	[4085, 4044]	4742	[3235, 3282]	6791	[84, 3733]
645	[1221, 1222]	2694	[3832, 4072]	4743	[6003, 3732]	6792	[7417, 90]
646	[1223, 118]	2695	[4086, 1415]	4744	[431, 84]	6793	[7418, 3334]
647	[1224, 1225]	2696	[4087, 3891]	4745	[6004, 5677]	6794	[7419, 3052]
648	[1226, 308]	2697	[4088, 2902]	4746	[6005, 3225]	6795	[7420, 1361]
649	[1227, 1228]	2698	[4089, 3075]	4747	[6006, 6007]	6796	[975, 3925]
650	[1229, 1230]	2699	[4059, 3523]	4748	[6008, 1353]	6797	[7421, 3349]
651	[1231, 1232]	2700	[4090, 1213]	4749	[3320, 1167]	6798	[7422, 5948]
652	[1233, 1234]	2701	[3009, 4091]	4750	[6009, 6010]	6799	[7423, 1158]
653	[1011, 1235]	2702	[3251, 4092]	4751	[6011, 6012]	6800	[3934, 3322]
654	[1236, 1237]	2703	[3941, 4093]	4752	[3482, 6013]	6801	[7424, 6307]
655	[1238, 473]	2704	[3601, 2958]	4753	[6014, 956]	6802	[7425, 1352]
656	[1239, 1240]	2705	[4094, 1062]	4754	[6015, 3077]	6803	[7426, 448]
657	[1241, 1242]	2706	[4095, 4096]	4755	[3077, 6016]	6804	[4058, 1690]
658	[1056, 1243]	2707	[4097, 1636]	4756	[6017, 3312]	6805	[6266, 6567]
659	[1244, 1245]	2708	[3857, 3019]	4757	[4157, 6018]	6806	[281, 993]
660	[1246, 1247]	2709	[4098, 299]	4758	[6019, 963]	6807	[7427, 3246]
661	[1248, 1249]	2710	[3879, 4099]	4759	[3795, 3464]	6808	[4075, 337]

662	[1250, 1251]	2711	[4100, 4101]	4760	[1251, 6020]	6809	[7428, 5723]
663	[1252, 1253]	2712	[3528, 1461]	4761	[969, 5867]	6810	[7429, 1566]
664	[1254, 1255]	2713	[4102, 4103]	4762	[6021, 1106]	6811	[7430, 2876]
665	[1256, 1257]	2714	[4104, 4105]	4763	[6022, 964]	6812	[1062, 3391]
666	[1258, 1259]	2715	[3094, 3696]	4764	[978, 3648]	6813	[7431, 5576]
667	[1260, 1261]	2716	[4106, 4107]	4765	[3224, 3829]	6814	[7432, 6527]
668	[668, 668]	2717	[4108, 3861]	4766	[6023, 3080]	6815	[7433, 1620]
669	[1262, 1263]	2718	[4109, 4110]	4767	[6024, 3785]	6816	[7434, 2946]
670	[1264, 1265]	2719	[2996, 3807]	4768	[6025, 4091]	6817	[7435, 3403]
671	[1266, 1267]	2720	[2999, 3222]	4769	[6026, 6027]	6818	[7436, 2930]
672	[1268, 1269]	2721	[289, 1439]	4770	[5735, 447]	6819	[7437, 3862]
673	[483, 1270]	2722	[3187, 4111]	4771	[3691, 4151]	6820	[6321, 390]
674	[1271, 1272]	2723	[1323, 4112]	4772	[6028, 463]	6821	[26, 5643]
675	[1273, 1274]	2724	[4113, 4114]	4773	[6029, 1694]	6822	[7438, 2936]
676	[1275, 1276]	2725	[4115, 3432]	4774	[6030, 6031]	6823	[7439, 2980]
677	[1277, 1278]	2726	[4116, 2861]	4775	[5976, 1100]	6824	[7440, 433]
678	[934, 1279]	2727	[4117, 1614]	4776	[6032, 2851]	6825	[7441, 3321]
679	[1280, 1235]	2728	[390, 1549]	4777	[6033, 3585]	6826	[3032, 256]
680	[30, 1281]	2729	[4118, 4119]	4778	[6034, 1563]	6827	[7442, 1255]
681	[1282, 1283]	2730	[4120, 4121]	4779	[6035, 3616]	6828	[3827, 4075]
682	[1284, 1285]	2731	[4122, 3275]	4780	[6036, 6037]	6829	[3383, 3215]
683	[377, 1286]	2732	[4123, 3882]	4781	[3593, 1008]	6830	[7443, 2898]
684	[1287, 1241]	2733	[4124, 1494]	4782	[6038, 1110]	6831	[7444, 3998]
685	[1288, 1289]	2734	[4125, 4126]	4783	[1548, 320]	6832	[7445, 1065]
686	[1290, 1291]	2735	[4127, 3375]	4784	[5633, 5978]	6833	[7446, 2889]
687	[1292, 1293]	2736	[4128, 306]	4785	[6039, 1518]	6834	[7447, 3247]
688	[1294, 1295]	2737	[2867, 3804]	4786	[6040, 6041]	6835	[3398, 5997]
689	[1296, 1297]	2738	[4129, 466]	4787	[2884, 3147]	6836	[7448, 1104]
690	[1298, 1299]	2739	[4130, 1376]	4788	[110, 2860]	6837	[7449, 5905]
691	[1300, 1301]	2740	[4131, 4132]	4789	[1569, 6042]	6838	[7450, 309]
692	[299, 1302]	2741	[4133, 3759]	4790	[3439, 1136]	6839	[5831, 3810]
693	[1303, 1304]	2742	[4134, 4135]	4791	[6043, 932]	6840	[7451, 1659]
694	[1305, 1306]	2743	[3247, 3385]	4792	[3672, 5573]	6841	[7452, 1148]
695	[1307, 1308]	2744	[4136, 459]	4793	[1308, 1080]	6842	[7453, 1130]
696	[1309, 1310]	2745	[4137, 450]	4794	[6044, 1615]	6843	[7454, 3491]
697	[1311, 1312]	2746	[4138, 4139]	4795	[6045, 110]	6844	[7382, 5947]
698	[1313, 1314]	2747	[4140, 4141]	4796	[6046, 6047]	6845	[7455, 999]
699	[1315, 1254]	2748	[4142, 4143]	4797	[3670, 6048]	6846	[7456, 1295]
700	[1316, 1317]	2749	[3597, 4144]	4798	[6049, 1228]	6847	[1544, 7349]
701	[1318, 296]	2750	[2946, 3397]	4799	[986, 3209]	6848	[7457, 5874]
702	[1319, 944]	2751	[4145, 4146]	4800	[6050, 6051]	6849	[7458, 1573]
703	[1320, 1321]	2752	[4147, 370]	4801	[6052, 6053]	6850	[7459, 3301]
704	[1322, 1323]	2753	[3308, 4148]	4802	[6054, 1624]	6851	[3759, 3948]
705	[1243, 1324]	2754	[4149, 1543]	4803	[6055, 3233]	6852	[6527, 3704]

706	[1325, 1326]	2755	[4150, 3287]	4804	[6056, 6057]	6853	[3396, 5929]
707	[1327, 1328]	2756	[4151, 4152]	4805	[6058, 276]	6854	[7460, 3388]
708	[1329, 1330]	2757	[3944, 4153]	4806	[6059, 1346]	6855	[7461, 6422]
709	[1331, 1332]	2758	[3872, 1072]	4807	[3056, 1254]	6856	[7462, 3219]
710	[1333, 323]	2759	[1182, 3041]	4808	[6060, 1256]	6857	[7463, 7362]
711	[1334, 1335]	2760	[20, 3328]	4809	[6061, 1469]	6858	[7464, 1218]
712	[1186, 1336]	2761	[3896, 4154]	4810	[3901, 465]	6859	[7465, 1194]
713	[351, 1337]	2762	[4155, 449]	4811	[6062, 5818]	6860	[7466, 5757]
714	[1338, 1339]	2763	[4156, 4157]	4812	[6063, 5829]	6861	[7467, 1549]
715	[1340, 1341]	2764	[3457, 1682]	4813	[6064, 4041]	6862	[7468, 3043]
716	[1342, 1343]	2765	[4158, 2863]	4814	[6065, 1628]	6863	[7469, 4038]
717	[448, 1344]	2766	[4159, 4160]	4815	[6066, 3196]	6864	[1636, 3639]
718	[1345, 422]	2767	[4161, 338]	4816	[6067, 6068]	6865	[3294, 953]
719	[1346, 1347]	2768	[265, 348]	4817	[3494, 3881]	6866	[7470, 2907]
720	[1348, 1349]	2769	[4162, 1225]	4818	[6069, 6070]	6867	[3092, 3933]
721	[1350, 1351]	2770	[4163, 1582]	4819	[6071, 3660]	6868	[7471, 3783]
722	[1352, 1353]	2771	[3376, 4164]	4820	[6072, 382]	6869	[7472, 376]
723	[1354, 1355]	2772	[4165, 3329]	4821	[6073, 1663]	6870	[7473, 6499]
724	[1356, 1357]	2773	[4166, 28]	4822	[1653, 5844]	6871	[1335, 3954]
725	[1358, 1359]	2774	[4167, 3815]	4823	[6074, 1613]	6872	[7474, 1056]
726	[1360, 1361]	2775	[3736, 4168]	4824	[6075, 1299]	6873	[3772, 1036]
727	[1362, 1363]	2776	[3992, 4169]	4825	[6076, 2857]	6874	[3498, 311]
728	[410, 1364]	2777	[4170, 1641]	4826	[6077, 364]	6875	[7475, 261]
729	[1365, 974]	2778	[4171, 4172]	4827	[6078, 1622]	6876	[7476, 320]
730	[958, 976]	2779	[4173, 3206]	4828	[4177, 3574]	6877	[7477, 1514]
731	[1366, 444]	2780	[1117, 361]	4829	[1341, 1526]	6878	[3936, 2968]
732	[1367, 1368]	2781	[4174, 4175]	4830	[3225, 5645]	6879	[5943, 430]
733	[72, 1369]	2782	[2859, 68]	4831	[6079, 6080]	6880	[7478, 3757]
734	[1370, 1371]	2783	[1050, 3658]	4832	[3100, 3279]	6881	[7479, 1643]
735	[1372, 1217]	2784	[1455, 1398]	4833	[6081, 6082]	6882	[7480, 5784]
736	[1373, 1374]	2785	[4072, 1447]	4834	[70, 6083]	6883	[7304, 3958]
737	[1375, 1376]	2786	[1494, 3060]	4835	[6084, 3276]	6884	[3305, 3566]
738	[1377, 1048]	2787	[4176, 1115]	4836	[6085, 4168]	6885	[7481, 4005]
739	[1378, 313]	2788	[4132, 4177]	4837	[6086, 6087]	6886	[7482, 346]
740	[1379, 1380]	2789	[4178, 3542]	4838	[1385, 5583]	6887	[7483, 3461]
741	[1381, 1382]	2790	[4179, 1513]	4839	[6088, 3173]	6888	[7484, 1046]
742	[1383, 962]	2791	[459, 2849]	4840	[6089, 5641]	6889	[5772, 2930]
743	[1384, 1385]	2792	[1670, 992]	4841	[3280, 3094]	6890	[7485, 3934]
744	[1386, 1387]	2793	[4180, 2990]	4842	[6090, 6091]	6891	[7486, 2933]
745	[961, 1388]	2794	[4181, 3518]	4843	[6092, 3269]	6892	[7487, 2884]
746	[1389, 988]	2795	[4182, 1608]	4844	[88, 3931]	6893	[7488, 1193]
747	[1390, 1391]	2796	[3801, 4183]	4845	[5892, 1140]	6894	[1225, 1495]
748	[1187, 1392]	2797	[4184, 1388]	4846	[6093, 3960]	6895	[7489, 1497]
749	[1393, 1394]	2798	[4185, 4046]	4847	[6094, 3882]	6896	[3899, 5598]

750	[1395, 1396]	2799	[4186, 3031]	4848	[6095, 3569]	6897	[7490, 3932]
751	[1397, 1398]	2800	[4187, 4188]	4849	[6096, 2947]	6898	[7491, 933]
752	[1399, 1400]	2801	[4189, 1671]	4850	[6097, 3140]	6899	[7492, 3708]
753	[1401, 1402]	2802	[1531, 4028]	4851	[465, 2831]	6900	[7493, 3210]
754	[1403, 1404]	2803	[4190, 4191]	4852	[6098, 2970]	6901	[7494, 3163]
755	[1405, 1406]	2804	[1071, 3307]	4853	[388, 6099]	6902	[982, 3837]
756	[1407, 1408]	2805	[4192, 4193]	4854	[6100, 5939]	6903	[3332, 3022]
757	[1409, 1410]	2806	[4194, 3204]	4855	[6080, 3325]	6904	[3844, 3229]
758	[1411, 1412]	2807	[3119, 4195]	4856	[317, 6053]	6905	[7495, 6478]
759	[1413, 1414]	2808	[3599, 3812]	4857	[6101, 3837]	6906	[5855, 971]
760	[1415, 380]	2809	[100, 4196]	4858	[3461, 6029]	6907	[1505, 6234]
761	[1416, 1417]	2810	[4197, 3381]	4859	[3556, 6102]	6908	[7496, 3662]
762	[1418, 1419]	2811	[3193, 1487]	4860	[1286, 3341]	6909	[7497, 260]
763	[1420, 1421]	2812	[3029, 1252]	4861	[1660, 1385]	6910	[4205, 1069]
764	[1422, 1423]	2813	[3432, 4029]	4862	[6103, 1402]	6911	[7498, 1017]
765	[1424, 1425]	2814	[4198, 4199]	4863	[4099, 6036]	6912	[3505, 7414]
766	[1426, 1177]	2815	[4200, 3789]	4864	[6104, 1197]	6913	[7499, 1660]
767	[1427, 1428]	2816	[4201, 411]	4865	[6105, 3900]	6914	[5821, 3010]
768	[1429, 123]	2817	[4202, 1278]	4866	[4175, 5729]	6915	[7500, 5599]
769	[1430, 1431]	2818	[4203, 3442]	4867	[6106, 3469]	6916	[5878, 6115]
770	[1432, 1433]	2819	[4204, 3908]	4868	[3152, 3718]	6917	[7501, 5823]
771	[1434, 1435]	2820	[3416, 4205]	4869	[6107, 3317]	6918	[7502, 3170]
772	[1436, 1437]	2821	[3464, 4206]	4870	[6108, 6109]	6919	[3069, 1055]
773	[1041, 1438]	2822	[4207, 3212]	4871	[3361, 5903]	6920	[7503, 1332]
774	[1439, 1440]	2823	[4208, 3948]	4872	[5903, 3510]	6921	[3783, 3497]
775	[1441, 993]	2824	[4209, 4210]	4873	[6110, 4153]	6922	[7504, 3858]
776	[1442, 1443]	2825	[1199, 1378]	4874	[6111, 1060]	6923	[7505, 3291]
777	[1444, 1245]	2826	[4211, 270]	4875	[2833, 3871]	6924	[7506, 1164]
778	[1445, 1446]	2827	[996, 3402]	4876	[6112, 3733]	6925	[4112, 5608]
779	[1447, 1219]	2828	[4212, 4213]	4877	[6113, 317]	6926	[7507, 3328]
780	[1448, 1449]	2829	[4214, 4215]	4878	[3489, 1049]	6927	[2908, 4175]
781	[1450, 1451]	2830	[2129, 4216]	4879	[6114, 1040]	6928	[7305, 3611]
782	[1452, 1453]	2831	[4217, 4218]	4880	[6115, 1311]	6929	[1537, 2905]
783	[1454, 1455]	2832	[4219, 4220]	4881	[3875, 5818]	6930	[7508, 3901]
784	[1456, 1457]	2833	[4221, 4222]	4882	[6116, 3662]	6931	[7509, 3281]
785	[1293, 1458]	2834	[4223, 4224]	4883	[6117, 6118]	6932	[7510, 268]
786	[442, 268]	2835	[4225, 4226]	4884	[1310, 6119]	6933	[3858, 6109]
787	[1459, 1460]	2836	[2060, 4227]	4885	[6120, 3441]	6934	[7511, 3605]
788	[1461, 1462]	2837	[2050, 4228]	4886	[6121, 3954]	6935	[5590, 1079]
789	[1463, 1464]	2838	[4229, 2711]	4887	[22, 6122]	6936	[6057, 18]
790	[1359, 1465]	2839	[4230, 2712]	4888	[2959, 6123]	6937	[7512, 6485]
791	[1466, 1467]	2840	[58, 4231]	4889	[6124, 112]	6938	[1337, 1023]
792	[1468, 1469]	2841	[2143, 2083]	4890	[6125, 1067]	6939	[7513, 462]
793	[1470, 1471]	2842	[2764, 1819]	4891	[6126, 6127]	6940	[7514, 5713]

794	[1472, 1473]	2843	[2424, 2614]	4892	[6128, 3424]	6941	[1460, 6054]
795	[1474, 1475]	2844	[4232, 4233]	4893	[1464, 3352]	6942	[3817, 4046]
796	[1476, 1477]	2845	[4234, 4235]	4894	[6047, 274]	6943	[7515, 6154]
797	[1478, 1479]	2846	[4236, 4237]	4895	[4143, 5677]	6944	[321, 366]
798	[1480, 1481]	2847	[4238, 4239]	4896	[1645, 6129]	6945	[7516, 6083]
799	[1482, 1483]	2848	[4240, 4241]	4897	[263, 5658]	6946	[2943, 3183]
800	[1484, 1485]	2849	[4242, 2259]	4898	[6130, 4212]	6947	[4101, 3048]
801	[1119, 1486]	2850	[4243, 908]	4899	[6131, 3663]	6948	[7517, 1033]
802	[1487, 1488]	2851	[4244, 4245]	4900	[6132, 3029]	6949	[7518, 1634]
803	[1489, 934]	2852	[4246, 1715]	4901	[6133, 6134]	6950	[7519, 1649]
804	[1490, 1110]	2853	[4247, 4248]	4902	[6135, 2892]	6951	[7520, 953]
805	[1491, 1492]	2854	[2446, 4249]	4903	[5665, 340]	6952	[7521, 4112]
806	[1493, 1494]	2855	[4250, 4251]	4904	[6136, 6137]	6953	[7522, 5943]
807	[1495, 1496]	2856	[1, 2380]	4905	[6138, 1611]	6954	[7523, 3177]
808	[1497, 1199]	2857	[4252, 1718]	4906	[6139, 6140]	6955	[394, 3460]
809	[1498, 1499]	2858	[4253, 4254]	4907	[6141, 1080]	6956	[3293, 4113]
810	[1500, 1501]	2859	[4255, 1956]	4908	[6142, 4076]	6957	[7524, 3640]
811	[1502, 1503]	2860	[216, 4256]	4909	[6143, 3417]	6958	[7525, 3996]
812	[1504, 1505]	2861	[4257, 4258]	4910	[6144, 1272]	6959	[7526, 3048]
813	[1506, 1507]	2862	[4259, 880]	4911	[6145, 1034]	6960	[7527, 3689]
814	[1508, 1509]	2863	[4260, 4261]	4912	[6146, 1241]	6961	[3190, 5585]
815	[1510, 1511]	2864	[4262, 4263]	4913	[3035, 319]	6962	[6254, 3551]
816	[1512, 1513]	2865	[4264, 2247]	4914	[6147, 3158]	6963	[7528, 1343]
817	[1361, 1514]	2866	[4265, 172]	4915	[6148, 5632]	6964	[6048, 6039]
818	[1465, 1515]	2867	[2008, 4266]	4916	[5663, 2839]	6965	[6348, 3846]
819	[1516, 1517]	2868	[4267, 2762]	4917	[6149, 5811]	6966	[4073, 92]
820	[1518, 1519]	2869	[4268, 4269]	4918	[1689, 3985]	6967	[7529, 1561]
821	[1520, 1521]	2870	[4270, 4271]	4919	[6150, 6122]	6968	[5716, 3311]
822	[1522, 1523]	2871	[4272, 4273]	4920	[461, 3079]	6969	[3103, 3836]
823	[1524, 1525]	2872	[4274, 4275]	4921	[3245, 1565]	6970	[3920, 106]
824	[1526, 1527]	2873	[4276, 4277]	4922	[6151, 1311]	6971	[7530, 2844]
825	[1528, 1529]	2874	[2345, 1899]	4923	[6152, 6153]	6972	[7531, 5958]
826	[1530, 1531]	2875	[4278, 4279]	4924	[6154, 3782]	6973	[7532, 4019]
827	[1532, 1533]	2876	[4216, 4280]	4925	[3938, 3967]	6974	[3291, 1120]
828	[1534, 1535]	2877	[632, 707]	4926	[6155, 3746]	6975	[3468, 3405]
829	[1536, 1537]	2878	[4281, 4282]	4927	[6156, 3497]	6976	[7533, 7382]
830	[1538, 1539]	2879	[4283, 4284]	4928	[6157, 1038]	6977	[3065, 1396]
831	[1540, 1320]	2880	[4285, 4286]	4929	[6007, 65]	6978	[7534, 5620]
832	[1541, 1542]	2881	[4287, 4288]	4930	[5645, 6158]	6979	[7535, 4059]
833	[1543, 1407]	2882	[4289, 1807]	4931	[6159, 1630]	6980	[7536, 5898]
834	[1276, 1544]	2883	[4290, 4291]	4932	[6160, 3489]	6981	[7537, 3634]
835	[1545, 1546]	2884	[4292, 867]	4933	[319, 1371]	6982	[7538, 4139]
836	[1547, 1548]	2885	[4293, 2568]	4934	[6161, 3792]	6983	[6127, 3666]
837	[1549, 936]	2886	[2448, 2336]	4935	[6162, 4146]	6984	[3698, 4078]

838	[1550, 1551]	2887	[4294, 229]	4936	[1479, 5817]	6985	[7317, 3698]
839	[999, 1552]	2888	[4295, 2307]	4937	[3450, 3102]	6986	[7539, 467]
840	[1553, 1554]	2889	[2658, 2409]	4938	[1368, 6163]	6987	[357, 3739]
841	[1555, 1556]	2890	[4296, 39]	4939	[2945, 1134]	6988	[404, 3115]
842	[1402, 397]	2891	[1748, 606]	4940	[6164, 3838]	6989	[3614, 3492]
843	[1557, 1558]	2892	[1750, 4297]	4941	[6165, 3580]	6990	[5870, 3552]
844	[1559, 1524]	2893	[4298, 4299]	4942	[6166, 6020]	6991	[7540, 3865]
845	[1560, 1561]	2894	[4300, 126]	4943	[998, 6167]	6992	[7541, 6268]
846	[1499, 1562]	2895	[4301, 2713]	4944	[6168, 3382]	6993	[7542, 2999]
847	[1563, 391]	2896	[4302, 1999]	4945	[6169, 4123]	6994	[1677, 3678]
848	[1564, 1565]	2897	[4303, 4304]	4946	[363, 1532]	6995	[3726, 6087]
849	[994, 1566]	2898	[4305, 4306]	4947	[6170, 69]	6996	[5793, 1606]
850	[1567, 1568]	2899	[4307, 4308]	4948	[3436, 966]	6997	[7543, 6119]
851	[1435, 1569]	2900	[4309, 551]	4949	[1306, 3445]	6998	[7544, 959]
852	[1570, 1571]	2901	[4310, 2347]	4950	[6171, 3117]	6999	[7545, 6567]
853	[1572, 1573]	2902	[4311, 2524]	4951	[6172, 3907]	7000	[7546, 3448]
854	[1574, 1575]	2903	[743, 503]	4952	[5691, 3638]	7001	[6082, 1026]
855	[1392, 1576]	2904	[747, 517]	4953	[6173, 6174]	7002	[7547, 3130]
856	[1577, 1578]	2905	[4312, 2071]	4954	[6175, 5790]	7003	[6307, 3616]
857	[1579, 1580]	2906	[4313, 4314]	4955	[6176, 6037]	7004	[3536, 4090]
858	[1581, 1344]	2907	[4315, 508]	4956	[6177, 3807]	7005	[7548, 2984]
859	[1082, 1582]	2908	[2748, 4316]	4957	[5926, 3241]	7006	[3606, 3097]
860	[1583, 1584]	2909	[4317, 4318]	4958	[6178, 4195]	7007	[104, 3514]
861	[1585, 1586]	2910	[4319, 495]	4959	[6179, 5651]	7008	[6099, 2977]
862	[1587, 1588]	2911	[2171, 535]	4960	[6180, 5767]	7009	[5617, 384]
863	[1589, 1590]	2912	[4320, 4321]	4961	[6181, 6182]	7010	[7549, 2987]
864	[1591, 1592]	2913	[4322, 4323]	4962	[6183, 6184]	7011	[7550, 6149]
865	[1593, 1556]	2914	[4324, 4244]	4963	[2956, 1045]	7012	[7551, 1407]
866	[1566, 1594]	2915	[4325, 2186]	4964	[6185, 4090]	7013	[7552, 3624]
867	[1496, 1595]	2916	[4326, 2554]	4965	[6186, 98]	7014	[2975, 3969]
868	[1596, 1466]	2917	[4327, 4328]	4966	[6187, 263]	7015	[7553, 274]
869	[450, 1468]	2918	[705, 1980]	4967	[6188, 265]	7016	[3891, 1466]
870	[1597, 1598]	2919	[4329, 1740]	4968	[6189, 6190]	7017	[3387, 2945]
871	[1599, 1600]	2920	[1790, 4330]	4969	[6191, 1645]	7018	[7554, 2996]
872	[1601, 1602]	2921	[4331, 2692]	4970	[6192, 1232]	7019	[3551, 7304]
873	[1483, 1603]	2922	[4332, 4333]	4971	[6193, 1595]	7020	[7555, 4125]
874	[1604, 1605]	2923	[2090, 4334]	4972	[3676, 3715]	7021	[6068, 982]
875	[1606, 1607]	2924	[1922, 666]	4973	[6194, 3134]	7022	[7556, 5785]
876	[1608, 1548]	2925	[4335, 650]	4974	[369, 3132]	7023	[7557, 5590]
877	[1609, 1610]	2926	[4336, 768]	4975	[6195, 3570]	7024	[7558, 5692]
878	[106, 1611]	2927	[4337, 579]	4976	[6196, 3926]	7025	[5885, 5764]
879	[1612, 1613]	2928	[4220, 4338]	4977	[3704, 3751]	7026	[7559, 3947]
880	[1614, 1615]	2929	[4339, 1802]	4978	[6197, 1296]	7027	[7560, 6278]
881	[1616, 1617]	2930	[4340, 552]	4979	[6198, 1478]	7028	[7561, 2905]

