

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{13} + z^{10} + z^9 + z^8 + z^7 + z^6 + z^4 + z^3 + z + 1, \\ p_1(z) &= z^{22} + z^{21} + z^{20} + z^{18} + z^{17} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^5 + z^4 + z^2 \\ &\quad + z, \\ p_2(z) &= z^{24} + z^{20} + z^{18} + z^{16} + z^8 + z^6 + z^2, \\ p_3(z) &= z^{22} + z^{21} + z^{20} + z^{18} + z^{17} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^5 + z^4 + z^2 \\ &\quad + z, \\ p_4(z) &= z^{20} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^3 + z^2 + z, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{16} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^6 + z^4 + z^3 + z, \\ p_1(z) &= z^{22} + z^{21} + z^{20} + z^{18} + z^{17} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^5 + z^4 + z^2 \\ &\quad + z, \\ p_2(z) &= z^{24} + z^{20} + z^{18} + z^{16} + z^8 + z^6 + z^2, \\ p_3(z) &= z^{22} + z^{21} + z^{20} + z^{18} + z^{17} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^5 + z^4 + z^2 \\ &\quad + z, \\ p_4(z) &= z^{20} + z^{16} + z^{13} + z^{10} + z^9 + z^8 + z^7 + z^3 + z^2 + z + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

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.*

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

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

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

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

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

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

$$(2.9) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1000w]_2],$$

$$(2.10) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1001w]_2],$$

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

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

$$(2.12) \quad 0 = T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

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

$$(2.14) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[111w]_2],$$

$$(2.15) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1000w]_2],$$

$$(2.16) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1001w]_2],$$

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

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

$$(2.18) \quad 0 = T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

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

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

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

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

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

$$(2.21) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1000)),$$

$$(2.22) \quad \begin{aligned} &0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 1001)), \end{aligned}$$

$$(2.23) \quad \begin{aligned} &0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 1010)), \end{aligned}$$

$$(2.24) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

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

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

$$(2.26) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 111)),$$

$$(2.27) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1000)),$$

$$(2.28) \quad \begin{aligned} &0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 1001)), \end{aligned}$$

$$(2.29) \quad \begin{aligned} &0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 1010)), \end{aligned}$$

$$(2.30) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

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 $u = 2^{2k-1}$,*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Define

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

where

$$\begin{aligned} q_0(x) &= x^{24} + x^{23} + x^{21} + x^{20} + x^{18} + x^{17} + x^{16} + x^{15} + x^{14} + x^{11} + x^6, \\ q_1(x) &= x^{23} + x^{22} + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{12} + x^{11} + x^7 + x^6 + x^4 \\ &\quad + x^3 + x^2, \\ q_2(x) &= x^{22} + x^{18} + x^{16} + x^8 + x^6 + x^4 + 1, \\ q_3(x) &= x^{23} + x^{22} + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{12} + x^{11} + x^7 + x^6 + x^4 \\ &\quad + x^3 + x^2, \\ q_4(x) &= x^{23} + x^{22} + x^{21} + x^{17} + x^{15} + x^{14} + x^{12} + x^{11} + x^4. \end{aligned}$$

The polynomial $Q(x, y)$ is the candidate for the minimal polynomial of $f(x)$ found by Padé-Hermite approximation. To prove that it is indeed the minimal polynomial of $f(x)$, we only need to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and $R(x, y) := P(x, y)/Q(x, y)^m$ is not an annihilating polynomial of $f(x)$. We verify the first point directly. For the second point, we find that when we truncate $f(x)$ to order 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 $\phi(M^e, 0, 0)$:

$$\begin{aligned} p_0(x) &= x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{108} + x^{106} + x^{100} + x^{92} + x^{90} \\ &\quad + x^{78} + x^{72} + x^{70} + x^{68} + x^{60} + x^{58} + x^{54} + x^{52} + x^{50} + x^{48} + x^{46} \\ &\quad + x^{40} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24}, \\ p_3(x) &= x^{116} + x^{114} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{88} + x^{86} + x^{78} \\ &\quad + x^{76} + x^{72} + x^{70} + x^{66} + x^{64} + x^{52} + x^{48} + x^{46} + x^{40} + x^{38} + x^{34} \\ &\quad + x^{32} + x^{28} + x^{22} + x^{20} + x^{18}, \\ p_6(x) &= x^{112} + x^{110} + x^{102} + x^{100} + x^{98} + x^{96} + x^{84} + x^{82} + x^{78} + x^{74} + x^{68} \\ &\quad + x^{60} + x^{58} + x^{56} + x^{52} + x^{46} + x^{44} + x^{38} + x^{32} + x^{30} + x^{26} + x^{24} \\ &\quad + x^{20} + x^{18} + x^{16} + x^{14} + x^6 + x^4 + x^2 + 1, \\ p_9(x) &= x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{88} \\ &\quad + x^{86} + x^{84} + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{68} + x^{62} + x^{60} + x^{58} \\ &\quad + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{18} + x^{14} + x^{10} + x^8 + x^4, \\ p_{12}(x) &= x^{118} + x^{114} + x^{112} + x^{110} + x^{106} + x^{104} + x^{94} + x^{90} + x^{88} + x^{86} \end{aligned}$$

$$\begin{aligned}
& + x^{82} + x^{80} + x^{70} + x^{66} + x^{64} + x^{62} + x^{58} + x^{56} + x^{46} + x^{42} + x^{40} \\
& + x^{38} + x^{34} + x^{32} + x^{22} + x^{18} + x^{16} + x^{14} + x^{10} + x^8 + x^6 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{122} + x^{120} + x^{113} + x^{112} + x^{109} + x^{104} + x^{103} + x^{101} \\
& + x^{100} + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} + x^{85} + x^{83} \\
& + x^{78} + x^{76} + x^{74} + x^{73} + x^{72} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{60} + x^{53} + x^{51} + x^{49} + x^{48} + x^{47} + x^{45} + x^{43} + x^{42} + x^{41} + x^{37} \\
& + x^{34} + x^{30},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{115} + x^{113} + x^{110} + x^{109} + x^{108} \\
& + x^{106} + x^{103} + x^{102} + x^{101} + x^{99} + x^{95} + x^{94} + x^{93} + x^{91} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{74} + x^{71} + x^{69} \\
& + x^{68} + x^{62} + x^{59} + x^{58} + x^{57} + x^{55} + x^{51} + x^{49} + x^{45} + x^{44} + x^{43} \\
& + x^{41} + x^{38} + x^{37} + x^{33} + x^{31} + x^{30} + x^{28} + x^{25} + x^{23} + x^{20} + x^{19} \\
& + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{123} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{115} + x^{114} + x^{112} + x^{110} \\
& + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{102} + x^{97} + x^{96} + x^{93} + x^{88} \\
& + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{81} + x^{78} + x^{76} + x^{75} + x^{74} + x^{70} \\
& + x^{69} + x^{68} + x^{65} + x^{60} + x^{57} + x^{56} + x^{52} + x^{51} + x^{50} + x^{46} + x^{41} \\
& + x^{40} + x^{36} + x^{33} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} \\
& + x^{22} + x^{20} + x^{19} + x^{17} + x^{16} + x^{14} + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{122} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} \\
& + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{100} + x^{92} + x^{89} + x^{88} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} + x^{72} + x^{69} + x^{67} + x^{64} + x^{63} \\
& + x^{62} + x^{58} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{43} \\
& + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} + x^{32} + x^{29} + x^{28} + x^{27} + x^{25} \\
& + x^{24} + x^{20} + x^{18} + x^{17} + x^{16} + x^{12} + x^9 + x^7 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{121} + x^{120} + x^{117} + x^{112} + x^{105} + x^{104} + x^{100} + x^{85} + x^{84} + x^{80} \\
& + x^{73} + x^{72} + x^{69} + x^{64} + x^{57} + x^{56} + x^{52} + x^{37} + x^{36} + x^{32} + x^{25} \\
& + x^{24} + x^{21} + x^{16} + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{122} + x^{120} + x^{113} + x^{112} + x^{109} + x^{104} + x^{103} + x^{101} \\
& + x^{100} + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} + x^{85} + x^{83} \\
& + x^{78} + x^{76} + x^{74} + x^{73} + x^{72} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62}
\end{aligned}$$

$$\begin{aligned}
& + x^{60} + x^{53} + x^{51} + x^{49} + x^{48} + x^{47} + x^{45} + x^{43} + x^{42} + x^{41} + x^{37} \\
& + x^{34} + x^{30}, \\
p_3(x) = & x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{115} + x^{113} + x^{110} + x^{109} + x^{108} \\
& + x^{106} + x^{103} + x^{102} + x^{101} + x^{99} + x^{95} + x^{94} + x^{93} + x^{91} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{74} + x^{71} + x^{69} \\
& + x^{68} + x^{62} + x^{59} + x^{58} + x^{57} + x^{55} + x^{51} + x^{49} + x^{45} + x^{44} + x^{43} \\
& + x^{41} + x^{38} + x^{37} + x^{33} + x^{31} + x^{30} + x^{28} + x^{25} + x^{23} + x^{20} + x^{19} \\
& + x^{18}, \\
p_6(x) = & x^{123} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{115} + x^{114} + x^{112} + x^{110} \\
& + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{102} + x^{97} + x^{96} + x^{93} + x^{88} \\
& + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{81} + x^{78} + x^{76} + x^{75} + x^{74} + x^{70} \\
& + x^{69} + x^{68} + x^{65} + x^{60} + x^{57} + x^{56} + x^{52} + x^{51} + x^{50} + x^{46} + x^{41} \\
& + x^{40} + x^{36} + x^{33} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} \\
& + x^{22} + x^{20} + x^{19} + x^{17} + x^{16} + x^{14} + x^{12}, \\
p_9(x) = & x^{122} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} \\
& + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{100} + x^{92} + x^{89} + x^{88} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} + x^{72} + x^{69} + x^{67} + x^{64} + x^{63} \\
& + x^{62} + x^{58} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{43} \\
& + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} + x^{32} + x^{29} + x^{28} + x^{27} + x^{25} \\
& + x^{24} + x^{20} + x^{18} + x^{17} + x^{16} + x^{12} + x^9 + x^7 + x^6, \\
p_{12}(x) = & x^{121} + x^{120} + x^{117} + x^{112} + x^{105} + x^{104} + x^{100} + x^{85} + x^{84} + x^{80} \\
& + x^{73} + x^{72} + x^{69} + x^{64} + x^{57} + x^{56} + x^{52} + x^{37} + x^{36} + x^{32} + x^{25} \\
& + x^{24} + x^{21} + x^{16} + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{132} + x^{128} + x^{124} + x^{114} + x^{112} + x^{110} + x^{104} + x^{98} + x^{94} + x^{90} \\
& + x^{88} + x^{86} + x^{82} + x^{76} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{58} \\
& + x^{56} + x^{54} + x^{52} + x^{50} + x^{44} + x^{40} + x^{38} + x^{36}, \\
p_3(x) = & x^{126} + x^{116} + x^{98} + x^{96} + x^{88} + x^{86} + x^{82} + x^{78} + x^{74} + x^{72} + x^{70} \\
& + x^{66} + x^{64} + x^{54} + x^{50} + x^{48} + x^{38} + x^{36} + x^{34} + x^{28} + x^{18} + x^{12}, \\
p_6(x) = & x^{126} + x^{124} + x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{102} + x^{100} + x^{98} \\
& + x^{94} + x^{92} + x^{90} + x^{88} + x^{84} + x^{82} + x^{78} + x^{70} + x^{68} + x^{66} + x^{60} \\
& + x^{58} + x^{56} + x^{50} + x^{44} + x^{42} + x^{40} + x^{36} + x^{32} + x^{30} + x^{28} + x^{22} \\
& + x^{20} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} + x^2 + 1, \\
p_9(x) = & x^{124} + x^{118} + x^{116} + x^{114} + x^{104} + x^{100} + x^{98} + x^{94} + x^{88} + x^{86}
\end{aligned}$$

$$\begin{aligned}
& + x^{84} + x^{80} + x^{78} + x^{76} + x^{68} + x^{62} + x^{54} + x^{48} + x^{42} + x^{40} + x^{38} \\
& + x^{36} + x^{32} + x^{26} + x^{20} + x^{16} + x^{14} + x^{12} + x^{10} + x^4, \\
p_{12}(x) = & x^{124} + x^{122} + x^{120} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{84} + x^{82} \\
& + x^{80} + x^{76} + x^{74} + x^{72} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} + x^{40} + x^{36} \\
& + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^{12} + x^{10} + x^8 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{132} + x^{126} + x^{124} + x^{116} + x^{112} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} \\
& + x^{92} + x^{86} + x^{82} + x^{80} + x^{78} + x^{74} + x^{72} + x^{68} + x^{64} + x^{54} + x^{52} \\
& + x^{50} + x^{48} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{28} + x^{26} + x^{24}, \\
p_3(x) = & x^{126} + x^{122} + x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{104} + x^{102} + x^{100} \\
& + x^{94} + x^{86} + x^{84} + x^{80} + x^{74} + x^{72} + x^{68} + x^{66} + x^{62} + x^{58} + x^{56} \\
& + x^{46} + x^{44} + x^{40} + x^{38} + x^{34} + x^{32} + x^{28} + x^{26} + x^{18}, \\
p_6(x) = & x^{126} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{114} + x^{106} + x^{100} + x^{98} \\
& + x^{92} + x^{90} + x^{80} + x^{76} + x^{74} + x^{70} + x^{64} + x^{54} + x^{40} + x^{32} + x^{26} \\
& + x^{24} + x^{18} + x^8 + x^2 + 1, \\
p_9(x) = & x^{124} + x^{118} + x^{116} + x^{114} + x^{104} + x^{100} + x^{98} + x^{94} + x^{88} + x^{86} \\
& + x^{84} + x^{80} + x^{78} + x^{76} + x^{68} + x^{62} + x^{54} + x^{48} + x^{42} + x^{40} + x^{38} \\
& + x^{36} + x^{32} + x^{26} + x^{20} + x^{16} + x^{14} + x^{12} + x^{10} + x^4, \\
p_{12}(x) = & x^{124} + x^{122} + x^{120} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{84} + x^{82} \\
& + x^{80} + x^{76} + x^{74} + x^{72} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} + x^{40} + x^{36} \\
& + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^{12} + x^{10} + x^8 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} \\
& + x^{113} + x^{110} + x^{108} + x^{105} + x^{104} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{95} + x^{94} + x^{92} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{82} + x^{81} + x^{74} \\
& + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{60} + x^{58} + x^{56} + x^{55} \\
& + x^{54} + x^{53} + x^{49} + x^{48} + x^{43} + x^{41} + x^{39} + x^{38} + x^{34} + x^{32} + x^{30}, \\
p_3(x) = & x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{115} + x^{113} + x^{110} + x^{109} + x^{108} \\
& + x^{106} + x^{103} + x^{102} + x^{101} + x^{99} + x^{95} + x^{94} + x^{93} + x^{91} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{74} + x^{71} + x^{69} \\
& + x^{68} + x^{62} + x^{59} + x^{58} + x^{57} + x^{55} + x^{51} + x^{49} + x^{45} + x^{44} + x^{43} \\
& + x^{41} + x^{38} + x^{37} + x^{33} + x^{31} + x^{30} + x^{28} + x^{25} + x^{23} + x^{20} + x^{19} \\
& + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{115} + x^{114} + x^{112} + x^{110} \\
&\quad + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{102} + x^{97} + x^{96} + x^{93} + x^{88} \\
&\quad + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{81} + x^{78} + x^{76} + x^{75} + x^{74} + x^{70} \\
&\quad + x^{69} + x^{68} + x^{65} + x^{60} + x^{57} + x^{56} + x^{52} + x^{51} + x^{50} + x^{46} + x^{41} \\
&\quad + x^{40} + x^{36} + x^{33} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} \\
&\quad + x^{22} + x^{20} + x^{19} + x^{17} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{122} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} \\
&\quad + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{100} + x^{92} + x^{89} + x^{88} + x^{87} \\
&\quad + x^{86} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} + x^{72} + x^{69} + x^{67} + x^{64} + x^{63} \\
&\quad + x^{62} + x^{58} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{43} \\
&\quad + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} + x^{32} + x^{29} + x^{28} + x^{27} + x^{25} \\
&\quad + x^{24} + x^{20} + x^{18} + x^{17} + x^{16} + x^{12} + x^9 + x^7 + x^6, \\
p_{12}(x) &= x^{121} + x^{120} + x^{117} + x^{112} + x^{105} + x^{104} + x^{100} + x^{85} + x^{84} + x^{80} \\
&\quad + x^{73} + x^{72} + x^{69} + x^{64} + x^{57} + x^{56} + x^{52} + x^{37} + x^{36} + x^{32} + x^{25} \\
&\quad + x^{24} + x^{21} + x^{16} + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} \\
&\quad + x^{113} + x^{110} + x^{108} + x^{105} + x^{104} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
&\quad + x^{95} + x^{94} + x^{92} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{82} + x^{81} + x^{74} \\
&\quad + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{60} + x^{58} + x^{56} + x^{55} \\
&\quad + x^{54} + x^{53} + x^{49} + x^{48} + x^{43} + x^{41} + x^{39} + x^{38} + x^{34} + x^{32} + x^{30}, \\
p_3(x) &= x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{115} + x^{113} + x^{110} + x^{109} + x^{108} \\
&\quad + x^{106} + x^{103} + x^{102} + x^{101} + x^{99} + x^{95} + x^{94} + x^{93} + x^{91} + x^{87} \\
&\quad + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{74} + x^{71} + x^{69} \\
&\quad + x^{68} + x^{62} + x^{59} + x^{58} + x^{57} + x^{55} + x^{51} + x^{49} + x^{45} + x^{44} + x^{43} \\
&\quad + x^{41} + x^{38} + x^{37} + x^{33} + x^{31} + x^{30} + x^{28} + x^{25} + x^{23} + x^{20} + x^{19} \\
&\quad + x^{18}, \\
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{115} + x^{114} + x^{112} + x^{110} \\
&\quad + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{102} + x^{97} + x^{96} + x^{93} + x^{88} \\
&\quad + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{81} + x^{78} + x^{76} + x^{75} + x^{74} + x^{70} \\
&\quad + x^{69} + x^{68} + x^{65} + x^{60} + x^{57} + x^{56} + x^{52} + x^{51} + x^{50} + x^{46} + x^{41} \\
&\quad + x^{40} + x^{36} + x^{33} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} \\
&\quad + x^{22} + x^{20} + x^{19} + x^{17} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{122} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110}
\end{aligned}$$

$$\begin{aligned}
& + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{100} + x^{92} + x^{89} + x^{88} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} + x^{72} + x^{69} + x^{67} + x^{64} + x^{63} \\
& + x^{62} + x^{58} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{43} \\
& + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} + x^{32} + x^{29} + x^{28} + x^{27} + x^{25} \\
& + x^{24} + x^{20} + x^{18} + x^{17} + x^{16} + x^{12} + x^9 + x^7 + x^6, \\
p_{12}(x) = & x^{121} + x^{120} + x^{117} + x^{112} + x^{105} + x^{104} + x^{100} + x^{85} + x^{84} + x^{80} \\
& + x^{73} + x^{72} + x^{69} + x^{64} + x^{57} + x^{56} + x^{52} + x^{37} + x^{36} + x^{32} + x^{25} \\
& + x^{24} + x^{21} + x^{16} + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{120} + x^{110} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} \\
& + x^{90} + x^{84} + x^{82} + x^{76} + x^{74} + x^{72} + x^{68} + x^{64} + x^{62} + x^{58} + x^{54} \\
& + x^{50} + x^{40} + x^{38} + x^{36}, \\
p_3(x) = & x^{110} + x^{106} + x^{104} + x^{102} + x^{100} + x^{80} + x^{78} + x^{72} + x^{70} + x^{66} + x^{64} \\
& + x^{60} + x^{58} + x^{52} + x^{50} + x^{46} + x^{44} + x^{38} + x^{34} + x^{30} + x^{28} + x^{18} \\
& + x^{16} + x^{12}, \\
p_6(x) = & x^{116} + x^{112} + x^{110} + x^{98} + x^{96} + x^{88} + x^{84} + x^{82} + x^{78} + x^{72} + x^{68} \\
& + x^{58} + x^{56} + x^{36} + x^{30} + x^{26} + x^{20} + x^{14} + x^{10} + x^8 + x^6 + x^4 + x^2 \\
& + 1, \\
p_9(x) = & x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{88} \\
& + x^{86} + x^{84} + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{68} + x^{62} + x^{60} + x^{58} \\
& + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{18} + x^{14} + x^{10} + x^8 + x^4, \\
p_{12}(x) = & x^{118} + x^{114} + x^{112} + x^{110} + x^{106} + x^{104} + x^{94} + x^{90} + x^{88} + x^{86} \\
& + x^{82} + x^{80} + x^{70} + x^{66} + x^{64} + x^{62} + x^{58} + x^{56} + x^{46} + x^{42} + x^{40} \\
& + x^{38} + x^{34} + x^{32} + x^{22} + x^{18} + x^{16} + x^{14} + x^{10} + x^8 + x^6 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{122} + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{111} \\
& + x^{110} + x^{109} + x^{108} + x^{107} + x^{105} + x^{102} + x^{98} + x^{94} + x^{93} + x^{92} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{74} \\
& + x^{70} + x^{68} + x^{66} + x^{64} + x^{62} + x^{61} + x^{58} + x^{56} + x^{55} + x^{54} + x^{52} \\
& + x^{49} + x^{48} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} + x^{36} + x^{35} + x^{33} + x^{32} \\
& + x^{29} + x^{24}, \\
p_3(x) = & x^{125} + x^{123} + x^{122} + x^{116} + x^{112} + x^{111} + x^{110} + x^{107} + x^{106} + x^{104} \\
& + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{85}
\end{aligned}$$

$$\begin{aligned}
& + x^{82} + x^{81} + x^{77} + x^{75} + x^{73} + x^{72} + x^{70} + x^{68} + x^{62} + x^{61} + x^{59} \\
& + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{47} + x^{42} + x^{41} \\
& + x^{37} + x^{36} + x^{34} + x^{32} + x^{28} + x^{27} + x^{21} + x^{20} + x^{16}, \\
p_6(x) &= x^{125} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} \\
& + x^{112} + x^{103} + x^{102} + x^{99} + x^{95} + x^{94} + x^{91} + x^{88} + x^{84} + x^{81} + x^{80} \\
& + x^{74} + x^{73} + x^{72} + x^{71} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} + x^{59} + x^{57} \\
& + x^{55} + x^{54} + x^{51} + x^{46} + x^{42} + x^{41} + x^{40} + x^{39} + x^{36} + x^{35} + x^{32} \\
& + x^{31} + x^{30} + x^{27} + x^{26} + x^{24} + x^{23} + x^{20} + x^{19} + x^{17} + x^{16} + x^{13} \\
& + x^8 + x^5 + x^4 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{120} + x^{117} + x^{116} + x^{113} + x^{108} + x^{101} + x^{100} + x^{97} \\
& + x^{93} + x^{88} + x^{77} + x^{76} + x^{72} + x^{69} + x^{68} + x^{65} + x^{60} + x^{53} + x^{52} \\
& + x^{49} + x^{45} + x^{40} + x^{29} + x^{28} + x^{24} + x^{21} + x^{20} + x^{17} + x^{13} + x^8, \\
p_{12}(x) &= x^{125} + x^{124} + x^{121} + x^{116} + x^{113} + x^{112} + x^{108} + x^{105} + x^{104} + x^{101} \\
& + x^{97} + x^{93} + x^{88} + x^{85} + x^{84} + x^{80} + x^{77} + x^{76} + x^{73} + x^{68} + x^{65} \\
& + x^{64} + x^{60} + x^{57} + x^{56} + x^{53} + x^{49} + x^{45} + x^{40} + x^{37} + x^{36} + x^{32} \\
& + x^{29} + x^{28} + x^{25} + x^{20} + x^{17} + x^{16} + x^{13} + x^8 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{136} + x^{133} + x^{129} + x^{128} + x^{127} + x^{125} + x^{123} + x^{122} + x^{121} + x^{118} \\
& + x^{115} + x^{114} + x^{112} + x^{110} + x^{109} + x^{108} + x^{107} + x^{104} + x^{102} \\
& + x^{101} + x^{98} + x^{96} + x^{92} + x^{91} + x^{89} + x^{88} + x^{86} + x^{85} + x^{80} + x^{79} \\
& + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{67} + x^{62} + x^{55} + x^{52} + x^{50} + x^{49} \\
& + x^{47} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} + x^{35} + x^{30}, \\
p_3(x) &= x^{129} + x^{128} + x^{126} + x^{125} + x^{122} + x^{121} + x^{116} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{108} + x^{106} + x^{102} + x^{99} + x^{94} + x^{91} + x^{89} + x^{88} + x^{85} \\
& + x^{83} + x^{82} + x^{80} + x^{77} + x^{76} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{66} \\
& + x^{64} + x^{63} + x^{55} + x^{53} + x^{52} + x^{51} + x^{49} + x^{44} + x^{42} + x^{39} + x^{38} \\
& + x^{37} + x^{36} + x^{33} + x^{30} + x^{28} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} \\
& + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{130} + x^{128} + x^{124} + x^{120} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{106} \\
& + x^{102} + x^{100} + x^{96} + x^{94} + x^{92} + x^{90} + x^{86} + x^{84} + x^{82} + x^{78} + x^{74} \\
& + x^{72} + x^{70} + x^{68} + x^{64} + x^{60} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{46} \\
& + x^{38} + x^{36} + x^{28} + x^{22} + x^{20} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{131} + x^{130} + x^{129} + x^{127} + x^{126} + x^{122} + x^{120} + x^{119} + x^{114} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{105} + x^{104} + x^{102} + x^{99} + x^{97} + x^{96} + x^{92}
\end{aligned}$$

$$\begin{aligned}
& + x^{90} + x^{89} + x^{87} + x^{86} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{74} + x^{72} \\
& + x^{71} + x^{66} + x^{64} + x^{63} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{51} + x^{49} \\
& + x^{48} + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{35} + x^{34} + x^{33} + x^{31} + x^{30} \\
& + x^{26} + x^{24} + x^{23} + x^{19} + x^{17} + x^{16} + x^{12} + x^{10} + x^9 + x^7 + x^6, \\
p_{12}(x) = & x^{132} + x^{128} + x^{124} + x^{120} + x^{116} + x^{100} + x^{92} + x^{88} + x^{76} + x^{72} \\
& + x^{68} + x^{52} + x^{44} + x^{40} + x^{28} + x^{24} + x^{16} + x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{123} + x^{120} + x^{117} + x^{115} + x^{112} + x^{111} + x^{110} \\
& + x^{108} + x^{106} + x^{101} + x^{99} + x^{98} + x^{93} + x^{92} + x^{87} + x^{86} + x^{85} + x^{84} \\
& + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} \\
& + x^{65} + x^{62} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{50} + x^{49} + x^{47} \\
& + x^{46} + x^{45} + x^{40} + x^{37} + x^{36} + x^{35} + x^{32} + x^{30}, \\
p_3(x) = & x^{125} + x^{124} + x^{122} + x^{120} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} \\
& + x^{103} + x^{98} + x^{95} + x^{90} + x^{87} + x^{85} + x^{84} + x^{80} + x^{79} + x^{77} + x^{76} \\
& + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{62} + x^{60} + x^{59} \\
& + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{48} + x^{42} + x^{41} + x^{40} \\
& + x^{38} + x^{37} + x^{35} + x^{34} + x^{32} + x^{31} + x^{25} + x^{24} + x^{23} + x^{22} + x^{20} \\
& + x^{19} + x^{18}, \\
p_6(x) = & x^{126} + x^{124} + x^{122} + x^{114} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{90} \\
& + x^{76} + x^{74} + x^{72} + x^{70} + x^{56} + x^{54} + x^{52} + x^{50} + x^{46} + x^{44} + x^{40} \\
& + x^{34} + x^{32} + x^{30} + x^{24} + x^{16} + x^{14} + x^{12}, \\
p_9(x) = & x^{127} + x^{126} + x^{125} + x^{121} + x^{119} + x^{116} + x^{115} + x^{114} + x^{112} + x^{109} \\
& + x^{108} + x^{106} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} + x^{95} + x^{94} + x^{92} \\
& + x^{90} + x^{89} + x^{87} + x^{86} + x^{79} + x^{78} + x^{77} + x^{73} + x^{71} + x^{68} + x^{67} \\
& + x^{66} + x^{64} + x^{61} + x^{60} + x^{58} + x^{54} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} \\
& + x^{46} + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{31} + x^{30} + x^{29} + x^{25} + x^{23} \\
& + x^{20} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{12} + x^{10} + x^9 + x^7 + x^6, \\
p_{12}(x) = & x^{128} + x^{112} + x^{100} + x^{96} + x^{84} + x^{64} + x^{52} + x^{48} + x^{36} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{122} + x^{121} + x^{120} + x^{114} + x^{113} + x^{111} + x^{107} + x^{106} \\
& + x^{103} + x^{102} + x^{99} + x^{98} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{83} + x^{81} \\
& + x^{80} + x^{77} + x^{76} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{62} + x^{60} + x^{56} \\
& + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{44} + x^{42} + x^{41} + x^{38} + x^{36},
\end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{125} + x^{119} + x^{117} + x^{115} + x^{110} + x^{107} + x^{105} + x^{103} + x^{102} + x^{100} \\
&\quad + x^{96} + x^{95} + x^{93} + x^{92} + x^{89} + x^{88} + x^{87} + x^{83} + x^{82} + x^{78} + x^{77} \\
&\quad + x^{76} + x^{75} + x^{71} + x^{66} + x^{62} + x^{60} + x^{58} + x^{55} + x^{52} + x^{51} + x^{49} \\
&\quad + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} \\
&\quad + x^{33} + x^{30} + x^{26} + x^{25} + x^{24} + x^{22} + x^{20}, \\
p_6(x) &= x^{125} + x^{120} + x^{119} + x^{117} + x^{112} + x^{110} + x^{109} + x^{107} + x^{106} + x^{104} \\
&\quad + x^{103} + x^{99} + x^{95} + x^{94} + x^{93} + x^{92} + x^{91} + x^{87} + x^{86} + x^{85} + x^{83} \\
&\quad + x^{81} + x^{78} + x^{75} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} + x^{62} + x^{59} + x^{55} \\
&\quad + x^{54} + x^{53} + x^{50} + x^{48} + x^{42} + x^{39} + x^{37} + x^{36} + x^{35} + x^{29} + x^{28} \\
&\quad + x^{27} + x^{25} + x^{24} + x^{22} + x^{17} + x^{16} + x^{14} + x^{12} + x^5 + x^4 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{120} + x^{117} + x^{116} + x^{113} + x^{108} + x^{101} + x^{100} + x^{97} \\
&\quad + x^{93} + x^{88} + x^{77} + x^{76} + x^{72} + x^{69} + x^{68} + x^{65} + x^{60} + x^{53} + x^{52} \\
&\quad + x^{49} + x^{45} + x^{40} + x^{29} + x^{28} + x^{24} + x^{21} + x^{20} + x^{17} + x^{13} + x^8, \\
p_{12}(x) &= x^{125} + x^{124} + x^{121} + x^{116} + x^{113} + x^{112} + x^{108} + x^{105} + x^{104} + x^{101} \\
&\quad + x^{97} + x^{93} + x^{88} + x^{85} + x^{84} + x^{80} + x^{77} + x^{76} + x^{73} + x^{68} + x^{65} \\
&\quad + x^{64} + x^{60} + x^{57} + x^{56} + x^{53} + x^{49} + x^{45} + x^{40} + x^{37} + x^{36} + x^{32} \\
&\quad + x^{29} + x^{28} + x^{25} + x^{20} + x^{17} + x^{16} + x^{13} + x^8 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{111} \\
&\quad + x^{110} + x^{109} + x^{108} + x^{107} + x^{105} + x^{102} + x^{98} + x^{94} + x^{93} + x^{92} \\
&\quad + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{74} \\
&\quad + x^{70} + x^{68} + x^{66} + x^{64} + x^{62} + x^{61} + x^{58} + x^{56} + x^{55} + x^{54} + x^{52} \\
&\quad + x^{49} + x^{48} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} + x^{36} + x^{35} + x^{33} + x^{32} \\
&\quad + x^{29} + x^{24}, \\
p_3(x) &= x^{125} + x^{123} + x^{122} + x^{116} + x^{112} + x^{111} + x^{110} + x^{107} + x^{106} + x^{104} \\
&\quad + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{85} \\
&\quad + x^{82} + x^{81} + x^{77} + x^{75} + x^{73} + x^{72} + x^{70} + x^{68} + x^{62} + x^{61} + x^{59} \\
&\quad + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{47} + x^{42} + x^{41} \\
&\quad + x^{37} + x^{36} + x^{34} + x^{32} + x^{28} + x^{27} + x^{21} + x^{20} + x^{16}, \\
p_6(x) &= x^{125} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} \\
&\quad + x^{112} + x^{103} + x^{102} + x^{99} + x^{95} + x^{94} + x^{91} + x^{88} + x^{84} + x^{81} + x^{80} \\
&\quad + x^{74} + x^{73} + x^{72} + x^{71} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} + x^{59} + x^{57} \\
&\quad + x^{55} + x^{54} + x^{51} + x^{46} + x^{42} + x^{41} + x^{40} + x^{39} + x^{36} + x^{35} + x^{32} \\
&\quad + x^{31} + x^{30} + x^{27} + x^{26} + x^{24} + x^{23} + x^{20} + x^{19} + x^{17} + x^{16} + x^{13}
\end{aligned}$$

$$\begin{aligned}
& + x^8 + x^5 + x^4 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{120} + x^{117} + x^{116} + x^{113} + x^{108} + x^{101} + x^{100} + x^{97} \\
& + x^{93} + x^{88} + x^{77} + x^{76} + x^{72} + x^{69} + x^{68} + x^{65} + x^{60} + x^{53} + x^{52} \\
& + x^{49} + x^{45} + x^{40} + x^{29} + x^{28} + x^{24} + x^{21} + x^{20} + x^{17} + x^{13} + x^8, \\
p_{12}(x) &= x^{125} + x^{124} + x^{121} + x^{116} + x^{113} + x^{112} + x^{108} + x^{105} + x^{104} + x^{101} \\
& + x^{97} + x^{93} + x^{88} + x^{85} + x^{84} + x^{80} + x^{77} + x^{76} + x^{73} + x^{68} + x^{65} \\
& + x^{64} + x^{60} + x^{57} + x^{56} + x^{53} + x^{49} + x^{45} + x^{40} + x^{37} + x^{36} + x^{32} \\
& + x^{29} + x^{28} + x^{25} + x^{20} + x^{17} + x^{16} + x^{13} + x^8 + x^5 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{120} + x^{117} + x^{115} + x^{112} + x^{111} + x^{110} \\
& + x^{108} + x^{106} + x^{101} + x^{99} + x^{98} + x^{93} + x^{92} + x^{87} + x^{86} + x^{85} + x^{84} \\
& + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} \\
& + x^{65} + x^{62} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{50} + x^{49} + x^{47} \\
& + x^{46} + x^{45} + x^{40} + x^{37} + x^{36} + x^{35} + x^{32} + x^{30}, \\
p_3(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} \\
& + x^{103} + x^{98} + x^{95} + x^{90} + x^{87} + x^{85} + x^{84} + x^{80} + x^{79} + x^{77} + x^{76} \\
& + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{62} + x^{60} + x^{59} \\
& + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{48} + x^{42} + x^{41} + x^{40} \\
& + x^{38} + x^{37} + x^{35} + x^{34} + x^{32} + x^{31} + x^{25} + x^{24} + x^{23} + x^{22} + x^{20} \\
& + x^{19} + x^{18}, \\
p_6(x) &= x^{126} + x^{124} + x^{122} + x^{114} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{90} \\
& + x^{76} + x^{74} + x^{72} + x^{70} + x^{56} + x^{54} + x^{52} + x^{50} + x^{46} + x^{44} + x^{40} \\
& + x^{34} + x^{32} + x^{30} + x^{24} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{127} + x^{126} + x^{125} + x^{121} + x^{119} + x^{116} + x^{115} + x^{114} + x^{112} + x^{109} \\
& + x^{108} + x^{106} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} + x^{95} + x^{94} + x^{92} \\
& + x^{90} + x^{89} + x^{87} + x^{86} + x^{79} + x^{78} + x^{77} + x^{73} + x^{71} + x^{68} + x^{67} \\
& + x^{66} + x^{64} + x^{61} + x^{60} + x^{58} + x^{54} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} \\
& + x^{46} + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{31} + x^{30} + x^{29} + x^{25} + x^{23} \\
& + x^{20} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{12} + x^{10} + x^9 + x^7 + x^6, \\
p_{12}(x) &= x^{128} + x^{112} + x^{100} + x^{96} + x^{84} + x^{64} + x^{52} + x^{48} + x^{36} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{136} + x^{133} + x^{129} + x^{128} + x^{127} + x^{125} + x^{123} + x^{122} + x^{121} + x^{118} \\
& + x^{115} + x^{114} + x^{112} + x^{110} + x^{109} + x^{108} + x^{107} + x^{104} + x^{102}
\end{aligned}$$

$$\begin{aligned}
& + x^{101} + x^{98} + x^{96} + x^{92} + x^{91} + x^{89} + x^{88} + x^{86} + x^{85} + x^{80} + x^{79} \\
& + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{67} + x^{62} + x^{55} + x^{52} + x^{50} + x^{49} \\
& + x^{47} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} + x^{35} + x^{30}, \\
p_3(x) = & x^{129} + x^{128} + x^{126} + x^{125} + x^{122} + x^{121} + x^{116} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{108} + x^{106} + x^{102} + x^{99} + x^{94} + x^{91} + x^{89} + x^{88} + x^{85} \\
& + x^{83} + x^{82} + x^{80} + x^{77} + x^{76} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{66} \\
& + x^{64} + x^{63} + x^{55} + x^{53} + x^{52} + x^{51} + x^{49} + x^{44} + x^{42} + x^{39} + x^{38} \\
& + x^{37} + x^{36} + x^{33} + x^{30} + x^{28} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} \\
& + x^{20} + x^{19} + x^{18}, \\
p_6(x) = & x^{130} + x^{128} + x^{124} + x^{120} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{106} \\
& + x^{102} + x^{100} + x^{96} + x^{94} + x^{92} + x^{90} + x^{86} + x^{84} + x^{82} + x^{78} + x^{74} \\
& + x^{72} + x^{70} + x^{68} + x^{64} + x^{60} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{46} \\
& + x^{38} + x^{36} + x^{28} + x^{22} + x^{20} + x^{16} + x^{14} + x^{12}, \\
p_9(x) = & x^{131} + x^{130} + x^{129} + x^{127} + x^{126} + x^{122} + x^{120} + x^{119} + x^{114} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{105} + x^{104} + x^{102} + x^{99} + x^{97} + x^{96} + x^{92} \\
& + x^{90} + x^{89} + x^{87} + x^{86} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{74} + x^{72} \\
& + x^{71} + x^{66} + x^{64} + x^{63} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{51} + x^{49} \\
& + x^{48} + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{35} + x^{34} + x^{33} + x^{31} + x^{30} \\
& + x^{26} + x^{24} + x^{23} + x^{19} + x^{17} + x^{16} + x^{12} + x^{10} + x^9 + x^7 + x^6, \\
p_{12}(x) = & x^{132} + x^{128} + x^{124} + x^{120} + x^{116} + x^{100} + x^{92} + x^{88} + x^{76} + x^{72} \\
& + x^{68} + x^{52} + x^{44} + x^{40} + x^{28} + x^{24} + x^{16} + x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{122} + x^{121} + x^{120} + x^{114} + x^{113} + x^{111} + x^{107} + x^{106} \\
& + x^{103} + x^{102} + x^{99} + x^{98} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{83} + x^{81} \\
& + x^{80} + x^{77} + x^{76} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{62} + x^{60} + x^{56} \\
& + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{44} + x^{42} + x^{41} + x^{38} + x^{36}, \\
p_3(x) = & x^{125} + x^{119} + x^{117} + x^{115} + x^{110} + x^{107} + x^{105} + x^{103} + x^{102} + x^{100} \\
& + x^{96} + x^{95} + x^{93} + x^{92} + x^{89} + x^{88} + x^{87} + x^{83} + x^{82} + x^{78} + x^{77} \\
& + x^{76} + x^{75} + x^{71} + x^{66} + x^{62} + x^{60} + x^{58} + x^{55} + x^{52} + x^{51} + x^{49} \\
& + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} \\
& + x^{33} + x^{30} + x^{26} + x^{25} + x^{24} + x^{22} + x^{20}, \\
p_6(x) = & x^{125} + x^{120} + x^{119} + x^{117} + x^{112} + x^{110} + x^{109} + x^{107} + x^{106} + x^{104} \\
& + x^{103} + x^{99} + x^{95} + x^{94} + x^{93} + x^{92} + x^{91} + x^{87} + x^{86} + x^{85} + x^{83} \\
& + x^{81} + x^{78} + x^{75} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} + x^{62} + x^{59} + x^{55}
\end{aligned}$$

$$\begin{aligned}
& + x^{54} + x^{53} + x^{50} + x^{48} + x^{42} + x^{39} + x^{37} + x^{36} + x^{35} + x^{29} + x^{28} \\
& + x^{27} + x^{25} + x^{24} + x^{22} + x^{17} + x^{16} + x^{14} + x^{12} + x^5 + x^4 + 1, \\
p_9(x) = & x^{125} + x^{124} + x^{120} + x^{117} + x^{116} + x^{113} + x^{108} + x^{101} + x^{100} + x^{97} \\
& + x^{93} + x^{88} + x^{77} + x^{76} + x^{72} + x^{69} + x^{68} + x^{65} + x^{60} + x^{53} + x^{52} \\
& + x^{49} + x^{45} + x^{40} + x^{29} + x^{28} + x^{24} + x^{21} + x^{20} + x^{17} + x^{13} + x^8, \\
p_{12}(x) = & x^{125} + x^{124} + x^{121} + x^{116} + x^{113} + x^{112} + x^{108} + x^{105} + x^{104} + x^{101} \\
& + x^{97} + x^{93} + x^{88} + x^{85} + x^{84} + x^{80} + x^{77} + x^{76} + x^{73} + x^{68} + x^{65} \\
& + x^{64} + x^{60} + x^{57} + x^{56} + x^{53} + x^{49} + x^{45} + x^{40} + x^{37} + x^{36} + x^{32} \\
& + x^{29} + x^{28} + x^{25} + x^{20} + x^{17} + x^{16} + x^{13} + x^8 + x^5 + x^4 + 1,
\end{aligned}$$

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

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]	2048	[3286, 3100]	4096	[1492, 3968]	6144	[6974, 623]
1	[3, 4]	2049	[3219, 980]	4097	[5380, 3045]	6145	[4396, 6538]
2	[5, 6]	2050	[3287, 3288]	4098	[5381, 5382]	6146	[6975, 5262]
3	[7, 8]	2051	[3289, 3290]	4099	[2819, 1142]	6147	[6976, 641]
4	[9, 10]	2052	[3291, 3292]	4100	[2987, 3288]	6148	[6977, 5192]
5	[11, 12]	2053	[3293, 3294]	4101	[5383, 1504]	6149	[6978, 2515]
6	[13, 14]	2054	[1433, 1304]	4102	[5384, 369]	6150	[6979, 2628]
7	[15, 16]	2055	[1104, 3295]	4103	[5385, 1241]	6151	[6980, 6538]
8	[17, 18]	2056	[3296, 3297]	4104	[3429, 3080]	6152	[803, 6735]
9	[19, 20]	2057	[3298, 1439]	4105	[3164, 5386]	6153	[6981, 547]
10	[21, 22]	2058	[3299, 3240]	4106	[5387, 3393]	6154	[6982, 2274]
11	[23, 24]	2059	[3300, 3301]	4107	[5388, 354]	6155	[6983, 6466]
12	[25, 26]	2060	[3302, 3303]	4108	[1514, 1157]	6156	[6984, 188]
13	[27, 28]	2061	[427, 2949]	4109	[5389, 5390]	6157	[6679, 40]
14	[29, 30]	2062	[3304, 3305]	4110	[5391, 3871]	6158	[2384, 3984]
15	[31, 32]	2063	[3306, 2903]	4111	[2805, 3359]	6159	[6985, 2334]
16	[33, 34]	2064	[3307, 351]	4112	[5392, 1456]	6160	[6986, 6987]
17	[35, 36]	2065	[3308, 2751]	4113	[2856, 2668]	6161	[6988, 2239]
18	[37, 38]	2066	[3309, 3310]	4114	[5393, 5394]	6162	[492, 5026]
19	[39, 40]	2067	[954, 385]	4115	[5395, 3125]	6163	[6989, 4176]
20	[41, 42]	2068	[3046, 3311]	4116	[5396, 5397]	6164	[724, 6910]
21	[43, 44]	2069	[3312, 920]	4117	[5398, 954]	6165	[4147, 1778]
22	[45, 46]	2070	[3313, 3314]	4118	[3809, 1231]	6166	[4033, 4223]
23	[47, 48]	2071	[3315, 2791]	4119	[5399, 5400]	6167	[4336, 6990]
24	[49, 50]	2072	[3316, 3317]	4120	[2722, 1006]	6168	[2277, 483]
25	[51, 52]	2073	[3318, 3319]	4121	[5401, 5402]	6169	[6991, 2375]
26	[53, 54]	2074	[478, 3320]	4122	[5403, 3289]	6170	[6712, 4050]