882	[1618, 1619]	2931	[4341, 4342]	4980	[6199, 1271]	7029	[7562, 7541]
883	[111, 1620]	2932	[2430, 4343]	4981	[6200, 3318]	7030	[7563, 7414]
884	[1621, 1622]	2933	[506, 2792]	4982	[6201, 4152]	7031	[1168, 3799]
885	[1623, 1624]	2934	[4344, 2459]	4983	[6202, 6040]	7032	[7564, 381]
886	[1625, 1626]	2935	[4345, 767]	4984	[3569, 5710]	7033	[7565, 1503]
887	[1627, 1545]	2936	[4346, 1709]	4985	[6119, 3664]	7034	[7566, 96]
888	[1628, 1629]	2937	[4347, 4348]	4986	[5789, 370]	7035	[5828, 3731]
889	[1630, 77]	2938	[1892, 4349]	4987	[4069, 1170]	7036	[5848, 4212]
890	[1631, 308]	2939	[4350, 1727]	4988	[6203, 3192]	7037	[3318, 5753]
891	[1632, 967]	2940	[4351, 4352]	4989	[1178, 1174]	7038	[1651, 3245]
892	[1633, 1634]	2941	[4353, 4354]	4990	[6204, 5732]	7039	[7567, 3234]
893	[1635, 1636]	2942	[4355, 2299]	4991	[6205, 1342]	7040	[454, 1144]
894	[1637, 1638]	2943	[2267, 4356]	4992	[6206, 6207]	7041	[7568, 277]
895	[1639, 1640]	2944	[4357, 2045]	4993	[1469, 89]	7042	[7569, 955]
896	[1641, 1642]	2945	[4358, 2019]	4994	[6208, 5964]	7043	[5829, 2856]
897	[1643, 972]	2946	[4359, 2600]	4995	[3840, 3124]	7044	[7570, 1686]
898	[1644, 1645]	2947	[875, 2252]	4996	[6209, 5830]	7045	[7571, 348]
899	[1646, 1647]	2948	[4360, 4361]	4997	[6210, 23]	7046	[6301, 101]
900	[1648, 1649]	2949	[4362, 4363]	4998	[6211, 434]	7047	[7572, 5561]
901	[1650, 1651]	2950	[4364, 690]	4999	[1529, 6212]	7048	[3729, 6299]
902	[1652, 1653]	2951	[4365, 4366]	5000	[6213, 4021]	7049	[7573, 3332]
903	[1654, 1655]	2952	[4367, 2512]	5001	[6214, 5577]	7050	[3221, 939]
904	[1353, 1656]	2953	[4368, 4369]	5002	[3661, 3568]	7051	[7574, 1317]
905	[1657, 1658]	2954	[4370, 4371]	5003	[5605, 3875]	7052	[3023, 3454]
906	[1659, 1660]	2955	[4372, 4373]	5004	[6134, 359]	7053	[7575, 3006]
907	[1661, 1150]	2956	[4374, 2694]	5005	[3548, 5702]	7054	[7576, 3793]
908	[1662, 1663]	2957	[4375, 2135]	5006	[3444, 6117]	7055	[7577, 4093]
909	[1274, 1664]	2958	[4376, 4377]	5007	[5710, 6127]	7056	[7578, 1644]
910	[1665, 1666]	2959	[4378, 4225]	5008	[3571, 3646]	7057	[7579, 5742]
911	[1667, 1668]	2960	[4379, 811]	5009	[5850, 5878]	7058	[3371, 3576]
912	[1669, 1670]	2961	[4380, 2037]	5010	[6215, 2849]	7059	[7580, 4041]
913	[1255, 1671]	2962	[2784, 157]	5011	[6216, 6217]	7060	[6485, 3113]
914	[1672, 1673]	2963	[718, 1886]	5012	[6218, 6184]	7061	[7581, 4206]
915	[1674, 1675]	2964	[4381, 2355]	5013	[6219, 3802]	7062	[1554, 474]
916	[1676, 1677]	2965	[4382, 2466]	5014	[6220, 1152]	7063	[7582, 3642]
917	[1678, 1679]	2966	[4383, 2323]	5015	[6221, 4001]	7064	[7583, 1591]
918	[1680, 1681]	2967	[4384, 4385]	5016	[6222, 483]	7065	[3143, 93]
919	[1682, 1683]	2968	[4386, 539]	5017	[6223, 5712]	7066	[3465, 2896]
920	[1684, 1685]	2969	[4387, 4388]	5018	[3969, 1422]	7067	[7584, 5780]
921	[1686, 1687]	2970	[4389, 2699]	5019	[6224, 64]	7068	[7585, 3584]
922	[1688, 1689]	2971	[2700, 4390]	5020	[6225, 1517]	7069	[6087, 5873]
923	[1690, 1075]	2972	[4391, 1847]	5021	[3809, 1628]	7070	[7586, 3402]
924	[1691, 1692]	2973	[2152, 4392]	5022	[3708, 3303]	7071	[408, 4143]
925	[1693, 1694]	2974	[2612, 4393]	5023	[6226, 3695]	7072	[3469, 3767]

926	[1695, 1696]	2975	[4394, 610]	5024	[6227, 3779]	7073	[6070, 3900]
927	[1697, 1698]	2976	[4395, 4396]	5025	[5563, 5958]	7074	[343, 6015]
928	[1699, 1700]	2977	[4397, 4234]	5026	[6228, 5885]	7075	[5786, 1313]
929	[1701, 1702]	2978	[4398, 2716]	5027	[1408, 3039]	7076	[3136, 3262]
930	[1703, 1704]	2979	[126, 523]	5028	[6229, 2997]	7077	[5708, 3243]
931	[1705, 1706]	2980	[4399, 560]	5029	[1304, 5789]	7078	[7587, 1682]
932	[1707, 1708]	2981	[825, 2567]	5030	[6230, 3073]	7079	[3523, 6154]
933	[1709, 1710]	2982	[2674, 4400]	5031	[1679, 5557]	7080	[7588, 3595]
934	[1711, 1712]	2983	[4401, 4402]	5032	[3501, 4110]	7081	[7589, 5581]
935	[624, 1713]	2984	[8, 516]	5033	[6231, 3707]	7082	[3923, 1450]
936	[756, 1714]	2985	[10, 2760]	5034	[6232, 322]	7083	[7590, 3567]
937	[1715, 1716]	2986	[4403, 2261]	5035	[6233, 447]	7084	[6422, 3920]
938	[1717, 1718]	2987	[4404, 4405]	5036	[3678, 5616]	7085	[942, 3694]
939	[1719, 1720]	2988	[4406, 2297]	5037	[6234, 1262]	7086	[3241, 5780]
940	[1721, 1722]	2989	[4407, 4408]	5038	[6235, 4205]	7087	[4172, 3085]
941	[1723, 1724]	2990	[2113, 2186]	5039	[6236, 366]	7088	[6269, 6134]
942	[1725, 557]	2991	[4409, 1860]	5040	[6237, 3264]	7089	[6118, 7541]
943	[1726, 1727]	2992	[4410, 2312]	5041	[3079, 3903]	7090	[5889, 3702]
944	[1728, 1729]	2993	[4411, 821]	5042	[6238, 1520]	7091	[7591, 85]
945	[1730, 1731]	2994	[4412, 4413]	5043	[3612, 2993]	7092	[7592, 3675]
946	[1732, 1733]	2995	[4414, 2233]	5044	[1129, 5992]	7093	[7593, 3303]
947	[1734, 1735]	2996	[4415, 4279]	5045	[5948, 5602]	7094	[7594, 6163]
948	[1736, 1737]	2997	[4416, 4417]	5046	[6239, 3830]	7095	[5619, 2915]
949	[806, 1738]	2998	[4418, 824]	5047	[6240, 1306]	7096	[7595, 3330]
950	[1739, 1740]	2999	[1698, 1728]	5048	[6241, 938]	7097	[5722, 1210]
951	[1741, 624]	3000	[1713, 4419]	5049	[4091, 1436]	7098	[7596, 3606]
952	[1742, 781]	3001	[4420, 618]	5050	[1473, 3055]	7099	[7597, 1607]
953	[1743, 1744]	3002	[4421, 1983]	5051	[6242, 416]	7100	[7598, 998]
954	[1745, 1746]	3003	[4422, 792]	5052	[6243, 6232]	7101	[3212, 3779]
955	[1747, 1748]	3004	[4423, 4424]	5053	[5612, 6010]	7102	[7599, 4144]
956	[1749, 1750]	3005	[2750, 4425]	5054	[6244, 1145]	7103	[7600, 3294]
957	[1751, 1752]	3006	[4426, 2175]	5055	[6245, 6246]	7104	[7601, 4002]
958	[212, 221]	3007	[4427, 4428]	5056	[6247, 6116]	7105	[3963, 3237]
959	[699, 1753]	3008	[4429, 2784]	5057	[6248, 4094]	7106	[3530, 2983]
960	[1754, 1755]	3009	[2185, 1863]	5058	[2928, 6232]	7107	[7602, 1560]
961	[1756, 1757]	3010	[4430, 4431]	5059	[6249, 3659]	7108	[7603, 5804]
962	[1758, 1759]	3011	[4432, 4433]	5060	[6250, 1119]	7109	[7604, 6325]
963	[1760, 1761]	3012	[4434, 4435]	5061	[6251, 3674]	7110	[438, 1352]
964	[1762, 1763]	3013	[547, 797]	5062	[6252, 3694]	7111	[1278, 5783]
965	[1764, 1765]	3014	[4436, 2303]	5063	[92, 254]	7112	[7605, 2998]
966	[1766, 1763]	3015	[4437, 4438]	5064	[6253, 3552]	7113	[7606, 1180]
967	[1767, 1768]	3016	[618, 4439]	5065	[3176, 1669]	7114	[7607, 3268]
968	[1769, 1706]	3017	[4440, 2480]	5066	[3540, 6254]	7115	[416, 1374]
969	[1770, 1771]	3018	[4441, 2033]	5067	[6255, 5698]	7116	[7608, 6120]

970	[1772, 1773]	3019	[4442, 590]	5068	[5555, 6081]	7117	[7609, 3665]
971	[1774, 1775]	3020	[2247, 4443]	5069	[6256, 4145]	7118	[7610, 1383]
972	[1776, 1777]	3021	[4444, 2464]	5070	[5942, 2844]	7119	[3186, 4026]
973	[1778, 1779]	3022	[4445, 2340]	5071	[6257, 1149]	7120	[2979, 266]
974	[1780, 1781]	3023	[4446, 709]	5072	[2865, 5698]	7121	[7611, 4018]
975	[1782, 1783]	3024	[4447, 4448]	5073	[6184, 6104]	7122	[5783, 4061]
976	[1784, 1785]	3025	[2188, 4248]	5074	[6258, 1263]	7123	[5805, 3173]
977	[1786, 1787]	3026	[4449, 2425]	5075	[6259, 4062]	7124	[7612, 7305]
978	[1788, 853]	3027	[4450, 2558]	5076	[3883, 1692]	7125	[7613, 1096]
979	[1789, 1790]	3028	[2704, 1944]	5077	[3315, 1094]	7126	[7614, 5705]
980	[193, 1791]	3029	[600, 1701]	5078	[6260, 1625]	7127	[7615, 3216]
981	[1792, 1793]	3030	[4451, 2580]	5079	[6261, 1533]	7128	[7616, 3811]
982	[1794, 1795]	3031	[2699, 4452]	5080	[6262, 1298]	7129	[7617, 3555]
983	[1796, 1797]	3032	[4453, 504]	5081	[6263, 1113]	7130	[5875, 6007]
984	[1798, 1799]	3033	[4454, 4455]	5082	[6264, 3345]	7131	[1283, 3477]
985	[1800, 1801]	3034	[4456, 2370]	5083	[6265, 3036]	7132	[5577, 1244]
986	[1802, 880]	3035	[4457, 4448]	5084	[4031, 6246]	7133	[1576, 3528]
987	[32, 1803]	3036	[4458, 2663]	5085	[5972, 3565]	7134	[7618, 5875]
988	[1804, 1805]	3037	[4459, 1881]	5086	[3442, 6266]	7135	[7619, 1249]
989	[1806, 1807]	3038	[2554, 4460]	5087	[3663, 6267]	7136	[7620, 948]
990	[1808, 1809]	3039	[4461, 2093]	5088	[6268, 6269]	7137	[4121, 248]
991	[711, 1810]	3040	[4462, 2160]	5089	[1201, 3659]	7138	[7621, 431]
992	[788, 1811]	3041	[4463, 4375]	5090	[3646, 3548]	7139	[3511, 4210]
993	[1812, 1813]	3042	[4464, 4465]	5091	[3660, 5605]	7140	[7622, 1002]
994	[549, 1814]	3043	[1838, 4466]	5092	[6016, 6120]	7141	[7623, 1111]
995	[1815, 1816]	3044	[4467, 4468]	5093	[6270, 437]	7142	[7624, 6417]
996	[1817, 1818]	3045	[4469, 2344]	5094	[6153, 1599]	7143	[7625, 3795]
997	[1819, 919]	3046	[812, 498]	5095	[6271, 1606]	7144	[7626, 4196]
998	[485, 1820]	3047	[4470, 563]	5096	[3995, 2900]	7145	[7627, 1103]
999	[489, 1821]	3048	[4471, 1745]	5097	[6272, 3511]	7146	[3453, 4009]
1000	[1822, 1823]	3049	[4472, 4473]	5098	[6273, 254]	7147	[944, 414]
1001	[1824, 1825]	3050	[2760, 1996]	5099	[6274, 3479]	7148	[7628, 1047]
1002	[1826, 1827]	3051	[4474, 4475]	5100	[6275, 4003]	7149	[1222, 2972]
1003	[1828, 1700]	3052	[4476, 2732]	5101	[3997, 3909]	7150	[3302, 3315]
1004	[1829, 1830]	3053	[4477, 844]	5102	[6276, 3933]	7151	[7629, 4092]
1005	[1831, 1832]	3054	[4478, 2257]	5103	[3168, 1114]	7152	[7630, 2877]
1006	[1833, 1834]	3055	[4479, 2456]	5104	[2926, 334]	7153	[3491, 1118]
1007	[1835, 1836]	3056	[42, 2233]	5105	[6277, 5892]	7154	[3223, 2949]
1008	[1837, 1838]	3057	[4480, 4481]	5106	[3407, 6278]	7155	[7631, 668]
1009	[1839, 11]	3058	[4482, 1986]	5107	[6279, 3194]	7156	[6417, 930]
1010	[1840, 1841]	3059	[4483, 4311]	5108	[6109, 5756]	7157	[7632, 942]
1011	[1842, 563]	3060	[4484, 873]	5109	[6280, 5609]	7158	[6190, 4103]
1012	[157, 1843]	3061	[4485, 509]	5110	[6281, 3935]	7159	[7633, 1071]
1013	[1844, 811]	3062	[4486, 4373]	5111	[6282, 3539]	7160	[7634, 400]

1014	[1845, 1846]	3063	[4487, 842]	5112	[1428, 5754]	7161	[7635, 1294]
1015	[1847, 1848]	3064	[4488, 4489]	5113	[6283, 1185]	7162	[3352, 1355]
1016	[1849, 1850]	3065	[4490, 4284]	5114	[6284, 5704]	7163	[7636, 3866]
1017	[1851, 1852]	3066	[4491, 4492]	5115	[6091, 1490]	7164	[7637, 3764]
1018	[1853, 1854]	3067	[4493, 4494]	5116	[6285, 5888]	7165	[6402, 3365]
1019	[570, 1855]	3068	[4495, 4496]	5117	[3956, 6183]	7166	[3700, 3457]
1020	[1856, 1857]	3069	[4497, 4498]	5118	[6286, 1279]	7167	[7638, 6047]
1021	[1858, 1859]	3070	[4499, 4500]	5119	[1620, 6153]	7168	[7639, 255]
1022	[1860, 1861]	3071	[4501, 2121]	5120	[6287, 6022]	7169	[7640, 1390]
1023	[1862, 1863]	3072	[4502, 2123]	5121	[6288, 1357]	7170	[7641, 5891]
1024	[1864, 1865]	3073	[4503, 4504]	5122	[1206, 4172]	7171	[7642, 1260]
1025	[900, 1866]	3074	[4505, 4506]	5123	[6289, 4031]	7172	[7643, 5616]
1026	[1867, 1868]	3075	[4507, 188]	5124	[3243, 1323]	7173	[2873, 4018]
1027	[1869, 1833]	3076	[4508, 4509]	5125	[6290, 1562]	7174	[7644, 350]
1028	[1870, 1871]	3077	[4510, 4511]	5126	[6291, 3808]	7175	[959, 1162]
1029	[1872, 1873]	3078	[4512, 4467]	5127	[6292, 3810]	7176	[7645, 3067]
1030	[1874, 1875]	3079	[4513, 2278]	5128	[2845, 5692]	7177	[7646, 1408]
1031	[1876, 1877]	3080	[4514, 4515]	5129	[1515, 950]	7178	[7647, 4007]
1032	[1878, 1879]	3081	[4516, 4517]	5130	[6293, 1268]	7179	[4055, 5757]
1033	[1880, 1881]	3082	[707, 4518]	5131	[6294, 1163]	7180	[7648, 6016]
1034	[1882, 1883]	3083	[4519, 4520]	5132	[1458, 6149]	7181	[3067, 1166]
1035	[1884, 619]	3084	[2198, 241]	5133	[6295, 1473]	7182	[938, 3976]
1036	[1885, 834]	3085	[4521, 2084]	5134	[6296, 3322]	7183	[7649, 3635]
1037	[497, 910]	3086	[4522, 4523]	5135	[6297, 5722]	7184	[7650, 3292]
1038	[1886, 1887]	3087	[4524, 4525]	5136	[6, 4038]	7185	[7651, 420]
1039	[1888, 1889]	3088	[4526, 4527]	5137	[6298, 6299]	7186	[7652, 4099]
1040	[1890, 230]	3089	[2140, 185]	5138	[6300, 3047]	7187	[7653, 116]
1041	[1891, 1892]	3090	[4528, 2517]	5139	[4188, 6301]	7188	[3557, 1380]
1042	[1893, 1894]	3091	[1911, 2510]	5140	[6302, 4151]	7189	[7654, 1167]
1043	[1895, 1859]	3092	[4529, 4431]	5141	[6303, 5686]	7190	[5623, 3887]
1044	[1896, 787]	3093	[4435, 2258]	5142	[6304, 5855]	7191	[7655, 976]
1045	[1897, 202]	3094	[4530, 843]	5143	[6305, 5848]	7192	[7656, 952]
1046	[1898, 742]	3095	[2368, 4531]	5144	[6306, 1310]	7193	[1330, 6217]
1047	[1899, 1900]	3096	[4532, 4533]	5145	[3111, 5612]	7194	[7657, 1140]
1048	[1901, 1779]	3097	[4534, 2689]	5146	[435, 6307]	7195	[7658, 1664]
1049	[1902, 1903]	3098	[4388, 4273]	5147	[6308, 6015]	7196	[1036, 5901]
1050	[1904, 1905]	3099	[1823, 1869]	5148	[6309, 3883]	7197	[7659, 3894]
1051	[1906, 1907]	3100	[4535, 653]	5149	[6310, 6311]	7198	[7660, 1267]
1052	[1908, 682]	3101	[163, 209]	5150	[963, 3683]	7199	[3205, 2935]
1053	[1909, 738]	3102	[2472, 56]	5151	[3728, 6312]	7200	[7661, 3812]
1054	[1910, 1911]	3103	[4536, 4537]	5152	[6313, 3530]	7201	[7662, 3049]
1055	[1912, 720]	3104	[4538, 1760]	5153	[6314, 1540]	7202	[7663, 372]
1056	[1913, 1914]	3105	[4539, 2571]	5154	[6315, 3670]	7203	[7664, 454]
1057	[1915, 1916]	3106	[4540, 4541]	5155	[6316, 1334]	7204	[7665, 279]

1058	[1917, 1918]	3107	[4542, 4417]	5156	[6317, 3756]	7205	[7666, 3986]
1059	[1919, 1920]	3108	[4543, 620]	5157	[6318, 1369]	7206	[1058, 3482]
1060	[1921, 1922]	3109	[4544, 2527]	5158	[6319, 3904]	7207	[7667, 4026]
1061	[1923, 1924]	3110	[4545, 4546]	5159	[3573, 4145]	7208	[7668, 1186]
1062	[1925, 1926]	3111	[4547, 596]	5160	[5755, 3171]	7209	[7669, 3174]
1063	[1927, 1928]	3112	[4548, 4549]	5161	[3480, 3561]	7210	[7670, 3599]
1064	[1929, 683]	3113	[4550, 34]	5162	[6320, 373]	7211	[1642, 100]
1065	[1930, 1931]	3114	[2303, 4551]	5163	[3151, 6321]	7212	[3037, 3525]
1066	[1932, 1933]	3115	[4552, 2126]	5164	[3554, 3995]	7213	[6421, 3717]
1067	[1934, 1935]	3116	[4553, 2722]	5165	[6322, 1516]	7214	[7671, 6118]
1068	[1936, 149]	3117	[4554, 2723]	5166	[6323, 107]	7215	[7672, 5649]
1069	[1937, 1834]	3118	[4555, 877]	5167	[6324, 2956]	7216	[7673, 3137]
1070	[1938, 1939]	3119	[4556, 4344]	5168	[1613, 3508]	7217	[396, 3449]
1071	[1940, 1941]	3120	[4557, 578]	5169	[6018, 3027]	7218	[6325, 3476]
1072	[1942, 1943]	3121	[4558, 4559]	5170	[5742, 6325]	7219	[7674, 1336]
1073	[1944, 1790]	3122	[4560, 1709]	5171	[6326, 3480]	7220	[1551, 3709]
1074	[1945, 1841]	3123	[4561, 4562]	5172	[6327, 3331]	7221	[1289, 3672]
1075	[1946, 497]	3124	[4563, 4564]	5173	[1123, 3394]	7222	[7675, 2979]
1076	[1947, 1948]	3125	[4565, 4566]	5174	[3640, 3750]	7223	[4033, 3915]
1077	[1949, 1950]	3126	[4567, 4568]	5175	[6328, 4140]	7224	[7676, 6352]
1078	[1951, 1952]	3127	[1881, 609]	5176	[6329, 3492]	7225	[7677, 3693]
1079	[1953, 1954]	3128	[4273, 4549]	5177	[3592, 3989]	7226	[3960, 951]
1080	[1955, 1956]	3129	[4569, 2608]	5178	[6330, 5603]	7227	[423, 3165]
1081	[1957, 681]	3130	[4455, 217]	5179	[6331, 6117]	7228	[7678, 5706]
1082	[1958, 1959]	3131	[4570, 4308]	5180	[6332, 1538]	7229	[7679, 3074]
1083	[1960, 1961]	3132	[4571, 4572]	5181	[6333, 436]	7230	[446, 3204]
1084	[1962, 1963]	3133	[4573, 818]	5182	[6334, 6048]	7231	[7680, 6018]
1085	[1964, 1965]	3134	[4574, 48]	5183	[6335, 3824]	7232	[7681, 3162]
1086	[1966, 1967]	3135	[4575, 1873]	5184	[2924, 1665]	7233	[7682, 3070]
1087	[1968, 1969]	3136	[4576, 2238]	5185	[6336, 6081]	7234	[3860, 5571]
1088	[1970, 1971]	3137	[155, 2278]	5186	[6337, 6099]	7235	[7683, 6269]
1089	[1972, 1973]	3138	[4577, 4578]	5187	[6338, 3307]	7236	[398, 6022]
1090	[1974, 1975]	3139	[4579, 659]	5188	[6339, 3688]	7237	[3648, 4119]
1091	[1846, 1976]	3140	[2507, 2710]	5189	[3478, 6064]	7238	[7684, 3309]
1092	[1977, 1978]	3141	[4580, 4581]	5190	[1013, 419]	7239	[7685, 3348]
1093	[1979, 1980]	3142	[4582, 4583]	5191	[4141, 4053]	7240	[7686, 1059]
1094	[1981, 1982]	3143	[4584, 2651]	5192	[6340, 3208]	7241	[5713, 3459]
1095	[1978, 631]	3144	[4585, 718]	5193	[6341, 3085]	7242	[3838, 3316]
1096	[1983, 1836]	3145	[4586, 1942]	5194	[6342, 5814]	7243	[4193, 3583]
1097	[1984, 1985]	3146	[4587, 4588]	5195	[6343, 6123]	7244	[5819, 3149]
1098	[1986, 1987]	3147	[4589, 581]	5196	[3000, 3439]	7245	[7687, 1480]
1099	[672, 1988]	3148	[4590, 4591]	5197	[6344, 5746]	7246	[7688, 355]
1100	[1989, 572]	3149	[4592, 4593]	5198	[6345, 3980]	7247	[7689, 78]
1101	[1990, 866]	3150	[1914, 4594]	5199	[6346, 6268]	7248	[5930, 3410]

1102	[1991, 1832]	3151	[4595, 4596]	5200	[6347, 6348]	7249	[947, 2894]
1103	[1992, 1993]	3152	[4597, 4598]	5201	[3624, 26]	7250	[3298, 6311]
1104	[1994, 1995]	3153	[764, 4599]	5202	[402, 5814]	7251	[7690, 939]
1105	[179, 586]	3154	[4600, 4601]	5203	[6349, 2897]	7252	[1683, 3832]
1106	[1996, 1997]	3155	[4602, 702]	5204	[3789, 4070]	7253	[7691, 303]
1107	[1998, 1999]	3156	[2524, 4603]	5205	[2904, 5745]	7254	[7692, 1005]
1108	[2000, 1839]	3157	[4604, 607]	5206	[6350, 4126]	7255	[78, 1610]
1109	[2001, 2002]	3158	[4605, 4606]	5207	[4139, 1509]	7256	[7693, 1050]
1110	[2003, 2004]	3159	[4607, 4608]	5208	[2977, 3774]	7257	[7694, 6023]
1111	[685, 657]	3160	[4609, 4546]	5209	[1263, 3740]	7258	[1003, 5828]
1112	[2005, 2006]	3161	[4610, 2168]	5210	[6351, 1142]	7259	[5726, 3906]
1113	[2007, 2008]	3162	[4611, 4332]	5211	[3004, 6352]	7260	[3425, 3367]
1114	[2009, 568]	3163	[4612, 798]	5212	[5985, 3643]	7261	[7695, 1447]
1115	[2010, 2011]	3164	[4613, 4614]	5213	[6353, 66]	7262	[1398, 3930]
1116	[2012, 2013]	3165	[4615, 4616]	5214	[1344, 4132]	7263	[7696, 1617]
1117	[2014, 2015]	3166	[4617, 612]	5215	[6354, 1409]	7264	[7697, 3778]
1118	[2016, 2017]	3167	[4618, 2010]	5216	[6355, 5570]	7265	[1622, 5985]
1119	[2018, 2019]	3168	[4619, 1827]	5217	[6356, 3510]	7266	[4199, 6116]
1120	[2020, 2021]	3169	[4620, 923]	5218	[6357, 478]	7267	[4153, 3785]
1121	[2022, 2023]	3170	[2286, 201]	5219	[6358, 3611]	7268	[7698, 6266]
1122	[2024, 2025]	3171	[4621, 730]	5220	[6359, 3536]	7269	[3767, 3898]
1123	[2026, 2027]	3172	[2625, 2493]	5221	[4110, 3944]	7270	[7699, 1502]
1124	[2028, 2029]	3173	[4622, 2177]	5222	[467, 1601]	7271	[7700, 3224]
1125	[2030, 1742]	3174	[4623, 4624]	5223	[5808, 85]	7272	[1203, 1176]
1126	[2031, 2032]	3175	[4625, 1756]	5224	[6360, 3737]	7273	[493, 5039]
1127	[2033, 900]	3176	[4626, 2288]	5225	[2961, 3585]	7274	[7701, 1998]
1128	[2034, 2035]	3177	[4627, 4375]	5226	[6361, 442]	7275	[7702, 7231]
1129	[1883, 2036]	3178	[4628, 4486]	5227	[5988, 1092]	7276	[7703, 5210]
1130	[2037, 2038]	3179	[4629, 2025]	5228	[6362, 479]	7277	[7704, 4912]
1131	[2039, 2040]	3180	[4630, 4489]	5229	[6363, 997]	7278	[2738, 205]
1132	[2041, 2042]	3181	[560, 2789]	5230	[6364, 5947]	7279	[7208, 4293]
1133	[2043, 2044]	3182	[2653, 4631]	5231	[6365, 2960]	7280	[7705, 1981]
1134	[2045, 2046]	3183	[4632, 4633]	5232	[3947, 4064]	7281	[7706, 4366]
1135	[2047, 2048]	3184	[4634, 211]	5233	[1245, 4]	7282	[7707, 4455]
1136	[2049, 2050]	3185	[4635, 2156]	5234	[6366, 3721]	7283	[7708, 4955]
1137	[2051, 1973]	3186	[4636, 2179]	5235	[6367, 2860]	7284	[6622, 2781]
1138	[2052, 2053]	3187	[4637, 4638]	5236	[3753, 5915]	7285	[2672, 4389]
1139	[2054, 2055]	3188	[4639, 1736]	5237	[6368, 5568]	7286	[5150, 4774]
1140	[2056, 2057]	3189	[2357, 4640]	5238	[1546, 4140]	7287	[7161, 4978]
1141	[2058, 807]	3190	[4641, 825]	5239	[1638, 5588]	7288	[1969, 4327]
1142	[2059, 2060]	3191	[2493, 4633]	5240	[6369, 6370]	7289	[7709, 4805]
1143	[2061, 2062]	3192	[4642, 733]	5241	[6371, 6054]	7290	[7710, 4637]
1144	[2063, 2064]	3193	[1887, 2558]	5242	[2981, 3791]	7291	[7711, 784]
1145	[2065, 701]	3194	[4643, 2812]	5243	[6372, 1335]	7292	[7712, 5473]

1146	[2066, 2067]	3195	[4258, 2490]	5244	[6373, 6312]	7293	[7713, 6948]
1147	[2068, 531]	3196	[230, 2071]	5245	[6374, 341]	7294	[5139, 7056]
1148	[2069, 1752]	3197	[4644, 826]	5246	[6375, 321]	7295	[4723, 4444]
1149	[2070, 2018]	3198	[4645, 4646]	5247	[6376, 5745]	7296	[7714, 1936]
1150	[2071, 602]	3199	[524, 838]	5248	[6163, 270]	7297	[804, 4554]
1151	[2072, 2073]	3200	[2685, 4647]	5249	[6377, 3794]	7298	[2347, 5147]
1152	[703, 2074]	3201	[4648, 4649]	5250	[6378, 1248]	7299	[2552, 7129]
1153	[2075, 2076]	3202	[4650, 4651]	5251	[6379, 1276]	7300	[4858, 543]
1154	[2077, 2078]	3203	[4286, 2643]	5252	[6380, 1695]	7301	[4901, 5350]
1155	[2079, 2080]	3204	[4652, 4653]	5253	[3034, 4135]	7302	[7715, 5026]
1156	[2081, 2082]	3205	[860, 2498]	5254	[6381, 6382]	7303	[7716, 2682]
1157	[2083, 561]	3206	[4654, 4226]	5255	[6299, 1316]	7304	[7717, 2549]
1158	[2084, 2085]	3207	[4655, 2538]	5256	[6383, 302]	7305	[7718, 5043]
1159	[2086, 2087]	3208	[4656, 4437]	5257	[5822, 3260]	7306	[7719, 885]
1160	[130, 2088]	3209	[4657, 4640]	5258	[6384, 1331]	7307	[7720, 2290]
1161	[2089, 2090]	3210	[1863, 4658]	5259	[5915, 5576]	7308	[7721, 6595]
1162	[2091, 1922]	3211	[1865, 4659]	5260	[6158, 3008]	7309	[7722, 2272]
1163	[243, 626]	3212	[2806, 4660]	5261	[6385, 1382]	7310	[7723, 543]
1164	[2092, 2093]	3213	[4661, 4662]	5262	[1673, 5716]	7311	[4633, 2538]
1165	[2094, 2095]	3214	[4663, 2200]	5263	[1154, 1540]	7312	[7224, 7161]
1166	[2096, 692]	3215	[4664, 189]	5264	[1598, 2995]	7313	[2756, 4967]
1167	[2097, 2098]	3216	[774, 2138]	5265	[5767, 95]	7314	[7724, 868]
1168	[2099, 711]	3217	[4665, 2074]	5266	[3644, 3580]	7315	[577, 1924]
1169	[2100, 562]	3218	[4666, 4667]	5267	[6386, 3540]	7316	[7725, 5453]
1170	[2101, 2102]	3219	[526, 4363]	5268	[6387, 6036]	7317	[7726, 5091]
1171	[2103, 1771]	3220	[4668, 4669]	5269	[6388, 3888]	7318	[7727, 4699]
1172	[2104, 2105]	3221	[4670, 4671]	5270	[6042, 4104]	7319	[4564, 2386]
1173	[2106, 2107]	3222	[4672, 489]	5271	[6389, 3235]	7320	[6958, 7202]
1174	[2108, 2109]	3223	[4673, 4233]	5272	[6390, 63]	7321	[7728, 7729]
1175	[2110, 2111]	3224	[149, 588]	5273	[6391, 2941]	7322	[7730, 4650]
1176	[2112, 2113]	3225	[4674, 4377]	5274	[5899, 928]	7323	[7731, 4569]
1177	[2114, 222]	3226	[4675, 2372]	5275	[6392, 394]	7324	[7732, 4661]
1178	[2115, 2116]	3227	[4676, 1887]	5276	[6393, 1172]	7325	[7733, 4231]
1179	[2117, 1729]	3228	[4677, 2774]	5277	[6394, 111]	7326	[1956, 4617]
1180	[2118, 853]	3229	[4678, 1855]	5278	[6395, 339]	7327	[4559, 1849]
1181	[2119, 2120]	3230	[4679, 4680]	5279	[6396, 3751]	7328	[7734, 2667]
1182	[2121, 1854]	3231	[4681, 187]	5280	[6397, 1020]	7329	[7735, 6943]
1183	[2122, 555]	3232	[4249, 4332]	5281	[6398, 3263]	7330	[7736, 5362]
1184	[2123, 2124]	3233	[4682, 4667]	5282	[473, 2883]	7331	[7737, 1770]
1185	[2125, 2126]	3234	[4683, 4684]	5283	[6399, 1244]	7332	[7738, 4359]
1186	[2127, 2128]	3235	[2522, 2703]	5284	[6400, 1666]	7333	[7739, 2075]
1187	[914, 2129]	3236	[2515, 2254]	5285	[6401, 6402]	7334	[6634, 2766]
1188	[2130, 2131]	3237	[4685, 2255]	5286	[1629, 5884]	7335	[4914, 1930]
1189	[2132, 2133]	3238	[4686, 4687]	5287	[1590, 1653]	7336	[224, 7022]

1190	[2134, 2135]	3239	[649, 4688]	5288	[6403, 316]	7337	[7740, 6917]
1191	[2136, 651]	3240	[4689, 840]	5289	[6404, 3449]	7338	[7741, 5193]
1192	[2137, 1864]	3241	[4690, 4286]	5290	[1681, 3912]	7339	[2581, 2089]
1193	[2138, 2139]	3242	[4691, 4692]	5291	[6405, 3860]	7340	[1716, 5333]
1194	[1933, 2140]	3243	[4693, 630]	5292	[6406, 1648]	7341	[7742, 5203]
1195	[1935, 2141]	3244	[4694, 2659]	5293	[6407, 5976]	7342	[7743, 2648]
1196	[2142, 2143]	3245	[4695, 4518]	5294	[5725, 69]	7343	[4481, 2770]
1197	[2144, 2036]	3246	[4696, 4596]	5295	[6031, 3817]	7344	[7011, 4591]
1198	[171, 2145]	3247	[203, 4697]	5296	[5905, 6051]	7345	[7744, 5234]
1199	[728, 2146]	3248	[4698, 2301]	5297	[6408, 4154]	7346	[5098, 2275]
1200	[2147, 2148]	3249	[4699, 4494]	5298	[4053, 3411]	7347	[7745, 1762]
1201	[2149, 2150]	3250	[4700, 4701]	5299	[1391, 1177]	7348	[1821, 7059]
1202	[2151, 2152]	3251	[4702, 883]	5300	[6409, 6129]	7349	[7746, 671]
1203	[2153, 2154]	3252	[4703, 4240]	5301	[6410, 3680]	7350	[7747, 4460]
1204	[2155, 1746]	3253	[4704, 2757]	5302	[6411, 367]	7351	[4271, 4912]
1205	[2156, 680]	3254	[4705, 2826]	5303	[4111, 88]	7352	[7748, 593]
1206	[2157, 2158]	3255	[4706, 613]	5304	[6041, 6402]	7353	[1987, 7010]
1207	[2159, 2160]	3256	[510, 4454]	5305	[2903, 1154]	7354	[6727, 7197]
1208	[2161, 2162]	3257	[4707, 4595]	5306	[444, 3984]	7355	[7749, 4996]
1209	[2163, 494]	3258	[4708, 2802]	5307	[6207, 5635]	7356	[1988, 2375]
1210	[2164, 614]	3259	[4709, 1870]	5308	[6412, 4169]	7357	[2718, 6640]
1211	[2165, 2038]	3260	[4710, 703]	5309	[273, 1394]	7358	[7750, 6577]
1212	[2166, 2167]	3261	[4711, 4712]	5310	[1257, 6012]	7359	[7751, 2691]
1213	[2168, 2169]	3262	[4713, 4714]	5311	[6413, 6042]	7360	[5147, 4923]
1214	[2170, 2171]	3263	[1982, 4671]	5312	[6414, 6415]	7361	[5076, 4323]
1215	[2172, 2173]	3264	[2277, 4218]	5313	[6416, 6102]	7362	[7752, 2783]
1216	[2174, 2175]	3265	[4715, 4716]	5314	[2983, 6417]	7363	[6747, 6885]
1217	[2176, 876]	3266	[4323, 2678]	5315	[1166, 356]	7364	[62, 2682]
1218	[766, 2177]	3267	[4717, 4718]	5316	[6418, 249]	7365	[7753, 2644]
1219	[2178, 2179]	3268	[4719, 2560]	5317	[6419, 1151]	7366	[7754, 2361]
1220	[2180, 2181]	3269	[2513, 2064]	5318	[6420, 291]	7367	[7755, 170]
1221	[2182, 2183]	3270	[4720, 1947]	5319	[3638, 6421]	7368	[7756, 729]
1222	[2184, 2185]	3271	[4721, 2173]	5320	[1347, 6422]	7369	[7195, 852]
1223	[2186, 234]	3272	[4722, 4723]	5321	[6423, 3257]	7370	[6621, 5244]
1224	[2187, 2188]	3273	[2128, 2017]	5322	[5693, 3370]	7371	[7757, 4383]
1225	[2189, 806]	3274	[4724, 4725]	5323	[6424, 1073]	7372	[7758, 4502]
1226	[2190, 2191]	3275	[2299, 4726]	5324	[6425, 253]	7373	[6787, 4734]
1227	[2192, 1889]	3276	[1866, 4727]	5325	[6426, 1642]	7374	[6991, 5539]
1228	[38, 137]	3277	[4728, 1919]	5326	[6427, 6064]	7375	[2662, 571]
1229	[2193, 2194]	3278	[4356, 2808]	5327	[6428, 1531]	7376	[814, 6679]
1230	[2195, 2196]	3279	[4729, 523]	5328	[6429, 3508]	7377	[2603, 2007]
1231	[2197, 2198]	3280	[4730, 4731]	5329	[6182, 23]	7378	[1811, 7759]
1232	[616, 2199]	3281	[2021, 4725]	5330	[6430, 3209]	7379	[7760, 4457]
1233	[2200, 2201]	3282	[4732, 4733]	5331	[6020, 2998]	7380	[7091, 2209]

1234	[2202, 1935]	3283	[4734, 2829]	5332	[5567, 2987]	7381	[7761, 2266]
1235	[2203, 2204]	3284	[737, 4735]	5333	[6431, 6305]	7382	[7762, 2741]
1236	[2205, 2206]	3285	[4736, 4528]	5334	[6432, 109]	7383	[7763, 6773]
1237	[782, 2207]	3286	[4737, 763]	5335	[6433, 1676]	7384	[7764, 7028]
1238	[2208, 2209]	3287	[2270, 4369]	5336	[4064, 440]	7385	[7765, 4371]
1239	[739, 2210]	3288	[4738, 4739]	5337	[3134, 3179]	7386	[653, 2390]
1240	[2211, 2212]	3289	[4740, 2361]	5338	[3986, 6434]	7387	[6908, 4745]
1241	[2213, 2214]	3290	[4741, 2637]	5339	[6435, 3397]	7388	[2696, 5397]
1242	[2215, 2216]	3291	[4742, 2022]	5340	[1663, 5864]	7389	[5055, 4578]
1243	[720, 54]	3292	[4743, 4744]	5341	[458, 247]	7390	[7766, 7121]
1244	[2217, 2218]	3293	[2825, 4525]	5342	[6436, 3414]	7391	[7767, 4380]
1245	[1724, 2219]	3294	[195, 1745]	5343	[6437, 1262]	7392	[7768, 5547]
1246	[2220, 2221]	3295	[4745, 4746]	5344	[6438, 3474]	7393	[6972, 6766]
1247	[2222, 2223]	3296	[4747, 4628]	5345	[6439, 1450]	7394	[7257, 4346]
1248	[2224, 2082]	3297	[4224, 815]	5346	[6440, 2942]	7395	[4279, 2372]
1249	[2225, 1829]	3298	[4523, 4597]	5347	[6441, 441]	7396	[6601, 1756]
1250	[2226, 2227]	3299	[4748, 2615]	5348	[6442, 22]	7397	[128, 5193]
1251	[185, 1879]	3300	[4749, 4266]	5349	[6443, 3571]	7398	[159, 6775]
1252	[2228, 2229]	3301	[4750, 4222]	5350	[6444, 3104]	7399	[6597, 1796]
1253	[2230, 2231]	3302	[2665, 1730]	5351	[1164, 466]	7400	[2257, 4547]
1254	[2232, 846]	3303	[4751, 2578]	5352	[1104, 3562]	7401	[7109, 1773]
1255	[2233, 2234]	3304	[4752, 4753]	5353	[6445, 6196]	7402	[7769, 6767]
1256	[2235, 665]	3305	[4754, 4755]	5354	[2889, 5712]	7403	[2768, 5148]
1257	[2236, 1817]	3306	[1783, 178]	5355	[6446, 5819]	7404	[5283, 6577]
1258	[2237, 2238]	3307	[4756, 1744]	5356	[6447, 5881]	7405	[885, 749]
1259	[2239, 888]	3308	[4757, 782]	5357	[6448, 1638]	7406	[5352, 2685]
1260	[2240, 2241]	3309	[4758, 4759]	5358	[6449, 6254]	7407	[2064, 2395]
1261	[2242, 2243]	3310	[4760, 1810]	5359	[6450, 2880]	7408	[7770, 5197]
1262	[2244, 2245]	3311	[4761, 764]	5360	[6451, 1485]	7409	[181, 6789]
1263	[2246, 2247]	3312	[4762, 1829]	5361	[3946, 3754]	7410	[7771, 7254]
1264	[2093, 2248]	3313	[4714, 4763]	5362	[6452, 5908]	7411	[5368, 4533]
1265	[2249, 2250]	3314	[1727, 1981]	5363	[6453, 6454]	7412	[7772, 1697]
1266	[2251, 2252]	3315	[4764, 4269]	5364	[3984, 3338]	7413	[7773, 7224]
1267	[2253, 1926]	3316	[4765, 1811]	5365	[3011, 4055]	7414	[7774, 2040]
1268	[2254, 7]	3317	[4766, 556]	5366	[1453, 3269]	7415	[7775, 4842]
1269	[2255, 622]	3318	[4767, 159]	5367	[6278, 3194]	7416	[7176, 778]
1270	[2256, 644]	3319	[4768, 4769]	5368	[6455, 5940]	7417	[7776, 6886]
1271	[881, 2257]	3320	[4770, 4613]	5369	[3367, 1001]	7418	[4328, 4254]
1272	[2258, 2259]	3321	[4771, 879]	5370	[6456, 5725]	7419	[7777, 6870]
1273	[2260, 2261]	3322	[4772, 2704]	5371	[3784, 4120]	7420	[7778, 7779]
1274	[2262, 2263]	3323	[4773, 4774]	5372	[6457, 1102]	7421	[7780, 554]
1275	[2264, 2265]	3324	[4775, 2721]	5373	[6458, 3144]	7422	[7781, 4627]
1276	[2266, 2267]	3325	[4776, 2222]	5374	[5599, 1048]	7423	[2027, 4637]
1277	[2268, 1739]	3326	[4777, 4778]	5375	[6459, 123]	7424	[5111, 2170]

1278	[2269, 2169]	3327	[4779, 2280]	5376	[3203, 3396]	7425	[5209, 2379]
1279	[1710, 2270]	3328	[40, 2617]	5377	[6460, 3044]	7426	[635, 2290]
1280	[2271, 635]	3329	[4780, 1765]	5378	[3631, 5731]	7427	[2391, 7231]
1281	[2272, 2273]	3330	[4781, 2452]	5379	[6461, 27]	7428	[1900, 6892]
1282	[2274, 2275]	3331	[4782, 705]	5380	[6462, 5889]	7429	[2511, 2691]
1283	[2276, 2277]	3332	[877, 4783]	5381	[6463, 5755]	7430	[7782, 7238]
1284	[2278, 2279]	3333	[34, 4784]	5382	[6464, 4148]	7431	[622, 6599]
1285	[2280, 2281]	3334	[4785, 4786]	5383	[6465, 1219]	7432	[7783, 7034]
1286	[730, 509]	3335	[4787, 2702]	5384	[1394, 1221]	7433	[7784, 4400]
1287	[2282, 2215]	3336	[2338, 4771]	5385	[3739, 5907]	7434	[1995, 6948]
1288	[2283, 1860]	3337	[2191, 4788]	5386	[3732, 6057]	7435	[7785, 2551]
1289	[2284, 2187]	3338	[4789, 4236]	5387	[6466, 6039]	7436	[7786, 4444]
1290	[2285, 2286]	3339	[4790, 1969]	5388	[6467, 425]	7437	[612, 1965]
1291	[2287, 2288]	3340	[1948, 4791]	5389	[3433, 6031]	7438	[4428, 4416]
1292	[2289, 1852]	3341	[4792, 4793]	5390	[6468, 5610]	7439	[709, 5258]
1293	[2290, 2283]	3342	[211, 2111]	5391	[6469, 333]	7440	[4853, 7779]
1294	[2291, 2162]	3343	[4794, 4778]	5392	[6470, 94]	7441	[2828, 5116]
1295	[2292, 1911]	3344	[651, 2255]	5393	[6471, 6167]	7442	[7787, 2379]
1296	[2293, 2294]	3345	[869, 791]	5394	[6472, 1468]	7443	[7788, 1899]
1297	[2295, 2198]	3346	[4795, 4480]	5395	[6473, 3024]	7444	[7789, 749]
1298	[2296, 2297]	3347	[2788, 4498]	5396	[6474, 347]	7445	[7790, 5055]
1299	[2298, 2299]	3348	[4443, 2370]	5397	[6475, 6363]	7446	[7791, 6759]
1300	[2300, 2301]	3349	[4796, 2199]	5398	[6476, 1525]	7447	[7792, 4831]
1301	[2302, 2303]	3350	[2124, 4797]	5399	[3913, 3104]	7448	[5102, 7195]
1302	[581, 2304]	3351	[4798, 2137]	5400	[3665, 5972]	7449	[6640, 5459]
1303	[2179, 2305]	3352	[4799, 537]	5401	[5600, 3221]	7450	[7793, 2540]
1304	[2306, 2307]	3353	[4800, 4801]	5402	[6477, 97]	7451	[7794, 2781]
1305	[2308, 2305]	3354	[4802, 712]	5403	[1571, 6478]	7452	[7795, 5346]
1306	[2309, 2310]	3355	[2364, 870]	5404	[5559, 1511]	7453	[7796, 5102]
1307	[2311, 2312]	3356	[4803, 4804]	5405	[6479, 3358]	7454	[7797, 7134]
1308	[2313, 59]	3357	[4805, 4291]	5406	[2988, 1516]	7455	[776, 7163]
1309	[2314, 2315]	3358	[4806, 2283]	5407	[6480, 3863]	7456	[7798, 4305]
1310	[2316, 2317]	3359	[54, 2191]	5408	[6481, 5726]	7457	[7799, 5110]
1311	[2318, 2150]	3360	[2392, 4781]	5409	[1106, 1483]	7458	[864, 4645]
1312	[2241, 2319]	3361	[4725, 607]	5410	[6482, 271]	7459	[7800, 2665]
1313	[2320, 2171]	3362	[2062, 2104]	5411	[1039, 1641]	7460	[5310, 1782]
1314	[2321, 2322]	3363	[500, 2437]	5412	[6123, 1117]	7461	[643, 2442]
1315	[2323, 2324]	3364	[4807, 4808]	5413	[6483, 980]	7462	[7801, 6841]
1316	[2325, 2326]	3365	[4809, 4810]	5414	[323, 3978]	7463	[7802, 7228]
1317	[2327, 2328]	3366	[4811, 4812]	5415	[6484, 3443]	7464	[7803, 743]
1318	[2329, 2330]	3367	[4813, 2700]	5416	[1580, 6485]	7465	[2206, 6631]
1319	[2331, 926]	3368	[4814, 2239]	5417	[5776, 4067]	7466	[7804, 5061]
1320	[2078, 758]	3369	[4815, 4816]	5418	[6486, 3472]	7467	[7805, 2042]
1321	[2332, 906]	3370	[4393, 2044]	5419	[6083, 2927]	7468	[1753, 4467]