27	[55, 56]	2075	[3321, 3322]	4123	[5404, 3330]	6171	[5061, 2421]
28	[57, 58]	2076	[2970, 3323]	4124	[3741, 459]	6172	[6992, 2012]
29	[59, 60]	2077	[3324, 3325]	4125	[5405, 3890]	6173	[6993, 675]
30	[61, 62]	2078	[3326, 3327]	4126	[3091, 5406]	6174	[6994, 2077]
31	[63, 64]	2079	[22, 3328]	4127	[5407, 3527]	6175	[6910, 1663]
32	[65, 66]	2080	[3329, 3330]	4128	[5408, 3019]	6176	[6995, 5196]
33	[67, 68]	2081	[1040, 3331]	4129	[5409, 1278]	6177	[4654, 4503]
34	[69, 70]	2082	[3332, 3333]	4130	[5410, 3318]	6178	[6996, 5098]
35	[71, 72]	2083	[3334, 1378]	4131	[3142, 1362]	6179	[6997, 5512]
36	[73, 74]	2084	[3335, 2690]	4132	[5411, 1310]	6180	[5121, 780]
37	[75, 76]	2085	[3336, 3337]	4133	[3350, 353]	6181	[4777, 602]
38	[77, 78]	2086	[3242, 1354]	4134	[1441, 1121]	6182	[58, 6998]
39	[79, 80]	2087	[3338, 1468]	4135	[5412, 5413]	6183	[6999, 4399]
40	[81, 82]	2088	[3339, 1162]	4136	[5414, 1375]	6184	[7000, 4413]
41	[83, 84]	2089	[3340, 3341]	4137	[1187, 3538]	6185	[2301, 5046]
42	[85, 86]	2090	[3342, 3343]	4138	[5415, 3179]	6186	[6383, 6408]
43	[87, 88]	2091	[3344, 3345]	4139	[5416, 926]	6187	[7001, 2150]
44	[89, 90]	2092	[3346, 3347]	4140	[5417, 2709]	6188	[1992, 6818]
45	[91, 92]	2093	[3348, 1560]	4141	[5418, 2663]	6189	[7002, 2401]
46	[93, 94]	2094	[3349, 1598]	4142	[5419, 5420]	6190	[7003, 7004]
47	[95, 96]	2095	[1136, 3350]	4143	[2697, 1185]	6191	[7005, 886]
48	[97, 98]	2096	[3351, 3352]	4144	[5421, 1396]	6192	[7006, 6632]
49	[99, 100]	2097	[3353, 3354]	4145	[1257, 5276]	6193	[7007, 2646]
50	[101, 102]	2098	[1488, 2912]	4146	[5422, 3430]	6194	[1684, 4044]
51	[103, 104]	2099	[3355, 3356]	4147	[5423, 3975]	6195	[7008, 827]
52	[105, 106]	2100	[3221, 3040]	4148	[5335, 448]	6196	[7009, 6805]
53	[107, 108]	2101	[3357, 3358]	4149	[5424, 2843]	6197	[4982, 2602]
54	[109, 110]	2102	[3359, 1011]	4150	[5425, 1274]	6198	[7010, 4816]
55	[111, 112]	2103	[1110, 1584]	4151	[1132, 1136]	6199	[7011, 6669]
56	[113, 114]	2104	[3360, 407]	4152	[3682, 5426]	6200	[7012, 5226]
57	[115, 116]	2105	[3361, 2967]	4153	[5402, 1184]	6201	[7013, 4181]
58	[117, 118]	2106	[2784, 3362]	4154	[5427, 2898]	6202	[7014, 2368]
59	[119, 120]	2107	[968, 1035]	4155	[3771, 3366]	6203	[7015, 4549]
60	[121, 122]	2108	[3363, 1081]	4156	[3562, 1307]	6204	[7016, 5130]
61	[123, 124]	2109	[3364, 3365]	4157	[5428, 3600]	6205	[7017, 2025]
62	[125, 126]	2110	[311, 1453]	4158	[5429, 5430]	6206	[7018, 4350]
63	[127, 128]	2111	[3263, 378]	4159	[464, 3549]	6207	[7019, 5216]
64	[129, 130]	2112	[3366, 3367]	4160	[5309, 1167]	6208	[2124, 7020]
65	[131, 132]	2113	[3368, 1114]	4161	[5431, 5432]	6209	[50, 5210]
66	[133, 134]	2114	[3369, 3370]	4162	[5433, 2970]	6210	[7021, 2011]
67	[135, 136]	2115	[3371, 3372]	4163	[5434, 3880]	6211	[5017, 2234]
68	[137, 138]	2116	[3175, 3036]	4164	[5435, 5436]	6212	[7022, 4627]
69	[139, 140]	2117	[3176, 3373]	4165	[5437, 3200]	6213	[7023, 7024]
70	[141, 142]	2118	[1198, 428]	4166	[5438, 3049]	6214	[1634, 2032]

71	[143, 144]	2119	[3374, 3375]	4167	[1138, 3272]	6215	[7025, 2209]
72	[145, 146]	2120	[1148, 3376]	4168	[5439, 5440]	6216	[7026, 6526]
73	[147, 148]	2121	[1297, 3161]	4169	[3573, 5441]	6217	[7027, 1797]
74	[149, 150]	2122	[3125, 3377]	4170	[5442, 5342]	6218	[7028, 6336]
75	[151, 152]	2123	[3378, 3379]	4171	[5443, 5444]	6219	[6987, 559]
76	[153, 154]	2124	[2800, 3380]	4172	[5445, 1251]	6220	[7029, 6712]
77	[155, 156]	2125	[3381, 3382]	4173	[3301, 3005]	6221	[898, 6585]
78	[157, 158]	2126	[3383, 3384]	4174	[5446, 5447]	6222	[7030, 2384]
79	[159, 160]	2127	[3385, 1574]	4175	[5448, 5449]	6223	[6356, 2123]
80	[161, 162]	2128	[3386, 3387]	4176	[356, 3512]	6224	[5218, 4303]
81	[163, 164]	2129	[2690, 1037]	4177	[343, 3501]	6225	[7031, 2631]
82	[165, 166]	2130	[3388, 3389]	4178	[5284, 412]	6226	[7032, 4576]
83	[167, 168]	2131	[3390, 974]	4179	[5450, 5370]	6227	[7033, 597]
84	[169, 170]	2132	[3391, 1394]	4180	[5451, 3562]	6228	[7034, 2537]
85	[171, 172]	2133	[1545, 3392]	4181	[5452, 1364]	6229	[7035, 2056]
86	[173, 174]	2134	[3393, 3394]	4182	[5453, 1366]	6230	[7036, 2577]
87	[175, 55]	2135	[1163, 3395]	4183	[3577, 5454]	6231	[650, 4993]
88	[176, 177]	2136	[3396, 3397]	4184	[5455, 374]	6232	[7037, 2113]
89	[178, 179]	2137	[3398, 3029]	4185	[5456, 3314]	6233	[7038, 4520]
90	[180, 181]	2138	[1293, 348]	4186	[5457, 3239]	6234	[7039, 6844]
91	[182, 183]	2139	[1280, 3399]	4187	[5458, 1316]	6235	[576, 2460]
92	[184, 185]	2140	[3400, 3401]	4188	[5459, 5423]	6236	[7040, 2]
93	[186, 187]	2141	[3402, 3206]	4189	[5460, 1579]	6237	[7041, 1674]
94	[188, 189]	2142	[3403, 3404]	4190	[5461, 1172]	6238	[6557, 7042]
95	[190, 191]	2143	[1560, 3405]	4191	[5462, 475]	6239	[7043, 2080]
96	[192, 193]	2144	[972, 1219]	4192	[5463, 1581]	6240	[7044, 6888]
97	[194, 195]	2145	[3406, 3407]	4193	[2806, 3379]	6241	[7045, 5040]
98	[196, 197]	2146	[3408, 3409]	4194	[912, 369]	6242	[1921, 5261]
99	[198, 199]	2147	[3410, 3411]	4195	[5464, 5465]	6243	[2451, 6519]
100	[200, 201]	2148	[3412, 2666]	4196	[2719, 1001]	6244	[4645, 6957]
101	[202, 203]	2149	[3413, 1525]	4197	[5466, 5396]	6245	[855, 5100]
102	[204, 205]	2150	[3414, 3415]	4198	[5467, 266]	6246	[7046, 4339]
103	[191, 206]	2151	[325, 3416]	4199	[5468, 5469]	6247	[7047, 5024]
104	[207, 208]	2152	[1320, 3417]	4200	[5470, 2797]	6248	[1698, 2]
105	[209, 210]	2153	[3418, 3419]	4201	[2767, 3749]	6249	[7048, 4833]
106	[211, 212]	2154	[3420, 3421]	4202	[5471, 1128]	6250	[7049, 5116]
107	[213, 214]	2155	[3422, 3423]	4203	[5472, 5294]	6251	[4097, 5140]
108	[215, 216]	2156	[3424, 3425]	4204	[5473, 3959]	6252	[7050, 4856]
109	[217, 218]	2157	[3426, 3427]	4205	[5474, 5294]	6253	[7051, 6957]
110	[219, 220]	2158	[3428, 3429]	4206	[3036, 5475]	6254	[5198, 2155]
111	[221, 222]	2159	[1352, 2766]	4207	[5476, 5477]	6255	[6990, 2631]
112	[223, 224]	2160	[3430, 3431]	4208	[5478, 2791]	6256	[4896, 6435]
113	[225, 171]	2161	[1326, 3432]	4209	[5479, 5480]	6257	[7052, 1840]
114	[226, 227]	2162	[3433, 3434]	4210	[5481, 2842]	6258	[2323, 4375]

115	[228, 229]	2163	[1217, 3435]	4211	[5482, 3745]	6259	[7053, 1787]
116	[230, 231]	2164	[3436, 2925]	4212	[5483, 986]	6260	[6552, 4428]
117	[232, 233]	2165	[3437, 2731]	4213	[5484, 1046]	6261	[6793, 2336]
118	[234, 235]	2166	[3438, 3439]	4214	[5485, 3453]	6262	[7054, 6998]
119	[236, 237]	2167	[287, 3440]	4215	[5486, 3235]	6263	[2165, 2284]
120	[238, 239]	2168	[3441, 3442]	4216	[1571, 5309]	6264	[1728, 4273]
121	[240, 241]	2169	[3443, 3444]	4217	[1069, 3453]	6265	[1732, 6452]
122	[242, 243]	2170	[1263, 3445]	4218	[5487, 5488]	6266	[7055, 1841]
123	[244, 245]	2171	[3446, 3447]	4219	[5489, 3251]	6267	[7056, 2516]
124	[246, 247]	2172	[293, 1434]	4220	[5490, 22]	6268	[4067, 2472]
125	[248, 139]	2173	[2927, 3448]	4221	[5491, 3115]	6269	[550, 1817]
126	[249, 141]	2174	[3449, 125]	4222	[5492, 3938]	6270	[7057, 2208]
127	[250, 251]	2175	[3450, 3042]	4223	[5493, 5301]	6271	[7058, 2001]
128	[252, 253]	2176	[3451, 1342]	4224	[5494, 2727]	6272	[231, 4506]
129	[254, 255]	2177	[3202, 3452]	4225	[5495, 3808]	6273	[6435, 672]
130	[256, 257]	2178	[3453, 3454]	4226	[1585, 2698]	6274	[4534, 4571]
131	[258, 259]	2179	[2866, 3455]	4227	[5496, 5497]	6275	[7042, 2075]
132	[260, 261]	2180	[3456, 3457]	4228	[5498, 5499]	6276	[7059, 4824]
133	[262, 263]	2181	[3458, 1205]	4229	[3343, 1471]	6277	[5224, 4888]
134	[264, 265]	2182	[3459, 250]	4230	[5500, 5501]	6278	[6784, 6946]
135	[266, 267]	2183	[3284, 3460]	4231	[3871, 5502]	6279	[6630, 1743]
136	[268, 269]	2184	[3461, 3462]	4232	[5503, 472]	6280	[7060, 837]
137	[270, 271]	2185	[3463, 3464]	4233	[5504, 3753]	6281	[2558, 6813]
138	[272, 273]	2186	[3465, 3466]	4234	[5505, 1512]	6282	[4532, 4409]
139	[274, 275]	2187	[3467, 3468]	4235	[5506, 1194]	6283	[2271, 4557]
140	[276, 277]	2188	[3469, 3015]	4236	[5507, 3658]	6284	[7061, 4565]
141	[278, 279]	2189	[2850, 3470]	4237	[5508, 3342]	6285	[6425, 2059]
142	[280, 281]	2190	[3471, 1084]	4238	[5509, 3721]	6286	[7062, 6602]
143	[282, 283]	2191	[3472, 1335]	4239	[5510, 2916]	6287	[7063, 4201]
144	[284, 285]	2192	[3473, 3474]	4240	[5511, 5512]	6288	[7064, 4267]
145	[286, 287]	2193	[3475, 91]	4241	[5513, 1552]	6289	[7065, 1624]
146	[288, 289]	2194	[3476, 3477]	4242	[5514, 1589]	6290	[7066, 7067]
147	[290, 291]	2195	[3478, 3479]	4243	[3627, 3218]	6291	[4803, 4211]
148	[292, 293]	2196	[3480, 298]	4244	[5515, 443]	6292	[7068, 4963]
149	[294, 295]	2197	[3365, 3481]	4245	[5516, 970]	6293	[2377, 4460]
150	[296, 297]	2198	[3482, 1320]	4246	[5517, 3056]	6294	[7069, 851]
151	[298, 299]	2199	[3483, 85]	4247	[3193, 5518]	6295	[5176, 1821]
152	[300, 301]	2200	[925, 3484]	4248	[5519, 5449]	6296	[7070, 49]
153	[302, 303]	2201	[3485, 2883]	4249	[3864, 5520]	6297	[7071, 6778]
154	[304, 305]	2202	[3486, 3207]	4250	[5521, 3205]	6298	[6669, 2113]
155	[306, 307]	2203	[3208, 3001]	4251	[5522, 263]	6299	[7072, 2564]
156	[308, 309]	2204	[3487, 3055]	4252	[5523, 5524]	6300	[4462, 2554]
157	[310, 311]	2205	[3488, 3489]	4253	[3093, 3196]	6301	[4448, 5224]
158	[312, 313]	2206	[3265, 3490]	4254	[5525, 5526]	6302	[7073, 559]

159	[314, 315]	2207	[3140, 2724]	4255	[1046, 3271]	6303	[4191, 679]
160	[316, 317]	2208	[3491, 2782]	4256	[5527, 5362]	6304	[2607, 6723]
161	[318, 319]	2209	[3492, 3493]	4257	[5528, 2779]	6305	[6372, 2606]
162	[320, 321]	2210	[3494, 1606]	4258	[1504, 1508]	6306	[712, 2608]
163	[322, 323]	2211	[3495, 1486]	4259	[1097, 5529]	6307	[2573, 4669]
164	[324, 325]	2212	[3496, 1551]	4260	[5530, 443]	6308	[2105, 6475]
165	[326, 327]	2213	[3497, 1469]	4261	[5531, 3050]	6309	[7074, 6705]
166	[328, 329]	2214	[3498, 3499]	4262	[5532, 5533]	6310	[7075, 729]
167	[330, 331]	2215	[3500, 3501]	4263	[5534, 5505]	6311	[7076, 4349]
168	[332, 333]	2216	[2884, 1234]	4264	[1057, 2900]	6312	[7077, 6531]
169	[334, 335]	2217	[3014, 3502]	4265	[5535, 2752]	6313	[7078, 4945]
170	[336, 337]	2218	[927, 3503]	4266	[5362, 3655]	6314	[4305, 4393]
171	[338, 339]	2219	[3504, 3505]	4267	[5536, 5537]	6315	[4064, 4204]
172	[340, 341]	2220	[3506, 3507]	4268	[5538, 3943]	6316	[1843, 6725]
173	[342, 343]	2221	[3508, 3509]	4269	[5539, 3226]	6317	[838, 2376]
174	[344, 345]	2222	[414, 3510]	4270	[5540, 5541]	6318	[7079, 4793]
175	[346, 113]	2223	[3511, 1502]	4271	[5542, 5543]	6319	[7080, 4529]
176	[347, 348]	2224	[3512, 3160]	4272	[5544, 477]	6320	[7081, 4065]
177	[349, 350]	2225	[3513, 2930]	4273	[5545, 5546]	6321	[7082, 4307]
178	[351, 352]	2226	[3134, 2807]	4274	[5547, 3778]	6322	[4474, 4309]
179	[353, 354]	2227	[3514, 3515]	4275	[3671, 3383]	6323	[1772, 2157]
180	[355, 356]	2228	[3516, 3517]	4276	[1318, 310]	6324	[7083, 2136]
181	[357, 358]	2229	[3518, 3519]	4277	[5548, 1111]	6325	[7084, 1740]
182	[359, 360]	2230	[3520, 2916]	4278	[5549, 5400]	6326	[7085, 6516]
183	[361, 362]	2231	[3521, 3446]	4279	[5550, 1461]	6327	[7086, 5064]
184	[363, 364]	2232	[2911, 3522]	4280	[5551, 968]	6328	[7087, 3747]
185	[365, 366]	2233	[3523, 1133]	4281	[5342, 3699]	6329	[6049, 2756]
186	[367, 368]	2234	[3524, 3525]	4282	[5552, 5553]	6330	[5360, 1127]
187	[369, 370]	2235	[3526, 1398]	4283	[5554, 5287]	6331	[7088, 1524]
188	[371, 372]	2236	[3527, 3528]	4284	[5555, 5431]	6332	[7089, 3739]
189	[373, 374]	2237	[3529, 119]	4285	[1156, 5556]	6333	[7090, 1153]
190	[375, 376]	2238	[3530, 1492]	4286	[5557, 5558]	6334	[7091, 3879]
191	[377, 378]	2239	[3531, 2760]	4287	[5559, 5489]	6335	[5627, 1391]
192	[379, 380]	2240	[3532, 3533]	4288	[263, 5560]	6336	[7092, 5556]
193	[381, 382]	2241	[3534, 1244]	4289	[5561, 2776]	6337	[6311, 5646]
194	[383, 384]	2242	[3535, 3536]	4290	[2871, 3354]	6338	[3077, 3488]
195	[385, 386]	2243	[3537, 3538]	4291	[5432, 5562]	6339	[7093, 3438]
196	[387, 388]	2244	[3539, 3054]	4292	[5563, 2853]	6340	[7094, 428]
197	[389, 390]	2245	[3540, 2961]	4293	[1431, 23]	6341	[3543, 1012]
198	[391, 392]	2246	[3541, 1251]	4294	[5564, 3703]	6342	[3903, 906]
199	[393, 394]	2247	[3542, 275]	4295	[5565, 3011]	6343	[3787, 3733]
200	[395, 396]	2248	[1134, 3543]	4296	[5566, 3473]	6344	[7095, 1037]
201	[397, 398]	2249	[2956, 3544]	4297	[5567, 3528]	6345	[7096, 6280]
202	[399, 400]	2250	[124, 3545]	4298	[3328, 5568]	6346	[7097, 5781]

203	[401, 402]	2251	[3546, 3356]	4299	[5569, 3859]	6347	[7098, 5360]
204	[403, 404]	2252	[3547, 2802]	4300	[994, 5570]	6348	[7099, 2807]
205	[405, 406]	2253	[3548, 3549]	4301	[5571, 1005]	6349	[7100, 1546]
206	[376, 407]	2254	[3550, 308]	4302	[3623, 3318]	6350	[960, 5564]
207	[408, 409]	2255	[3551, 3029]	4303	[5572, 453]	6351	[7101, 3118]
208	[410, 76]	2256	[3552, 3553]	4304	[5558, 2815]	6352	[7102, 5558]
209	[411, 412]	2257	[3554, 3555]	4305	[5573, 2663]	6353	[7103, 2672]
210	[413, 414]	2258	[3556, 3557]	4306	[5574, 5575]	6354	[7104, 2812]
211	[279, 415]	2259	[2707, 3315]	4307	[5576, 932]	6355	[7105, 1603]
212	[416, 417]	2260	[3558, 1515]	4308	[1367, 5577]	6356	[7106, 5898]
213	[418, 419]	2261	[3559, 1002]	4309	[5578, 3019]	6357	[7107, 5830]
214	[420, 421]	2262	[3560, 3561]	4310	[5579, 5580]	6358	[7108, 1211]
215	[422, 423]	2263	[3099, 1380]	4311	[5581, 3337]	6359	[7109, 2763]
216	[424, 425]	2264	[3100, 3562]	4312	[474, 2849]	6360	[7110, 3876]
217	[426, 427]	2265	[3563, 3138]	4313	[5582, 1304]	6361	[7111, 1570]
218	[428, 418]	2266	[3564, 3565]	4314	[5583, 1137]	6362	[7112, 2929]
219	[429, 430]	2267	[3566, 969]	4315	[5584, 367]	6363	[5609, 3636]
220	[78, 431]	2268	[3567, 3568]	4316	[5585, 3486]	6364	[7113, 3677]
221	[432, 433]	2269	[3569, 3570]	4317	[1236, 2883]	6365	[6205, 3794]
222	[434, 435]	2270	[3571, 3572]	4318	[3178, 1327]	6366	[7114, 3208]
223	[436, 437]	2271	[3373, 3573]	4319	[5586, 1038]	6367	[1274, 2975]
224	[438, 268]	2272	[3574, 338]	4320	[1085, 3099]	6368	[5687, 5808]
225	[421, 439]	2273	[3575, 340]	4321	[5587, 3398]	6369	[6047, 5537]
226	[440, 441]	2274	[3576, 342]	4322	[5588, 339]	6370	[3444, 3229]
227	[442, 380]	2275	[3311, 344]	4323	[3010, 77]	6371	[7115, 1605]
228	[443, 444]	2276	[333, 3577]	4324	[5589, 5590]	6372	[7116, 3926]
229	[445, 446]	2277	[3578, 3579]	4325	[5591, 5592]	6373	[7117, 3931]
230	[447, 448]	2278	[3580, 3581]	4326	[3017, 5593]	6374	[5922, 1456]
231	[449, 450]	2279	[3266, 3582]	4327	[2958, 5382]	6375	[3643, 3486]
232	[451, 452]	2280	[3583, 3049]	4328	[5594, 473]	6376	[7118, 5489]
233	[453, 21]	2281	[3584, 3284]	4329	[5595, 5596]	6377	[7119, 3507]
234	[454, 455]	2282	[1471, 3585]	4330	[5597, 5598]	6378	[6105, 5653]
235	[456, 457]	2283	[3586, 1194]	4331	[5599, 2877]	6379	[1146, 3398]
236	[458, 459]	2284	[2925, 3587]	4332	[323, 1034]	6380	[7120, 5642]
237	[460, 67]	2285	[3588, 1043]	4333	[5600, 3457]	6381	[7121, 124]
238	[461, 462]	2286	[3589, 3590]	4334	[5601, 5602]	6382	[6210, 7122]
239	[463, 464]	2287	[3591, 1582]	4335	[5603, 5604]	6383	[7123, 419]
240	[465, 353]	2288	[3592, 1478]	4336	[5605, 5597]	6384	[7124, 2808]
241	[466, 467]	2289	[3593, 1276]	4337	[5606, 1599]	6385	[7125, 933]
242	[468, 469]	2290	[3405, 3594]	4338	[455, 410]	6386	[7126, 3683]
243	[470, 471]	2291	[3595, 3596]	4339	[5607, 5608]	6387	[7127, 1419]
244	[472, 473]	2292	[3597, 3503]	4340	[3968, 5609]	6388	[3887, 1529]
245	[253, 474]	2293	[1575, 917]	4341	[2692, 1493]	6389	[5303, 1384]
246	[475, 476]	2294	[3598, 3599]	4342	[309, 996]	6390	[7128, 2890]

247	[477, 478]	2295	[3600, 3149]	4343	[5610, 3361]	6391	[1429, 2659]
248	[479, 276]	2296	[3442, 3601]	4344	[5611, 5566]	6392	[3493, 3413]
249	[480, 280]	2297	[3260, 1042]	4345	[76, 1244]	6393	[7129, 1072]
250	[481, 482]	2298	[3602, 2951]	4346	[3555, 2773]	6394	[3893, 2948]
251	[483, 484]	2299	[3603, 3604]	4347	[5612, 5613]	6395	[7130, 2816]
252	[485, 486]	2300	[3605, 2826]	4348	[476, 5592]	6396	[5712, 946]
253	[487, 488]	2301	[3274, 2919]	4349	[1384, 5477]	6397	[7131, 3610]
254	[489, 490]	2302	[3606, 3255]	4350	[5614, 5615]	6398	[7132, 5361]
255	[491, 492]	2303	[3607, 2862]	4351	[5475, 5616]	6399	[7133, 7107]
256	[493, 494]	2304	[3608, 3105]	4352	[2729, 5569]	6400	[5537, 5940]
257	[495, 496]	2305	[3609, 1603]	4353	[5617, 3469]	6401	[7134, 1319]
258	[497, 498]	2306	[3610, 3611]	4354	[3102, 5618]	6402	[7135, 3469]
259	[499, 500]	2307	[3612, 1412]	4355	[5619, 1043]	6403	[6160, 3151]
260	[501, 502]	2308	[2908, 106]	4356	[354, 5620]	6404	[350, 3558]
261	[503, 504]	2309	[3613, 2863]	4357	[5621, 1597]	6405	[7136, 5323]
262	[505, 506]	2310	[3614, 478]	4358	[1556, 5396]	6406	[7137, 3141]
263	[507, 508]	2311	[3615, 3344]	4359	[5622, 5623]	6407	[3107, 1351]
264	[509, 510]	2312	[3616, 3617]	4360	[5624, 3636]	6408	[7138, 3937]
265	[511, 512]	2313	[267, 3618]	4361	[3760, 3790]	6409	[7139, 309]
266	[513, 514]	2314	[3619, 3153]	4362	[5440, 5391]	6410	[7140, 3107]
267	[515, 516]	2315	[3620, 2904]	4363	[412, 5625]	6411	[2869, 3572]
268	[517, 518]	2316	[3370, 101]	4364	[5626, 5547]	6412	[7141, 3820]
269	[519, 520]	2317	[3621, 3598]	4365	[299, 5627]	6413	[7142, 5278]
270	[521, 522]	2318	[3622, 3623]	4366	[2772, 5543]	6414	[3166, 1355]
271	[523, 524]	2319	[3624, 3625]	4367	[5628, 3653]	6415	[7143, 3484]
272	[525, 526]	2320	[3626, 2815]	4368	[5629, 1541]	6416	[7144, 1179]
273	[527, 528]	2321	[1267, 3627]	4369	[5630, 938]	6417	[7145, 5391]
274	[529, 530]	2322	[2700, 3628]	4370	[5631, 3601]	6418	[7146, 3764]
275	[531, 532]	2323	[3629, 3577]	4371	[5632, 2664]	6419	[5623, 3236]
276	[533, 534]	2324	[3630, 1005]	4372	[5633, 2914]	6420	[7147, 7148]
277	[535, 536]	2325	[3631, 3285]	4373	[2741, 5634]	6421	[3392, 5352]
278	[537, 538]	2326	[1487, 3094]	4374	[5635, 2856]	6422	[7149, 3051]
279	[539, 540]	2327	[1273, 3632]	4375	[5636, 1093]	6423	[7150, 5426]
280	[541, 532]	2328	[3633, 977]	4376	[5637, 1221]	6424	[7151, 2740]
281	[542, 226]	2329	[3634, 1592]	4377	[5638, 1321]	6425	[7152, 7153]
282	[543, 544]	2330	[329, 3635]	4378	[5639, 5640]	6426	[966, 2763]
283	[545, 546]	2331	[3636, 1003]	4379	[5641, 1265]	6427	[7154, 1173]
284	[547, 548]	2332	[3637, 3265]	4380	[5378, 5642]	6428	[7155, 460]
285	[549, 550]	2333	[3638, 3567]	4381	[5643, 5644]	6429	[2891, 6112]
286	[551, 552]	2334	[3639, 3640]	4382	[1180, 3307]	6430	[7156, 3611]
287	[553, 554]	2335	[3084, 2721]	4383	[5645, 5646]	6431	[2861, 1314]
288	[555, 556]	2336	[3641, 2710]	4384	[5647, 1137]	6432	[3445, 1438]
289	[557, 558]	2337	[3642, 3643]	4385	[112, 3900]	6433	[7157, 5570]
290	[559, 560]	2338	[3644, 1181]	4386	[5648, 1075]	6434	[7158, 5831]

291	[561, 562]	2339	[3645, 1060]	4387	[3680, 2954]	6435	[7159, 1256]
292	[563, 564]	2340	[3646, 1479]	4388	[5649, 1121]	6436	[2693, 1412]
293	[565, 566]	2341	[3647, 3648]	4389	[1208, 3590]	6437	[7160, 3794]
294	[567, 568]	2342	[3649, 3127]	4390	[5650, 3819]	6438	[7161, 3533]
295	[569, 570]	2343	[3650, 3218]	4391	[5651, 3303]	6439	[7162, 7163]
296	[571, 572]	2344	[3651, 3652]	4392	[5568, 3342]	6440	[7164, 1328]
297	[573, 574]	2345	[3279, 3653]	4393	[5652, 1113]	6441	[7165, 3598]
298	[575, 576]	2346	[3654, 2715]	4394	[5653, 1349]	6442	[7166, 467]
299	[577, 59]	2347	[3655, 1533]	4395	[1042, 5654]	6443	[7167, 1397]
300	[578, 579]	2348	[3656, 274]	4396	[5655, 3645]	6444	[7168, 3602]
301	[580, 528]	2349	[3657, 72]	4397	[1491, 1373]	6445	[7169, 5988]
302	[581, 582]	2350	[3228, 3658]	4398	[5656, 5657]	6446	[7170, 2863]
303	[583, 584]	2351	[1497, 2836]	4399	[5658, 5659]	6447	[2897, 3785]
304	[585, 586]	2352	[402, 3659]	4400	[5660, 312]	6448	[5625, 1407]
305	[587, 588]	2353	[3660, 3661]	4401	[3333, 5604]	6449	[7171, 3367]
306	[589, 590]	2354	[3662, 3663]	4402	[5590, 3186]	6450	[7172, 3311]
307	[591, 592]	2355	[3664, 3124]	4403	[104, 3645]	6451	[423, 3586]
308	[593, 594]	2356	[2657, 3477]	4404	[5661, 2744]	6452	[7173, 1101]
309	[595, 596]	2357	[2659, 3305]	4405	[5662, 2750]	6453	[1004, 6105]
310	[597, 493]	2358	[3389, 1366]	4406	[5663, 2999]	6454	[7174, 7175]
311	[598, 599]	2359	[3665, 3666]	4407	[1071, 287]	6455	[7176, 457]
312	[600, 601]	2360	[3667, 1272]	4408	[1437, 3744]	6456	[7177, 1250]
313	[602, 603]	2361	[964, 1076]	4409	[5664, 5665]	6457	[7178, 1245]
314	[604, 233]	2362	[3668, 3046]	4410	[1034, 1358]	6458	[3341, 1015]
315	[605, 606]	2363	[3669, 3135]	4411	[2743, 2993]	6459	[7179, 3535]
316	[607, 608]	2364	[3670, 3671]	4412	[5666, 2669]	6460	[7180, 7181]
317	[609, 610]	2365	[1300, 3672]	4413	[5667, 5668]	6461	[7182, 1349]
318	[611, 612]	2366	[3673, 3674]	4414	[3154, 5669]	6462	[7183, 3862]
319	[613, 614]	2367	[3675, 3030]	4415	[5670, 2680]	6463	[7184, 3886]
320	[203, 615]	2368	[3676, 1143]	4416	[3268, 3936]	6464	[7185, 1387]
321	[616, 617]	2369	[3677, 3678]	4417	[3382, 1026]	6465	[5543, 5885]
322	[618, 619]	2370	[3679, 3680]	4418	[2780, 89]	6466	[7186, 3456]
323	[620, 621]	2371	[3681, 3682]	4419	[5671, 1446]	6467	[7187, 2661]
324	[622, 623]	2372	[3317, 3683]	4420	[5672, 2695]	6468	[7188, 5823]
325	[624, 625]	2373	[3684, 1399]	4421	[5673, 1442]	6469	[7189, 255]
326	[626, 627]	2374	[3685, 3686]	4422	[5674, 5675]	6470	[1161, 3696]
327	[628, 629]	2375	[919, 1301]	4423	[5676, 904]	6471	[933, 5691]
328	[630, 631]	2376	[3687, 2913]	4424	[5677, 3190]	6472	[7190, 113]
329	[632, 633]	2377	[3688, 3689]	4425	[3294, 2686]	6473	[7191, 6031]
330	[634, 635]	2378	[1534, 3515]	4426	[5678, 3445]	6474	[5746, 3091]
331	[636, 637]	2379	[3690, 3630]	4427	[3427, 922]	6475	[7192, 7193]
332	[638, 639]	2380	[3691, 439]	4428	[5679, 5680]	6476	[7194, 6184]
333	[640, 641]	2381	[3507, 115]	4429	[5681, 3420]	6477	[7195, 3502]
334	[642, 643]	2382	[3692, 2851]	4430	[3792, 5413]	6478	[7196, 3059]

335	[644, 645]	2383	[3693, 3694]	4431	[5682, 468]	6479	[2966, 6205]
336	[646, 647]	2384	[3695, 3696]	4432	[5372, 5683]	6480	[7197, 2921]
337	[648, 135]	2385	[3217, 3697]	4433	[5684, 1212]	6481	[7198, 1004]
338	[649, 650]	2386	[3698, 388]	4434	[5685, 3738]	6482	[7199, 118]
339	[651, 652]	2387	[3699, 3700]	4435	[5686, 5687]	6483	[937, 3669]
340	[653, 654]	2388	[1528, 3592]	4436	[5688, 1241]	6484	[7200, 2792]
341	[655, 656]	2389	[3648, 3701]	4437	[3549, 1242]	6485	[3303, 3896]
342	[657, 658]	2390	[3702, 3703]	4438	[3271, 3017]	6486	[7201, 3719]
343	[659, 660]	2391	[3704, 1400]	4439	[5689, 3727]	6487	[3144, 5878]
344	[661, 662]	2392	[3425, 3705]	4440	[1480, 3430]	6488	[7202, 1224]
345	[663, 664]	2393	[3706, 3707]	4441	[5690, 1490]	6489	[3652, 5822]
346	[665, 226]	2394	[3708, 991]	4442	[5691, 5393]	6490	[7203, 3232]
347	[666, 667]	2395	[3709, 1106]	4443	[5692, 3638]	6491	[3040, 3858]
348	[668, 669]	2396	[3710, 3711]	4444	[6, 3224]	6492	[7204, 3209]
349	[670, 671]	2397	[3712, 1198]	4445	[5693, 5694]	6493	[3120, 2680]
350	[672, 673]	2398	[3358, 3713]	4446	[5695, 5569]	6494	[7205, 6097]
351	[674, 186]	2399	[1413, 3115]	4447	[5696, 3838]	6495	[5816, 7206]
352	[675, 676]	2400	[3714, 1224]	4448	[3252, 2784]	6496	[7207, 2728]
353	[677, 237]	2401	[3715, 3716]	4449	[5697, 3177]	6497	[7208, 923]
354	[678, 508]	2402	[3717, 3527]	4450	[5698, 2757]	6498	[3599, 7181]
355	[679, 680]	2403	[3718, 3719]	4451	[2750, 1346]	6499	[1169, 1369]
356	[681, 682]	2404	[404, 1063]	4452	[5699, 2928]	6500	[2686, 7209]
357	[683, 684]	2405	[1403, 2983]	4453	[3653, 266]	6501	[6086, 3815]
358	[685, 686]	2406	[1400, 1395]	4454	[5700, 115]	6502	[2840, 3054]
359	[233, 9]	2407	[3720, 3721]	4455	[5701, 1390]	6503	[5604, 1570]
360	[687, 688]	2408	[396, 3722]	4456	[5702, 1292]	6504	[2688, 7210]
361	[689, 690]	2409	[3723, 3715]	4457	[5703, 3791]	6505	[7211, 3251]
362	[691, 692]	2410	[906, 404]	4458	[2746, 2706]	6506	[7212, 3069]
363	[693, 694]	2411	[1396, 1594]	4459	[5704, 3932]	6507	[7213, 3405]
364	[695, 696]	2412	[1063, 3724]	4460	[5705, 3790]	6508	[7214, 2778]
365	[697, 698]	2413	[3528, 1397]	4461	[5706, 1058]	6509	[7215, 3191]
366	[699, 700]	2414	[3725, 3726]	4462	[3075, 5707]	6510	[7216, 3689]
367	[701, 702]	2415	[3156, 3727]	4463	[3954, 3062]	6511	[7217, 3583]
368	[703, 704]	2416	[1419, 3728]	4464	[5708, 5356]	6512	[7218, 2796]
369	[705, 706]	2417	[3729, 1151]	4465	[5709, 1048]	6513	[7219, 2844]
370	[707, 708]	2418	[3730, 960]	4466	[3568, 1577]	6514	[7220, 1548]
371	[709, 710]	2419	[406, 437]	4467	[3640, 5710]	6515	[7221, 5456]
372	[711, 712]	2420	[3731, 3182]	4468	[5711, 1248]	6516	[7222, 381]
373	[713, 714]	2421	[3732, 3733]	4469	[3789, 1591]	6517	[1464, 1285]
374	[715, 716]	2422	[3734, 3735]	4470	[452, 2846]	6518	[7223, 5697]
375	[717, 718]	2423	[301, 3736]	4471	[3380, 5712]	6519	[7224, 3070]
376	[719, 183]	2424	[3737, 3738]	4472	[5713, 5394]	6520	[7225, 1596]
377	[720, 674]	2425	[3739, 1302]	4473	[5714, 3557]	6521	[7226, 3026]
378	[721, 722]	2426	[251, 3663]	4474	[1569, 5579]	6522	[2769, 6203]

379	[723, 724]	2427	[3740, 3741]	4475	[5715, 5716]	6523	[7227, 3769]
380	[725, 726]	2428	[3742, 3743]	4476	[5717, 5718]	6524	[7228, 1052]
381	[727, 728]	2429	[3744, 3745]	4477	[921, 965]	6525	[7229, 3006]
382	[729, 730]	2430	[3746, 1401]	4478	[5719, 5720]	6526	[7230, 3883]
383	[731, 732]	2431	[2674, 1404]	4479	[5721, 2849]	6527	[3765, 1226]
384	[733, 734]	2432	[3727, 1402]	4480	[5722, 396]	6528	[7231, 6287]
385	[735, 736]	2433	[3747, 3717]	4481	[291, 2894]	6529	[2893, 3442]
386	[737, 738]	2434	[3748, 3749]	4482	[5723, 3681]	6530	[2714, 2871]
387	[739, 740]	2435	[3750, 3751]	4483	[1067, 5724]	6531	[7232, 5803]
388	[741, 742]	2436	[3752, 254]	4484	[5725, 3973]	6532	[7233, 3274]
389	[743, 744]	2437	[3753, 3167]	4485	[66, 3520]	6533	[5488, 5981]
390	[745, 746]	2438	[3683, 1047]	4486	[5726, 5727]	6534	[7234, 3816]
391	[747, 748]	2439	[88, 27]	4487	[5728, 3192]	6535	[5642, 5613]
392	[749, 750]	2440	[1336, 278]	4488	[3678, 1259]	6536	[7235, 1474]
393	[751, 752]	2441	[3754, 2746]	4489	[974, 3064]	6537	[3440, 1484]
394	[753, 754]	2442	[3755, 3302]	4490	[3816, 261]	6538	[7236, 5807]
395	[755, 756]	2443	[3756, 427]	4491	[5710, 1559]	6539	[7237, 6250]
396	[757, 758]	2444	[3757, 3758]	4492	[2792, 3172]	6540	[5978, 3853]
397	[759, 760]	2445	[3323, 3759]	4493	[1287, 2828]	6541	[98, 2684]
398	[761, 762]	2446	[3206, 3760]	4494	[5729, 1584]	6542	[3119, 3397]
399	[763, 191]	2447	[3761, 2818]	4495	[5730, 5731]	6543	[7238, 3108]
400	[764, 765]	2448	[1173, 1557]	4496	[3457, 3427]	6544	[7239, 421]
401	[766, 767]	2449	[1175, 3213]	4497	[5732, 77]	6545	[6189, 2679]
402	[768, 769]	2450	[3762, 1301]	4498	[5733, 1214]	6546	[7240, 3416]
403	[770, 771]	2451	[3096, 1308]	4499	[437, 3739]	6547	[7241, 3219]
404	[772, 773]	2452	[3763, 3317]	4500	[5734, 5374]	6548	[7242, 5753]
405	[774, 775]	2453	[3764, 3765]	4501	[5735, 1489]	6549	[1517, 3680]
406	[776, 777]	2454	[3766, 3767]	4502	[5736, 3332]	6550	[6016, 1192]
407	[718, 778]	2455	[3768, 3769]	4503	[5737, 1275]	6551	[7243, 7244]
408	[779, 509]	2456	[3770, 3771]	4504	[5738, 5557]	6552	[7245, 5681]
409	[780, 511]	2457	[3772, 3377]	4505	[5739, 5740]	6553	[1407, 5546]
410	[781, 782]	2458	[3773, 1032]	4506	[5741, 5742]	6554	[7246, 5965]
411	[783, 160]	2459	[3310, 3774]	4507	[5743, 3599]	6555	[6199, 3493]
412	[784, 785]	2460	[3775, 1562]	4508	[904, 1580]	6556	[7247, 5397]
413	[786, 581]	2461	[3776, 2961]	4509	[3515, 5488]	6557	[7248, 3586]
414	[787, 788]	2462	[1358, 3370]	4510	[3738, 5744]	6558	[7249, 3946]
415	[789, 790]	2463	[3777, 921]	4511	[5745, 5746]	6559	[7250, 2758]
416	[791, 792]	2464	[3705, 1479]	4512	[5747, 3520]	6560	[7251, 3081]
417	[793, 794]	2465	[3111, 3228]	4513	[1439, 2861]	6561	[7252, 2911]
418	[795, 796]	2466	[3778, 360]	4514	[1122, 2841]	6562	[7253, 288]
419	[797, 745]	2467	[3658, 3779]	4515	[5748, 3563]	6563	[7254, 3015]
420	[798, 799]	2468	[3780, 444]	4516	[3833, 5749]	6564	[7255, 1573]
421	[800, 801]	2469	[3781, 3613]	4517	[3824, 430]	6565	[20, 5869]
422	[802, 803]	2470	[3003, 1322]	4518	[5750, 1578]	6566	[7256, 5564]

423	[804, 805]	2471	[1221, 3782]	4519	[5751, 3717]	6567	[7257, 3657]
424	[806, 807]	2472	[3783, 3178]	4520	[5752, 2905]	6568	[5325, 2831]
425	[728, 714]	2473	[3168, 1563]	4521	[988, 5753]	6569	[7258, 5519]
426	[808, 809]	2474	[3784, 3785]	4522	[1502, 3463]	6570	[7259, 366]
427	[810, 811]	2475	[3786, 3787]	4523	[5754, 2697]	6571	[3533, 332]
428	[812, 813]	2476	[3788, 289]	4524	[5755, 3969]	6572	[949, 3797]
429	[814, 815]	2477	[1539, 3789]	4525	[259, 3223]	6573	[7260, 1322]
430	[816, 817]	2478	[3790, 3791]	4526	[5756, 5757]	6574	[3232, 3037]
431	[156, 818]	2479	[1516, 3688]	4527	[1494, 5758]	6575	[5313, 1151]
432	[819, 820]	2480	[3006, 3792]	4528	[5759, 2920]	6576	[360, 4]
433	[821, 822]	2481	[3793, 415]	4529	[5760, 5761]	6577	[7261, 3584]
434	[823, 824]	2482	[3794, 1152]	4530	[5762, 350]	6578	[7262, 1430]
435	[825, 229]	2483	[3795, 3796]	4531	[5763, 1036]	6579	[7263, 2990]
436	[826, 827]	2484	[3797, 3798]	4532	[5764, 304]	6580	[7264, 3238]
437	[775, 828]	2485	[295, 3086]	4533	[5765, 1180]	6581	[7265, 89]
438	[829, 830]	2486	[3799, 1525]	4534	[5766, 3588]	6582	[2737, 1269]
439	[831, 832]	2487	[3800, 395]	4535	[5767, 5768]	6583	[7266, 3671]
440	[833, 631]	2488	[3801, 3802]	4536	[5769, 3635]	6584	[1289, 5701]
441	[834, 161]	2489	[3803, 1084]	4537	[1467, 3372]	6585	[7267, 1064]
442	[835, 658]	2490	[3804, 3805]	4538	[5770, 281]	6586	[3290, 5474]
443	[836, 516]	2491	[3806, 3807]	4539	[5771, 3413]	6587	[2950, 2963]
444	[837, 838]	2492	[3808, 3809]	4540	[5772, 5431]	6588	[7268, 1307]
445	[839, 840]	2493	[3810, 3489]	4541	[5773, 5749]	6589	[7269, 1239]
446	[841, 842]	2494	[3811, 3706]	4542	[5774, 5367]	6590	[6125, 5757]
447	[843, 814]	2495	[2765, 2708]	4543	[3853, 3583]	6591	[3672, 7270]
448	[694, 844]	2496	[3812, 3813]	4544	[5775, 5441]	6592	[7271, 362]
449	[845, 846]	2497	[3814, 3815]	4545	[5776, 5777]	6593	[392, 2733]
450	[847, 848]	2498	[3066, 3816]	4546	[5778, 2726]	6594	[1013, 2677]
451	[849, 850]	2499	[3505, 3591]	4547	[5779, 2828]	6595	[3697, 82]
452	[851, 852]	2500	[3817, 3818]	4548	[5780, 985]	6596	[7272, 2743]
453	[853, 45]	2501	[3819, 3820]	4549	[1373, 5781]	6597	[7273, 3746]
454	[854, 855]	2502	[3821, 3058]	4550	[5782, 5783]	6598	[7148, 272]
455	[856, 857]	2503	[1055, 2839]	4551	[5784, 2825]	6599	[1141, 3889]
456	[858, 859]	2504	[3822, 1425]	4552	[5785, 3217]	6600	[7274, 972]
457	[860, 861]	2505	[3823, 67]	4553	[5786, 5787]	6601	[7275, 1344]
458	[862, 863]	2506	[3818, 3824]	4554	[3694, 1556]	6602	[7276, 3609]
459	[864, 865]	2507	[1371, 296]	4555	[2802, 952]	6603	[7277, 3628]
460	[866, 867]	2508	[3825, 3697]	4556	[5314, 5376]	6604	[7278, 2790]
461	[868, 869]	2509	[3663, 3826]	4557	[5788, 2772]	6605	[3114, 2701]
462	[870, 871]	2510	[3827, 3643]	4558	[5789, 5790]	6606	[7279, 2976]
463	[872, 637]	2511	[3828, 1566]	4559	[5791, 3776]	6607	[2999, 3926]
464	[652, 873]	2512	[3829, 1231]	4560	[5792, 1240]	6608	[7280, 5528]
465	[874, 875]	2513	[3022, 3818]	4561	[5793, 3858]	6609	[7281, 1073]
466	[876, 877]	2514	[1344, 3624]	4562	[1075, 2921]	6610	[2754, 1177]