1322	[2333, 2334]	3371	[849, 2828]	5420	[6487, 3354]	7469	[7806, 7104]
1323	[2335, 2336]	3372	[4817, 4818]	5421	[1108, 446]	7470	[7807, 4635]
1324	[2337, 2338]	3373	[4819, 2345]	5422	[6488, 3336]	7471	[7808, 4848]
1325	[2339, 513]	3374	[4820, 2306]	5423	[6140, 1460]	7472	[7809, 6999]
1326	[2340, 2341]	3375	[4821, 1931]	5424	[392, 1432]	7473	[7810, 4961]
1327	[2342, 2343]	3376	[4822, 130]	5425	[6489, 1347]	7474	[7811, 7061]
1328	[556, 658]	3377	[4823, 2703]	5426	[6490, 3099]	7475	[792, 4908]
1329	[2344, 2345]	3378	[4824, 4825]	5427	[1594, 2952]	7476	[6754, 4540]
1330	[2346, 2347]	3379	[4826, 2804]	5428	[3141, 6305]	7477	[5192, 5057]
1331	[2348, 2349]	3380	[4827, 2611]	5429	[6491, 1452]	7478	[2528, 4996]
1332	[2350, 2351]	3381	[4828, 4829]	5430	[6492, 4177]	7479	[7812, 6814]
1333	[2352, 2353]	3382	[4830, 2282]	5431	[6493, 1312]	7480	[1861, 2182]
1334	[2167, 637]	3383	[4231, 1958]	5432	[6494, 1690]	7481	[7813, 4276]
1335	[2354, 2355]	3384	[802, 2668]	5433	[6352, 3354]	7482	[4599, 675]
1336	[2126, 600]	3385	[4831, 1704]	5434	[6495, 1412]	7483	[7814, 5379]
1337	[2356, 1864]	3386	[908, 2130]	5435	[6137, 3877]	7484	[7024, 4627]
1338	[44, 2357]	3387	[4832, 4833]	5436	[3081, 1590]	7485	[7815, 2711]
1339	[2358, 2359]	3388	[4784, 4834]	5437	[6496, 1013]	7486	[7816, 2476]
1340	[2360, 1793]	3389	[2373, 4472]	5438	[4096, 6348]	7487	[7817, 7094]
1341	[2361, 2362]	3390	[4835, 4281]	5439	[4076, 6091]	7488	[4870, 4739]
1342	[2363, 2364]	3391	[4836, 1993]	5440	[6267, 4199]	7489	[7167, 6700]
1343	[2365, 921]	3392	[2396, 2540]	5441	[3851, 2865]	7490	[7818, 12]
1344	[2366, 44]	3393	[4837, 4359]	5442	[6497, 386]	7491	[7819, 7011]
1345	[2367, 2368]	3394	[4838, 2188]	5443	[6498, 1375]	7492	[7820, 775]
1346	[2369, 175]	3395	[508, 4839]	5444	[2882, 6499]	7493	[1718, 4428]
1347	[2370, 2128]	3396	[4651, 628]	5445	[6500, 6183]	7494	[7821, 5333]
1348	[1733, 2371]	3397	[2702, 487]	5446	[380, 3107]	7495	[7822, 6728]
1349	[2372, 2373]	3398	[4840, 2467]	5447	[6501, 3370]	7496	[7823, 7023]
1350	[2374, 173]	3399	[4841, 1988]	5448	[3394, 3024]	7497	[7824, 511]
1351	[2375, 2376]	3400	[4842, 660]	5449	[3388, 5926]	7498	[7825, 1796]
1352	[2377, 2378]	3401	[4843, 4328]	5450	[1096, 3844]	7499	[5293, 494]
1353	[2379, 2380]	3402	[4844, 4845]	5451	[6502, 1220]	7500	[7826, 2337]
1354	[2381, 2344]	3403	[4846, 884]	5452	[6503, 1226]	7501	[7827, 6881]
1355	[2382, 2383]	3404	[2279, 2814]	5453	[6504, 6505]	7502	[5539, 5317]
1356	[2384, 2167]	3405	[4847, 232]	5454	[5884, 5735]	7503	[7828, 4220]
1357	[2385, 2354]	3406	[2499, 4848]	5455	[3564, 74]	7504	[7829, 2810]
1358	[2386, 2095]	3407	[4849, 217]	5456	[3313, 6046]	7505	[2111, 917]
1359	[2387, 2388]	3408	[4850, 1917]	5457	[6506, 468]	7506	[579, 7067]
1360	[2389, 835]	3409	[1939, 2570]	5458	[6507, 5992]	7507	[7830, 6860]
1361	[2390, 2391]	3410	[4851, 1714]	5459	[6508, 3516]	7508	[7831, 5167]
1362	[2263, 2392]	3411	[4852, 4853]	5460	[6509, 480]	7509	[2141, 7124]
1363	[2393, 2394]	3412	[4854, 851]	5461	[2842, 6363]	7510	[5358, 4318]
1364	[2395, 2396]	3413	[4855, 2054]	5462	[6510, 3379]	7511	[7832, 6676]
1365	[2397, 1782]	3414	[4856, 1769]	5463	[6511, 1635]	7512	[574, 2626]

1366	[2398, 500]	3415	[4857, 4858]	5464	[6512, 5663]	7513	[7833, 7107]
1367	[2399, 2400]	3416	[4245, 2078]	5465	[6513, 1463]	7514	[2006, 2815]
1368	[2025, 576]	3417	[2234, 4859]	5466	[6514, 1487]	7515	[2526, 7834]
1369	[141, 2401]	3418	[4860, 2575]	5467	[6515, 3649]	7516	[6759, 4682]
1370	[2402, 1717]	3419	[4861, 4862]	5468	[6516, 3095]	7517	[7835, 1882]
1371	[2403, 2404]	3420	[4863, 2470]	5469	[5800, 3003]	7518	[7172, 4415]
1372	[2405, 766]	3421	[4864, 2415]	5470	[6517, 3639]	7519	[5334, 2193]
1373	[2406, 2407]	3422	[4233, 2549]	5471	[6518, 1304]	7520	[2116, 7207]
1374	[2408, 2237]	3423	[4865, 4311]	5472	[6519, 3363]	7521	[7836, 6589]
1375	[2409, 2410]	3424	[4866, 2681]	5473	[6520, 941]	7522	[7837, 4791]
1376	[2411, 2412]	3425	[4867, 4868]	5474	[1160, 988]	7523	[4923, 2292]
1377	[2413, 634]	3426	[4869, 4870]	5475	[6521, 1410]	7524	[7838, 4609]
1378	[790, 817]	3427	[4566, 4701]	5476	[4001, 3827]	7525	[7839, 7840]
1379	[2414, 2415]	3428	[4606, 2441]	5477	[1034, 5935]	7526	[7841, 4472]
1380	[2416, 2417]	3429	[2102, 1919]	5478	[6522, 5791]	7527	[2013, 2774]
1381	[1768, 2346]	3430	[4871, 4659]	5479	[5729, 329]	7528	[5501, 1851]
1382	[2418, 767]	3431	[2359, 1978]	5480	[6523, 1134]	7529	[7842, 4707]
1383	[1985, 1760]	3432	[4546, 4872]	5481	[6524, 3422]	7530	[7093, 5188]
1384	[2419, 814]	3433	[4614, 916]	5482	[6525, 5873]	7531	[4241, 5311]
1385	[2420, 153]	3434	[4873, 2161]	5483	[6526, 3946]	7532	[6999, 4271]
1386	[655, 2421]	3435	[2486, 2286]	5484	[5672, 6527]	7533	[7843, 5219]
1387	[674, 2196]	3436	[4874, 2422]	5485	[1584, 5626]	7534	[7844, 2465]
1388	[2422, 2423]	3437	[4875, 2498]	5486	[6528, 6115]	7535	[7845, 6797]
1389	[1825, 1806]	3438	[4876, 2496]	5487	[6529, 3673]	7536	[2533, 4750]
1390	[2177, 2424]	3439	[4877, 2495]	5488	[6530, 3412]	7537	[7846, 5064]
1391	[2425, 2426]	3440	[4878, 4879]	5489	[6531, 965]	7538	[6923, 4607]
1392	[916, 2427]	3441	[4880, 4881]	5490	[6532, 5668]	7539	[7847, 4901]
1393	[2428, 2182]	3442	[4882, 2319]	5491	[5635, 6027]	7540	[5331, 7729]
1394	[2429, 2184]	3443	[4511, 4883]	5492	[6533, 5666]	7541	[2243, 7089]
1395	[1731, 2430]	3444	[4884, 4885]	5493	[1369, 5982]	7542	[7848, 4672]
1396	[2431, 839]	3445	[4886, 4572]	5494	[1617, 3503]	7543	[7849, 4983]
1397	[2432, 2433]	3446	[4887, 4598]	5495	[6534, 3913]	7544	[2559, 1915]
1398	[2434, 2435]	3447	[1973, 629]	5496	[3264, 3649]	7545	[2169, 5107]
1399	[2436, 2437]	3448	[4330, 4888]	5497	[6535, 3333]	7546	[5175, 5285]
1400	[2438, 1781]	3449	[4889, 2472]	5498	[6536, 415]	7547	[4369, 7116]
1401	[2439, 58]	3450	[4890, 4433]	5499	[6537, 3490]	7548	[5391, 4825]
1402	[2440, 2441]	3451	[4891, 4892]	5500	[6538, 4120]	7549	[5470, 4406]
1403	[2442, 2443]	3452	[4893, 2610]	5501	[6539, 6321]	7550	[7850, 45]
1404	[2444, 2424]	3453	[2199, 4894]	5502	[6540, 6234]	7551	[5185, 4558]
1405	[2445, 2446]	3454	[4895, 4896]	5503	[1193, 5564]	7552	[7851, 4876]
1406	[2447, 2448]	3455	[4897, 4898]	5504	[6541, 1496]	7553	[7852, 538]
1407	[2449, 2450]	3456	[2401, 4899]	5505	[3089, 3587]	7554	[5350, 861]
1408	[2451, 2098]	3457	[4900, 2811]	5506	[6542, 2837]	7555	[1926, 5478]
1409	[2452, 529]	3458	[818, 4901]	5507	[6543, 1419]	7556	[4594, 7251]

1410	[2453, 2454]	3459	[4902, 2747]	5508	[6544, 3641]	7557	[4527, 6937]
1411	[2455, 2423]	3460	[4903, 4894]	5509	[3915, 3139]	7558	[520, 4898]
1412	[2456, 2457]	3461	[4904, 2571]	5510	[3113, 5823]	7559	[1832, 239]
1413	[2458, 2459]	3462	[2437, 1736]	5511	[6545, 3664]	7560	[7853, 5528]
1414	[2460, 2461]	3463	[4905, 4906]	5512	[6546, 3486]	7561	[6772, 6824]
1415	[2462, 2086]	3464	[4288, 4505]	5513	[6547, 3736]	7562	[5044, 4768]
1416	[516, 191]	3465	[4907, 1843]	5514	[3027, 3916]	7563	[2055, 2385]
1417	[2463, 2464]	3466	[4908, 2237]	5515	[6548, 5598]	7564	[7854, 740]
1418	[2465, 1874]	3467	[4909, 4338]	5516	[5978, 1583]	7565	[2574, 7840]
1419	[2466, 663]	3468	[2098, 4500]	5517	[6549, 6421]	7566	[2057, 681]
1420	[2002, 2467]	3469	[4591, 892]	5518	[4169, 1147]	7567	[6677, 5024]
1421	[2468, 2469]	3470	[4910, 617]	5519	[6550, 3308]	7568	[7855, 6981]
1422	[610, 2470]	3471	[4911, 4232]	5520	[6551, 1066]	7569	[7094, 6817]
1423	[2471, 2472]	3472	[4912, 4304]	5521	[3339, 415]	7570	[7856, 2816]
1424	[2473, 726]	3473	[4913, 4914]	5522	[6552, 3696]	7571	[7857, 2678]
1425	[2474, 1857]	3474	[4915, 4296]	5523	[6553, 1486]	7572	[7858, 2013]
1426	[2475, 2476]	3475	[1843, 2360]	5524	[6554, 1206]	7573	[7859, 4285]
1427	[2477, 160]	3476	[4916, 2435]	5525	[6555, 1484]	7574	[7860, 6599]
1428	[2478, 1720]	3477	[4917, 2405]	5526	[6556, 371]	7575	[6981, 2542]
1429	[2479, 244]	3478	[4918, 592]	5527	[3560, 3529]	7576	[7861, 7057]
1430	[233, 2480]	3479	[4804, 1986]	5528	[6557, 5754]	7577	[6824, 4321]
1431	[2481, 2280]	3480	[4291, 140]	5529	[5898, 401]	7578	[7862, 7091]
1432	[2482, 2483]	3481	[4919, 2035]	5530	[6558, 399]	7579	[7863, 6951]
1433	[2484, 1837]	3482	[4920, 4921]	5531	[6559, 401]	7580	[7864, 5095]
1434	[2485, 2486]	3483	[2650, 2609]	5532	[6560, 6082]	7581	[6841, 4706]
1435	[2487, 2488]	3484	[4922, 4923]	5533	[5680, 6023]	7582	[7865, 6780]
1436	[2489, 2490]	3485	[4924, 4925]	5534	[6561, 315]	7583	[2349, 2688]
1437	[2491, 1840]	3486	[4926, 2328]	5535	[6562, 1122]	7584	[7866, 7189]
1438	[2492, 2493]	3487	[4927, 4557]	5536	[1133, 3300]	7585	[7867, 4915]
1439	[562, 2359]	3488	[4928, 4929]	5537	[6563, 1195]	7586	[4314, 593]
1440	[2494, 2495]	3489	[2683, 2591]	5538	[6564, 4014]	7587	[7868, 6766]
1441	[2496, 2497]	3490	[4930, 2061]	5539	[6565, 5993]	7588	[7869, 4837]
1442	[2498, 2499]	3491	[539, 2018]	5540	[6566, 4164]	7589	[4739, 2641]
1443	[2461, 2500]	3492	[4931, 888]	5541	[6567, 1201]	7590	[7870, 5540]
1444	[2501, 9]	3493	[4932, 526]	5542	[6246, 6289]	7591	[4624, 170]
1445	[2502, 2227]	3494	[614, 1985]	5543	[6568, 3155]	7592	[841, 4958]
1446	[2503, 180]	3495	[4933, 808]	5544	[6569, 3098]	7593	[2615, 4876]
1447	[2504, 2505]	3496	[4934, 4935]	5545	[1094, 3488]	7594	[1918, 7800]
1448	[2506, 2507]	3497	[4936, 4937]	5546	[6570, 1284]	7595	[7871, 5033]
1449	[2508, 1840]	3498	[4938, 4939]	5547	[6571, 3926]	7596	[4284, 2460]
1450	[2509, 1869]	3499	[2371, 807]	5548	[3084, 4125]	7597	[7872, 677]
1451	[2510, 2511]	3500	[4940, 4941]	5549	[6572, 1012]	7598	[7873, 6880]
1452	[2512, 2513]	3501	[4942, 4943]	5550	[6573, 4121]	7599	[7874, 2230]
1453	[2376, 671]	3502	[4944, 2287]	5551	[6574, 2862]	7600	[7875, 2390]

1454	[2514, 2515]	3503	[4945, 2528]	5552	[6575, 3598]	7601	[4226, 771]
1455	[2516, 2438]	3504	[4946, 4947]	5553	[6576, 1259]	7602	[7876, 2654]
1456	[2517, 2518]	3505	[926, 4410]	5554	[6577, 6578]	7603	[7877, 6802]
1457	[2519, 1838]	3506	[4948, 1886]	5555	[6579, 2023]	7604	[7878, 6708]
1458	[2520, 741]	3507	[143, 4949]	5556	[6580, 1921]	7605	[7879, 822]
1459	[2521, 2522]	3508	[4950, 2730]	5557	[6581, 2046]	7606	[7880, 799]
1460	[2523, 2524]	3509	[4951, 4952]	5558	[6582, 5501]	7607	[2730, 4964]
1461	[2525, 2526]	3510	[4953, 2757]	5559	[6583, 5058]	7608	[665, 4800]
1462	[2527, 2528]	3511	[4954, 4744]	5560	[6584, 2170]	7609	[2595, 695]
1463	[2529, 2085]	3512	[4955, 4956]	5561	[2139, 1954]	7610	[512, 1758]
1464	[2530, 776]	3513	[4957, 4958]	5562	[6585, 2594]	7611	[2480, 5054]
1465	[2095, 2531]	3514	[4959, 2330]	5563	[4419, 674]	7612	[7881, 2369]
1466	[2532, 2533]	3515	[2450, 2545]	5564	[6586, 700]	7613	[2088, 589]
1467	[2534, 760]	3516	[4960, 4473]	5565	[6587, 780]	7614	[7882, 5530]
1468	[866, 2384]	3517	[1941, 4517]	5566	[6588, 4645]	7615	[4680, 2137]
1469	[867, 643]	3518	[4961, 4962]	5567	[6589, 884]	7616	[7883, 6610]
1470	[2535, 2536]	3519	[4334, 4635]	5568	[6590, 664]	7617	[7884, 2542]
1471	[2537, 2008]	3520	[4963, 4964]	5569	[165, 4759]	7618	[5379, 5180]
1472	[2538, 2539]	3521	[4965, 4277]	5570	[6591, 4949]	7619	[5452, 5135]
1473	[2209, 42]	3522	[733, 4966]	5571	[6592, 2753]	7620	[5465, 2654]
1474	[2540, 2541]	3523	[4572, 774]	5572	[6593, 2329]	7621	[7885, 166]
1475	[2542, 2294]	3524	[4967, 4968]	5573	[6594, 576]	7622	[602, 1828]
1476	[2543, 2544]	3525	[4969, 4581]	5574	[6595, 6596]	7623	[7886, 4263]
1477	[2545, 702]	3526	[4970, 1755]	5575	[4551, 6597]	7624	[7887, 2778]
1478	[2546, 647]	3527	[4971, 2525]	5576	[6598, 1753]	7625	[1834, 4288]
1479	[2547, 2548]	3528	[4972, 151]	5577	[6599, 1724]	7626	[7888, 4951]
1480	[2549, 898]	3529	[4973, 2037]	5578	[2601, 5291]	7627	[7889, 1994]
1481	[2550, 669]	3530	[1950, 220]	5579	[6600, 6601]	7628	[7890, 2363]
1482	[2551, 2552]	3531	[4974, 2671]	5580	[6602, 2729]	7629	[7891, 4243]
1483	[2553, 2027]	3532	[2214, 856]	5581	[1855, 2650]	7630	[6978, 4281]
1484	[2476, 2554]	3533	[2210, 214]	5582	[6603, 2010]	7631	[4977, 6855]
1485	[2555, 2012]	3534	[2212, 2712]	5583	[6604, 4735]	7632	[7892, 7070]
1486	[2556, 1920]	3535	[4975, 4647]	5584	[1746, 4937]	7633	[7893, 4756]
1487	[2443, 2557]	3536	[1924, 2168]	5585	[6605, 7]	7634	[7894, 7834]
1488	[2558, 2559]	3537	[4976, 4977]	5586	[4879, 882]	7635	[7895, 2292]
1489	[2560, 2561]	3538	[4978, 688]	5587	[6606, 2130]	7636	[7896, 6758]
1490	[2562, 1940]	3539	[4979, 2364]	5588	[2746, 5239]	7637	[4318, 7093]
1491	[2563, 2419]	3540	[2131, 810]	5589	[4793, 567]	7638	[7897, 7898]
1492	[687, 1939]	3541	[683, 1748]	5590	[6607, 517]	7639	[7899, 854]
1493	[2564, 2398]	3542	[4980, 4419]	5591	[1894, 904]	7640	[6780, 2425]
1494	[2565, 2383]	3543	[1801, 4354]	5592	[6608, 2568]	7641	[7900, 2484]
1495	[2566, 2567]	3544	[4981, 2131]	5593	[1816, 6609]	7642	[5077, 4509]
1496	[2568, 2116]	3545	[4982, 1837]	5594	[2154, 2032]	7643	[7901, 4441]
1497	[726, 790]	3546	[4306, 4432]	5595	[4396, 6610]	7644	[7902, 7056]

1498	[2569, 2570]	3547	[4593, 4983]	5596	[6611, 2484]	7645	[2441, 4580]
1499	[2571, 2572]	3548	[4984, 4985]	5597	[923, 4260]	7646	[4261, 5064]
1500	[2573, 2574]	3549	[4986, 186]	5598	[6612, 1914]	7647	[837, 4492]
1501	[2575, 2109]	3550	[4987, 4988]	5599	[6613, 819]	7648	[7903, 6754]
1502	[797, 2576]	3551	[4989, 2457]	5600	[4712, 5106]	7649	[7904, 7905]
1503	[2577, 2578]	3552	[4990, 2478]	5601	[6614, 43]	7650	[4988, 4740]
1504	[2579, 1883]	3553	[4991, 4992]	5602	[6615, 2120]	7651	[7906, 5230]
1505	[2580, 2581]	3554	[4993, 693]	5603	[6616, 6617]	7652	[7907, 2200]
1506	[2582, 2583]	3555	[4994, 1948]	5604	[5037, 4753]	7653	[7908, 231]
1507	[2294, 2584]	3556	[4968, 2768]	5605	[5085, 5542]	7654	[2400, 2099]
1508	[2585, 2586]	3557	[169, 4405]	5606	[5265, 4779]	7655	[4338, 5061]
1509	[2587, 2426]	3558	[4995, 141]	5607	[6618, 4466]	7656	[7909, 1991]
1510	[2588, 2589]	3559	[4996, 4997]	5608	[6619, 594]	7657	[4275, 6837]
1511	[2590, 2591]	3560	[4998, 1950]	5609	[6620, 919]	7658	[7910, 2411]
1512	[2592, 2593]	3561	[4999, 4235]	5610	[2407, 6621]	7659	[1827, 4370]
1513	[2594, 2483]	3562	[1993, 4921]	5611	[4492, 6622]	7660	[7911, 632]
1514	[835, 2298]	3563	[5000, 4707]	5612	[6623, 4343]	7661	[5500, 2729]
1515	[2388, 2595]	3564	[5001, 2362]	5613	[6624, 4734]	7662	[7912, 7207]
1516	[2596, 2597]	3565	[5002, 5003]	5614	[6625, 4384]	7663	[7913, 723]
1517	[2297, 2598]	3566	[5004, 2314]	5615	[6626, 4899]	7664	[2634, 4879]
1518	[745, 842]	3567	[4755, 4755]	5616	[6627, 645]	7665	[5249, 729]
1519	[2599, 2600]	3568	[697, 4884]	5617	[2796, 876]	7666	[7914, 507]
1520	[218, 2601]	3569	[5005, 5006]	5618	[2814, 6628]	7667	[7915, 7232]
1521	[2602, 2603]	3570	[4985, 5007]	5619	[6629, 2499]	7668	[4541, 2206]
1522	[2604, 2605]	3571	[5008, 5009]	5620	[6630, 4316]	7669	[7916, 5499]
1523	[2606, 1711]	3572	[5010, 5011]	5621	[2464, 2632]	7670	[7917, 5148]
1524	[2607, 2608]	3573	[5012, 737]	5622	[6631, 5254]	7671	[5164, 5453]
1525	[2609, 2610]	3574	[5013, 864]	5623	[1765, 177]	7672	[7918, 7020]
1526	[1793, 2611]	3575	[2162, 4857]	5624	[6632, 1712]	7673	[7919, 4779]
1527	[2362, 2612]	3576	[5014, 4245]	5625	[5188, 2306]	7674	[7920, 2442]
1528	[2613, 2614]	3577	[4405, 2434]	5626	[6633, 4506]	7675	[7921, 2254]
1529	[2421, 2615]	3578	[5015, 4927]	5627	[4239, 6634]	7676	[7922, 5355]
1530	[2616, 2617]	3579	[5016, 4858]	5628	[6635, 2580]	7677	[7923, 5478]
1531	[2618, 1768]	3580	[5017, 4537]	5629	[1818, 1858]	7678	[1820, 7924]
1532	[2619, 2620]	3581	[5018, 5019]	5630	[6636, 4805]	7679	[7202, 4507]
1533	[2621, 2574]	3582	[5020, 891]	5631	[6637, 4997]	7680	[7925, 4262]
1534	[2622, 226]	3583	[5021, 1818]	5632	[6638, 4688]	7681	[4373, 4612]
1535	[2623, 2624]	3584	[2194, 2404]	5633	[132, 4236]	7682	[7926, 2815]
1536	[1959, 2625]	3585	[5022, 2039]	5634	[6639, 6640]	7683	[7927, 4663]
1537	[2626, 2214]	3586	[4834, 51]	5635	[6641, 816]	7684	[7928, 6603]
1538	[2627, 510]	3587	[5023, 2354]	5636	[6596, 2172]	7685	[6886, 2369]
1539	[2628, 1783]	3588	[5024, 2422]	5637	[2488, 2468]	7686	[758, 1921]
1540	[2629, 2630]	3589	[4363, 4348]	5638	[6642, 5457]	7687	[7929, 6628]
1541	[2631, 2632]	3590	[5025, 1970]	5639	[4925, 634]	7688	[1752, 4276]