467	[878, 879]	2515	[3830, 3831]	4563	[5794, 387]	6611	[5878, 435]
468	[880, 881]	2516	[3832, 3833]	4564	[419, 389]	6612	[7282, 1120]
469	[824, 882]	2517	[1202, 1505]	4565	[5795, 5796]	6613	[7283, 3910]
470	[883, 884]	2518	[3834, 2806]	4566	[5444, 3706]	6614	[7284, 3714]
471	[885, 886]	2519	[3831, 3835]	4567	[5797, 2829]	6615	[7285, 5377]
472	[887, 888]	2520	[2681, 2805]	4568	[5798, 5685]	6616	[7286, 990]
473	[889, 890]	2521	[3836, 3700]	4569	[5799, 268]	6617	[1451, 2745]
474	[486, 891]	2522	[3837, 3838]	4570	[5800, 1310]	6618	[7287, 1195]
475	[892, 546]	2523	[3839, 3163]	4571	[5801, 5326]	6619	[1182, 7163]
476	[893, 894]	2524	[3327, 3026]	4572	[3057, 3357]	6620	[3395, 3301]
477	[895, 896]	2525	[3840, 3151]	4573	[5802, 3446]	6621	[7288, 1374]
478	[897, 898]	2526	[3841, 2868]	4574	[5803, 1482]	6622	[3779, 7193]
479	[899, 535]	2527	[3842, 3843]	4575	[5804, 927]	6623	[7289, 1145]
480	[900, 542]	2528	[2882, 3844]	4576	[5805, 1582]	6624	[7290, 2900]
481	[901, 902]	2529	[3845, 2832]	4577	[5806, 5534]	6625	[3519, 5555]
482	[903, 904]	2530	[3846, 3648]	4578	[3454, 3468]	6626	[7291, 1253]
483	[905, 906]	2531	[3749, 3847]	4579	[5287, 5648]	6627	[1278, 5919]
484	[907, 908]	2532	[3848, 3725]	4580	[5807, 1294]	6628	[7292, 3655]
485	[909, 910]	2533	[3849, 2691]	4581	[5808, 1113]	6629	[5575, 1256]
486	[911, 912]	2534	[3601, 3850]	4582	[378, 88]	6630	[7293, 7294]
487	[913, 914]	2535	[3851, 1092]	4583	[3973, 5733]	6631	[7295, 3756]
488	[370, 915]	2536	[3852, 3853]	4584	[5809, 2889]	6632	[7296, 7297]
489	[916, 917]	2537	[3854, 3844]	4585	[5810, 389]	6633	[7298, 1208]
490	[918, 919]	2538	[3855, 1057]	4586	[3570, 2969]	6634	[978, 3743]
491	[920, 921]	2539	[3856, 1207]	4587	[5811, 5623]	6635	[7299, 402]
492	[922, 923]	2540	[3857, 2814]	4588	[5812, 3266]	6636	[7153, 7239]
493	[924, 925]	2541	[2979, 1313]	4589	[5813, 2935]	6637	[7300, 3664]
494	[926, 927]	2542	[3858, 3069]	4590	[5814, 2700]	6638	[7301, 1376]
495	[928, 929]	2543	[1103, 400]	4591	[5815, 5816]	6639	[7302, 3859]
496	[930, 931]	2544	[3859, 3860]	4592	[3043, 5796]	6640	[7303, 7118]
497	[932, 933]	2545	[3861, 352]	4593	[3798, 3122]	6641	[7304, 5376]
498	[934, 935]	2546	[3862, 1474]	4594	[2878, 1288]	6642	[2901, 1131]
499	[936, 937]	2547	[3863, 3057]	4595	[5817, 68]	6643	[1313, 5688]
500	[938, 939]	2548	[2917, 3864]	4596	[5818, 1220]	6644	[943, 6039]
501	[940, 941]	2549	[16, 3478]	4597	[5819, 2895]	6645	[7305, 5568]
502	[942, 943]	2550	[3865, 3454]	4598	[5820, 332]	6646	[7306, 397]
503	[944, 945]	2551	[3866, 3460]	4599	[5821, 5822]	6647	[1225, 940]
504	[946, 947]	2552	[3867, 1539]	4600	[5823, 956]	6648	[7307, 918]
505	[948, 949]	2553	[3868, 3869]	4601	[5824, 1021]	6649	[313, 338]
506	[950, 951]	2554	[3870, 3871]	4602	[5825, 1007]	6650	[3944, 3185]
507	[952, 953]	2555	[3872, 3452]	4603	[5826, 5827]	6651	[1050, 3111]
508	[331, 954]	2556	[3525, 3873]	4604	[3933, 1286]	6652	[7308, 2742]
509	[955, 956]	2557	[3874, 3875]	4605	[1537, 5828]	6653	[2833, 5350]
510	[957, 958]	2558	[448, 3876]	4606	[5305, 2913]	6654	[7209, 306]

511	[959, 960]	2559	[3877, 3878]	4607	[3314, 1468]	6655	[7309, 2952]
512	[961, 962]	2560	[3879, 1215]	4608	[5829, 5830]	6656	[3813, 5883]
513	[963, 964]	2561	[430, 3444]	4609	[28, 1045]	6657	[7310, 3522]
514	[965, 966]	2562	[3880, 902]	4610	[2855, 5831]	6658	[7311, 1586]
515	[967, 968]	2563	[2752, 93]	4611	[5832, 5593]	6659	[7312, 1506]
516	[969, 970]	2564	[3774, 456]	4612	[5833, 2798]	6660	[3767, 5925]
517	[971, 972]	2565	[3881, 1371]	4613	[5834, 3581]	6661	[7313, 7239]
518	[973, 974]	2566	[3882, 1451]	4614	[2671, 2989]	6662	[2796, 3423]
519	[975, 976]	2567	[3883, 3884]	4615	[5835, 3146]	6663	[3581, 121]
520	[977, 978]	2568	[3885, 1115]	4616	[5836, 5837]	6664	[7314, 5706]
521	[979, 980]	2569	[3886, 3887]	4617	[986, 1514]	6665	[7315, 1182]
522	[981, 982]	2570	[3888, 3889]	4618	[3917, 18]	6666	[7316, 3842]
523	[983, 984]	2571	[2952, 3664]	4619	[5838, 2799]	6667	[7317, 2813]
524	[985, 986]	2572	[390, 3890]	4620	[5839, 5562]	6668	[7318, 398]
525	[987, 988]	2573	[3820, 3209]	4621	[5840, 910]	6669	[5740, 5404]
526	[989, 990]	2574	[3572, 1444]	4622	[5841, 1411]	6670	[3149, 1261]
527	[991, 992]	2575	[3891, 3224]	4623	[3138, 3517]	6671	[7319, 6191]
528	[993, 994]	2576	[3892, 3893]	4624	[5842, 5337]	6672	[1011, 372]
529	[995, 996]	2577	[3894, 3187]	4625	[5843, 3366]	6673	[2904, 7320]
530	[997, 998]	2578	[3895, 3896]	4626	[457, 376]	6674	[7321, 333]
531	[999, 1000]	2579	[3897, 2901]	4627	[5844, 1404]	6675	[7322, 1103]
532	[1001, 1002]	2580	[3898, 311]	4628	[5845, 279]	6676	[5952, 1490]
533	[1003, 1004]	2581	[3899, 3900]	4629	[5846, 3654]	6677	[2756, 5523]
534	[1005, 438]	2582	[3901, 1382]	4630	[3431, 3408]	6678	[7323, 1017]
535	[1006, 1007]	2583	[3902, 3903]	4631	[5847, 5683]	6679	[7324, 5429]
536	[1008, 1009]	2584	[3904, 3362]	4632	[1120, 3381]	6680	[7325, 3465]
537	[1010, 1011]	2585	[3905, 2851]	4633	[5742, 1050]	6681	[7326, 3720]
538	[1012, 1013]	2586	[1335, 1102]	4634	[3038, 5802]	6682	[3590, 361]
539	[1014, 1015]	2587	[3906, 3618]	4635	[3587, 3570]	6683	[7327, 3066]
540	[1016, 1017]	2588	[3907, 3908]	4636	[5848, 3849]	6684	[1462, 6280]
541	[1018, 1019]	2589	[3909, 3885]	4637	[5849, 5310]	6685	[7328, 2936]
542	[1020, 1021]	2590	[1549, 3886]	4638	[5850, 1395]	6686	[3305, 3954]
543	[315, 1022]	2591	[3910, 3011]	4639	[5851, 5852]	6687	[3034, 1024]
544	[1023, 1024]	2592	[3911, 1450]	4640	[305, 1497]	6688	[3288, 3509]
545	[1025, 1026]	2593	[3912, 3913]	4641	[3065, 3022]	6689	[7329, 3153]
546	[1027, 1028]	2594	[996, 2665]	4642	[5853, 5854]	6690	[6019, 5408]
547	[1029, 1030]	2595	[3914, 1585]	4643	[5855, 3164]	6691	[5430, 2825]
548	[1031, 1032]	2596	[3915, 2692]	4644	[1605, 2799]	6692	[7330, 3394]
549	[1033, 1034]	2597	[3916, 3917]	4645	[3666, 1486]	6693	[7331, 1272]
550	[1035, 1036]	2598	[3918, 2722]	4646	[5856, 3212]	6694	[7332, 3025]
551	[1037, 1038]	2599	[3536, 2739]	4647	[3743, 1319]	6695	[7333, 5951]
552	[1039, 1040]	2600	[3919, 3647]	4648	[5857, 5858]	6696	[7334, 1423]
553	[1041, 1042]	2601	[2712, 977]	4649	[2981, 5859]	6697	[7335, 1156]
554	[1043, 1044]	2602	[3920, 3921]	4650	[3713, 3341]	6698	[7336, 2960]

555	[1045, 1046]	2603	[3922, 3923]	4651	[92, 5860]	6699	[7337, 3716]
556	[1047, 1048]	2604	[3924, 3526]	4652	[5720, 3355]	6700	[7338, 7206]
557	[1049, 1050]	2605	[2960, 3600]	4653	[5861, 3592]	6701	[7339, 925]
558	[1051, 1052]	2606	[3925, 3619]	4654	[5862, 5358]	6702	[3325, 5730]
559	[1053, 416]	2607	[3926, 3740]	4655	[1588, 5436]	6703	[7340, 7210]
560	[1054, 1055]	2608	[3927, 3798]	4656	[5863, 417]	6704	[3869, 3613]
561	[1056, 1057]	2609	[3928, 3381]	4657	[5864, 5325]	6705	[7341, 7270]
562	[1058, 432]	2610	[3929, 3930]	4658	[5865, 3860]	6706	[2936, 2782]
563	[1059, 1060]	2611	[3931, 3932]	4659	[5866, 5420]	6707	[7342, 1314]
564	[1061, 433]	2612	[2726, 3933]	4660	[5867, 3199]	6708	[7343, 1147]
565	[1062, 1063]	2613	[3934, 2775]	4661	[5868, 5869]	6709	[362, 1275]
566	[1064, 1065]	2614	[3935, 3936]	4662	[5441, 5427]	6710	[7344, 1587]
567	[1066, 1067]	2615	[2990, 3483]	4663	[3878, 3025]	6711	[7345, 1598]
568	[1068, 1069]	2616	[3937, 3226]	4664	[5870, 5871]	6712	[3838, 2875]
569	[1070, 1071]	2617	[1521, 3938]	4665	[3860, 3912]	6713	[1457, 3171]
570	[1072, 1073]	2618	[3939, 1327]	4666	[5872, 3712]	6714	[7346, 1503]
571	[1074, 1075]	2619	[3940, 1216]	4667	[5873, 3843]	6715	[7347, 6196]
572	[1076, 1077]	2620	[3941, 1549]	4668	[5874, 2968]	6716	[1459, 3322]
573	[1078, 1079]	2621	[3942, 922]	4669	[5875, 3211]	6717	[5854, 3347]
574	[1080, 1081]	2622	[3701, 3943]	4670	[2995, 3306]	6718	[1350, 3921]
575	[1082, 1083]	2623	[2910, 3944]	4671	[5560, 5876]	6719	[7348, 3458]
576	[1084, 1085]	2624	[3945, 3908]	4672	[5877, 5878]	6720	[7349, 321]
577	[1086, 1087]	2625	[3938, 3946]	4673	[2826, 5320]	6721	[7350, 2847]
578	[1088, 1089]	2626	[3947, 3875]	4674	[1216, 5307]	6722	[5654, 3053]
579	[1090, 1091]	2627	[3948, 3949]	4675	[5879, 5523]	6723	[7351, 5333]
580	[1092, 1093]	2628	[3950, 119]	4676	[5880, 5291]	6724	[3189, 3309]
581	[1094, 1095]	2629	[3951, 432]	4677	[3696, 5528]	6725	[7352, 1205]
582	[1096, 1097]	2630	[3952, 967]	4678	[5881, 1115]	6726	[1196, 7353]
583	[1098, 455]	2631	[3953, 3954]	4679	[5882, 5883]	6727	[7354, 5654]
584	[1099, 295]	2632	[3955, 2665]	4680	[5884, 5885]	6728	[1378, 5800]
585	[1100, 1101]	2633	[3956, 271]	4681	[5886, 2818]	6729	[5727, 405]
586	[1102, 1103]	2634	[3957, 3958]	4682	[5887, 5529]	6730	[7355, 2837]
587	[931, 1104]	2635	[2759, 3773]	4683	[5888, 1519]	6731	[3785, 3058]
588	[1105, 1106]	2636	[3073, 3959]	4684	[5889, 3541]	6732	[5320, 2877]
589	[1107, 1044]	2637	[3908, 3960]	4685	[5890, 5724]	6733	[7356, 7357]
590	[24, 1108]	2638	[3721, 3961]	4686	[5316, 5329]	6734	[7358, 341]
591	[1109, 1110]	2639	[3728, 3746]	4687	[5400, 1461]	6735	[7359, 1431]
592	[1111, 1112]	2640	[3962, 2882]	4688	[5891, 3252]	6736	[3884, 5501]
593	[1113, 1114]	2641	[3659, 1361]	4689	[3596, 3580]	6737	[7360, 2894]
594	[1115, 1116]	2642	[3501, 2751]	4690	[5892, 998]	6738	[5919, 3879]
595	[1117, 1118]	2643	[3963, 1350]	4691	[5893, 2718]	6739	[7361, 2698]
596	[1119, 1120]	2644	[3964, 3307]	4692	[1234, 5894]	6740	[7362, 1370]
597	[1121, 1122]	2645	[3965, 2884]	4693	[5895, 3359]	6741	[5981, 5335]
598	[1123, 1124]	2646	[3966, 1086]	4694	[5896, 3670]	6742	[7363, 5860]

599	[982, 1125]	2647	[3967, 3968]	4695	[5897, 3067]	6743	[7364, 5549]
600	[1126, 1127]	2648	[3969, 3970]	4696	[3255, 383]	6744	[7365, 3705]
601	[1128, 1129]	2649	[2760, 3971]	4697	[444, 5898]	6745	[7366, 1080]
602	[1130, 461]	2650	[2975, 1589]	4698	[5899, 3855]	6746	[7367, 343]
603	[1131, 1132]	2651	[3972, 3973]	4699	[5900, 94]	6747	[7368, 466]
604	[1133, 1134]	2652	[3974, 3975]	4700	[5901, 5714]	6748	[5593, 1071]
605	[1135, 1136]	2653	[3976, 2795]	4701	[5902, 28]	6749	[953, 5748]
606	[1137, 1138]	2654	[3977, 358]	4702	[3896, 5903]	6750	[7369, 3561]
607	[1139, 390]	2655	[3439, 318]	4703	[3661, 5904]	6751	[7370, 3765]
608	[1140, 1141]	2656	[504, 3978]	4704	[5299, 5699]	6752	[3347, 3456]
609	[1142, 1143]	2657	[3979, 3980]	4705	[1530, 3249]	6753	[7371, 120]
610	[1144, 312]	2658	[2353, 3981]	4706	[3108, 1551]	6754	[7372, 1311]
611	[1145, 1146]	2659	[3982, 740]	4707	[5905, 1550]	6755	[7373, 1149]
612	[1147, 1148]	2660	[3983, 3984]	4708	[5906, 962]	6756	[7374, 3429]
613	[1149, 1150]	2661	[2173, 1977]	4709	[5907, 296]	6757	[7375, 1013]
614	[1151, 108]	2662	[3985, 3986]	4710	[5908, 2765]	6758	[7206, 3771]
615	[1152, 1153]	2663	[3987, 870]	4711	[2662, 468]	6759	[7376, 3408]
616	[1154, 1155]	2664	[3988, 2625]	4712	[3062, 5629]	6760	[7377, 3656]
617	[285, 1156]	2665	[596, 3989]	4713	[1143, 5909]	6761	[5449, 2992]
618	[1157, 250]	2666	[3990, 3991]	4714	[400, 1097]	6762	[2822, 1079]
619	[1158, 1159]	2667	[3992, 3993]	4715	[5602, 2689]	6763	[5883, 1333]
620	[1160, 1161]	2668	[3994, 54]	4716	[5852, 5754]	6764	[7378, 5846]
621	[1162, 1163]	2669	[3995, 1955]	4717	[5910, 5911]	6765	[1523, 5644]
622	[1164, 1165]	2670	[3996, 3997]	4718	[5912, 3970]	6766	[7379, 5731]
623	[1166, 1167]	2671	[3998, 3999]	4719	[5913, 5800]	6767	[7380, 3627]
624	[1168, 1169]	2672	[4000, 762]	4720	[3635, 3008]	6768	[7381, 3470]
625	[1170, 1171]	2673	[4001, 4002]	4721	[2669, 96]	6769	[7382, 3778]
626	[1172, 1173]	2674	[4003, 2416]	4722	[3081, 5310]	6770	[2946, 5390]
627	[1174, 1175]	2675	[4004, 815]	4723	[5914, 1462]	6771	[7383, 5575]
628	[1176, 940]	2676	[4005, 574]	4724	[5915, 3558]	6772	[462, 5429]
629	[1177, 1178]	2677	[1804, 4006]	4725	[5916, 1518]	6773	[7384, 3912]
630	[1179, 1180]	2678	[4007, 2441]	4726	[3245, 3519]	6774	[7385, 947]
631	[1181, 1182]	2679	[4008, 4009]	4727	[956, 988]	6775	[2954, 1464]
632	[1183, 1184]	2680	[4010, 220]	4728	[2992, 2809]	6776	[7386, 3587]
633	[1185, 973]	2681	[4011, 4012]	4729	[5917, 5859]	6777	[7387, 3167]
634	[1186, 1187]	2682	[4013, 780]	4730	[5869, 5727]	6778	[7388, 5672]
635	[1188, 1189]	2683	[4014, 2474]	4731	[5918, 5919]	6779	[7389, 3803]
636	[1190, 1191]	2684	[4015, 782]	4732	[5920, 3018]	6780	[7320, 259]
637	[1192, 1193]	2685	[4016, 4017]	4733	[5828, 262]	6781	[7390, 6147]
638	[1194, 1195]	2686	[734, 4018]	4734	[255, 2987]	6782	[5830, 5402]
639	[106, 1196]	2687	[4019, 4020]	4735	[5921, 5922]	6783	[7391, 915]
640	[1197, 1198]	2688	[4021, 4022]	4736	[5923, 1526]	6784	[7392, 1402]
641	[1199, 1200]	2689	[4023, 2483]	4737	[1021, 3555]	6785	[7393, 2899]
642	[1201, 1202]	2690	[4024, 2356]	4738	[5924, 5925]	6786	[5876, 3575]