1542	[2633, 2634]	3591	[5026, 4814]	5640	[2584, 2639]	7689	[7254, 4650]
1543	[2635, 2451]	3592	[5027, 2384]	5641	[5402, 4574]	7690	[7930, 1721]
1544	[2265, 2597]	3593	[4997, 1839]	5642	[6643, 6644]	7691	[7931, 5237]
1545	[2636, 1997]	3594	[5028, 4646]	5643	[6645, 2267]	7692	[906, 7905]
1546	[2637, 2400]	3595	[918, 2785]	5644	[6646, 5515]	7693	[7932, 902]
1547	[2638, 196]	3596	[5029, 5030]	5645	[6647, 2746]	7694	[7933, 2092]
1548	[714, 719]	3597	[5031, 1701]	5646	[4562, 5237]	7695	[843, 2178]
1549	[2639, 2640]	3598	[5032, 2427]	5647	[46, 1904]	7696	[7934, 2104]
1550	[2641, 9]	3599	[5033, 2656]	5648	[6648, 2696]	7697	[7935, 5513]
1551	[2642, 2643]	3600	[2645, 2119]	5649	[4466, 5417]	7698	[7936, 6668]
1552	[491, 2378]	3601	[2223, 4378]	5650	[6649, 6650]	7699	[7937, 2577]
1553	[2644, 2645]	3602	[5034, 2]	5651	[514, 786]	7700	[7938, 2462]
1554	[2646, 2414]	3603	[5035, 2762]	5652	[5397, 858]	7701	[7939, 283]
1555	[2647, 512]	3604	[5036, 5037]	5653	[2531, 6635]	7702	[253, 4191]
1556	[2648, 2157]	3605	[153, 2634]	5654	[6651, 1996]	7703	[4067, 6137]
1557	[2649, 2650]	3606	[4735, 4388]	5655	[770, 5283]	7704	[7940, 5640]
1558	[201, 2651]	3607	[5038, 5039]	5656	[6652, 740]	7705	[7941, 3809]
1559	[1971, 2006]	3608	[5040, 615]	5657	[6653, 1992]	7706	[7942, 1602]
1560	[2652, 2653]	3609	[5041, 1904]	5658	[6654, 1791]	7707	[7943, 428]
1561	[2654, 1795]	3610	[2589, 826]	5659	[6655, 6656]	7708	[7944, 1318]
1562	[2570, 2187]	3611	[5042, 4411]	5660	[6657, 2550]	7709	[7945, 3478]
1563	[2655, 2656]	3612	[5043, 1955]	5661	[2105, 5475]	7710	[1687, 6140]
1564	[2657, 2658]	3613	[592, 2022]	5662	[6658, 5011]	7711	[7946, 2943]
1565	[2659, 2310]	3614	[596, 5044]	5663	[2135, 5322]	7712	[7947, 1004]
1566	[1813, 536]	3615	[5045, 4613]	5664	[6659, 2475]	7713	[4048, 3840]
1567	[2660, 2661]	3616	[5046, 1982]	5665	[4808, 664]	7714	[7948, 3172]
1568	[732, 2662]	3617	[1738, 2277]	5666	[6660, 2450]	7715	[7949, 3064]
1569	[2598, 2663]	3618	[5047, 143]	5667	[1805, 5342]	7716	[3834, 5772]
1570	[2664, 2665]	3619	[5048, 485]	5668	[6661, 2118]	7717	[3253, 1644]
1571	[2666, 2351]	3620	[5049, 771]	5669	[6662, 2029]	7718	[3227, 3192]
1572	[1704, 2102]	3621	[5050, 1858]	5670	[522, 242]	7719	[3868, 2964]
1573	[2667, 1903]	3622	[5051, 1917]	5671	[5517, 5457]	7720	[7950, 1328]
1574	[2668, 538]	3623	[5052, 2048]	5672	[6663, 2388]	7721	[7951, 3518]
1575	[2669, 2138]	3624	[4966, 5018]	5673	[6664, 912]	7722	[6027, 4058]
1576	[2670, 1871]	3625	[5053, 4390]	5674	[6665, 1778]	7723	[1075, 1032]
1577	[501, 135]	3626	[5054, 131]	5675	[6666, 901]	7724	[3229, 1673]
1578	[2671, 2672]	3627	[637, 5055]	5676	[898, 6644]	7725	[6010, 5870]
1579	[794, 901]	3628	[1761, 5056]	5677	[6667, 2302]	7726	[4078, 3305]
1580	[2673, 2674]	3629	[5057, 2417]	5678	[4669, 4528]	7727	[1565, 3748]
1581	[2675, 1798]	3630	[5058, 5059]	5679	[6668, 4480]	7728	[4191, 4157]
1582	[2676, 2674]	3631	[5060, 2338]	5680	[6669, 245]	7729	[7952, 5945]
1583	[2677, 2231]	3632	[5061, 1961]	5681	[6670, 669]	7730	[7953, 278]
1584	[2678, 2679]	3633	[5062, 2340]	5682	[6671, 2638]	7731	[6012, 5666]
1585	[2610, 2226]	3634	[5063, 1830]	5683	[6672, 652]	7732	[7954, 4073]

1586	[2680, 918]	3635	[5064, 4515]	5684	[6673, 6674]	7733	[4080, 5921]
1587	[2423, 2681]	3636	[5065, 911]	5685	[6675, 4919]	7734	[6370, 2910]
1588	[2682, 2683]	3637	[4949, 2327]	5686	[2273, 6617]	7735	[7955, 259]
1589	[2684, 2685]	3638	[856, 1805]	5687	[6676, 6677]	7736	[7956, 1629]
1590	[2686, 874]	3639	[5066, 2452]	5688	[6678, 6679]	7737	[7957, 2850]
1591	[1729, 2687]	3640	[5067, 2073]	5689	[6680, 6609]	7738	[7958, 3613]
1592	[2688, 2689]	3641	[5068, 2548]	5690	[2175, 5010]	7739	[2915, 3155]
1593	[2690, 2156]	3642	[1779, 4939]	5691	[2216, 6681]	7740	[7959, 1584]
1594	[2691, 2692]	3643	[5069, 4723]	5692	[6682, 4393]	7741	[3105, 3485]
1595	[2693, 2694]	3644	[5070, 1769]	5693	[4898, 849]	7742	[7960, 3726]
1596	[2695, 2534]	3645	[2036, 5071]	5694	[6683, 2327]	7743	[5993, 1542]
1597	[784, 2696]	3646	[5007, 2317]	5695	[1931, 4556]	7744	[7961, 1309]
1598	[2697, 1757]	3647	[5072, 2688]	5696	[6684, 541]	7745	[7962, 3784]
1599	[2698, 2699]	3648	[5073, 2346]	5697	[6685, 2545]	7746	[3794, 1563]
1600	[2687, 2700]	3649	[5074, 2412]	5698	[6686, 689]	7747	[1462, 3436]
1601	[2701, 1803]	3650	[4218, 5043]	5699	[529, 2230]	7748	[3903, 1126]
1602	[896, 1750]	3651	[5075, 5076]	5700	[6687, 484]	7749	[5939, 1449]
1603	[1997, 2702]	3652	[2048, 5077]	5701	[6688, 4768]	7750	[7963, 1058]
1604	[2703, 2050]	3653	[5078, 4416]	5702	[6689, 5008]	7751	[1431, 6415]
1605	[1976, 2704]	3654	[1857, 4653]	5703	[2572, 2507]	7752	[5731, 1455]
1606	[2705, 518]	3655	[5079, 40]	5704	[6690, 2157]	7753	[4206, 3745]
1607	[2706, 2349]	3656	[5080, 5081]	5705	[6691, 779]	7754	[7964, 3718]
1608	[1873, 623]	3657	[5082, 5083]	5706	[6692, 5150]	7755	[440, 6190]
1609	[1744, 2707]	3658	[1903, 150]	5707	[237, 5241]	7756	[7965, 958]
1610	[2708, 2141]	3659	[5084, 5085]	5708	[6693, 244]	7757	[3587, 4069]
1611	[2709, 2710]	3660	[2150, 5086]	5709	[6694, 6695]	7758	[3191, 3430]
1612	[2711, 2445]	3661	[5087, 5088]	5710	[6696, 2318]	7759	[7966, 1493]
1613	[2712, 199]	3662	[5089, 5088]	5711	[6697, 2253]	7760	[7967, 2922]
1614	[2713, 763]	3663	[5090, 4880]	5712	[2307, 2263]	7761	[7968, 5563]
1615	[1999, 2714]	3664	[2317, 5087]	5713	[4424, 894]	7762	[7969, 1537]
1616	[2715, 524]	3665	[5091, 5002]	5714	[6698, 5241]	7763	[3098, 1363]
1617	[2716, 1708]	3666	[5092, 4884]	5715	[6699, 6700]	7764	[7970, 2928]
1618	[2717, 2718]	3667	[5093, 1856]	5716	[6701, 2794]	7765	[7971, 1205]
1619	[2719, 2720]	3668	[5094, 870]	5717	[6702, 164]	7766	[82, 3227]
1620	[147, 2721]	3669	[5095, 874]	5718	[6703, 4418]	7767	[7972, 1215]
1621	[2722, 2414]	3670	[2608, 5096]	5719	[6704, 2736]	7768	[7973, 6267]
1622	[2723, 2724]	3671	[5097, 5098]	5720	[6705, 4869]	7769	[7974, 2847]
1623	[2725, 2726]	3672	[5099, 1905]	5721	[4460, 6706]	7770	[7975, 257]
1624	[2727, 2728]	3673	[1848, 831]	5722	[6707, 2780]	7771	[7976, 3103]
1625	[2729, 2730]	3674	[5100, 62]	5723	[584, 5070]	7772	[7977, 3533]
1626	[2731, 2732]	3675	[2076, 5101]	5724	[2457, 6708]	7773	[7978, 3035]
1627	[724, 2637]	3676	[207, 2620]	5725	[6709, 871]	7774	[1253, 3938]
1628	[2733, 2734]	3677	[544, 5102]	5726	[647, 59]	7775	[1666, 1246]
1629	[2735, 722]	3678	[5103, 5104]	5727	[1735, 5353]	7776	[6434, 931]

1630	[2736, 154]	3679	[5105, 5106]	5728	[6710, 6711]	7777	[7979, 1055]
1631	[2737, 2738]	3680	[2082, 2405]	5729	[6712, 542]	7778	[5938, 374]
1632	[2739, 2740]	3681	[5107, 1816]	5730	[6713, 553]	7779	[7980, 365]
1633	[2160, 2741]	3682	[786, 49]	5731	[6714, 2434]	7780	[7981, 86]
1634	[2742, 2743]	3683	[1759, 4616]	5732	[2826, 38]	7781	[7982, 1552]
1635	[2744, 824]	3684	[5108, 4237]	5733	[2173, 6715]	7782	[6167, 3806]
1636	[2745, 2129]	3685	[5104, 5109]	5734	[6716, 861]	7783	[7983, 1039]
1637	[894, 2746]	3686	[5110, 5111]	5735	[6717, 4306]	7784	[3139, 3923]
1638	[2747, 2491]	3687	[5112, 155]	5736	[6718, 4443]	7785	[303, 2960]
1639	[2500, 2748]	3688	[5113, 1799]	5737	[6719, 4698]	7786	[5660, 5619]
1640	[2749, 2750]	3689	[5114, 2618]	5738	[1775, 1802]	7787	[2854, 5680]
1641	[2751, 791]	3690	[5115, 5116]	5739	[6720, 2421]	7788	[7984, 331]
1642	[2752, 2753]	3691	[5117, 4344]	5740	[6721, 4529]	7789	[7985, 1187]
1643	[2754, 1722]	3692	[5118, 1798]	5741	[6722, 2287]	7790	[1220, 5603]
1644	[2755, 2756]	3693	[4531, 2302]	5742	[6723, 2216]	7791	[7986, 3359]
1645	[2757, 2758]	3694	[5119, 5044]	5743	[6724, 4457]	7792	[6311, 1535]
1646	[2759, 2760]	3695	[5120, 4714]	5744	[590, 2661]	7793	[3273, 1640]
1647	[2761, 1959]	3696	[5121, 770]	5745	[748, 2015]	7794	[7987, 3725]
1648	[2762, 227]	3697	[5122, 2260]	5746	[6725, 672]	7795	[7988, 4105]
1649	[2763, 2764]	3698	[5123, 5007]	5747	[2017, 2462]	7796	[327, 5570]
1650	[2765, 2766]	3699	[5124, 4554]	5748	[6726, 197]	7797	[4084, 1339]
1651	[2767, 2768]	3700	[552, 1777]	5749	[2011, 860]	7798	[7989, 3089]
1652	[2769, 2770]	3701	[4342, 4583]	5750	[226, 6727]	7799	[7990, 1401]
1653	[2771, 1968]	3702	[5125, 4249]	5751	[5172, 5515]	7800	[7991, 2879]
1654	[2772, 2773]	3703	[5126, 5127]	5752	[6728, 1844]	7801	[3201, 301]
1655	[2774, 2456]	3704	[5128, 5129]	5753	[6729, 4296]	7802	[7992, 3280]
1656	[2378, 2775]	3705	[5130, 4350]	5754	[6730, 4239]	7803	[1552, 4215]
1657	[2776, 2777]	3706	[5131, 613]	5755	[6731, 2625]	7804	[3276, 364]
1658	[2778, 756]	3707	[5132, 2004]	5756	[6732, 4228]	7805	[7993, 3661]
1659	[2779, 2780]	3708	[657, 2282]	5757	[6733, 676]	7806	[3862, 456]
1660	[2781, 2368]	3709	[5133, 688]	5758	[6734, 1944]	7807	[1611, 1504]
1661	[2782, 39]	3710	[4839, 1940]	5759	[2539, 6735]	7808	[6478, 6174]
1662	[2783, 2784]	3711	[2591, 4490]	5760	[6736, 2800]	7809	[5705, 6070]
1663	[2785, 1868]	3712	[2261, 5134]	5761	[858, 5127]	7810	[7994, 5856]
1664	[2786, 2223]	3713	[5135, 530]	5762	[4385, 6737]	7811	[5997, 449]
1665	[2787, 2788]	3714	[5136, 5137]	5763	[6738, 4496]	7812	[5867, 6382]
1666	[2789, 2222]	3715	[5138, 5139]	5764	[6739, 2215]	7813	[1592, 5614]
1667	[2790, 223]	3716	[5140, 4906]	5765	[6740, 33]	7814	[287, 3495]
1668	[2791, 2792]	3717	[5141, 2825]	5766	[6741, 5062]	7815	[7995, 3468]
1669	[2793, 788]	3718	[4568, 4424]	5767	[2080, 4717]	7816	[7996, 1364]
1670	[2288, 2794]	3719	[5142, 837]	5768	[6742, 793]	7817	[7997, 3284]
1671	[2795, 2796]	3720	[5143, 5144]	5769	[6743, 2189]	7818	[3420, 1191]
1672	[2797, 2798]	3721	[5145, 2304]	5770	[2394, 832]	7819	[7998, 940]
1673	[2799, 728]	3722	[5146, 5147]	5771	[6695, 5277]	7820	[2970, 3201]

1674	[2800, 2801]	3723	[2044, 2041]	5772	[6744, 5159]	7821	[5753, 3471]
1675	[827, 2802]	3724	[5148, 5075]	5773	[6745, 833]	7822	[7999, 5988]
1676	[2803, 147]	3725	[5106, 4845]	5774	[6746, 6747]	7823	[5686, 5708]
1677	[2804, 2039]	3726	[5149, 5150]	5775	[6748, 6749]	7824	[6129, 979]
1678	[2805, 2806]	3727	[1714, 511]	5776	[6750, 4872]	7825	[8000, 3483]
1679	[2807, 2808]	3728	[5151, 2601]	5777	[6751, 2497]	7826	[8001, 3344]
1680	[50, 2809]	3729	[2417, 14]	5778	[6752, 5176]	7827	[8002, 1028]
1681	[2810, 1809]	3730	[5152, 5153]	5779	[4649, 5144]	7828	[8003, 1139]
1682	[1777, 2783]	3731	[5154, 2124]	5780	[6753, 598]	7829	[8004, 1222]
1683	[2811, 2812]	3732	[645, 4469]	5781	[6617, 6754]	7830	[8005, 3494]
1684	[2813, 2814]	3733	[5155, 4962]	5782	[6755, 5345]	7831	[8006, 1121]
1685	[2815, 1892]	3734	[4475, 2253]	5783	[6756, 227]	7832	[6415, 2926]
1686	[762, 2154]	3735	[5156, 1916]	5784	[2322, 229]	7833	[8007, 1637]
1687	[2816, 2796]	3736	[5157, 2581]	5785	[6757, 1730]	7834	[8008, 4202]
1688	[2817, 2818]	3737	[1720, 2265]	5786	[5314, 5037]	7835	[6053, 3088]
1689	[2819, 2820]	3738	[4448, 4309]	5787	[829, 2763]	7836	[1658, 1133]
1690	[2821, 2203]	3739	[5158, 623]	5788	[6758, 6759]	7837	[311, 3597]
1691	[2822, 2823]	3740	[2245, 5159]	5789	[6760, 719]	7838	[4144, 1571]
1692	[2824, 2825]	3741	[586, 2806]	5790	[6761, 2775]	7839	[1216, 4013]
1693	[889, 2826]	3742	[5160, 4839]	5791	[6762, 4597]	7840	[8009, 340]
1694	[2827, 2828]	3743	[5161, 4908]	5792	[6763, 734]	7841	[90, 5790]
1695	[2829, 2454]	3744	[5162, 548]	5793	[6764, 2662]	7842	[8010, 1467]
1696	[2067, 2012]	3745	[5163, 5164]	5794	[6765, 2473]	7843	[8011, 3453]
1697	[2830, 2831]	3746	[2611, 2250]	5795	[5159, 2589]	7844	[5940, 3073]
1698	[2832, 2833]	3747	[5165, 2475]	5796	[6766, 6767]	7845	[8012, 1024]
1699	[2834, 2835]	3748	[5166, 551]	5797	[680, 6768]	7846	[2856, 4050]
1700	[1143, 2836]	3749	[5167, 1826]	5798	[2624, 2522]	7847	[4105, 1551]
1701	[1137, 2837]	3750	[5168, 577]	5799	[6769, 5463]	7848	[8013, 937]
1702	[2838, 2839]	3751	[5127, 2449]	5800	[6770, 4662]	7849	[2869, 2919]
1703	[2840, 2841]	3752	[2780, 4687]	5801	[6771, 6772]	7850	[8014, 3205]
1704	[1535, 2842]	3753	[5169, 2088]	5802	[2, 1754]	7851	[3412, 6207]
1705	[2843, 290]	3754	[5170, 2139]	5803	[2412, 6773]	7852	[8015, 1027]
1706	[2844, 2845]	3755	[5171, 5172]	5804	[2304, 5352]	7853	[8016, 4141]
1707	[2846, 1592]	3756	[167, 4588]	5805	[6774, 5096]	7854	[8017, 1381]
1708	[1501, 1630]	3757	[5173, 4658]	5806	[6775, 4307]	7855	[8018, 1440]
1709	[1247, 2847]	3758	[5174, 5175]	5807	[4280, 4361]	7856	[3488, 3801]
1710	[1281, 2848]	3759	[5176, 2113]	5808	[2310, 2624]	7857	[8019, 2908]
1711	[2849, 2850]	3760	[5177, 5178]	5809	[1712, 2515]	7858	[5964, 3728]
1712	[1443, 2851]	3761	[5179, 4462]	5810	[5467, 5203]	7859	[1388, 1265]
1713	[2852, 2853]	3762	[554, 2143]	5811	[6776, 862]	7860	[3774, 6196]
1714	[1406, 2854]	3763	[5180, 183]	5812	[6777, 4470]	7861	[8020, 5569]
1715	[2855, 2856]	3764	[4517, 2061]	5813	[6778, 4854]	7862	[8021, 5591]
1716	[2857, 1019]	3765	[5181, 212]	5814	[678, 5233]	7863	[8022, 1089]
1717	[2858, 2859]	3766	[4371, 5167]	5815	[6779, 727]	7864	[8023, 1604]

1718	[2860, 1520]	3767	[5182, 2451]	5816	[4797, 6780]	7865	[3683, 3377]
1719	[1586, 2861]	3768	[5183, 4282]	5817	[6781, 4634]	7866	[8024, 3272]
1720	[2862, 2863]	3769	[5184, 5185]	5818	[5542, 2240]	7867	[6505, 5632]
1721	[2864, 2865]	3770	[768, 61]	5819	[6782, 2585]	7868	[8025, 3213]
1722	[2866, 2867]	3771	[2600, 2225]	5820	[6783, 5347]	7869	[4103, 1043]
1723	[2868, 2869]	3772	[5186, 188]	5821	[2380, 1825]	7870	[3967, 3819]
1724	[1180, 1591]	3773	[5187, 5188]	5822	[6784, 2511]	7871	[8026, 4080]
1725	[2870, 2871]	3774	[5189, 491]	5823	[6785, 4785]	7872	[3284, 5888]
1726	[2872, 2873]	3775	[5190, 161]	5824	[6786, 6787]	7873	[2993, 3753]
1727	[2874, 2875]	3776	[2689, 1735]	5825	[6788, 2357]	7874	[1615, 4096]
1728	[2831, 2876]	3777	[5191, 5192]	5826	[6789, 4747]	7875	[4009, 3452]
1729	[2877, 2878]	3778	[5193, 4342]	5827	[2433, 4672]	7876	[8027, 2920]
1730	[2879, 2880]	3779	[5194, 4505]	5828	[6790, 1933]	7877	[8028, 3441]
1731	[2881, 2882]	3780	[2823, 4564]	5829	[6791, 2270]	7878	[3051, 1635]
1732	[2883, 2884]	3781	[5195, 4395]	5830	[6792, 794]	7879	[3483, 1524]
1733	[2885, 1495]	3782	[5196, 4333]	5831	[6793, 2105]	7880	[1301, 1217]
1734	[2886, 2887]	3783	[5197, 4411]	5832	[663, 5051]	7881	[8029, 1392]
1735	[2888, 2889]	3784	[2801, 5139]	5833	[6794, 4682]	7882	[8030, 2903]
1736	[2890, 1118]	3785	[5198, 2683]	5834	[6795, 2518]	7883	[8031, 70]
1737	[2891, 2892]	3786	[5199, 5200]	5835	[6796, 2089]	7884	[8032, 1428]
1738	[2893, 2894]	3787	[5201, 5202]	5836	[2557, 5551]	7885	[4093, 330]
1739	[2895, 2896]	3788	[5203, 1739]	5837	[1773, 145]	7886	[8033, 3541]
1740	[2897, 2898]	3789	[5204, 4297]	5838	[5540, 6797]	7887	[1073, 1646]
1741	[1208, 2897]	3790	[5205, 2693]	5839	[1785, 5345]	7888	[4014, 4044]
1742	[1351, 1452]	3791	[5206, 224]	5840	[5039, 6798]	7889	[8034, 3249]
1743	[2899, 2900]	3792	[5207, 2785]	5841	[4872, 4905]	7890	[8035, 5623]
1744	[2901, 2902]	3793	[4299, 4314]	5842	[1791, 650]	7891	[3953, 3206]
1745	[384, 2903]	3794	[5208, 1833]	5843	[6799, 1949]	7892	[8036, 3198]
1746	[386, 2904]	3795	[670, 5209]	5844	[6800, 4349]	7893	[3423, 2901]
1747	[2905, 1149]	3796	[5210, 2772]	5845	[199, 6801]	7894	[948, 1183]
1748	[2906, 362]	3797	[5211, 203]	5846	[4390, 6802]	7895	[8037, 1131]
1749	[1404, 2907]	3798	[608, 746]	5847	[6803, 2479]	7896	[8038, 3556]
1750	[1640, 2908]	3799	[5212, 2298]	5848	[6804, 2341]	7897	[3166, 1345]
1751	[2909, 2910]	3800	[5213, 4769]	5849	[2238, 6668]	7898	[8039, 5935]
1752	[1382, 1330]	3801	[5214, 4763]	5850	[6805, 5002]	7899	[3507, 3765]
1753	[1314, 2911]	3802	[780, 2820]	5851	[6806, 6807]	7900	[8040, 3004]
1754	[2912, 1179]	3803	[2741, 2544]	5852	[2643, 4668]	7901	[98, 406]
1755	[2913, 1137]	3804	[5215, 2212]	5853	[6808, 4603]	7902	[1626, 482]
1756	[2914, 2915]	3805	[1952, 5216]	5854	[2656, 5463]	7903	[329, 4192]
1757	[2916, 2917]	3806	[5217, 616]	5855	[6809, 4717]	7904	[291, 5908]
1758	[2918, 2919]	3807	[5218, 46]	5856	[4603, 4810]	7905	[8041, 3871]
1759	[980, 2920]	3808	[4746, 4352]	5857	[6810, 1990]	7906	[8042, 3021]
1760	[2921, 2922]	3809	[5219, 2734]	5858	[6811, 4586]	7907	[8043, 5695]
1761	[2923, 2924]	3810	[5220, 2011]	5859	[6812, 5258]	7908	[8044, 457]

1762	[2925, 2926]	3811	[537, 1968]	5860	[6813, 4240]	7909	[2935, 3014]
1763	[2927, 293]	3812	[2427, 5221]	5861	[6814, 6758]	7910	[4119, 468]
1764	[96, 350]	3813	[701, 5192]	5862	[4733, 6589]	7911	[285, 1327]
1765	[1332, 2928]	3814	[5222, 4718]	5863	[6644, 2675]	7912	[3555, 3545]
1766	[2929, 1127]	3815	[5223, 4452]	5864	[6815, 5265]	7913	[8045, 1356]
1767	[2930, 2931]	3816	[5224, 4399]	5865	[6816, 6817]	7914	[8046, 3936]
1768	[2880, 2932]	3817	[5225, 881]	5866	[6818, 4826]	7915	[8047, 1451]
1769	[2933, 1484]	3818	[4662, 547]	5867	[6819, 2396]	7916	[8048, 402]
1770	[2934, 2935]	3819	[5226, 514]	5868	[6820, 5490]	7917	[325, 306]
1771	[2850, 2936]	3820	[2469, 4224]	5869	[6821, 8]	7918	[8049, 3568]
1772	[2937, 2938]	3821	[5227, 4256]	5870	[6822, 1817]	7919	[1249, 3615]
1773	[2939, 1270]	3822	[5228, 4293]	5871	[6823, 6824]	7920	[6217, 477]
1774	[2940, 372]	3823	[1980, 2084]	5872	[2743, 2494]	7921	[8050, 4111]
1775	[2896, 1614]	3824	[5229, 4649]	5873	[6825, 896]	7922	[4000, 3564]
1776	[1339, 2941]	3825	[4868, 4475]	5874	[4888, 4785]	7923	[4114, 1274]
1777	[2942, 2943]	3826	[5230, 5231]	5875	[6826, 129]	7924	[8051, 349]
1778	[2944, 2945]	3827	[5232, 5233]	5876	[6827, 4747]	7925	[8052, 435]
1779	[1603, 2946]	3828	[2818, 5234]	5877	[6828, 6738]	7926	[8053, 3102]
1780	[2947, 325]	3829	[5235, 5236]	5878	[2319, 2318]	7927	[5626, 1156]
1781	[347, 1387]	3830	[5237, 4232]	5879	[6829, 2460]	7928	[8054, 957]
1782	[2948, 2949]	3831	[2694, 4716]	5880	[6830, 4507]	7929	[8055, 3444]
1783	[2950, 354]	3832	[5238, 5239]	5881	[2794, 2203]	7930	[1113, 2866]
1784	[2951, 282]	3833	[5240, 2003]	5882	[6831, 2028]	7931	[8056, 3232]
1785	[2952, 1351]	3834	[5241, 690]	5883	[4892, 1898]	7932	[8057, 2923]
1786	[2953, 947]	3835	[4816, 1770]	5884	[6832, 2743]	7933	[3400, 1554]
1787	[2954, 2955]	3836	[5242, 2559]	5885	[6833, 544]	7934	[1602, 3387]
1788	[1533, 2956]	3837	[5243, 4943]	5886	[6834, 2742]	7935	[1174, 6370]
1789	[2957, 1423]	3838	[1795, 762]	5887	[4687, 1856]	7936	[3999, 6080]
1790	[2958, 2959]	3839	[5244, 4954]	5888	[6835, 4439]	7937	[3231, 1446]
1791	[2960, 2961]	3840	[5245, 2273]	5889	[639, 2788]	7938	[7349, 5793]
1792	[2962, 297]	3841	[189, 1733]	5890	[6836, 6837]	7939	[8058, 2673]
1793	[2963, 2964]	3842	[4392, 163]	5891	[6838, 752]	7940	[235, 5402]
1794	[2965, 1418]	3843	[5246, 736]	5892	[5308, 504]	7941	[2301, 723]
1795	[2920, 2966]	3844	[5247, 2469]	5893	[5552, 2266]	7942	[8059, 6724]
1796	[2967, 2968]	3845	[5248, 5249]	5894	[6839, 6775]	7943	[8060, 828]
1797	[2969, 2970]	3846	[5250, 660]	5895	[6628, 2121]	7944	[8061, 7800]
1798	[2971, 2972]	3847	[5251, 742]	5896	[6840, 2332]	7945	[8062, 5149]
1799	[1279, 2973]	3848	[5252, 925]	5897	[4277, 6841]	7946	[8063, 7759]
1800	[2974, 2975]	3849	[4348, 507]	5898	[6842, 2229]	7947	[8064, 2099]
1801	[2976, 2977]	3850	[5253, 2789]	5899	[620, 566]	7948	[8065, 7197]
1802	[2978, 1616]	3851	[5254, 687]	5900	[6843, 4777]	7949	[8066, 6635]
1803	[64, 2979]	3852	[5255, 5256]	5901	[6844, 561]	7950	[8067, 5047]
1804	[1400, 1555]	3853	[5257, 5205]	5902	[5221, 4953]	7951	[4361, 6711]
1805	[2980, 2981]	3854	[5258, 4446]	5903	[6845, 5414]	7952	[8068, 2546]

1806	[2982, 2983]	3855	[5259, 4834]	5904	[6846, 2224]	7953	[2259, 7184]
1807	[2984, 2985]	3856	[5260, 2468]	5905	[6847, 2513]	7954	[8069, 5054]
1808	[2986, 2911]	3857	[5261, 1820]	5906	[6848, 196]	7955	[8070, 2586]
1809	[2987, 2988]	3858	[5262, 827]	5907	[6849, 2409]	7956	[8071, 2735]
1810	[2989, 108]	3859	[5263, 1848]	5908	[6850, 2804]	7957	[8072, 4346]
1811	[2990, 1240]	3860	[5264, 2809]	5909	[2029, 793]	7958	[5342, 2125]
1812	[2991, 1021]	3861	[2820, 4634]	5910	[572, 4502]	7959	[8073, 5246]
1813	[2968, 1366]	3862	[4937, 5205]	5911	[6851, 4719]	7960	[760, 2551]
1814	[1045, 407]	3863	[5030, 5265]	5912	[4659, 4914]	7961	[5129, 5185]
1815	[2992, 2993]	3864	[4500, 732]	5913	[6852, 181]	7962	[1954, 2575]
1816	[2994, 2995]	3865	[5266, 875]	5914	[6853, 1806]	7963	[5273, 7257]
1817	[1634, 2996]	3866	[5267, 4261]	5915	[821, 2326]	7964	[2728, 5142]
1818	[2936, 2997]	3867	[2334, 5172]	5916	[4308, 2002]	7965	[6708, 1784]
1819	[2998, 426]	3868	[4697, 5202]	5917	[6797, 493]	7966	[8074, 2565]
1820	[928, 2999]	3869	[1755, 5110]	5918	[5239, 2779]	7967	[8075, 2375]
1821	[936, 3000]	3870	[5268, 1949]	5919	[5445, 4961]	7968	[5109, 2439]
1822	[1475, 3001]	3871	[5269, 5270]	5920	[2775, 1876]	7969	[2204, 4698]
1823	[3002, 3003]	3872	[4222, 641]	5921	[6854, 747]	7970	[799, 6728]
1824	[1492, 3004]	3873	[2227, 45]	5922	[6578, 1983]	7971	[2632, 5530]
1825	[4, 2984]	3874	[2758, 4934]	5923	[6855, 2334]	7972	[8076, 4327]
1826	[3005, 2975]	3875	[5086, 5006]	5924	[2015, 6838]	7973	[8077, 4800]
1827	[3006, 1475]	3876	[4638, 4520]	5925	[2614, 5062]	7974	[2404, 6814]
1828	[3007, 3008]	3877	[5271, 195]	5926	[6856, 2603]	7975	[8078, 2076]
1829	[2972, 3009]	3878	[1943, 2720]	5927	[5460, 2479]	7976	[2218, 5517]
1830	[3010, 3011]	3879	[5272, 1958]	5928	[6857, 2353]	7977	[7898, 5346]
1831	[3012, 3013]	3880	[4515, 5273]	5929	[6858, 243]	7978	[8079, 1731]
1832	[3014, 396]	3881	[5274, 1821]	5930	[2040, 4925]	7979	[8080, 1913]
1833	[3015, 1695]	3882	[4939, 2750]	5931	[6859, 2201]	7980	[8081, 6818]
1834	[1507, 3016]	3883	[5275, 4660]	5932	[2497, 2525]	7981	[8082, 4370]
1835	[3017, 3018]	3884	[5276, 2829]	5933	[6650, 6860]	7982	[2229, 5176]
1836	[3019, 1107]	3885	[5277, 4941]	5934	[2328, 4904]	7983	[1907, 7042]
1837	[3020, 3021]	3886	[5278, 4595]	5935	[6861, 1918]	7984	[8083, 178]
1838	[3022, 3023]	3887	[5279, 4468]	5936	[6862, 1851]	7985	[8084, 5165]
1839	[1321, 1472]	3888	[177, 5058]	5937	[604, 4804]	7986	[4941, 553]
1840	[3024, 3025]	3889	[5280, 1861]	5938	[6863, 2539]	7987	[503, 5149]
1841	[3026, 3027]	3890	[4947, 33]	5939	[6864, 4726]	7988	[2561, 1697]
1842	[3028, 1072]	3891	[5281, 2445]	5940	[6865, 812]	7989	[8085, 2007]
1843	[309, 3029]	3892	[5282, 5283]	5941	[533, 6866]	7990	[8086, 6813]
1844	[3030, 1504]	3893	[4647, 2161]	5942	[5216, 4234]	7991	[2620, 4285]
1845	[3031, 3032]	3894	[5284, 2323]	5943	[873, 2488]	7992	[8087, 5244]
1846	[3033, 3034]	3895	[1879, 5199]	5944	[5071, 6650]	7993	[8088, 5107]
1847	[1141, 3035]	3896	[5285, 2747]	5945	[6867, 2547]	7994	[8089, 4953]
1848	[3036, 3037]	3897	[2353, 4767]	5946	[4402, 1846]	7995	[8090, 895]
1849	[3038, 3039]	3898	[5286, 1814]	5947	[6868, 724]	7996	[7232, 1932]

1850	[3040, 3041]	3899	[5287, 545]	5948	[6869, 739]	7997	[8091, 5111]
1851	[3042, 1120]	3900	[5288, 892]	5949	[60, 5249]	7998	[8092, 6786]
1852	[3043, 3044]	3901	[5289, 591]	5950	[6870, 555]	7999	[7924, 7028]
1853	[3045, 275]	3902	[5290, 5291]	5951	[6871, 5381]	8000	[4494, 186]
1854	[3046, 3047]	3903	[5292, 2033]	5952	[6872, 2641]	8001	[2312, 4730]
1855	[3048, 3049]	3904	[2107, 1764]	5953	[245, 2471]	8002	[598, 5523]
1856	[3050, 3051]	3905	[851, 5293]	5954	[6873, 5353]	8003	[8093, 4750]
1857	[437, 3052]	3906	[5294, 4786]	5955	[4825, 1715]	8004	[2459, 5095]
1858	[3053, 3054]	3907	[5295, 5136]	5956	[6874, 567]	8005	[8094, 1850]
1859	[3055, 3056]	3908	[4349, 2053]	5957	[6875, 5312]	8006	[8095, 5459]
1860	[3057, 3058]	3909	[52, 2811]	5958	[6876, 1785]	8007	[8096, 7167]
1861	[3059, 1301]	3910	[5296, 748]	5959	[6877, 4488]	8008	[2324, 5268]
1862	[3060, 3061]	3911	[5297, 4816]	5960	[6878, 5543]	8009	[5330, 6959]
1863	[3062, 1680]	3912	[5298, 631]	5961	[831, 6656]	8010	[8097, 6838]
1864	[3063, 3064]	3913	[1757, 4504]	5962	[6879, 6735]	8011	[4727, 1946]
1865	[1088, 3065]	3914	[5299, 2668]	5963	[2490, 6880]	8012	[8098, 6923]
1866	[3066, 1211]	3915	[5300, 2723]	5964	[2597, 4793]	8013	[4788, 1717]
1867	[1437, 3067]	3916	[5301, 4608]	5965	[4228, 1882]	8014	[8099, 4389]
1868	[1509, 2933]	3917	[5302, 4730]	5966	[2583, 4992]	8015	[7233, 1870]
1869	[3001, 1507]	3918	[5303, 629]	5967	[145, 6881]	8016	[8100, 6768]
1870	[3068, 3069]	3919	[5304, 5000]	5968	[6882, 1932]	8017	[8101, 2418]
1871	[3070, 1685]	3920	[5305, 2062]	5969	[6883, 4486]	8018	[5513, 5297]
1872	[3071, 1181]	3921	[5306, 1828]	5970	[6737, 5080]	8019	[8102, 2824]
1873	[3072, 1183]	3922	[5307, 5308]	5971	[4525, 6738]	8020	[8103, 6959]
1874	[3073, 3046]	3923	[5309, 5310]	5972	[6884, 2240]	8021	[7840, 5098]
1875	[3074, 3075]	3924	[5311, 5312]	5973	[682, 5387]	8022	[8104, 7102]
1876	[3076, 3077]	3925	[5313, 5314]	5974	[6885, 5114]	8023	[8105, 1976]
1877	[3078, 3079]	3926	[5315, 498]	5975	[1868, 6886]	8024	[8106, 6706]
1878	[3080, 3081]	3927	[5316, 5317]	5976	[6887, 1716]	8025	[2181, 5445]
1879	[365, 3082]	3928	[5318, 578]	5977	[2196, 2350]	8026	[8107, 4406]
1880	[3083, 3084]	3929	[4266, 2671]	5978	[6807, 520]	8027	[823, 4383]
1881	[3085, 1157]	3930	[5319, 60]	5979	[6888, 1942]	8028	[8108, 7109]
1882	[3086, 3087]	3931	[5320, 2207]	5980	[214, 4238]	8029	[6937, 5067]
1883	[3088, 3089]	3932	[175, 2438]	5981	[1814, 2667]	8030	[8109, 7208]
1884	[3090, 1544]	3933	[5321, 5322]	5982	[6889, 564]	8031	[8110, 4219]
1885	[3091, 3092]	3934	[4431, 4437]	5983	[6890, 5498]	8032	[8111, 4216]
1886	[3093, 3094]	3935	[5323, 4280]	5984	[1852, 822]	8033	[6866, 5326]
1887	[422, 3095]	3936	[2410, 2398]	5985	[6891, 5070]	8034	[2567, 2387]
1888	[3096, 1319]	3937	[4400, 5246]	5986	[4716, 925]	8035	[4810, 4441]
1889	[3097, 3098]	3938	[5324, 2181]	5987	[4688, 4683]	8036	[8112, 6787]
1890	[3099, 3100]	3939	[5325, 5326]	5988	[6892, 4733]	8037	[1807, 4569]
1891	[3101, 2836]	3940	[5327, 4396]	5989	[6893, 5500]	8038	[8113, 4944]
1892	[3102, 3103]	3941	[2541, 2118]	5990	[6894, 4425]	8039	[6773, 7777]
1893	[3104, 3105]	3942	[2483, 5328]	5991	[6895, 2773]	8040	[4354, 4756]

1894	[3106, 3107]	3943	[5329, 5330]	5992	[2035, 4585]	8041	[8114, 7709]
1895	[3108, 3025]	3944	[4943, 5331]	5993	[6896, 2584]	8042	[566, 1907]
1896	[3109, 1461]	3945	[1830, 129]	5994	[6897, 4558]	8043	[582, 6915]
1897	[3110, 3111]	3946	[5083, 1847]	5995	[6898, 4559]	8044	[8115, 882]
1898	[3112, 3113]	3947	[816, 2343]	5996	[6899, 5114]	8045	[8116, 2385]
1899	[3114, 3115]	3948	[5332, 4469]	5997	[6900, 2086]	8046	[8117, 1930]
1900	[3116, 3117]	3949	[5333, 5334]	5998	[6901, 6798]	8047	[8118, 4307]
1901	[3118, 3119]	3950	[5335, 2373]	5999	[6902, 2471]	8048	[8119, 7900]
1902	[3120, 296]	3951	[5336, 4722]	6000	[6903, 4967]	8049	[5376, 4365]
1903	[2910, 298]	3952	[5337, 4599]	6001	[6904, 6905]	8050	[1841, 5197]
1904	[3121, 1425]	3953	[5338, 218]	6002	[4646, 2673]	8051	[1787, 7900]
1905	[94, 1251]	3954	[5339, 2371]	6003	[173, 4462]	8052	[2707, 6749]
1906	[2917, 3122]	3955	[910, 2504]	6004	[6906, 6657]	8053	[8120, 4536]
1907	[3123, 3124]	3956	[5340, 1971]	6005	[2032, 2644]	8054	[8121, 4408]
1908	[3125, 3126]	3957	[5341, 5342]	6006	[6907, 6908]	8055	[1875, 7023]
1909	[3127, 1378]	3958	[5343, 2550]	6007	[6909, 131]	8056	[2495, 1913]
1910	[3128, 2958]	3959	[5344, 2172]	6008	[6910, 5552]	8057	[8122, 5268]
1911	[1131, 3129]	3960	[5345, 1742]	6009	[6911, 4651]	8058	[930, 4062]
1912	[3130, 109]	3961	[2663, 4251]	6010	[6912, 2219]	8059	[5982, 6454]
1913	[3131, 3132]	3962	[1700, 2433]	6011	[4408, 5360]	8060	[8123, 1536]
1914	[3133, 3134]	3963	[2544, 128]	6012	[5543, 1813]	8061	[5856, 276]
1915	[3135, 3136]	3964	[5346, 5347]	6013	[6913, 4770]	8062	[3047, 327]
1916	[1610, 3137]	3965	[187, 5310]	6014	[6914, 6915]	8063	[1127, 1289]
1917	[3138, 3139]	3966	[5348, 5240]	6015	[6916, 5003]	8064	[3129, 6182]
1918	[3140, 3141]	3967	[2231, 5164]	6016	[5003, 4880]	8065	[8124, 363]
1919	[3142, 3143]	3968	[5349, 5350]	6017	[6917, 1936]	8066	[6312, 1084]
1920	[1125, 3144]	3969	[5351, 5352]	6018	[6918, 4624]	8067	[2900, 282]
1921	[3145, 3146]	3970	[5353, 5354]	6019	[4899, 4892]	8068	[8125, 1224]
1922	[1412, 1587]	3971	[1708, 5355]	6020	[6919, 2724]	8069	[8126, 3658]
1923	[3147, 978]	3972	[5356, 4746]	6021	[1797, 5490]	8070	[261, 3186]
1924	[3148, 3149]	3973	[5312, 5270]	6022	[6920, 1764]	8071	[8127, 2974]
1925	[3150, 3151]	3974	[2074, 2648]	6023	[6921, 781]	8072	[8128, 1247]
1926	[3126, 3152]	3975	[5357, 5358]	6024	[4227, 6922]	8073	[8129, 1123]
1927	[3153, 2904]	3976	[5359, 2618]	6025	[4439, 6923]	8074	[8130, 3431]
1928	[3154, 1097]	3977	[5360, 2621]	6026	[6924, 5405]	8075	[8131, 3534]
1929	[3155, 2906]	3978	[628, 2221]	6027	[6925, 1710]	8076	[1015, 3821]
1930	[3156, 3157]	3979	[5361, 2410]	6028	[2148, 4777]	8077	[6174, 369]
1931	[3158, 3159]	3980	[5362, 4770]	6029	[4894, 172]	8078	[8132, 3997]
1932	[3160, 3161]	3981	[5363, 4929]	6030	[5355, 5165]	8079	[4195, 5704]
1933	[3162, 3163]	3982	[4297, 2536]	6031	[6926, 823]	8080	[5641, 3133]
1934	[3164, 3165]	3983	[5364, 5010]	6032	[2133, 36]	8081	[8133, 335]
1935	[932, 3166]	3984	[5365, 5366]	6033	[2770, 4267]	8082	[1696, 20]
1936	[3167, 1114]	3985	[5367, 1955]	6034	[6927, 5523]	8083	[5929, 3069]
1937	[2837, 3168]	3986	[1859, 4606]	6035	[6928, 1738]	8084	[8134, 307]

1938	[3169, 1054]	3987	[695, 5368]	6036	[6929, 4330]	8085	[3823, 4101]
1939	[1291, 3170]	3988	[5369, 5370]	6037	[6930, 171]	8086	[5557, 3735]
1940	[3171, 3172]	3989	[5371, 4410]	6038	[6931, 1754]	8087	[1317, 3623]
1941	[3173, 3174]	3990	[5372, 4814]	6039	[6932, 2057]	8088	[1197, 5791]
1942	[3175, 3176]	3991	[542, 4219]	6040	[6933, 4556]	8089	[1457, 3143]
1943	[1046, 3177]	3992	[5373, 829]	6041	[1803, 1967]	8090	[8135, 3499]
1944	[3178, 3179]	3993	[535, 4244]	6042	[6934, 2672]	8091	[8136, 5567]
1945	[3180, 3054]	3994	[5374, 4309]	6043	[6935, 4617]	8092	[293, 3573]
1946	[3181, 1665]	3995	[4992, 716]	6044	[6610, 4919]	8093	[967, 3324]
1947	[3182, 3183]	3996	[5375, 5018]	6045	[6936, 6937]	8094	[8137, 1594]
1948	[1086, 3184]	3997	[2576, 819]	6046	[6938, 536]	8095	[8138, 429]
1949	[3185, 3186]	3998	[1961, 2585]	6047	[6939, 798]	8096	[8139, 1612]
1950	[1158, 3187]	3999	[1963, 5376]	6048	[4862, 745]	8097	[3932, 1399]
1951	[3008, 1138]	4000	[5137, 2653]	6049	[6940, 2752]	8098	[1037, 1545]
1952	[3188, 1178]	4001	[4906, 2756]	6050	[6941, 5109]	8099	[5907, 273]
1953	[3189, 3190]	4002	[5377, 845]	6051	[6942, 2598]	8100	[1578, 5672]
1954	[2938, 3191]	4003	[4417, 4527]	6052	[6943, 2583]	8101	[4213, 1427]
1955	[3192, 3193]	4004	[4671, 584]	6053	[6944, 2140]	8102	[5581, 461]
1956	[3194, 3195]	4005	[5378, 1819]	6054	[6945, 50]	8103	[8140, 1022]
1957	[3044, 2953]	4006	[2809, 2533]	6055	[6946, 4683]	8104	[1607, 2833]
1958	[117, 3196]	4007	[1763, 5104]	6056	[689, 2211]	8105	[8141, 3601]
1959	[3197, 3198]	4008	[135, 5379]	6057	[6947, 2500]	8106	[8142, 3023]
1960	[3199, 1521]	4009	[5380, 1759]	6058	[6948, 541]	8107	[8143, 3644]
1961	[3200, 3201]	4010	[2721, 5381]	6059	[5202, 5486]	8108	[6102, 3772]
1962	[3202, 3203]	4011	[2383, 1970]	6060	[6949, 2236]	8109	[8144, 3973]
1963	[3204, 3205]	4012	[5382, 4628]	6061	[2183, 5370]	8110	[5773, 5568]
1964	[3206, 3036]	4013	[5383, 5384]	6062	[4518, 6695]	8111	[4215, 5559]
1965	[3207, 392]	4014	[232, 2060]	6063	[2710, 2816]	8112	[8145, 1505]
1966	[108, 3208]	4015	[5385, 234]	6064	[6950, 2183]	8113	[8146, 1349]
1967	[66, 1160]	4016	[5386, 5387]	6065	[6802, 2735]	8114	[8147, 3062]
1968	[3209, 457]	4017	[5388, 4869]	6066	[2773, 6951]	8115	[8148, 997]
1969	[1024, 3210]	4018	[5389, 2185]	6067	[6952, 6870]	8116	[337, 3707]
1970	[3211, 3212]	4019	[2681, 4384]	6068	[6953, 4952]	8117	[8149, 1368]
1971	[3213, 1095]	4020	[5390, 5391]	6069	[6954, 2447]	8118	[8150, 2932]
1972	[3214, 3215]	4021	[5392, 2526]	6070	[6955, 2758]	8119	[8151, 426]
1973	[3216, 1192]	4022	[2734, 4722]	6071	[6956, 890]	8120	[8152, 3517]
1974	[3217, 3218]	4023	[5393, 2194]	6072	[2042, 43]	8121	[8153, 3780]
1975	[269, 3219]	4024	[5394, 5395]	6073	[48, 2054]	8122	[8154, 3543]
1976	[3220, 3221]	4025	[5396, 5397]	6074	[4692, 2534]	8123	[8155, 2626]
1977	[3222, 3223]	4026	[5398, 2679]	6075	[6957, 6958]	8124	[4759, 7176]
1978	[1069, 3224]	4027	[1877, 2742]	6076	[6959, 570]	8125	[7759, 2189]
1979	[279, 3225]	4028	[2617, 4402]	6077	[4958, 1994]	8126	[5381, 2329]
1980	[3226, 3227]	4029	[5399, 666]	6078	[4498, 911]	8127	[4660, 4842]
1981	[3228, 3229]	4030	[4896, 890]	6079	[4608, 2246]	8128	[8156, 4238]

1982	[2875, 1047]	4031	[5400, 5009]	6080	[6960, 2448]	8129	[7067, 2028]
1983	[3230, 3231]	4032	[5401, 5402]	6081	[6961, 4356]	8130	[7729, 4661]
1984	[3232, 2921]	4033	[5403, 4697]	6082	[2023, 5136]	8131	[12, 1972]
1985	[1162, 2923]	4034	[5404, 5273]	6083	[137, 1975]	8132	[8157, 52]
1986	[3233, 3234]	4035	[5405, 2224]	6084	[6962, 4547]	8133	[7905, 6917]
1987	[1285, 3235]	4036	[5406, 2576]	6085	[6963, 2244]	8134	[8158, 6622]
1988	[3236, 3237]	4037	[1737, 5000]	6086	[6656, 231]	8135	[7134, 4488]
1989	[3238, 3239]	4038	[2207, 5366]	6087	[6964, 4888]	8136	[8159, 7924]
1990	[3240, 3241]	4039	[5407, 5075]	6088	[6965, 4623]	8137	[2454, 7898]
1991	[3242, 3243]	4040	[5408, 4935]	6089	[1781, 754]	8138	[779, 6978]
1992	[3244, 3245]	4041	[5409, 872]	6090	[6966, 242]	8139	[8160, 5051]
1993	[3246, 3247]	4042	[741, 1751]	6091	[6967, 2003]	8140	[7061, 6595]
1994	[3248, 2901]	4043	[5410, 2541]	6092	[568, 734]	8141	[4237, 4376]
1995	[3249, 1359]	4044	[5411, 4788]	6093	[6837, 2800]	8142	[8161, 6885]
1996	[3250, 3251]	4045	[5412, 2779]	6094	[5096, 2045]	8143	[8162, 675]
1997	[1523, 933]	4046	[5413, 4731]	6095	[2341, 2563]	8144	[8163, 7251]
1998	[3252, 3253]	4047	[2802, 4808]	6096	[564, 2706]	8145	[8164, 7777]
1999	[283, 1580]	4048	[209, 5414]	6097	[6968, 4580]	8146	[7238, 4927]
2000	[3254, 2867]	4049	[5415, 2675]	6098	[6969, 4454]	8147	[7779, 2726]
2001	[3255, 1462]	4050	[5416, 5417]	6099	[750, 5384]	8148	[8165, 917]
2002	[3256, 3097]	4051	[5418, 5120]	6100	[6970, 2360]	8149	[8166, 5492]
2003	[3041, 1633]	4052	[2275, 2332]	6101	[6971, 6972]	8150	[4583, 7189]
2004	[1561, 3257]	4053	[5419, 5221]	6102	[4581, 4896]	8151	[7022, 5452]
2005	[1605, 3258]	4054	[5420, 4536]	6103	[4263, 769]	8152	[8167, 5180]
2006	[3259, 3260]	4055	[5421, 221]	6104	[6973, 1995]	8153	[8168, 4706]
2007	[3261, 3262]	4056	[5422, 5277]	6105	[6974, 5289]	8154	[8169, 2496]
2008	[3263, 3264]	4057	[5423, 2561]	6106	[6975, 194]	8155	[8170, 427]
2009	[3265, 3195]	4058	[5424, 4797]	6107	[6951, 6976]	8156	[3618, 3787]
2010	[3266, 1583]	4059	[716, 4829]	6108	[6977, 6978]	8157	[8171, 3193]
2011	[3267, 3268]	4060	[5425, 2193]	6109	[6979, 139]	8158	[8172, 452]
2012	[3269, 345]	4061	[5426, 4568]	6110	[2046, 6657]	8159	[6212, 3176]
2013	[3270, 3271]	4062	[5427, 2401]	6111	[6980, 1725]	8160	[3863, 3161]
2014	[3272, 346]	4063	[4783, 5047]	6112	[239, 6981]	8161	[8173, 1546]
2015	[1336, 3273]	4064	[5428, 817]	6113	[4935, 5395]	8162	[8174, 351]
2016	[378, 1404]	4065	[5429, 4557]	6114	[6982, 5285]	8163	[8175, 3011]
2017	[3274, 3275]	4066	[5430, 5254]	6115	[6983, 2241]	8164	[8176, 3963]
2018	[1026, 3276]	4067	[839, 5129]	6116	[6984, 4883]	8165	[8177, 1680]
2019	[1028, 1006]	4068	[5431, 5432]	6117	[4883, 2243]	8166	[8178, 3557]
2020	[3277, 3278]	4069	[5433, 2204]	6118	[4885, 4985]	8167	[8179, 362]
2021	[3279, 3280]	4070	[5434, 4727]	6119	[2315, 5091]	8168	[8180, 3415]
2022	[1121, 3281]	4071	[5435, 2504]	6120	[6985, 2315]	8169	[8181, 2848]
2023	[3282, 1604]	4072	[2812, 802]	6121	[4304, 1888]	8170	[6674, 4399]
2024	[3283, 3258]	4073	[4718, 872]	6122	[6986, 5081]	8171	[8182, 2443]
2025	[3107, 3284]	4074	[5436, 2446]	6123	[4377, 700]	8172	[6715, 4262]