643	[1203, 1204]	2691	[4025, 4026]	4739	[5926, 1110]	6787	[7394, 391]
644	[1205, 1206]	2692	[4027, 2524]	4740	[3187, 1472]	6788	[3068, 5824]
645	[1207, 1208]	2693	[128, 2426]	4741	[5927, 1299]	6789	[7395, 1108]
646	[1209, 1210]	2694	[4028, 4029]	4742	[5928, 1236]	6790	[7396, 3162]
647	[1211, 1212]	2695	[4030, 4031]	4743	[5929, 3715]	6791	[2903, 123]
648	[1213, 1214]	2696	[4032, 4033]	4744	[5930, 2949]	6792	[6040, 2981]
649	[1215, 1216]	2697	[4034, 1738]	4745	[5931, 1045]	6793	[7397, 7398]
650	[1204, 1217]	2698	[4035, 4036]	4746	[5932, 267]	6794	[2997, 7153]
651	[1218, 1219]	2699	[4037, 2647]	4747	[5933, 5934]	6795	[3782, 2896]
652	[1220, 1221]	2700	[2357, 4038]	4748	[3835, 961]	6796	[2725, 416]
653	[1222, 1223]	2701	[4039, 4040]	4749	[3032, 5935]	6797	[3216, 7297]
654	[1224, 1225]	2702	[4041, 4042]	4750	[5936, 392]	6798	[7399, 3779]
655	[1226, 320]	2703	[4043, 4044]	4751	[5937, 3736]	6799	[1106, 6070]
656	[1227, 1228]	2704	[4045, 497]	4752	[5938, 951]	6800	[7400, 3254]
657	[1229, 1230]	2705	[4046, 4047]	4753	[5939, 5940]	6801	[7401, 345]
658	[1231, 1232]	2706	[4048, 4049]	4754	[5941, 5627]	6802	[5731, 5456]
659	[1233, 1234]	2707	[4050, 3991]	4755	[5942, 3774]	6803	[3736, 3656]
660	[1235, 1236]	2708	[4051, 2081]	4756	[5502, 3808]	6804	[7402, 2932]
661	[1237, 1238]	2709	[4052, 2068]	4757	[5943, 3763]	6805	[1276, 3129]
662	[1239, 1240]	2710	[4053, 4054]	4758	[3377, 3710]	6806	[5935, 2754]
663	[1241, 29]	2711	[4055, 4056]	4759	[5944, 1342]	6807	[5657, 5574]
664	[1242, 1082]	2712	[2309, 639]	4760	[5945, 984]	6808	[1526, 1586]
665	[1243, 442]	2713	[4057, 4058]	4761	[2664, 5465]	6809	[7403, 3960]
666	[1244, 1245]	2714	[4059, 4060]	4762	[5668, 5946]	6810	[7404, 5648]
667	[1246, 1247]	2715	[2394, 4061]	4763	[3417, 5423]	6811	[941, 1545]
668	[1248, 1249]	2716	[4062, 1614]	4764	[5390, 401]	6812	[5781, 5951]
669	[275, 1250]	2717	[1741, 2277]	4765	[5947, 3439]	6813	[7405, 97]
670	[1251, 1252]	2718	[4063, 4064]	4766	[5570, 5846]	6814	[5718, 3117]
671	[1253, 1016]	2719	[664, 14]	4767	[5948, 5949]	6815	[7406, 5935]
672	[1254, 1255]	2720	[4065, 4066]	4768	[2942, 342]	6816	[3297, 5706]
673	[1256, 1257]	2721	[2585, 1736]	4769	[5950, 3637]	6817	[7407, 5573]
674	[1258, 1259]	2722	[554, 159]	4770	[5951, 3560]	6818	[7175, 3602]
675	[1260, 1261]	2723	[2295, 4067]	4771	[5659, 2676]	6819	[7408, 3064]
676	[1262, 1263]	2724	[4068, 224]	4772	[5858, 5952]	6820	[7409, 3384]
677	[1264, 946]	2725	[1628, 793]	4773	[5953, 340]	6821	[5911, 1609]
678	[1265, 937]	2726	[4069, 748]	4774	[5954, 83]	6822	[7270, 935]
679	[1266, 1267]	2727	[4070, 4071]	4775	[3913, 5573]	6823	[5822, 1040]
680	[1268, 1269]	2728	[4072, 4073]	4776	[5955, 1498]	6824	[7410, 1178]
681	[1270, 1271]	2729	[2486, 4074]	4777	[1250, 5956]	6825	[7411, 3464]
682	[1272, 1273]	2730	[4075, 1664]	4778	[5957, 386]	6826	[7412, 474]
683	[102, 356]	2731	[4076, 4077]	4779	[1165, 5813]	6827	[7413, 410]
684	[1044, 1274]	2732	[4078, 4079]	4780	[5958, 464]	6828	[1591, 5480]
685	[1275, 1276]	2733	[4080, 1880]	4781	[5959, 5629]	6829	[984, 1280]
686	[1277, 1278]	2734	[4081, 2388]	4782	[1017, 349]	6830	[7414, 3020]

687	[1279, 1280]	2735	[4082, 2292]	4783	[2831, 5519]	6831	[7415, 1393]
688	[1281, 1282]	2736	[4083, 4084]	4784	[5960, 1454]	6832	[3452, 5996]
689	[1283, 1284]	2737	[4085, 693]	4785	[5961, 104]	6833	[7416, 1027]
690	[1022, 472]	2738	[4086, 4087]	4786	[3703, 3181]	6834	[6133, 1574]
691	[1285, 298]	2739	[4088, 4089]	4787	[5962, 2989]	6835	[7417, 3051]
692	[1286, 1287]	2740	[4090, 1746]	4788	[5963, 5964]	6836	[5904, 3621]
693	[1288, 1289]	2741	[4091, 2351]	4789	[1382, 5965]	6837	[281, 5526]
694	[1290, 1291]	2742	[4092, 247]	4790	[1604, 3735]	6838	[7418, 1553]
695	[1292, 1293]	2743	[4093, 2301]	4791	[3921, 1448]	6839	[7419, 2691]
696	[1294, 1295]	2744	[2538, 4054]	4792	[3923, 5926]	6840	[7420, 994]
697	[1296, 1297]	2745	[4094, 4095]	4793	[5966, 5653]	6841	[1269, 3297]
698	[1298, 1299]	2746	[4096, 130]	4794	[5967, 5968]	6842	[3331, 7175]
699	[1028, 1300]	2747	[2074, 4097]	4795	[5969, 1606]	6843	[1095, 5444]
700	[1301, 328]	2748	[4098, 4099]	4796	[5970, 103]	6844	[7421, 1529]
701	[1302, 1303]	2749	[4100, 174]	4797	[2876, 470]	6845	[1316, 5987]
702	[1304, 1305]	2750	[4101, 154]	4798	[5971, 1528]	6846	[7422, 1447]
703	[1306, 993]	2751	[4102, 186]	4799	[5646, 920]	6847	[7423, 941]
704	[1307, 907]	2752	[4103, 4104]	4800	[5972, 3210]	6848	[5965, 1238]
705	[1308, 1309]	2753	[4105, 4106]	4801	[5973, 1429]	6849	[7424, 3553]
706	[1310, 1311]	2754	[4107, 2298]	4802	[5964, 5716]	6850	[7425, 1051]
707	[1312, 1313]	2755	[4108, 4109]	4803	[5974, 5754]	6851	[7426, 3435]
708	[1314, 1315]	2756	[4110, 4111]	4804	[5975, 2707]	6852	[7427, 1309]
709	[120, 1316]	2757	[4112, 869]	4805	[5976, 2733]	6853	[7428, 3028]
710	[1317, 1318]	2758	[2623, 2398]	4806	[1052, 1091]	6854	[5683, 932]
711	[1319, 1320]	2759	[4113, 1904]	4807	[5977, 5894]	6855	[7429, 1386]
712	[84, 1321]	2760	[4114, 1705]	4808	[3387, 5978]	6856	[7430, 1142]
713	[1322, 1323]	2761	[869, 798]	4809	[5979, 2959]	6857	[7431, 2745]
714	[108, 1324]	2762	[4115, 4116]	4810	[5980, 5981]	6858	[7432, 3479]
715	[1325, 1326]	2763	[4117, 570]	4811	[5982, 1300]	6859	[5529, 6128]
716	[1327, 1328]	2764	[4118, 4119]	4812	[5983, 1604]	6860	[2710, 5665]
717	[1124, 1329]	2765	[4120, 4040]	4813	[5984, 3591]	6861	[1562, 3003]
718	[1330, 1331]	2766	[2210, 813]	4814	[5985, 2773]	6862	[2813, 1145]
719	[1332, 1333]	2767	[2341, 2159]	4815	[5524, 5440]	6863	[1410, 3235]
720	[1334, 1335]	2768	[4121, 4122]	4816	[5986, 5987]	6864	[7433, 3642]
721	[435, 1336]	2769	[4123, 198]	4817	[5988, 1418]	6865	[1200, 2843]
722	[1337, 1281]	2770	[1984, 847]	4818	[5989, 2689]	6866	[7434, 277]
723	[1338, 346]	2771	[2428, 4124]	4819	[5990, 1418]	6867	[7435, 5813]
724	[1339, 1340]	2772	[4125, 613]	4820	[3292, 5725]	6868	[7436, 5279]
725	[1341, 384]	2773	[4126, 187]	4821	[5991, 3575]	6869	[7437, 1413]
726	[1342, 479]	2774	[4127, 3996]	4822	[5992, 337]	6870	[7438, 3686]
727	[1214, 1343]	2775	[4128, 2534]	4823	[5993, 3106]	6871	[3686, 1550]
728	[1150, 1344]	2776	[4129, 1859]	4824	[5994, 3207]	6872	[7439, 425]
729	[1345, 1346]	2777	[4130, 4131]	4825	[5995, 5996]	6873	[7193, 293]
730	[1347, 1348]	2778	[4132, 705]	4826	[2848, 280]	6874	[1167, 5827]

731	[1349, 1350]	2779	[4133, 178]	4827	[5997, 3490]	6875	[1394, 3747]
732	[1351, 1352]	2780	[4134, 576]	4828	[3190, 453]	6876	[7440, 3119]
733	[1353, 1354]	2781	[4135, 43]	4829	[3522, 3268]	6877	[3200, 325]
734	[1355, 1356]	2782	[4136, 4137]	4830	[5307, 967]	6878	[7441, 6112]
735	[1357, 1358]	2783	[4138, 4139]	4831	[5998, 2840]	6879	[7442, 7443]
736	[1359, 1227]	2784	[4140, 4137]	4832	[2886, 3642]	6880	[3796, 301]
737	[1360, 1361]	2785	[4141, 2089]	4833	[5999, 3404]	6881	[1252, 5549]
738	[1362, 1363]	2786	[4142, 4027]	4834	[6000, 2729]	6882	[3802, 5316]
739	[1364, 1365]	2787	[1711, 4143]	4835	[6001, 3383]	6883	[3028, 3113]
740	[1366, 1367]	2788	[4144, 4145]	4836	[1065, 3075]	6884	[7444, 1473]
741	[1368, 1369]	2789	[2305, 893]	4837	[6002, 5904]	6885	[7445, 310]
742	[1370, 1371]	2790	[4146, 4147]	4838	[1038, 3756]	6886	[2846, 2946]
743	[1372, 1373]	2791	[3991, 4148]	4839	[6003, 1305]	6887	[7446, 5625]
744	[1374, 1375]	2792	[4149, 808]	4840	[6004, 3885]	6888	[7447, 3669]
745	[1376, 1377]	2793	[4150, 582]	4841	[6005, 5828]	6889	[7448, 1016]
746	[1232, 1378]	2794	[4151, 4152]	4842	[6006, 1082]	6890	[3628, 3712]
747	[1379, 1380]	2795	[4153, 4154]	4843	[5447, 3014]	6891	[7449, 3513]
748	[1381, 1382]	2796	[4089, 696]	4844	[6007, 1410]	6892	[7450, 2875]
749	[1383, 1384]	2797	[4155, 60]	4845	[6008, 278]	6893	[7451, 3357]
750	[1385, 1386]	2798	[1794, 4156]	4846	[6009, 1006]	6894	[7452, 1487]
751	[1387, 1388]	2799	[2094, 2143]	4847	[5420, 2997]	6895	[7398, 5596]
752	[1389, 1390]	2800	[4157, 4158]	4848	[3087, 3929]	6896	[7453, 5926]
753	[1087, 1000]	2801	[4159, 1886]	4849	[3826, 3389]	6897	[7454, 1289]
754	[1391, 1392]	2802	[4160, 4161]	4850	[6010, 3189]	6898	[5556, 2688]
755	[1393, 1394]	2803	[4162, 2075]	4851	[6011, 1494]	6899	[7455, 5730]
756	[1395, 1396]	2804	[4163, 4164]	4852	[6012, 907]	6900	[7456, 5432]
757	[1397, 100]	2805	[220, 4152]	4853	[6013, 117]	6901	[2721, 971]
758	[1398, 1399]	2806	[2470, 2309]	4854	[6014, 3214]	6902	[3960, 2905]
759	[398, 1400]	2807	[4165, 1906]	4855	[6015, 6016]	6903	[7457, 2737]
760	[1401, 1393]	2808	[4166, 805]	4856	[6017, 3773]	6904	[7458, 456]
761	[1402, 1403]	2809	[2337, 1786]	4857	[6018, 1391]	6905	[7459, 3193]
762	[1404, 1405]	2810	[4167, 1935]	4858	[3104, 6019]	6906	[3674, 5746]
763	[1406, 1407]	2811	[4168, 4169]	4859	[6020, 1252]	6907	[5413, 5469]
764	[1408, 27]	2812	[4170, 235]	4860	[6021, 3282]	6908	[5827, 3917]
765	[1409, 424]	2813	[4171, 2134]	4861	[6022, 3005]	6909	[7460, 1508]
766	[433, 112]	2814	[4172, 4173]	4862	[6023, 5945]	6910	[7461, 2736]
767	[388, 1410]	2815	[4174, 2599]	4863	[6024, 3186]	6911	[7462, 7463]
768	[1000, 1411]	2816	[4175, 2100]	4864	[6025, 5454]	6912	[1430, 3102]
769	[1412, 1413]	2817	[2195, 855]	4865	[1377, 365]	6913	[5665, 5949]
770	[1333, 451]	2818	[181, 4176]	4866	[6026, 3087]	6914	[7464, 1287]
771	[1414, 1415]	2819	[4177, 4178]	4867	[68, 6027]	6915	[7465, 2833]
772	[1416, 1417]	2820	[2259, 2475]	4868	[6028, 1364]	6916	[1361, 6086]
773	[1418, 1419]	2821	[4179, 4103]	4869	[6029, 1595]	6917	[7466, 3478]
774	[1420, 1421]	2822	[4180, 1794]	4870	[6030, 5524]	6918	[3850, 3768]

775	[1422, 1423]	2823	[4181, 4182]	4871	[5909, 6031]	6919	[7467, 1426]
776	[1424, 1401]	2824	[4183, 243]	4872	[6032, 6033]	6920	[7468, 3176]
777	[1425, 1426]	2825	[4184, 4185]	4873	[6034, 5378]	6921	[7469, 3624]
778	[1329, 1427]	2826	[4186, 2589]	4874	[6035, 2881]	6922	[3791, 3365]
779	[82, 957]	2827	[4187, 4188]	4875	[6036, 2931]	6923	[7470, 1600]
780	[1428, 961]	2828	[4189, 2066]	4876	[6037, 1356]	6924	[5426, 346]
781	[327, 1429]	2829	[1946, 2649]	4877	[6038, 2762]	6925	[7471, 5408]
782	[1191, 1430]	2830	[4190, 4191]	4878	[6039, 6040]	6926	[3890, 3619]
783	[1259, 1431]	2831	[4192, 510]	4879	[6041, 989]	6927	[7472, 3350]
784	[1432, 1433]	2832	[4193, 4194]	4880	[6042, 3552]	6928	[7473, 1477]
785	[1434, 1374]	2833	[4195, 4196]	4881	[3971, 3584]	6929	[7474, 3196]
786	[1435, 1329]	2834	[4197, 4198]	4882	[6043, 5669]	6930	[3295, 6250]
787	[1436, 1437]	2835	[4199, 2477]	4883	[1230, 5837]	6931	[7475, 3797]
788	[1438, 1439]	2836	[588, 2055]	4884	[6044, 2969]	6932	[7476, 6051]
789	[1440, 1441]	2837	[4200, 4201]	4885	[6045, 3161]	6933	[7477, 2891]
790	[1442, 1443]	2838	[4202, 600]	4886	[6046, 6047]	6934	[7478, 2662]
791	[1444, 1445]	2839	[4203, 4031]	4887	[1223, 445]	6935	[3735, 6049]
792	[1446, 1447]	2840	[4204, 4076]	4888	[6048, 6049]	6936	[2864, 6028]
793	[1448, 1449]	2841	[4205, 4206]	4889	[6050, 2919]	6937	[5336, 3552]
794	[1450, 1451]	2842	[4207, 491]	4890	[3843, 1210]	6938	[7479, 5355]
795	[1452, 335]	2843	[4208, 185]	4891	[3618, 6051]	6939	[2977, 5361]
796	[1453, 1454]	2844	[631, 795]	4892	[6052, 3699]	6940	[7480, 7481]
797	[1455, 1232]	2845	[4209, 4210]	4893	[6053, 3213]	6941	[1153, 3428]
798	[1456, 1457]	2846	[4211, 2548]	4894	[6054, 3949]	6942	[7482, 2917]
799	[1458, 1459]	2847	[4212, 4074]	4895	[6055, 5343]	6943	[5382, 1592]
800	[1460, 1129]	2848	[4213, 765]	4896	[6056, 1567]	6944	[3184, 2749]
801	[1461, 1462]	2849	[4214, 852]	4897	[6057, 3345]	6945	[7483, 1405]
802	[1463, 1464]	2850	[4215, 2633]	4898	[3745, 1086]	6946	[6033, 6278]
803	[1465, 357]	2851	[4216, 792]	4899	[1477, 3211]	6947	[7484, 344]
804	[1466, 1467]	2852	[4217, 2449]	4900	[2775, 5515]	6948	[7485, 3672]
805	[1468, 1469]	2853	[4218, 4219]	4901	[6058, 5744]	6949	[3244, 2740]
806	[1470, 1471]	2854	[4220, 803]	4902	[6059, 6060]	6950	[1602, 5358]
807	[1472, 1473]	2855	[4221, 1908]	4903	[1541, 1546]	6951	[7486, 3073]
808	[1474, 1119]	2856	[1781, 2161]	4904	[6061, 3723]	6952	[7487, 3796]
809	[1475, 405]	2857	[4222, 4223]	4905	[339, 463]	6953	[6143, 3751]
810	[122, 409]	2858	[4224, 4225]	4906	[6062, 365]	6954	[2941, 985]
811	[1476, 1477]	2859	[4226, 1635]	4907	[6063, 2741]	6955	[7488, 3594]
812	[1478, 1459]	2860	[4227, 4228]	4908	[6064, 3431]	6956	[7489, 1235]
813	[1479, 1480]	2861	[4229, 2281]	4909	[5946, 1498]	6957	[7490, 3651]
814	[1481, 1482]	2862	[60, 2112]	4910	[6065, 307]	6958	[7491, 3760]
815	[1483, 1484]	2863	[4230, 2527]	4911	[352, 3893]	6959	[2748, 2966]
816	[1485, 313]	2864	[4231, 527]	4912	[6066, 3523]	6960	[7492, 1001]
817	[1486, 1487]	2865	[4232, 4233]	4913	[6067, 5345]	6961	[5675, 5372]
818	[307, 1488]	2866	[4234, 656]	4914	[6068, 3033]	6962	[5541, 1270]

819	[335, 1489]	2867	[38, 219]	4915	[6069, 2774]	6963	[7493, 3652]
820	[1490, 1491]	2868	[4235, 1659]	4916	[6070, 3472]	6964	[7494, 3237]
821	[1411, 1492]	2869	[4236, 2466]	4917	[6071, 2850]	6965	[3565, 2666]
822	[1493, 1494]	2870	[498, 4237]	4918	[6072, 328]	6966	[7495, 1065]
823	[1495, 471]	2871	[4238, 4012]	4919	[6073, 265]	6967	[7496, 3582]
824	[1496, 1497]	2872	[4239, 1782]	4920	[3404, 1161]	6968	[7497, 1105]
825	[1498, 1118]	2873	[4240, 127]	4921	[6074, 1476]	6969	[7498, 2712]
826	[1499, 965]	2874	[4241, 4196]	4922	[6075, 3510]	6970	[7499, 3568]
827	[1500, 1501]	2875	[4242, 883]	4923	[2739, 2795]	6971	[5987, 3604]
828	[1421, 1502]	2876	[4243, 2188]	4924	[6076, 70]	6972	[7500, 2935]
829	[1503, 1504]	2877	[4244, 2240]	4925	[6077, 1119]	6973	[7501, 3310]
830	[1505, 1506]	2878	[2148, 138]	4926	[6078, 3585]	6974	[7502, 3887]
831	[1507, 1433]	2879	[4245, 2253]	4927	[6079, 3707]	6975	[7503, 2761]
832	[1508, 1509]	2880	[815, 1642]	4928	[6080, 2869]	6976	[7504, 3944]
833	[1510, 1452]	2881	[2130, 779]	4929	[990, 5675]	6977	[7505, 1392]
834	[1511, 1512]	2882	[4246, 4247]	4930	[2890, 1510]	6978	[7506, 1035]
835	[1513, 1514]	2883	[4248, 4249]	4931	[6081, 3086]	6979	[3470, 7443]
836	[1515, 1516]	2884	[2167, 1764]	4932	[6082, 1008]	6980	[7507, 1171]
837	[4, 1517]	2885	[229, 4250]	4933	[6083, 1530]	6981	[7508, 251]
838	[1518, 1519]	2886	[4251, 4252]	4934	[3223, 3523]	6982	[7509, 5688]
839	[1520, 1521]	2887	[4253, 4254]	4935	[6084, 3835]	6983	[3397, 5685]
840	[1522, 1523]	2888	[556, 4255]	4936	[6085, 6086]	6984	[7510, 5393]
841	[1240, 1524]	2889	[4256, 4257]	4937	[2797, 3607]	6985	[915, 1100]
842	[1525, 1526]	2890	[629, 594]	4938	[3097, 2956]	6986	[3146, 1144]
843	[1527, 1528]	2891	[154, 4258]	4939	[6087, 3455]	6987	[5894, 6263]
844	[1529, 1530]	2892	[4259, 4260]	4940	[6088, 1365]	6988	[7511, 5725]
845	[1531, 1532]	2893	[4261, 1997]	4941	[6089, 5298]	6989	[7244, 1331]
846	[1533, 1534]	2894	[4262, 4263]	4942	[5871, 3909]	6990	[7512, 3795]
847	[1535, 1134]	2895	[562, 4264]	4943	[386, 1441]	6991	[7513, 1028]
848	[1536, 1537]	2896	[4265, 2038]	4944	[3362, 3657]	6992	[7463, 5854]
849	[1538, 1509]	2897	[4079, 4266]	4945	[6090, 3428]	6993	[3001, 1262]
850	[1321, 1539]	2898	[4267, 2049]	4946	[6091, 952]	6994	[7514, 273]
851	[1540, 1541]	2899	[4268, 1962]	4947	[6092, 5583]	6995	[1566, 2778]
852	[446, 1542]	2900	[1878, 170]	4948	[6093, 1227]	6996	[26, 3349]
853	[1543, 93]	2901	[4269, 2001]	4949	[3544, 3325]	6997	[3716, 3526]
854	[382, 1359]	2902	[4270, 4271]	4950	[6094, 452]	6998	[7515, 1192]
855	[1544, 1545]	2903	[4272, 246]	4951	[2704, 2893]	6999	[7516, 126]
856	[1546, 1547]	2904	[4273, 4274]	4952	[6095, 470]	7000	[7517, 5427]
857	[976, 928]	2905	[4275, 4276]	4953	[3421, 930]	7001	[7518, 3782]
858	[1548, 1549]	2906	[4277, 862]	4954	[6096, 3343]	7002	[3758, 1284]
859	[1550, 323]	2907	[4278, 4279]	4955	[5925, 283]	7003	[6188, 3958]
860	[1551, 387]	2908	[4280, 2106]	4956	[6097, 3787]	7004	[7519, 5667]
861	[1552, 1553]	2909	[4281, 4282]	4957	[6098, 3761]	7005	[7520, 1537]
862	[1554, 1133]	2910	[4283, 662]	4958	[6099, 1022]	7006	[7521, 401]