2026	[3285, 3286]	4075	[5437, 2245]	6124	[5347, 223]	8173	[8183, 2552]
2027	[2973, 3287]	4076	[5438, 5077]	6125	[4366, 5153]	8174	[4251, 2565]
2028	[3288, 1023]	4077	[5439, 783]	6126	[6987, 5388]	8175	[8184, 6857]
2029	[3289, 1626]	4078	[5440, 5086]	6127	[5006, 4511]	8176	[7834, 2638]
2030	[3290, 475]	4079	[5441, 832]	6128	[2505, 4865]	8177	[7010, 2810]
2031	[3268, 3291]	4080	[4845, 2547]	6129	[5231, 193]	8178	[5291, 2546]
2032	[3292, 3293]	4081	[4537, 2658]	6130	[6988, 5551]	8179	[8185, 704]
2033	[406, 3294]	4082	[4248, 2272]	6131	[6989, 4365]	8180	[8186, 5334]
2034	[3295, 3296]	4083	[5442, 5135]	6132	[6990, 2228]	8181	[4520, 4562]
2035	[3297, 1345]	4084	[4468, 2394]	6133	[4921, 6991]	8182	[8187, 3945]
2036	[3087, 3298]	4085	[752, 5256]	6134	[6992, 5087]	8183	[8188, 3302]
2037	[3299, 1659]	4086	[5443, 736]	6135	[4452, 5030]	8184	[8189, 2878]
2038	[3300, 1477]	4087	[5444, 5445]	6136	[2426, 2635]	8185	[8190, 1243]
2039	[3301, 3302]	4088	[5446, 2024]	6137	[6993, 1943]	8186	[8191, 1465]
2040	[3303, 1287]	4089	[1871, 2080]	6138	[6994, 2387]	8187	[4425, 5083]
2041	[3304, 3305]	4090	[5447, 841]	6139	[5056, 6652]	8188	[4774, 7709]
2042	[3306, 89]	4091	[5448, 2491]	6140	[6995, 2279]	8189	[5370, 6818]
2043	[3307, 3308]	4092	[4701, 2593]	6141	[6996, 5293]	8190	[1702, 2337]
2044	[3309, 1030]	4093	[5384, 644]	6142	[6976, 513]	8191	[5019, 7034]
2045	[3310, 3311]	4094	[5449, 233]	6143	[6997, 6652]		
2046	[3312, 3313]	4095	[1722, 5330]	6144	[1967, 2594]		
2047	[3314, 3315]	4096	[5450, 2146]	6145	[6998, 4968]		
2048	[3316, 1686]	4097	[5451, 5452]	6146	[2640, 6999]		

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	0	5464	1	6830	1
1	0	1367	1	2733	1	4099	1	5465	1	6831	0
2	0	1368	1	2734	0	4100	1	5466	0	6832	0
3	0	1369	1	2735	1	4101	0	5467	0	6833	0
4	0	1370	1	2736	0	4102	1	5468	0	6834	0
5	0	1371	1	2737	1	4103	1	5469	1	6835	1
6	0	1372	0	2738	0	4104	1	5470	0	6836	0
7	0	1373	0	2739	1	4105	1	5471	1	6837	1
8	0	1374	0	2740	0	4106	0	5472	1	6838	0
9	0	1375	1	2741	1	4107	1	5473	0	6839	0
10	1	1376	1	2742	1	4108	0	5474	0	6840	0
11	0	1377	0	2743	0	4109	0	5475	1	6841	1
12	1	1378	0	2744	1	4110	0	5476	1	6842	0
13	0	1379	0	2745	0	4111	1	5477	0	6843	1
14	0	1380	0	2746	1	4112	1	5478	0	6844	1
15	0	1381	0	2747	1	4113	1	5479	1	6845	0
16	1	1382	1	2748	1	4114	1	5480	0	6846	1
17	0	1383	0	2749	1	4115	1	5481	0	6847	1

18	1	1384	1	2750	1	4116	0	5482	0	6848	1
19	0	1385	0	2751	1	4117	0	5483	1	6849	1
20	1	1386	1	2752	0	4118	1	5484	1	6850	0
21	1	1387	1	2753	1	4119	1	5485	1	6851	0
22	1	1388	1	2754	0	4120	1	5486	0	6852	0
23	0	1389	0	2755	0	4121	0	5487	1	6853	1
24	0	1390	1	2756	1	4122	0	5488	1	6854	1
25	1	1391	1	2757	1	4123	1	5489	0	6855	1
26	1	1392	1	2758	0	4124	1	5490	1	6856	1
27	0	1393	0	2759	0	4125	0	5491	1	6857	1
28	1	1394	0	2760	1	4126	0	5492	1	6858	1
29	0	1395	1	2761	1	4127	1	5493	1	6859	0
30	0	1396	0	2762	0	4128	0	5494	0	6860	1
31	0	1397	1	2763	1	4129	0	5495	1	6861	0
32	0	1398	1	2764	0	4130	1	5496	0	6862	0
33	1	1399	1	2765	1	4131	0	5497	0	6863	0
34	0	1400	0	2766	1	4132	1	5498	1	6864	0
35	0	1401	0	2767	0	4133	1	5499	0	6865	0
36	1	1402	0	2768	1	4134	1	5500	0	6866	0
37	1	1403	1	2769	1	4135	1	5501	1	6867	0
38	1	1404	0	2770	0	4136	1	5502	0	6868	1
39	0	1405	0	2771	1	4137	0	5503	0	6869	1
40	1	1406	1	2772	1	4138	1	5504	0	6870	1
41	1	1407	1	2773	0	4139	0	5505	1	6871	1
42	0	1408	0	2774	0	4140	1	5506	1	6872	0
43	1	1409	1	2775	1	4141	1	5507	1	6873	1
44	1	1410	0	2776	1	4142	1	5508	0	6874	1
45	1	1411	0	2777	0	4143	0	5509	1	6875	1
46	0	1412	0	2778	1	4144	1	5510	0	6876	1
47	0	1413	0	2779	1	4145	1	5511	0	6877	0
48	1	1414	0	2780	0	4146	0	5512	0	6878	0
49	0	1415	1	2781	1	4147	0	5513	0	6879	0
50	1	1416	1	2782	1	4148	1	5514	1	6880	1
51	1	1417	1	2783	1	4149	0	5515	1	6881	1
52	1	1418	1	2784	1	4150	0	5516	0	6882	1
53	1	1419	0	2785	0	4151	1	5517	1	6883	0
54	0	1420	0	2786	1	4152	0	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	1	1423	1	2789	0	4155	0	5521	1	6887	0
58	0	1424	1	2790	1	4156	1	5522	1	6888	0
59	0	1425	0	2791	0	4157	1	5523	1	6889	1
60	1	1426	1	2792	1	4158	1	5524	1	6890	1
61	0	1427	1	2793	0	4159	1	5525	1	6891	0

62	0	1428	1	2794	0	4160	0	5526	1	6892	1
63	0	1429	0	2795	0	4161	0	5527	0	6893	1
64	1	1430	1	2796	0	4162	1	5528	1	6894	0
65	0	1431	1	2797	1	4163	0	5529	0	6895	0
66	1	1432	0	2798	0	4164	1	5530	0	6896	1
67	1	1433	0	2799	1	4165	1	5531	0	6897	1
68	0	1434	0	2800	0	4166	0	5532	1	6898	0
69	0	1435	1	2801	0	4167	0	5533	1	6899	1
70	1	1436	1	2802	1	4168	0	5534	1	6900	0
71	0	1437	1	2803	1	4169	1	5535	0	6901	1
72	1	1438	0	2804	1	4170	0	5536	0	6902	0
73	1	1439	0	2805	1	4171	1	5537	1	6903	0
74	0	1440	0	2806	0	4172	0	5538	1	6904	1
75	1	1441	0	2807	1	4173	1	5539	1	6905	1
76	1	1442	0	2808	0	4174	1	5540	1	6906	0
77	1	1443	1	2809	1	4175	1	5541	1	6907	0
78	0	1444	0	2810	1	4176	1	5542	1	6908	1
79	0	1445	0	2811	0	4177	0	5543	1	6909	0
80	0	1446	0	2812	0	4178	0	5544	1	6910	0
81	1	1447	0	2813	0	4179	1	5545	1	6911	1
82	1	1448	0	2814	1	4180	0	5546	0	6912	1
83	1	1449	0	2815	1	4181	0	5547	1	6913	1
84	1	1450	0	2816	1	4182	0	5548	0	6914	0
85	0	1451	0	2817	1	4183	0	5549	0	6915	1
86	1	1452	0	2818	0	4184	1	5550	1	6916	0
87	1	1453	0	2819	1	4185	0	5551	0	6917	0
88	0	1454	0	2820	1	4186	1	5552	0	6918	1
89	1	1455	1	2821	1	4187	0	5553	1	6919	0
90	0	1456	1	2822	1	4188	1	5554	0	6920	0
91	1	1457	1	2823	0	4189	0	5555	0	6921	1
92	0	1458	1	2824	0	4190	1	5556	1	6922	1
93	0	1459	1	2825	0	4191	1	5557	1	6923	1
94	1	1460	1	2826	0	4192	1	5558	1	6924	1
95	0	1461	1	2827	1	4193	0	5559	0	6925	1
96	0	1462	1	2828	1	4194	0	5560	0	6926	1
97	1	1463	1	2829	1	4195	1	5561	0	6927	1
98	0	1464	1	2830	0	4196	0	5562	0	6928	0
99	0	1465	0	2831	1	4197	1	5563	1	6929	1
100	1	1466	0	2832	1	4198	1	5564	1	6930	0
101	1	1467	1	2833	0	4199	1	5565	0	6931	1
102	0	1468	1	2834	0	4200	1	5566	0	6932	1
103	1	1469	0	2835	1	4201	1	5567	0	6933	1
104	1	1470	0	2836	1	4202	1	5568	1	6934	0
105	1	1471	1	2837	1	4203	0	5569	1	6935	0

106	1	1472	1	2838	0	4204	1	5570	1	6936	0
107	1	1473	0	2839	0	4205	0	5571	1	6937	1
108	0	1474	1	2840	0	4206	0	5572	0	6938	0
109	0	1475	0	2841	1	4207	1	5573	0	6939	0
110	0	1476	0	2842	0	4208	0	5574	0	6940	1
111	1	1477	1	2843	0	4209	0	5575	1	6941	1
112	0	1478	1	2844	1	4210	0	5576	1	6942	0
113	1	1479	1	2845	0	4211	0	5577	0	6943	1
114	1	1480	1	2846	1	4212	1	5578	0	6944	0
115	1	1481	0	2847	0	4213	0	5579	0	6945	1
116	0	1482	0	2848	1	4214	1	5580	1	6946	0
117	0	1483	0	2849	0	4215	1	5581	1	6947	0
118	0	1484	0	2850	0	4216	0	5582	1	6948	0
119	1	1485	1	2851	1	4217	1	5583	0	6949	0
120	1	1486	0	2852	1	4218	1	5584	0	6950	0
121	0	1487	0	2853	0	4219	1	5585	1	6951	0
122	1	1488	0	2854	1	4220	1	5586	1	6952	1
123	0	1489	0	2855	1	4221	0	5587	0	6953	1
124	0	1490	1	2856	0	4222	0	5588	1	6954	1
125	0	1491	1	2857	0	4223	0	5589	0	6955	0
126	0	1492	1	2858	1	4224	0	5590	0	6956	0
127	1	1493	1	2859	1	4225	1	5591	0	6957	1
128	1	1494	1	2860	0	4226	1	5592	1	6958	0
129	0	1495	0	2861	1	4227	1	5593	0	6959	0
130	0	1496	0	2862	1	4228	1	5594	0	6960	0
131	1	1497	0	2863	0	4229	0	5595	1	6961	1
132	1	1498	0	2864	1	4230	0	5596	0	6962	1
133	1	1499	0	2865	1	4231	0	5597	1	6963	1
134	0	1500	0	2866	1	4232	1	5598	1	6964	0
135	1	1501	0	2867	1	4233	1	5599	0	6965	0
136	0	1502	1	2868	1	4234	0	5600	1	6966	1
137	0	1503	0	2869	0	4235	1	5601	1	6967	0
138	1	1504	1	2870	0	4236	1	5602	0	6968	0
139	1	1505	0	2871	1	4237	0	5603	0	6969	1
140	0	1506	0	2872	1	4238	0	5604	0	6970	1
141	1	1507	0	2873	0	4239	1	5605	0	6971	0
142	1	1508	0	2874	0	4240	1	5606	1	6972	1
143	0	1509	0	2875	1	4241	1	5607	0	6973	1
144	1	1510	0	2876	0	4242	0	5608	1	6974	0
145	1	1511	1	2877	1	4243	0	5609	1	6975	1
146	0	1512	1	2878	1	4244	1	5610	0	6976	1
147	1	1513	1	2879	0	4245	1	5611	1	6977	1
148	1	1514	1	2880	0	4246	1	5612	1	6978	0
149	0	1515	1	2881	1	4247	0	5613	0	6979	0

150	1	1516	0	2882	1	4248	0	5614	0	6980	1
151	0	1517	1	2883	1	4249	0	5615	1	6981	0
152	1	1518	1	2884	1	4250	1	5616	0	6982	1
153	1	1519	0	2885	0	4251	1	5617	0	6983	0
154	0	1520	0	2886	0	4252	0	5618	1	6984	1
155	0	1521	0	2887	1	4253	1	5619	1	6985	1
156	0	1522	0	2888	0	4254	0	5620	0	6986	1
157	1	1523	0	2889	0	4255	1	5621	0	6987	1
158	0	1524	0	2890	0	4256	1	5622	0	6988	0
159	1	1525	0	2891	0	4257	1	5623	0	6989	0
160	1	1526	0	2892	1	4258	0	5624	1	6990	0
161	1	1527	0	2893	0	4259	1	5625	1	6991	0
162	1	1528	1	2894	1	4260	0	5626	1	6992	0
163	0	1529	1	2895	0	4261	1	5627	1	6993	0
164	1	1530	0	2896	0	4262	1	5628	1	6994	1
165	1	1531	1	2897	1	4263	0	5629	1	6995	1
166	1	1532	1	2898	1	4264	1	5630	0	6996	0
167	1	1533	1	2899	1	4265	1	5631	0	6997	0
168	0	1534	0	2900	0	4266	1	5632	0	6998	1
169	0	1535	1	2901	0	4267	1	5633	1	6999	1
170	1	1536	1	2902	0	4268	0	5634	1	7000	0
171	0	1537	1	2903	1	4269	0	5635	1	7001	0
172	1	1538	0	2904	1	4270	0	5636	1	7002	1
173	1	1539	1	2905	0	4271	1	5637	0	7003	0
174	0	1540	0	2906	0	4272	1	5638	0	7004	0
175	0	1541	1	2907	1	4273	0	5639	1	7005	0
176	1	1542	0	2908	1	4274	1	5640	1	7006	0
177	1	1543	0	2909	0	4275	1	5641	0	7007	1
178	0	1544	1	2910	0	4276	0	5642	1	7008	1
179	1	1545	1	2911	1	4277	0	5643	0	7009	0
180	1	1546	0	2912	0	4278	1	5644	1	7010	0
181	0	1547	0	2913	0	4279	0	5645	1	7011	1
182	0	1548	1	2914	1	4280	1	5646	0	7012	0
183	1	1549	0	2915	1	4281	1	5647	0	7013	1
184	0	1550	1	2916	1	4282	0	5648	0	7014	0
185	0	1551	0	2917	1	4283	0	5649	0	7015	0
186	1	1552	1	2918	0	4284	1	5650	1	7016	0
187	1	1553	1	2919	1	4285	0	5651	0	7017	0
188	0	1554	0	2920	0	4286	1	5652	0	7018	1
189	0	1555	0	2921	1	4287	1	5653	1	7019	1
190	0	1556	0	2922	0	4288	1	5654	0	7020	0
191	1	1557	0	2923	1	4289	1	5655	0	7021	1
192	1	1558	1	2924	0	4290	1	5656	1	7022	0
193	0	1559	0	2925	0	4291	0	5657	0	7023	1

194	0	1560	0	2926	0	4292	1	5658	1	7024	0
195	0	1561	1	2927	1	4293	0	5659	1	7025	0
196	0	1562	0	2928	1	4294	1	5660	1	7026	1
197	0	1563	1	2929	1	4295	0	5661	1	7027	1
198	1	1564	1	2930	0	4296	0	5662	1	7028	1
199	1	1565	0	2931	1	4297	1	5663	0	7029	1
200	1	1566	1	2932	0	4298	0	5664	1	7030	1
201	1	1567	0	2933	1	4299	1	5665	0	7031	1
202	0	1568	1	2934	1	4300	1	5666	0	7032	0
203	0	1569	0	2935	0	4301	0	5667	1	7033	1
204	1	1570	1	2936	1	4302	0	5668	0	7034	0
205	0	1571	1	2937	0	4303	1	5669	1	7035	1
206	1	1572	1	2938	1	4304	1	5670	0	7036	0
207	0	1573	1	2939	0	4305	1	5671	1	7037	1
208	1	1574	1	2940	0	4306	0	5672	1	7038	0
209	1	1575	1	2941	0	4307	1	5673	0	7039	0
210	1	1576	0	2942	1	4308	0	5674	0	7040	1
211	1	1577	1	2943	0	4309	0	5675	0	7041	0
212	0	1578	1	2944	0	4310	0	5676	0	7042	1
213	0	1579	1	2945	0	4311	0	5677	1	7043	1
214	1	1580	1	2946	1	4312	0	5678	0	7044	0
215	0	1581	1	2947	1	4313	0	5679	1	7045	1
216	0	1582	0	2948	0	4314	1	5680	1	7046	0
217	0	1583	1	2949	0	4315	1	5681	1	7047	1
218	0	1584	1	2950	0	4316	1	5682	0	7048	1
219	1	1585	1	2951	0	4317	0	5683	0	7049	1
220	1	1586	0	2952	0	4318	1	5684	0	7050	0
221	0	1587	0	2953	1	4319	0	5685	0	7051	1
222	1	1588	1	2954	1	4320	0	5686	1	7052	0
223	1	1589	1	2955	1	4321	1	5687	1	7053	0
224	0	1590	1	2956	0	4322	0	5688	1	7054	1
225	1	1591	1	2957	0	4323	0	5689	1	7055	1
226	1	1592	0	2958	0	4324	1	5690	0	7056	0
227	1	1593	0	2959	1	4325	1	5691	1	7057	1
228	0	1594	0	2960	1	4326	1	5692	0	7058	0
229	0	1595	1	2961	0	4327	1	5693	0	7059	0
230	1	1596	0	2962	1	4328	0	5694	0	7060	1
231	0	1597	1	2963	0	4329	1	5695	0	7061	1
232	1	1598	0	2964	0	4330	1	5696	1	7062	0
233	1	1599	0	2965	0	4331	1	5697	0	7063	0
234	1	1600	1	2966	0	4332	0	5698	0	7064	0
235	0	1601	1	2967	0	4333	0	5699	0	7065	0
236	1	1602	1	2968	1	4334	1	5700	0	7066	0
237	1	1603	0	2969	1	4335	0	5701	0	7067	1

238	0	1604	1	2970	1	4336	0	5702	0	7068	0
239	1	1605	1	2971	0	4337	1	5703	1	7069	0
240	1	1606	1	2972	1	4338	0	5704	1	7070	1
241	1	1607	1	2973	0	4339	1	5705	1	7071	1
242	0	1608	0	2974	1	4340	0	5706	0	7072	1
243	1	1609	0	2975	0	4341	1	5707	1	7073	0
244	0	1610	0	2976	1	4342	0	5708	1	7074	1
245	1	1611	0	2977	1	4343	0	5709	0	7075	1
246	0	1612	1	2978	0	4344	1	5710	1	7076	0
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250	1	1616	1	2982	0	4348	0	5714	0	7080	1
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252	1	1618	0	2984	0	4350	0	5716	0	7082	0
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259	0	1625	1	2991	0	4357	0	5723	1	7089	1
260	1	1626	0	2992	1	4358	0	5724	0	7090	0
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265	1	1631	1	2997	0	4363	1	5729	1	7095	1
266	1	1632	1	2998	0	4364	0	5730	1	7096	1
267	0	1633	0	2999	1	4365	0	5731	0	7097	0
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269	1	1635	1	3001	0	4367	0	5733	0	7099	1
270	0	1636	0	3002	1	4368	1	5734	0	7100	0
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273	0	1639	0	3005	1	4371	1	5737	0	7103	1
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275	0	1641	1	3007	1	4373	0	5739	0	7105	0
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279	1	1645	1	3011	1	4377	0	5743	0	7109	1
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283	1	1649	1	3015	0	4381	0	5747	0	7113	0
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285	0	1651	0	3017	0	4383	0	5749	1	7115	0
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296	1	1662	1	3028	0	4394	0	5760	0	7126	1
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328	1	1694	1	3060	0	4426	1	5792	1	7158	1
329	1	1695	1	3061	1	4427	1	5793	0	7159	0
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332	0	1698	1	3064	0	4430	1	5796	1	7162	0
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335	1	1701	1	3067	1	4433	0	5799	1	7165	0
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341	1	1707	1	3073	0	4439	1	5805	0	7171	1
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417	1	1783	0	3149	1	4515	1	5881	0	7247	1
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419	0	1785	0	3151	1	4517	0	5883	1	7249	0
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424	0	1790	0	3156	0	4522	0	5888	1	7254	1
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428	0	1794	0	3160	0	4526	1	5892	1	7258	1
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431	1	1797	1	3163	1	4529	0	5895	1	7261	0
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516	1	1882	0	3248	0	4614	1	5980	1	7346	0
517	0	1883	1	3249	0	4615	1	5981	1	7347	1
518	0	1884	1	3250	0	4616	1	5982	1	7348	1
519	1	1885	1	3251	1	4617	0	5983	1	7349	1
520	0	1886	1	3252	1	4618	0	5984	1	7350	1
521	1	1887	0	3253	0	4619	0	5985	0	7351	1
522	0	1888	0	3254	1	4620	0	5986	1	7352	0
523	0	1889	1	3255	1	4621	1	5987	1	7353	1
524	0	1890	1	3256	0	4622	0	5988	1	7354	0
525	0	1891	0	3257	1	4623	0	5989	1	7355	0
526	1	1892	1	3258	0	4624	0	5990	0	7356	0
527	1	1893	1	3259	1	4625	1	5991	0	7357	0
528	0	1894	0	3260	0	4626	0	5992	0	7358	1
529	0	1895	0	3261	0	4627	1	5993	1	7359	1
530	0	1896	0	3262	1	4628	1	5994	1	7360	1
531	1	1897	1	3263	1	4629	0	5995	0	7361	1
532	1	1898	1	3264	0	4630	1	5996	1	7362	0
533	0	1899	0	3265	1	4631	1	5997	0	7363	0
534	0	1900	0	3266	0	4632	0	5998	1	7364	0
535	0	1901	1	3267	1	4633	0	5999	0	7365	0
536	1	1902	0	3268	1	4634	0	6000	0	7366	0
537	0	1903	0	3269	0	4635	1	6001	1	7367	1
538	0	1904	1	3270	0	4636	0	6002	1	7368	0
539	0	1905	1	3271	0	4637	1	6003	1	7369	1
540	0	1906	1	3272	0	4638	0	6004	0	7370	0
541	0	1907	1	3273	0	4639	1	6005	1	7371	1
542	1	1908	0	3274	0	4640	1	6006	0	7372	1
543	1	1909	0	3275	1	4641	1	6007	0	7373	1
544	1	1910	0	3276	1	4642	0	6008	0	7374	0
545	1	1911	1	3277	0	4643	1	6009	1	7375	0