863	[1555, 1556]	2911	[4284, 195]	4959	[6100, 1286]	7007	[7522, 1438]
864	[1557, 1558]	2912	[592, 2103]	4960	[6101, 5579]	7008	[7523, 1228]
865	[1559, 1560]	2913	[4285, 1639]	4961	[6102, 5450]	7009	[5885, 3032]
866	[1561, 1562]	2914	[4286, 1680]	4962	[6103, 971]	7010	[2968, 3667]
867	[1563, 1564]	2915	[4287, 1800]	4963	[6104, 6105]	7011	[7524, 3961]
868	[1565, 1566]	2916	[134, 4288]	4964	[6106, 5824]	7012	[3070, 3630]
869	[1567, 1467]	2917	[4289, 4290]	4965	[3509, 5835]	7013	[3930, 5823]
870	[1568, 1569]	2918	[4291, 1650]	4966	[6107, 1583]	7014	[5386, 6147]
871	[1570, 1571]	2919	[1835, 1968]	4967	[1184, 2908]	7015	[5707, 2709]
872	[1572, 329]	2920	[4292, 4293]	4968	[6108, 945]	7016	[1599, 1170]
873	[1219, 1573]	2921	[4294, 2349]	4969	[6109, 469]	7017	[7525, 2878]
874	[1574, 1575]	2922	[4295, 4296]	4970	[6110, 6019]	7018	[7526, 5475]
875	[1576, 373]	2923	[1855, 537]	4971	[5497, 5553]	7019	[7527, 2928]
876	[1577, 1578]	2924	[4297, 50]	4972	[5480, 461]	7020	[7528, 2924]
877	[265, 1579]	2925	[4298, 4299]	4973	[5761, 3195]	7021	[380, 5447]
878	[1580, 1581]	2926	[4300, 4301]	4974	[6111, 3043]	7022	[7529, 2984]
879	[1582, 1583]	2927	[4302, 4148]	4975	[5640, 991]	7023	[2837, 3948]
880	[1427, 1207]	2928	[4303, 232]	4976	[6112, 1442]	7024	[7530, 5740]
881	[1584, 1585]	2929	[4304, 4305]	4977	[6113, 3956]	7025	[3285, 3869]
882	[1586, 1587]	2930	[4306, 1857]	4978	[5956, 2979]	7026	[374, 5557]
883	[1564, 1588]	2931	[4307, 4308]	4979	[6114, 3382]	7027	[3707, 5790]
884	[1589, 1187]	2932	[4309, 4310]	4980	[6115, 3273]	7028	[7531, 2898]
885	[1590, 1591]	2933	[1766, 4311]	4981	[6116, 3923]	7029	[5831, 1223]
886	[1592, 1527]	2934	[4312, 2107]	4982	[6117, 3922]	7030	[7532, 257]
887	[1593, 1594]	2935	[2055, 702]	4983	[6118, 1112]	7031	[7533, 3320]
888	[1595, 1561]	2936	[4313, 2396]	4984	[471, 3234]	7032	[7534, 1580]
889	[1596, 1597]	2937	[530, 1740]	4985	[6119, 3828]	7033	[277, 924]
890	[1598, 1599]	2938	[4314, 605]	4986	[6120, 5357]	7034	[7535, 2715]
891	[910, 1600]	2939	[1938, 4315]	4987	[6121, 6040]	7035	[7536, 3185]
892	[1601, 1602]	2940	[4316, 620]	4988	[6122, 274]	7036	[7537, 3472]
893	[1309, 964]	2941	[4317, 1760]	4989	[6123, 3221]	7037	[5949, 2788]
894	[1603, 1604]	2942	[2473, 4318]	4990	[2842, 5714]	7038	[2880, 5367]
895	[1189, 1605]	2943	[1922, 4319]	4991	[6124, 6125]	7039	[5787, 3292]
896	[1606, 1607]	2944	[4320, 2400]	4992	[6126, 1505]	7040	[5454, 2736]
897	[1608, 1609]	2945	[4321, 2168]	4993	[6127, 6128]	7041	[7538, 424]
898	[1542, 959]	2946	[4322, 4142]	4994	[6129, 944]	7042	[7539, 5739]
899	[417, 1008]	2947	[4323, 4324]	4995	[6130, 3905]	7043	[3517, 5945]
900	[1610, 440]	2948	[4325, 2627]	4996	[6131, 5903]	7044	[7540, 3411]
901	[1611, 1612]	2949	[4326, 4327]	4997	[917, 5583]	7045	[7541, 5620]
902	[1613, 1614]	2950	[4328, 2355]	4998	[6132, 1493]	7046	[271, 3802]
903	[1615, 630]	2951	[4329, 4330]	4999	[1036, 6133]	7047	[7542, 2897]
904	[1616, 1617]	2952	[4331, 4332]	5000	[6134, 3545]	7048	[3689, 5697]
905	[1618, 1619]	2953	[4333, 4334]	5001	[2844, 5499]	7049	[7543, 85]
906	[1620, 1621]	2954	[4335, 4284]	5002	[6135, 3792]	7050	[7544, 2852]

907	[1622, 1623]	2955	[1648, 4336]	5003	[3474, 6136]	7051	[3372, 3244]
908	[1624, 1625]	2956	[4337, 4286]	5004	[6137, 3349]	7052	[7545, 3065]
909	[1626, 206]	2957	[4338, 1901]	5005	[5592, 3258]	7053	[3053, 2924]
910	[1627, 1628]	2958	[4339, 2572]	5006	[6138, 3506]	7054	[5377, 5934]
911	[1629, 1630]	2959	[2648, 4340]	5007	[6139, 5717]	7055	[7546, 3607]
912	[1631, 1632]	2960	[4341, 4342]	5008	[970, 3202]	7056	[7547, 5339]
913	[1633, 1634]	2961	[2246, 1810]	5009	[114, 969]	7057	[7548, 5946]
914	[1635, 1636]	2962	[4343, 4344]	5010	[6140, 5502]	7058	[7549, 3971]
915	[1637, 1638]	2963	[4345, 2594]	5011	[6141, 69]	7059	[3975, 2976]
916	[1639, 1640]	2964	[4346, 2447]	5012	[6142, 1003]	7060	[7550, 2734]
917	[1641, 734]	2965	[4347, 1858]	5013	[2777, 3105]	7061	[7551, 5808]
918	[1642, 1643]	2966	[4348, 2558]	5014	[1083, 6143]	7062	[5329, 7231]
919	[1644, 630]	2967	[4349, 4105]	5015	[3462, 2934]	7063	[7552, 2888]
920	[1645, 1646]	2968	[4350, 4351]	5016	[6144, 3403]	7064	[415, 6271]
921	[1647, 1648]	2969	[4352, 2126]	5017	[5596, 2881]	7065	[7553, 1282]
922	[1649, 142]	2970	[4353, 4354]	5018	[6145, 3847]	7066	[1178, 5659]
923	[1650, 1651]	2971	[2188, 4355]	5019	[6146, 3874]	7067	[7554, 1347]
924	[1652, 495]	2972	[4356, 4357]	5020	[6147, 373]	7068	[7555, 3410]
925	[536, 1653]	2973	[1759, 4358]	5021	[3582, 2742]	7069	[7556, 446]
926	[1654, 1655]	2974	[4359, 1612]	5022	[6148, 476]	7070	[7557, 101]
927	[1656, 58]	2975	[4360, 2546]	5023	[6149, 1242]	7071	[5394, 3670]
928	[1657, 1658]	2976	[4361, 535]	5024	[6150, 5835]	7072	[3502, 6021]
929	[1659, 1660]	2977	[1686, 4362]	5025	[6151, 1443]	7073	[5783, 1054]
930	[1661, 1662]	2978	[4363, 4364]	5026	[6152, 1262]	7074	[2973, 1141]
931	[1663, 1664]	2979	[4365, 4041]	5027	[6153, 1355]	7075	[7558, 3134]
932	[1665, 1666]	2980	[4366, 4367]	5028	[6154, 3395]	7076	[3124, 3434]
933	[1667, 1668]	2981	[4368, 2449]	5029	[3127, 3302]	7077	[3949, 5602]
934	[1669, 1670]	2982	[746, 4369]	5030	[2899, 3169]	7078	[7559, 5748]
935	[1671, 1672]	2983	[2412, 4009]	5031	[6155, 5555]	7079	[7560, 939]
936	[1673, 1674]	2984	[4370, 2533]	5032	[6156, 1444]	7080	[3330, 1189]
937	[1675, 1676]	2985	[792, 2080]	5033	[6157, 2876]	7081	[7561, 1480]
938	[1677, 1678]	2986	[625, 4371]	5034	[6158, 6143]	7082	[7562, 1367]
939	[752, 655]	2987	[4372, 4373]	5035	[3503, 2835]	7083	[3807, 3513]
940	[1679, 1680]	2988	[4374, 4375]	5036	[1390, 2814]	7084	[7563, 7481]
941	[1681, 1682]	2989	[4376, 1768]	5037	[6159, 6160]	7085	[7564, 3907]
942	[1683, 1684]	2990	[2273, 171]	5038	[6161, 1249]	7086	[5370, 5356]
943	[1685, 1686]	2991	[4377, 4378]	5039	[6162, 6163]	7087	[2507, 1619]
944	[1687, 1688]	2992	[4379, 738]	5040	[6164, 3768]	7088	[2503, 6348]
945	[1689, 518]	2993	[247, 4380]	5041	[6165, 1510]	7089	[54, 6373]
946	[1690, 1691]	2994	[4012, 4381]	5042	[1101, 5640]	7090	[5107, 1844]
947	[1692, 1693]	2995	[4382, 2542]	5043	[6166, 5956]	7091	[7565, 4636]
948	[1694, 1695]	2996	[4383, 4384]	5044	[6167, 123]	7092	[7566, 2551]
949	[1696, 1691]	2997	[4385, 239]	5045	[3411, 3661]	7093	[7567, 2417]
950	[1697, 1698]	2998	[4386, 1870]	5046	[6168, 6169]	7094	[7568, 802]

951	[185, 1699]	2999	[2371, 4387]	5047	[6170, 2693]	7095	[7569, 7570]
952	[1700, 1701]	3000	[1777, 144]	5048	[6171, 3358]	7096	[2146, 4390]
953	[1702, 1703]	3001	[4388, 2207]	5049	[6172, 5515]	7097	[7571, 7572]
954	[1704, 1705]	3002	[4389, 4390]	5050	[6173, 351]	7098	[1674, 7573]
955	[1706, 1707]	3003	[4391, 2538]	5051	[6174, 2809]	7099	[4607, 4166]
956	[1708, 1709]	3004	[4392, 4393]	5052	[3460, 926]	7100	[7574, 4325]
957	[1710, 1711]	3005	[2047, 4394]	5053	[6175, 930]	7101	[7575, 4472]
958	[166, 781]	3006	[2090, 4079]	5054	[6176, 5952]	7102	[7576, 4174]
959	[842, 1712]	3007	[4395, 4396]	5055	[6177, 1452]	7103	[7577, 199]
960	[1713, 1714]	3008	[4397, 496]	5056	[3249, 1027]	7104	[7578, 4171]
961	[1715, 1716]	3009	[4398, 4399]	5057	[6178, 6179]	7105	[7579, 2504]
962	[1717, 1718]	3010	[4400, 157]	5058	[6180, 2942]	7106	[510, 4824]
963	[1719, 1720]	3011	[4401, 1895]	5059	[6181, 1083]	7107	[7580, 4296]
964	[1721, 1722]	3012	[1885, 4402]	5060	[6182, 3567]	7108	[7581, 5185]
965	[1723, 1724]	3013	[4403, 4371]	5061	[6183, 1385]	7109	[7582, 2065]
966	[1725, 1726]	3014	[4404, 736]	5062	[1315, 6184]	7110	[4788, 806]
967	[1727, 1728]	3015	[2101, 2623]	5063	[6185, 3930]	7111	[7583, 4906]
968	[1729, 1730]	3016	[538, 4405]	5064	[6186, 3376]	7112	[2109, 723]
969	[1731, 1732]	3017	[4406, 2473]	5065	[6187, 2789]	7113	[7584, 7020]
970	[227, 1733]	3018	[1672, 2459]	5066	[5940, 6188]	7114	[7585, 4388]
971	[1734, 1735]	3019	[4407, 4038]	5067	[6179, 6061]	7115	[7586, 6460]
972	[1736, 1737]	3020	[4408, 2081]	5068	[5533, 6189]	7116	[2448, 5082]
973	[1738, 1739]	3021	[4409, 2162]	5069	[2983, 5533]	7117	[7587, 5031]
974	[1740, 1741]	3022	[4410, 4411]	5070	[3724, 2673]	7118	[7588, 4644]
975	[1742, 1743]	3023	[4412, 2494]	5071	[1399, 5988]	7119	[7589, 6518]
976	[1744, 1659]	3024	[2443, 2060]	5072	[3419, 3718]	7120	[7590, 4357]
977	[1745, 1746]	3025	[4413, 4154]	5073	[2679, 3725]	7121	[7591, 4921]
978	[639, 1747]	3026	[1733, 2281]	5074	[6190, 5707]	7122	[7592, 2426]
979	[1748, 1749]	3027	[4414, 4415]	5075	[6191, 3685]	7123	[785, 743]
980	[1750, 1751]	3028	[2035, 4416]	5076	[6192, 3126]	7124	[7593, 7594]
981	[1752, 1753]	3029	[4417, 4418]	5077	[6193, 3047]	7125	[7595, 4947]
982	[1754, 1658]	3030	[4419, 844]	5078	[6194, 3948]	7126	[7596, 4664]
983	[1755, 897]	3031	[4420, 4421]	5079	[6195, 5598]	7127	[7597, 6459]
984	[1756, 1757]	3032	[4422, 2560]	5080	[1089, 5694]	7128	[6725, 2539]
985	[1758, 1759]	3033	[4423, 2363]	5081	[6196, 3813]	7129	[7598, 1907]
986	[1760, 1761]	3034	[4424, 2375]	5082	[6197, 1559]	7130	[3984, 4468]
987	[1762, 1763]	3035	[4425, 4426]	5083	[6198, 1416]	7131	[6778, 4195]
988	[1764, 1703]	3036	[546, 1976]	5084	[5577, 6199]	7132	[811, 6466]
989	[1765, 1766]	3037	[4427, 4105]	5085	[6200, 3448]	7133	[7599, 847]
990	[1767, 1768]	3038	[4428, 4429]	5086	[5301, 5355]	7134	[7600, 4963]
991	[1769, 1770]	3039	[4430, 4431]	5087	[6201, 5718]	7135	[7601, 2101]
992	[1771, 1772]	3040	[1887, 4432]	5088	[3561, 3640]	7136	[484, 1905]
993	[1773, 808]	3041	[144, 616]	5089	[3078, 3720]	7137	[2227, 5182]
994	[1774, 1775]	3042	[4433, 4434]	5090	[6202, 6203]	7138	[7602, 4661]

995	[1776, 1777]	3043	[4402, 134]	5091	[6204, 6205]	7139	[7603, 1778]
996	[1778, 1779]	3044	[4435, 2031]	5092	[6206, 2967]	7140	[2009, 677]
997	[1780, 1781]	3045	[4436, 4437]	5093	[5350, 391]	7141	[7604, 4066]
998	[1782, 1783]	3046	[4438, 534]	5094	[6207, 3229]	7142	[7605, 4595]
999	[152, 1784]	3047	[1612, 2356]	5095	[6208, 2730]	7143	[1786, 6630]
1000	[1785, 1786]	3048	[4439, 2392]	5096	[1331, 2711]	7144	[10, 2078]
1001	[1787, 1788]	3049	[4440, 1739]	5097	[5694, 5333]	7145	[6494, 4598]
1002	[1789, 1790]	3050	[4441, 4442]	5098	[6209, 6210]	7146	[7606, 5082]
1003	[1791, 1792]	3051	[4443, 4444]	5099	[100, 1416]	7147	[7607, 2053]
1004	[1793, 1794]	3052	[4445, 776]	5100	[6211, 3723]	7148	[7608, 527]
1005	[1795, 517]	3053	[4446, 4298]	5101	[5724, 5284]	7149	[7609, 2264]
1006	[1796, 554]	3054	[4447, 4448]	5102	[6212, 3685]	7150	[5140, 568]
1007	[1797, 1655]	3055	[4449, 890]	5103	[3012, 3042]	7151	[7610, 7611]
1008	[1798, 61]	3056	[4450, 660]	5104	[6213, 3177]	7152	[7612, 5204]
1009	[794, 1799]	3057	[2517, 650]	5105	[6163, 5852]	7153	[7613, 4942]
1010	[1800, 1801]	3058	[4451, 1765]	5106	[6214, 1152]	7154	[6850, 6743]
1011	[1802, 894]	3059	[2461, 4452]	5107	[6215, 3529]	7155	[7614, 6397]
1012	[1803, 1804]	3060	[4453, 648]	5108	[6216, 1403]	7156	[7615, 7006]
1013	[1805, 877]	3061	[4454, 1784]	5109	[6217, 5609]	7157	[671, 6800]
1014	[1806, 1807]	3062	[4455, 2462]	5110	[3136, 423]	7158	[7616, 7617]
1015	[1808, 1809]	3063	[2059, 4456]	5111	[3337, 3529]	7159	[2615, 2198]
1016	[1810, 670]	3064	[1739, 34]	5112	[6218, 5668]	7160	[7618, 2031]
1017	[1811, 1812]	3065	[4457, 4458]	5113	[6219, 3295]	7161	[7619, 6348]
1018	[1813, 643]	3066	[4459, 2165]	5114	[1388, 2794]	7162	[2467, 4759]
1019	[1814, 1815]	3067	[1902, 1814]	5115	[3415, 3451]	7163	[7620, 4955]
1020	[1816, 1817]	3068	[4460, 4461]	5116	[2761, 5811]	7164	[4526, 5222]
1021	[1818, 644]	3069	[4432, 4462]	5117	[3117, 6220]	7165	[7621, 4964]
1022	[1819, 1820]	3070	[4463, 796]	5118	[6221, 2780]	7166	[7622, 2496]
1023	[1821, 1822]	3071	[2117, 4464]	5119	[1324, 3842]	7167	[4634, 6526]
1024	[1823, 1824]	3072	[4465, 4466]	5120	[6222, 3678]	7168	[7623, 4329]
1025	[1825, 1826]	3073	[2335, 4467]	5121	[6223, 5701]	7169	[2471, 6878]
1026	[1827, 1828]	3074	[4468, 4047]	5122	[6224, 5699]	7170	[7624, 4798]
1027	[52, 1829]	3075	[4469, 4470]	5123	[6225, 3824]	7171	[7625, 4270]
1028	[1830, 1831]	3076	[4471, 4472]	5124	[6226, 3181]	7172	[7626, 661]
1029	[1832, 1833]	3077	[4473, 4474]	5125	[6227, 1318]	7173	[7627, 6359]
1030	[1834, 1835]	3078	[2236, 758]	5126	[3375, 440]	7174	[5005, 502]
1031	[1836, 1837]	3079	[4475, 1878]	5127	[6228, 1377]	7175	[7628, 6572]
1032	[1838, 1839]	3080	[4476, 4051]	5128	[384, 3294]	7176	[6682, 719]
1033	[1840, 1841]	3081	[2206, 2279]	5129	[3557, 2822]	7177	[6755, 6721]
1034	[1842, 1843]	3082	[4477, 4478]	5130	[6229, 5574]	7178	[7629, 4497]
1035	[1844, 1845]	3083	[4479, 2585]	5131	[1356, 5615]	7179	[7630, 4912]
1036	[1730, 610]	3084	[4480, 4481]	5132	[6230, 953]	7180	[6508, 862]
1037	[1846, 1847]	3085	[4482, 2370]	5133	[3141, 3415]	7181	[7631, 4284]
1038	[1848, 810]	3086	[568, 4483]	5134	[6231, 2766]	7182	[7632, 627]