546	1	1912	0	3278	0	4644	1	6010	1	7376	0
547	1	1913	0	3279	1	4645	0	6011	1	7377	0
548	0	1914	1	3280	1	4646	1	6012	1	7378	0
549	0	1915	1	3281	1	4647	0	6013	1	7379	1
550	0	1916	0	3282	0	4648	1	6014	0	7380	0
551	1	1917	1	3283	1	4649	0	6015	0	7381	1
552	0	1918	1	3284	1	4650	0	6016	0	7382	1
553	1	1919	1	3285	1	4651	1	6017	0	7383	0
554	0	1920	1	3286	0	4652	1	6018	1	7384	0
555	0	1921	1	3287	0	4653	0	6019	0	7385	0
556	1	1922	0	3288	0	4654	0	6020	0	7386	0
557	1	1923	1	3289	1	4655	1	6021	1	7387	1
558	1	1924	0	3290	1	4656	1	6022	0	7388	1
559	0	1925	1	3291	0	4657	0	6023	1	7389	0
560	0	1926	0	3292	1	4658	1	6024	1	7390	1
561	0	1927	0	3293	0	4659	0	6025	1	7391	1
562	0	1928	0	3294	0	4660	1	6026	1	7392	1
563	0	1929	0	3295	0	4661	0	6027	1	7393	1
564	1	1930	0	3296	0	4662	0	6028	0	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	1	3299	0	4665	1	6031	1	7397	1
568	0	1934	0	3300	0	4666	1	6032	1	7398	1
569	1	1935	1	3301	1	4667	1	6033	0	7399	0
570	0	1936	0	3302	0	4668	1	6034	1	7400	0
571	0	1937	1	3303	1	4669	0	6035	0	7401	1
572	0	1938	0	3304	1	4670	0	6036	1	7402	0
573	0	1939	1	3305	0	4671	0	6037	0	7403	1
574	1	1940	1	3306	0	4672	1	6038	1	7404	0
575	1	1941	0	3307	0	4673	0	6039	1	7405	1
576	1	1942	1	3308	1	4674	1	6040	1	7406	0
577	0	1943	1	3309	0	4675	1	6041	1	7407	0
578	0	1944	1	3310	0	4676	0	6042	0	7408	0
579	1	1945	1	3311	1	4677	1	6043	0	7409	0
580	0	1946	0	3312	1	4678	1	6044	1	7410	1
581	0	1947	0	3313	1	4679	1	6045	0	7411	1
582	1	1948	0	3314	0	4680	0	6046	0	7412	0
583	1	1949	1	3315	1	4681	0	6047	0	7413	1
584	1	1950	0	3316	0	4682	0	6048	0	7414	0
585	0	1951	0	3317	1	4683	0	6049	1	7415	0
586	0	1952	1	3318	1	4684	0	6050	1	7416	1
587	1	1953	1	3319	1	4685	0	6051	0	7417	1
588	1	1954	1	3320	0	4686	1	6052	1	7418	0
589	0	1955	0	3321	0	4687	1	6053	0	7419	0

590	1	1956	1	3322	0	4688	1	6054	1	7420	0
591	0	1957	1	3323	0	4689	1	6055	0	7421	0
592	1	1958	0	3324	0	4690	1	6056	1	7422	1
593	0	1959	1	3325	1	4691	1	6057	0	7423	0
594	1	1960	0	3326	0	4692	1	6058	0	7424	1
595	0	1961	1	3327	0	4693	0	6059	0	7425	0
596	0	1962	0	3328	1	4694	0	6060	0	7426	1
597	1	1963	1	3329	1	4695	1	6061	1	7427	0
598	0	1964	0	3330	0	4696	0	6062	1	7428	0
599	0	1965	1	3331	1	4697	0	6063	1	7429	0
600	0	1966	0	3332	0	4698	0	6064	0	7430	1
601	0	1967	1	3333	0	4699	0	6065	0	7431	0
602	0	1968	0	3334	1	4700	0	6066	0	7432	1
603	1	1969	0	3335	1	4701	0	6067	1	7433	1
604	1	1970	1	3336	0	4702	1	6068	1	7434	0
605	1	1971	0	3337	1	4703	1	6069	1	7435	0
606	1	1972	0	3338	0	4704	0	6070	0	7436	1
607	0	1973	0	3339	1	4705	1	6071	0	7437	1
608	1	1974	1	3340	0	4706	1	6072	0	7438	0
609	1	1975	1	3341	0	4707	1	6073	1	7439	0
610	0	1976	1	3342	1	4708	0	6074	1	7440	1
611	1	1977	1	3343	1	4709	1	6075	1	7441	1
612	1	1978	1	3344	1	4710	0	6076	0	7442	1
613	0	1979	1	3345	0	4711	0	6077	1	7443	1
614	1	1980	1	3346	0	4712	1	6078	1	7444	0
615	1	1981	1	3347	1	4713	1	6079	1	7445	0
616	1	1982	1	3348	0	4714	1	6080	0	7446	0
617	1	1983	1	3349	0	4715	1	6081	1	7447	0
618	0	1984	0	3350	1	4716	1	6082	0	7448	0
619	1	1985	0	3351	1	4717	1	6083	0	7449	1
620	0	1986	0	3352	0	4718	1	6084	1	7450	0
621	1	1987	1	3353	1	4719	1	6085	1	7451	0
622	0	1988	0	3354	1	4720	0	6086	1	7452	1
623	1	1989	1	3355	1	4721	0	6087	0	7453	0
624	0	1990	1	3356	0	4722	0	6088	0	7454	1
625	0	1991	1	3357	0	4723	0	6089	1	7455	0
626	0	1992	0	3358	0	4724	0	6090	1	7456	1
627	0	1993	0	3359	0	4725	0	6091	0	7457	1
628	1	1994	0	3360	1	4726	0	6092	0	7458	1
629	1	1995	0	3361	0	4727	1	6093	1	7459	0
630	1	1996	0	3362	0	4728	0	6094	1	7460	1
631	1	1997	0	3363	0	4729	1	6095	1	7461	1
632	1	1998	1	3364	0	4730	1	6096	1	7462	1
633	0	1999	1	3365	1	4731	0	6097	0	7463	1

634	1	2000	1	3366	1	4732	0	6098	1	7464	1
635	1	2001	1	3367	0	4733	0	6099	1	7465	0
636	0	2002	0	3368	0	4734	1	6100	1	7466	1
637	1	2003	0	3369	0	4735	0	6101	0	7467	0
638	1	2004	1	3370	1	4736	1	6102	1	7468	0
639	0	2005	1	3371	0	4737	0	6103	0	7469	0
640	1	2006	1	3372	1	4738	0	6104	1	7470	0
641	0	2007	0	3373	0	4739	1	6105	0	7471	1
642	1	2008	1	3374	0	4740	1	6106	1	7472	1
643	1	2009	1	3375	1	4741	1	6107	0	7473	1
644	1	2010	0	3376	1	4742	0	6108	1	7474	0
645	1	2011	1	3377	1	4743	1	6109	0	7475	1
646	0	2012	0	3378	1	4744	1	6110	1	7476	1
647	1	2013	0	3379	1	4745	0	6111	1	7477	0
648	1	2014	0	3380	1	4746	1	6112	1	7478	1
649	1	2015	1	3381	0	4747	0	6113	1	7479	1
650	0	2016	1	3382	1	4748	0	6114	1	7480	1
651	1	2017	0	3383	0	4749	0	6115	0	7481	0
652	1	2018	1	3384	0	4750	1	6116	1	7482	0
653	0	2019	1	3385	1	4751	1	6117	0	7483	0
654	1	2020	0	3386	1	4752	1	6118	1	7484	0
655	1	2021	1	3387	0	4753	0	6119	0	7485	1
656	0	2022	1	3388	1	4754	0	6120	1	7486	0
657	0	2023	0	3389	1	4755	1	6121	1	7487	1
658	0	2024	1	3390	1	4756	0	6122	1	7488	1
659	0	2025	1	3391	1	4757	1	6123	0	7489	0
660	0	2026	1	3392	1	4758	0	6124	0	7490	1
661	1	2027	0	3393	1	4759	1	6125	0	7491	0
662	1	2028	0	3394	0	4760	0	6126	1	7492	1
663	1	2029	1	3395	1	4761	1	6127	0	7493	0
664	1	2030	1	3396	1	4762	1	6128	1	7494	1
665	0	2031	1	3397	1	4763	0	6129	0	7495	1
666	1	2032	1	3398	1	4764	1	6130	0	7496	1
667	1	2033	1	3399	1	4765	0	6131	0	7497	0
668	0	2034	0	3400	1	4766	1	6132	0	7498	1
669	0	2035	0	3401	0	4767	1	6133	1	7499	1
670	1	2036	1	3402	0	4768	1	6134	0	7500	1
671	0	2037	0	3403	1	4769	1	6135	0	7501	0
672	0	2038	0	3404	1	4770	0	6136	1	7502	1
673	0	2039	1	3405	1	4771	0	6137	0	7503	0
674	1	2040	1	3406	0	4772	0	6138	1	7504	1
675	1	2041	1	3407	1	4773	0	6139	1	7505	1
676	0	2042	0	3408	0	4774	1	6140	1	7506	1
677	1	2043	0	3409	1	4775	0	6141	0	7507	1

678	0	2044	0	3410	0	4776	1	6142	1	7508	0
679	0	2045	0	3411	1	4777	0	6143	0	7509	1
680	0	2046	1	3412	1	4778	1	6144	1	7510	1
681	1	2047	0	3413	0	4779	0	6145	1	7511	0
682	0	2048	0	3414	1	4780	1	6146	0	7512	1
683	1	2049	0	3415	0	4781	0	6147	0	7513	0
684	0	2050	1	3416	1	4782	1	6148	0	7514	1
685	1	2051	1	3417	1	4783	1	6149	1	7515	1
686	0	2052	0	3418	0	4784	1	6150	1	7516	1
687	1	2053	0	3419	1	4785	1	6151	0	7517	0
688	1	2054	0	3420	1	4786	1	6152	1	7518	0
689	1	2055	1	3421	1	4787	1	6153	0	7519	0
690	1	2056	0	3422	1	4788	0	6154	0	7520	0
691	1	2057	0	3423	0	4789	0	6155	0	7521	1
692	1	2058	1	3424	1	4790	1	6156	1	7522	1
693	1	2059	0	3425	1	4791	0	6157	0	7523	1
694	0	2060	1	3426	0	4792	0	6158	1	7524	1
695	0	2061	0	3427	1	4793	0	6159	0	7525	0
696	0	2062	0	3428	1	4794	1	6160	1	7526	0
697	1	2063	1	3429	1	4795	0	6161	0	7527	0
698	0	2064	0	3430	0	4796	0	6162	1	7528	1
699	0	2065	0	3431	0	4797	1	6163	0	7529	0
700	1	2066	1	3432	0	4798	1	6164	1	7530	0
701	0	2067	0	3433	1	4799	0	6165	0	7531	1
702	1	2068	1	3434	1	4800	1	6166	0	7532	1
703	0	2069	1	3435	1	4801	1	6167	1	7533	1
704	0	2070	1	3436	1	4802	1	6168	0	7534	0
705	0	2071	1	3437	0	4803	0	6169	0	7535	0
706	0	2072	0	3438	1	4804	1	6170	0	7536	1
707	0	2073	0	3439	1	4805	0	6171	0	7537	0
708	1	2074	0	3440	0	4806	0	6172	0	7538	1
709	0	2075	1	3441	0	4807	0	6173	1	7539	1
710	0	2076	1	3442	1	4808	0	6174	1	7540	0
711	1	2077	0	3443	0	4809	1	6175	0	7541	0
712	0	2078	0	3444	0	4810	1	6176	1	7542	0
713	1	2079	1	3445	1	4811	1	6177	0	7543	0
714	1	2080	1	3446	1	4812	1	6178	1	7544	1
715	0	2081	0	3447	0	4813	0	6179	1	7545	1
716	1	2082	0	3448	1	4814	0	6180	0	7546	0
717	1	2083	0	3449	0	4815	0	6181	1	7547	1
718	0	2084	0	3450	0	4816	1	6182	0	7548	0
719	1	2085	1	3451	1	4817	1	6183	1	7549	0
720	0	2086	1	3452	1	4818	1	6184	1	7550	1
721	0	2087	0	3453	1	4819	0	6185	0	7551	0

722	0	2088	1	3454	0	4820	0	6186	1	7552	1
723	0	2089	0	3455	1	4821	1	6187	1	7553	0
724	0	2090	1	3456	0	4822	1	6188	0	7554	1
725	0	2091	0	3457	0	4823	1	6189	1	7555	0
726	0	2092	0	3458	0	4824	1	6190	1	7556	0
727	0	2093	1	3459	0	4825	0	6191	0	7557	1
728	0	2094	1	3460	0	4826	1	6192	1	7558	0
729	0	2095	0	3461	1	4827	1	6193	0	7559	1
730	0	2096	0	3462	0	4828	0	6194	1	7560	1
731	1	2097	1	3463	1	4829	0	6195	0	7561	1
732	1	2098	1	3464	1	4830	1	6196	1	7562	1
733	1	2099	1	3465	0	4831	1	6197	0	7563	1
734	1	2100	1	3466	1	4832	0	6198	0	7564	0
735	0	2101	0	3467	0	4833	1	6199	0	7565	1
736	0	2102	1	3468	1	4834	1	6200	1	7566	0
737	1	2103	0	3469	1	4835	1	6201	1	7567	0
738	0	2104	1	3470	1	4836	1	6202	0	7568	0
739	0	2105	1	3471	1	4837	1	6203	0	7569	1
740	0	2106	1	3472	0	4838	0	6204	1	7570	0
741	0	2107	1	3473	1	4839	0	6205	0	7571	1
742	0	2108	1	3474	0	4840	1	6206	1	7572	1
743	1	2109	0	3475	0	4841	1	6207	1	7573	1
744	1	2110	0	3476	0	4842	1	6208	1	7574	1
745	1	2111	1	3477	1	4843	0	6209	1	7575	0
746	0	2112	1	3478	1	4844	0	6210	0	7576	1
747	1	2113	0	3479	1	4845	1	6211	0	7577	1
748	1	2114	1	3480	0	4846	1	6212	1	7578	0
749	0	2115	1	3481	1	4847	1	6213	1	7579	1
750	1	2116	0	3482	1	4848	1	6214	1	7580	0
751	1	2117	0	3483	0	4849	1	6215	0	7581	1
752	1	2118	0	3484	0	4850	0	6216	1	7582	0
753	0	2119	1	3485	0	4851	0	6217	0	7583	0
754	1	2120	0	3486	0	4852	1	6218	1	7584	1
755	0	2121	0	3487	1	4853	1	6219	0	7585	0
756	1	2122	0	3488	0	4854	1	6220	0	7586	1
757	1	2123	1	3489	0	4855	0	6221	1	7587	0
758	0	2124	1	3490	1	4856	1	6222	1	7588	1
759	0	2125	0	3491	0	4857	0	6223	0	7589	1
760	1	2126	1	3492	0	4858	1	6224	0	7590	0
761	1	2127	0	3493	1	4859	1	6225	0	7591	0
762	1	2128	0	3494	1	4860	0	6226	1	7592	0
763	0	2129	0	3495	1	4861	1	6227	0	7593	0
764	0	2130	0	3496	0	4862	0	6228	1	7594	1
765	1	2131	1	3497	1	4863	1	6229	1	7595	1

766	1	2132	1	3498	1	4864	1	6230	0	7596	1
767	1	2133	1	3499	0	4865	0	6231	0	7597	1
768	0	2134	1	3500	1	4866	1	6232	0	7598	0
769	1	2135	0	3501	0	4867	1	6233	0	7599	1
770	0	2136	1	3502	0	4868	0	6234	0	7600	1
771	0	2137	1	3503	0	4869	0	6235	1	7601	1
772	1	2138	0	3504	0	4870	1	6236	0	7602	0
773	0	2139	0	3505	1	4871	0	6237	1	7603	1
774	0	2140	1	3506	1	4872	0	6238	0	7604	1
775	0	2141	1	3507	0	4873	1	6239	0	7605	0
776	0	2142	1	3508	0	4874	1	6240	0	7606	0
777	0	2143	1	3509	0	4875	0	6241	1	7607	1
778	0	2144	0	3510	1	4876	1	6242	1	7608	0
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780	0	2146	0	3512	1	4878	0	6244	1	7610	0
781	0	2147	1	3513	1	4879	1	6245	0	7611	0
782	0	2148	0	3514	1	4880	0	6246	1	7612	1
783	0	2149	0	3515	1	4881	1	6247	1	7613	1
784	1	2150	0	3516	0	4882	1	6248	1	7614	1
785	1	2151	1	3517	0	4883	0	6249	0	7615	0
786	1	2152	0	3518	1	4884	0	6250	1	7616	0
787	1	2153	0	3519	1	4885	1	6251	1	7617	1
788	1	2154	0	3520	0	4886	1	6252	0	7618	1
789	1	2155	0	3521	1	4887	1	6253	0	7619	1
790	0	2156	1	3522	1	4888	1	6254	1	7620	1
791	0	2157	1	3523	1	4889	0	6255	1	7621	0
792	1	2158	0	3524	0	4890	0	6256	1	7622	0
793	0	2159	1	3525	0	4891	1	6257	0	7623	0
794	1	2160	0	3526	1	4892	1	6258	0	7624	1
795	1	2161	0	3527	0	4893	1	6259	0	7625	0
796	0	2162	0	3528	0	4894	0	6260	1	7626	1
797	1	2163	0	3529	1	4895	0	6261	1	7627	0
798	1	2164	1	3530	0	4896	1	6262	0	7628	1
799	0	2165	1	3531	0	4897	1	6263	1	7629	1
800	0	2166	1	3532	0	4898	0	6264	1	7630	0
801	1	2167	1	3533	1	4899	0	6265	0	7631	0
802	0	2168	0	3534	1	4900	0	6266	1	7632	1
803	0	2169	1	3535	0	4901	1	6267	1	7633	0
804	1	2170	1	3536	0	4902	0	6268	1	7634	0
805	1	2171	1	3537	1	4903	0	6269	1	7635	0
806	1	2172	1	3538	0	4904	1	6270	0	7636	0
807	0	2173	0	3539	0	4905	1	6271	0	7637	1
808	0	2174	0	3540	1	4906	1	6272	1	7638	0
809	0	2175	0	3541	1	4907	0	6273	0	7639	0

810	0	2176	1	3542	0	4908	1	6274	0	7640	0
811	1	2177	1	3543	1	4909	0	6275	1	7641	1
812	1	2178	1	3544	1	4910	1	6276	0	7642	1
813	0	2179	1	3545	1	4911	1	6277	0	7643	0
814	0	2180	0	3546	0	4912	0	6278	0	7644	0
815	0	2181	0	3547	1	4913	1	6279	0	7645	1
816	1	2182	1	3548	0	4914	0	6280	1	7646	1
817	0	2183	1	3549	0	4915	0	6281	0	7647	0
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819	0	2185	1	3551	1	4917	1	6283	1	7649	0
820	1	2186	0	3552	1	4918	1	6284	1	7650	0
821	0	2187	1	3553	0	4919	1	6285	1	7651	0
822	0	2188	1	3554	0	4920	1	6286	0	7652	1
823	0	2189	0	3555	1	4921	1	6287	0	7653	0
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827	1	2193	0	3559	1	4925	1	6291	0	7657	1
828	0	2194	0	3560	0	4926	0	6292	0	7658	1
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837	0	2203	0	3569	0	4935	1	6301	0	7667	0
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839	1	2205	1	3571	1	4937	0	6303	1	7669	0
840	1	2206	0	3572	0	4938	1	6304	1	7670	0
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842	0	2208	1	3574	0	4940	1	6306	0	7672	1
843	0	2209	0	3575	0	4941	0	6307	0	7673	0
844	0	2210	1	3576	0	4942	0	6308	1	7674	0
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846	0	2212	1	3578	1	4944	0	6310	1	7676	1
847	1	2213	0	3579	1	4945	0	6311	0	7677	1
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851	1	2217	0	3583	0	4949	1	6315	0	7681	0
852	1	2218	1	3584	0	4950	0	6316	0	7682	0
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854	1	2220	0	3586	1	4952	1	6318	1	7684	0
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856	1	2222	0	3588	0	4954	0	6320	0	7686	0
857	1	2223	0	3589	1	4955	1	6321	0	7687	0
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862	0	2228	1	3594	1	4960	0	6326	1	7692	1
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865	0	2231	0	3597	1	4963	0	6329	0	7695	0
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867	0	2233	0	3599	0	4965	1	6331	0	7697	1
868	0	2234	1	3600	1	4966	1	6332	1	7698	1
869	0	2235	0	3601	0	4967	0	6333	0	7699	0
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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	1	4971	0	6337	1	7703	1
874	1	2240	1	3606	0	4972	0	6338	1	7704	0
875	1	2241	0	3607	1	4973	1	6339	1	7705	1
876	0	2242	1	3608	1	4974	0	6340	0	7706	1
877	0	2243	0	3609	1	4975	0	6341	0	7707	0
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880	1	2246	0	3612	1	4978	0	6344	1	7710	1
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884	1	2250	0	3616	0	4982	1	6348	0	7714	1
885	1	2251	0	3617	0	4983	0	6349	0	7715	0
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887	0	2253	0	3619	1	4985	0	6351	0	7717	0
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889	0	2255	0	3621	0	4987	1	6353	0	7719	0
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891	1	2257	0	3623	1	4989	1	6355	0	7721	0
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893	1	2259	0	3625	1	4991	0	6357	0	7723	0
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896	1	2262	1	3628	1	4994	1	6360	1	7726	1
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918	1	2284	1	3650	1	5016	1	6382	0	7748	0
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921	1	2287	1	3653	1	5019	0	6385	0	7751	1
922	1	2288	1	3654	0	5020	0	6386	1	7752	0
923	1	2289	1	3655	1	5021	0	6387	1	7753	0
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928	0	2294	0	3660	0	5026	1	6392	1	7758	1
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941	1	2307	0	3673	1	5039	0	6405	1	7771	1

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968	1	2334	0	3700	0	5066	1	6432	0	7798	1
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972	1	2338	0	3704	0	5070	0	6436	0	7802	1
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1052	0	2418	1	3784	0	5150	1	6516	0	7882	1
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1316	1	2682	1	4048	1	5414	1	6780	0	8146	0
1317	1	2683	0	4049	0	5415	0	6781	0	8147	0
1318	0	2684	1	4050	1	5416	1	6782	0	8148	0
1319	1	2685	1	4051	1	5417	1	6783	1	8149	1
1320	0	2686	1	4052	1	5418	1	6784	1	8150	0
1321	0	2687	1	4053	0	5419	0	6785	0	8151	0
1322	0	2688	0	4054	1	5420	1	6786	0	8152	0
1323	1	2689	1	4055	1	5421	1	6787	1	8153	0
1324	0	2690	0	4056	0	5422	0	6788	0	8154	0
1325	0	2691	0	4057	1	5423	1	6789	0	8155	0
1326	1	2692	1	4058	0	5424	0	6790	1	8156	0
1327	0	2693	1	4059	1	5425	1	6791	1	8157	0
1328	1	2694	0	4060	1	5426	1	6792	1	8158	0
1329	1	2695	0	4061	1	5427	0	6793	0	8159	1
1330	1	2696	1	4062	0	5428	1	6794	0	8160	0
1331	0	2697	0	4063	1	5429	0	6795	0	8161	1
1332	0	2698	0	4064	1	5430	1	6796	0	8162	1
1333	0	2699	1	4065	0	5431	1	6797	0	8163	1
1334	1	2700	0	4066	1	5432	0	6798	1	8164	1
1335	1	2701	1	4067	1	5433	1	6799	0	8165	0
1336	1	2702	1	4068	1	5434	0	6800	0	8166	1
1337	0	2703	1	4069	1	5435	0	6801	1	8167	0

1338	1	2704	0	4070	0	5436	1	6802	0	8168	0
1339	1	2705	1	4071	0	5437	1	6803	1	8169	0
1340	0	2706	1	4072	0	5438	1	6804	0	8170	0
1341	0	2707	1	4073	1	5439	1	6805	1	8171	0
1342	1	2708	0	4074	1	5440	1	6806	0	8172	0
1343	1	2709	0	4075	1	5441	1	6807	0	8173	1
1344	0	2710	1	4076	1	5442	0	6808	1	8174	1
1345	0	2711	1	4077	1	5443	0	6809	0	8175	1
1346	1	2712	0	4078	1	5444	1	6810	0	8176	1
1347	1	2713	1	4079	1	5445	0	6811	1	8177	0
1348	0	2714	1	4080	1	5446	0	6812	1	8178	1
1349	1	2715	1	4081	0	5447	0	6813	0	8179	0
1350	0	2716	0	4082	0	5448	0	6814	1	8180	0
1351	0	2717	0	4083	0	5449	1	6815	1	8181	0
1352	0	2718	0	4084	1	5450	1	6816	0	8182	0
1353	1	2719	0	4085	1	5451	1	6817	0	8183	1
1354	0	2720	1	4086	0	5452	1	6818	1	8184	1
1355	0	2721	0	4087	1	5453	1	6819	1	8185	0
1356	0	2722	1	4088	0	5454	0	6820	0	8186	0
1357	0	2723	1	4089	0	5455	1	6821	1	8187	0
1358	0	2724	1	4090	0	5456	1	6822	0	8188	1
1359	0	2725	1	4091	0	5457	1	6823	0	8189	1
1360	0	2726	0	4092	0	5458	1	6824	1	8190	0
1361	0	2727	0	4093	0	5459	0	6825	1	8191	0
1362	0	2728	0	4094	1	5460	0	6826	0		
1363	0	2729	1	4095	1	5461	0	6827	1		
1364	0	2730	1	4096	1	5462	1	6828	1		
1365	0	2731	0	4097	1	5463	1	6829	0		

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