1039	[1849, 1850]	3087	[4484, 4394]	5135	[5634, 2762]	7183	[7633, 2502]
1040	[1851, 1852]	3088	[1737, 4282]	5136	[6232, 1199]	7184	[526, 2379]
1041	[1853, 1854]	3089	[4485, 2229]	5137	[1024, 2941]	7185	[7634, 887]
1042	[617, 1855]	3090	[4486, 4487]	5138	[6233, 368]	7186	[7635, 2169]
1043	[1856, 1857]	3091	[4488, 4489]	5139	[6234, 3913]	7187	[771, 3985]
1044	[1858, 1859]	3092	[4490, 1717]	5140	[6235, 3659]	7188	[820, 4707]
1045	[1860, 1861]	3093	[4491, 4358]	5141	[6236, 3718]	7189	[7636, 1923]
1046	[1862, 1779]	3094	[1919, 4492]	5142	[319, 3030]	7190	[7637, 6539]
1047	[1863, 161]	3095	[4493, 2269]	5143	[3455, 3257]	7191	[1880, 4230]
1048	[1864, 1865]	3096	[4494, 4495]	5144	[6237, 1352]	7192	[7638, 1893]
1049	[1866, 1692]	3097	[1623, 1760]	5145	[6238, 1077]	7193	[7639, 4710]
1050	[1867, 1868]	3098	[2220, 2380]	5146	[6239, 2702]	7194	[4900, 1907]
1051	[1869, 830]	3099	[4496, 2590]	5147	[3379, 3862]	7195	[7640, 4398]
1052	[805, 1870]	3100	[4264, 1639]	5148	[6240, 462]	7196	[7641, 4086]
1053	[1871, 1872]	3101	[740, 4497]	5149	[3319, 6191]	7197	[7642, 4295]
1054	[1873, 1874]	3102	[4498, 4499]	5150	[5860, 364]	7198	[572, 675]
1055	[1875, 1876]	3103	[4500, 2208]	5151	[5469, 3833]	7199	[4838, 4552]
1056	[1877, 1878]	3104	[4501, 2293]	5152	[3447, 3104]	7200	[730, 5226]
1057	[1879, 1880]	3105	[4502, 693]	5153	[6241, 3544]	7201	[867, 5136]
1058	[1881, 1882]	3106	[1913, 2009]	5154	[6242, 269]	7202	[1997, 1752]
1059	[1883, 1884]	3107	[4006, 732]	5155	[6243, 3728]	7203	[702, 7643]
1060	[208, 1885]	3108	[4182, 739]	5156	[6244, 1522]	7204	[2025, 7004]
1061	[1886, 1887]	3109	[4503, 4504]	5157	[6245, 3323]	7205	[6520, 4599]
1062	[1888, 1889]	3110	[4505, 4506]	5158	[3320, 5497]	7206	[7644, 1864]
1063	[1621, 1890]	3111	[4507, 141]	5159	[6246, 3012]	7207	[7645, 4303]
1064	[1891, 1892]	3112	[4508, 2512]	5160	[6247, 3850]	7208	[7646, 4479]
1065	[1893, 1894]	3113	[4509, 2389]	5161	[6248, 3724]	7209	[494, 6987]
1066	[1895, 1896]	3114	[4416, 4041]	5162	[6249, 1217]	7210	[7647, 4120]
1067	[158, 1897]	3115	[2425, 4510]	5163	[6250, 1064]	7211	[7648, 4069]
1068	[1898, 1899]	3116	[4511, 4512]	5164	[6251, 2873]	7212	[7649, 6747]
1069	[1900, 189]	3117	[4513, 871]	5165	[6252, 3447]	7213	[4548, 4334]
1070	[1901, 1902]	3118	[4514, 1766]	5166	[6253, 3290]	7214	[688, 6494]
1071	[1903, 1904]	3119	[4472, 2086]	5167	[2724, 66]	7215	[7650, 4724]
1072	[1905, 1906]	3120	[667, 4515]	5168	[1597, 288]	7216	[7651, 7652]
1073	[1907, 1908]	3121	[4516, 2141]	5169	[6254, 1359]	7217	[7653, 1753]
1074	[1909, 1910]	3122	[4517, 4387]	5170	[6255, 1564]	7218	[7654, 1957]
1075	[1911, 1912]	3123	[1726, 4518]	5171	[1060, 3216]	7219	[7655, 6679]
1076	[1720, 1628]	3124	[4332, 1757]	5172	[6060, 3681]	7220	[7656, 4435]
1077	[1722, 1913]	3125	[1691, 4418]	5173	[303, 3831]	7221	[7657, 564]
1078	[1914, 1915]	3126	[4519, 690]	5174	[6256, 3131]	7222	[7067, 729]
1079	[1916, 1917]	3127	[4520, 4084]	5175	[6257, 3331]	7223	[2303, 6430]
1080	[1918, 1919]	3128	[4521, 4353]	5176	[3212, 3465]	7224	[2133, 4688]
1081	[1920, 1921]	3129	[1693, 4522]	5177	[6258, 3713]	7225	[886, 6940]
1082	[601, 1922]	3130	[2061, 2323]	5178	[6259, 2719]	7226	[7658, 6457]

1083	[1923, 242]	3131	[4523, 1711]	5179	[6260, 3037]	7227	[7659, 4409]
1084	[1924, 1925]	3132	[4524, 2647]	5180	[2931, 285]	7228	[7660, 519]
1085	[1926, 1927]	3133	[4525, 4526]	5181	[3499, 3327]	7229	[1933, 6739]
1086	[1928, 511]	3134	[2594, 4527]	5182	[6261, 2841]	7230	[7661, 5210]
1087	[1929, 1930]	3135	[1676, 1678]	5183	[6262, 6263]	7231	[7662, 2297]
1088	[1930, 1931]	3136	[4528, 2511]	5184	[6264, 2912]	7232	[7663, 4902]
1089	[1932, 1933]	3137	[496, 4529]	5185	[6265, 5419]	7233	[7664, 7657]
1090	[1934, 1935]	3138	[4530, 2335]	5186	[6266, 1150]	7234	[7665, 6857]
1091	[1936, 1871]	3139	[4531, 4532]	5187	[3900, 3386]	7235	[7666, 7667]
1092	[1937, 1938]	3140	[2439, 556]	5188	[6267, 1324]	7236	[7668, 6990]
1093	[1939, 1940]	3141	[4533, 4534]	5189	[5859, 5783]	7237	[603, 6406]
1094	[1941, 1942]	3142	[2646, 788]	5190	[6268, 6021]	7238	[7669, 509]
1095	[1943, 750]	3143	[4535, 4536]	5191	[6269, 1445]	7239	[239, 5187]
1096	[1944, 542]	3144	[4537, 1775]	5192	[6270, 6271]	7240	[7670, 2032]
1097	[1945, 1946]	3145	[4538, 4539]	5193	[6272, 3826]	7241	[7671, 6401]
1098	[1947, 781]	3146	[4540, 726]	5194	[3239, 3192]	7242	[594, 4794]
1099	[1948, 1949]	3147	[4541, 4542]	5195	[6273, 349]	7243	[5164, 6397]
1100	[1950, 888]	3148	[4543, 2522]	5196	[6274, 2998]	7244	[7672, 2506]
1101	[1951, 865]	3149	[4342, 822]	5197	[6275, 5474]	7245	[7673, 4818]
1102	[1952, 1953]	3150	[4544, 4545]	5198	[6276, 3424]	7246	[7674, 900]
1103	[1954, 1955]	3151	[4546, 1788]	5199	[6277, 6070]	7247	[4271, 6399]
1104	[1662, 1770]	3152	[4547, 4548]	5200	[6278, 5871]	7248	[7675, 7676]
1105	[654, 1956]	3153	[4549, 1835]	5201	[6279, 6136]	7249	[4779, 2493]
1106	[1957, 1958]	3154	[4550, 2192]	5202	[6280, 1092]	7250	[7677, 6888]
1107	[1959, 1960]	3155	[1688, 1889]	5203	[6281, 3466]	7251	[4219, 4119]
1108	[48, 1961]	3156	[2639, 759]	5204	[6282, 3113]	7252	[7678, 7655]
1109	[1962, 1963]	3157	[4099, 4551]	5205	[6283, 3163]	7253	[7679, 557]
1110	[1964, 1965]	3158	[4552, 2443]	5206	[6284, 1009]	7254	[7680, 4112]
1111	[863, 1759]	3159	[4553, 4547]	5207	[6285, 1104]	7255	[7681, 4774]
1112	[890, 1966]	3160	[4554, 1761]	5208	[6286, 6287]	7256	[7676, 5055]
1113	[1967, 1968]	3161	[2253, 4555]	5209	[3943, 3937]	7257	[6562, 145]
1114	[1969, 688]	3162	[2037, 156]	5210	[6288, 5406]	7258	[7682, 2621]
1115	[1735, 1970]	3163	[4556, 2250]	5211	[6289, 3711]	7259	[7683, 1776]
1116	[1971, 1972]	3164	[4557, 4169]	5212	[6290, 3722]	7260	[7684, 2578]
1117	[1973, 1974]	3165	[4558, 4559]	5213	[6291, 1588]	7261	[7573, 4684]
1118	[1975, 1976]	3166	[4560, 524]	5214	[1108, 1292]	7262	[7685, 6425]
1119	[1977, 1978]	3167	[4561, 2567]	5215	[5553, 253]	7263	[1743, 7652]
1120	[1979, 1980]	3168	[4562, 1646]	5216	[6292, 3621]	7264	[7686, 6420]
1121	[1981, 1982]	3169	[4563, 4564]	5217	[6293, 3701]	7265	[7687, 180]
1122	[1983, 1984]	3170	[4565, 2056]	5218	[6294, 451]	7266	[7688, 4603]
1123	[1985, 1986]	3171	[4566, 4338]	5219	[6295, 3573]	7267	[7689, 1893]
1124	[1987, 1988]	3172	[4148, 2557]	5220	[90, 3761]	7268	[6594, 1622]
1125	[1989, 1990]	3173	[4567, 4568]	5221	[6296, 23]	7269	[7020, 5243]
1126	[1991, 1992]	3174	[4569, 135]	5222	[6297, 6189]	7270	[7690, 6394]

1127	[1993, 1994]	3175	[4570, 874]	5223	[2920, 3403]	7271	[7570, 249]
1128	[1995, 881]	3176	[4571, 1666]	5224	[6298, 6299]	7272	[7691, 6779]
1129	[1996, 1997]	3177	[4572, 4249]	5225	[3726, 3758]	7273	[6375, 7692]
1130	[1998, 1999]	3178	[4573, 884]	5226	[6300, 306]	7274	[7693, 5235]
1131	[2000, 1643]	3179	[1870, 4562]	5227	[86, 1175]	7275	[4288, 4987]
1132	[2001, 2002]	3180	[4574, 4524]	5228	[6301, 2673]	7276	[2363, 6666]
1133	[2003, 2004]	3181	[4575, 1730]	5229	[467, 3184]	7277	[1617, 4459]
1134	[2005, 2006]	3182	[4576, 878]	5230	[2702, 5590]	7278	[7694, 8]
1135	[138, 2007]	3183	[2560, 4577]	5231	[3394, 5419]	7279	[235, 4343]
1136	[2008, 2009]	3184	[4578, 1617]	5232	[3604, 976]	7280	[7695, 6911]
1137	[2010, 859]	3185	[662, 4579]	5233	[1519, 5541]	7281	[6998, 7594]
1138	[1653, 2011]	3186	[4042, 2499]	5234	[6302, 992]	7282	[669, 4776]
1139	[2012, 2013]	3187	[4580, 4018]	5235	[6303, 1170]	7283	[218, 7677]
1140	[2014, 2015]	3188	[4581, 1872]	5236	[6304, 5314]	7284	[164, 2150]
1141	[2016, 2017]	3189	[4582, 4583]	5237	[6305, 3168]	7285	[2112, 4295]
1142	[2018, 2019]	3190	[4584, 2186]	5238	[3479, 6060]	7286	[4258, 6652]
1143	[2020, 744]	3191	[1826, 1644]	5239	[6306, 1563]	7287	[7696, 2299]
1144	[2021, 1922]	3192	[4585, 4274]	5240	[6307, 3272]	7288	[7697, 7698]
1145	[2022, 1894]	3193	[4510, 4586]	5241	[6308, 1558]	7289	[7699, 5185]
1146	[2023, 1736]	3194	[4587, 2525]	5242	[6309, 6220]	7290	[7700, 4269]
1147	[2024, 2025]	3195	[4588, 4589]	5243	[6310, 6311]	7291	[4036, 7572]
1148	[2026, 2027]	3196	[4590, 4158]	5244	[6312, 6061]	7292	[7701, 6340]
1149	[2028, 621]	3197	[2015, 4591]	5245	[1193, 3375]	7293	[7702, 6356]
1150	[865, 2029]	3198	[4592, 1971]	5246	[6313, 1293]	7294	[7703, 4216]
1151	[2030, 1990]	3199	[4593, 4594]	5247	[3352, 3096]	7295	[7704, 4672]
1152	[2031, 1728]	3200	[4595, 4293]	5248	[2829, 3609]	7296	[7705, 5053]
1153	[2032, 2033]	3201	[140, 4596]	5249	[3432, 3072]	7297	[7706, 5252]
1154	[2034, 2035]	3202	[4597, 4432]	5250	[345, 2718]	7298	[7707, 4719]
1155	[2036, 2037]	3203	[4598, 2257]	5251	[6314, 90]	7299	[7708, 6751]
1156	[548, 2038]	3204	[4599, 2597]	5252	[3700, 256]	7300	[4279, 7068]
1157	[2039, 1972]	3205	[4600, 879]	5253	[3210, 5777]	7301	[7709, 1822]
1158	[2040, 2041]	3206	[4601, 2259]	5254	[2787, 3225]	7302	[4637, 5191]
1159	[2042, 2043]	3207	[4602, 2147]	5255	[6315, 2839]	7303	[7710, 1833]
1160	[2044, 2045]	3208	[4603, 2166]	5256	[6316, 2950]	7304	[7711, 7573]
1161	[2046, 2047]	3209	[4066, 4604]	5257	[6317, 2668]	7305	[520, 7712]
1162	[2048, 2049]	3210	[4470, 4605]	5258	[6318, 1163]	7306	[7713, 7692]
1163	[2050, 2051]	3211	[4606, 4077]	5259	[5282, 20]	7307	[7714, 6671]
1164	[2052, 2053]	3212	[2307, 2262]	5260	[3961, 6179]	7308	[2038, 4093]
1165	[2054, 2055]	3213	[174, 4177]	5261	[6319, 3355]	7309	[6608, 6850]
1166	[2056, 36]	3214	[2071, 4607]	5262	[6320, 3451]	7310	[4056, 4526]
1167	[2057, 2014]	3215	[4169, 4608]	5263	[407, 2769]	7311	[4848, 2630]
1168	[2058, 2059]	3216	[4609, 4610]	5264	[5337, 3131]	7312	[5199, 539]
1169	[2060, 2061]	3217	[4611, 1726]	5265	[6321, 2930]	7313	[7715, 2619]
1170	[2062, 146]	3218	[4612, 1750]	5266	[6322, 1303]	7314	[7716, 7717]

1171	[2063, 2064]	3219	[4613, 4476]	5267	[5669, 26]	7315	[6781, 1763]
1172	[2065, 2066]	3220	[4614, 4359]	5268	[6323, 5634]	7316	[1968, 6602]
1173	[570, 2067]	3221	[4615, 2524]	5269	[6324, 1277]	7317	[7718, 4676]
1174	[2068, 2069]	3222	[4616, 579]	5270	[6325, 319]	7318	[684, 7056]
1175	[2070, 2071]	3223	[4617, 4492]	5271	[6326, 1491]	7319	[7719, 2383]
1176	[2011, 2072]	3224	[12, 590]	5272	[6327, 3710]	7320	[686, 6805]
1177	[2073, 2074]	3225	[4618, 1675]	5273	[3399, 5547]	7321	[7720, 4995]
1178	[2075, 2076]	3226	[4619, 1704]	5274	[540, 4910]	7322	[7721, 2257]
1179	[2077, 1704]	3227	[4620, 4621]	5275	[1976, 2394]	7323	[4489, 7722]
1180	[2078, 2079]	3228	[1868, 2068]	5276	[6328, 4145]	7324	[2514, 6705]
1181	[2080, 1709]	3229	[4622, 1845]	5277	[6329, 2127]	7325	[4648, 4857]
1182	[2081, 2082]	3230	[4623, 575]	5278	[6330, 4867]	7326	[1658, 7067]
1183	[2083, 2084]	3231	[4624, 4500]	5279	[6331, 4351]	7327	[7723, 4660]
1184	[2085, 692]	3232	[4625, 4626]	5280	[6332, 4412]	7328	[2203, 4520]
1185	[2086, 612]	3233	[2634, 4627]	5281	[1859, 5164]	7329	[7724, 4550]
1186	[2087, 2088]	3234	[4628, 1696]	5282	[6333, 883]	7330	[7725, 809]
1187	[2089, 2090]	3235	[4629, 4630]	5283	[6334, 2109]	7331	[7726, 2221]
1188	[2091, 2092]	3236	[4631, 4332]	5284	[6335, 1865]	7332	[7727, 5006]
1189	[2093, 2094]	3237	[4124, 4632]	5285	[4694, 6336]	7333	[6405, 4936]
1190	[2095, 2096]	3238	[4633, 4634]	5286	[6337, 4149]	7334	[7728, 7712]
1191	[2097, 2098]	3239	[4635, 4510]	5287	[1892, 4570]	7335	[7729, 6349]
1192	[2099, 46]	3240	[2355, 4095]	5288	[6338, 6339]	7336	[4354, 6844]
1193	[2100, 2101]	3241	[4636, 4637]	5289	[6340, 5192]	7337	[586, 4535]
1194	[2102, 2103]	3242	[4638, 4263]	5290	[6341, 537]	7338	[4249, 1700]
1195	[2104, 2105]	3243	[4639, 4561]	5291	[6342, 4003]	7339	[7730, 6707]
1196	[2106, 2107]	3244	[4640, 4091]	5292	[6343, 4050]	7340	[7731, 6727]
1197	[2108, 2109]	3245	[4555, 4437]	5293	[6344, 6345]	7341	[6511, 7717]
1198	[2110, 795]	3246	[2266, 569]	5294	[6346, 1714]	7342	[7732, 4319]
1199	[2111, 2112]	3247	[4641, 4642]	5295	[6347, 2377]	7343	[2349, 2026]
1200	[2113, 1697]	3248	[706, 52]	5296	[6348, 6349]	7344	[7733, 4480]
1201	[2114, 2115]	3249	[4643, 2163]	5297	[6350, 6351]	7345	[7734, 2644]
1202	[2116, 2117]	3250	[2051, 4218]	5298	[6352, 4775]	7346	[7611, 6700]
1203	[2118, 2119]	3251	[4644, 4645]	5299	[6353, 4071]	7347	[7735, 4936]
1204	[2120, 2121]	3252	[4646, 2146]	5300	[6354, 1713]	7348	[7736, 4464]
1205	[2122, 1978]	3253	[4647, 4648]	5301	[6355, 708]	7349	[5080, 7698]
1206	[2123, 2124]	3254	[4649, 227]	5302	[5027, 6356]	7350	[7737, 4213]
1207	[2125, 2126]	3255	[4650, 4651]	5303	[2343, 5029]	7351	[4995, 2252]
1208	[2127, 2128]	3256	[4652, 4475]	5304	[6357, 6358]	7352	[7738, 2123]
1209	[2129, 2130]	3257	[4653, 4219]	5305	[6359, 4286]	7353	[7739, 606]
1210	[2131, 2124]	3258	[710, 1933]	5306	[6360, 6361]	7354	[4257, 5064]
1211	[2132, 2133]	3259	[4344, 4654]	5307	[6362, 4777]	7355	[714, 7740]
1212	[2134, 2135]	3260	[4655, 700]	5308	[2222, 725]	7356	[4994, 6354]
1213	[193, 2136]	3261	[4656, 4657]	5309	[4375, 4113]	7357	[7741, 4930]
1214	[2137, 136]	3262	[4658, 4456]	5310	[6363, 179]	7358	[7742, 5006]

1215	[2138, 2139]	3263	[4659, 2079]	5311	[4188, 6364]	7359	[7743, 47]
1216	[2140, 716]	3264	[4660, 4661]	5312	[4282, 4236]	7360	[7744, 900]
1217	[2119, 218]	3265	[4662, 4156]	5313	[2464, 6365]	7361	[2314, 7745]
1218	[1876, 2141]	3266	[4029, 4556]	5314	[6366, 6367]	7362	[7746, 2367]
1219	[2142, 2143]	3267	[4663, 4664]	5315	[6368, 2380]	7363	[544, 1941]
1220	[2144, 671]	3268	[195, 4161]	5316	[6369, 2263]	7364	[56, 6693]
1221	[2145, 2146]	3269	[4665, 4666]	5317	[6370, 6371]	7365	[6813, 4892]
1222	[2147, 2148]	3270	[4667, 628]	5318	[4568, 6372]	7366	[6351, 1920]
1223	[2149, 841]	3271	[1861, 4206]	5319	[6373, 4435]	7367	[7747, 724]
1224	[2150, 2151]	3272	[4668, 4049]	5320	[6374, 6375]	7368	[522, 6658]
1225	[2152, 42]	3273	[4669, 1989]	5321	[6376, 4218]	7369	[7652, 2115]
1226	[2153, 2154]	3274	[1833, 4670]	5322	[6377, 4565]	7370	[7748, 2153]
1227	[2155, 2156]	3275	[216, 4642]	5323	[6378, 2282]	7371	[7749, 5039]
1228	[2157, 2158]	3276	[4671, 4672]	5324	[6379, 4204]	7372	[5236, 6760]
1229	[2159, 1854]	3277	[4673, 2624]	5325	[6380, 4703]	7373	[4308, 6623]
1230	[698, 2121]	3278	[4674, 4675]	5326	[6381, 4556]	7374	[7750, 1749]
1231	[2160, 2161]	3279	[4676, 566]	5327	[676, 4805]	7375	[7751, 6929]
1232	[2162, 2163]	3280	[172, 180]	5328	[6382, 6383]	7376	[7752, 4805]
1233	[516, 1707]	3281	[4677, 4256]	5329	[6384, 1636]	7377	[7617, 1879]
1234	[2164, 2165]	3282	[4678, 629]	5330	[6385, 4360]	7378	[7753, 1979]
1235	[2166, 533]	3283	[4679, 2539]	5331	[6386, 145]	7379	[7754, 5100]
1236	[146, 2167]	3284	[4373, 4630]	5332	[2121, 1954]	7380	[7755, 2254]
1237	[2168, 2169]	3285	[4680, 2246]	5333	[6387, 484]	7381	[6345, 2088]
1238	[2170, 2171]	3286	[4681, 4682]	5334	[6388, 694]	7382	[7756, 687]
1239	[2172, 1698]	3287	[4683, 4684]	5335	[6389, 1956]	7383	[7757, 234]
1240	[1790, 2173]	3288	[4685, 2448]	5336	[6390, 4929]	7384	[5044, 6727]
1241	[2174, 61]	3289	[4686, 2557]	5337	[2045, 4142]	7385	[7758, 4224]
1242	[2175, 490]	3290	[4536, 2298]	5338	[4319, 522]	7386	[2163, 7759]
1243	[2176, 725]	3291	[4687, 4688]	5339	[6391, 4425]	7387	[7760, 7643]
1244	[2177, 2178]	3292	[4689, 2159]	5340	[6392, 4186]	7388	[7761, 1905]
1245	[2179, 2180]	3293	[4690, 4691]	5341	[6393, 569]	7389	[4018, 184]
1246	[2181, 2182]	3294	[4692, 494]	5342	[6394, 4610]	7390	[6673, 7611]
1247	[2183, 811]	3295	[1664, 712]	5343	[1828, 4216]	7391	[4767, 4439]
1248	[2184, 2185]	3296	[4693, 4694]	5344	[6395, 4548]	7392	[7762, 7763]
1249	[1942, 2186]	3297	[4695, 1881]	5345	[6396, 4632]	7393	[7572, 4793]
1250	[2187, 166]	3298	[4696, 1901]	5346	[582, 6367]	7394	[7764, 749]
1251	[2135, 2188]	3299	[4697, 4558]	5347	[6397, 1613]	7395	[4399, 4835]
1252	[2151, 2189]	3300	[36, 4698]	5348	[6398, 1826]	7396	[2653, 578]
1253	[2190, 2191]	3301	[4699, 2090]	5349	[6399, 2145]	7397	[6539, 703]
1254	[2192, 2193]	3302	[4700, 2220]	5350	[6400, 2139]	7398	[7765, 5176]
1255	[2194, 2195]	3303	[4701, 4623]	5351	[6401, 545]	7399	[7766, 1637]
1256	[2196, 2197]	3304	[4702, 2422]	5352	[6402, 2135]	7400	[6500, 4287]
1257	[2198, 2199]	3305	[3981, 4703]	5353	[6403, 4821]	7401	[7767, 6415]
1258	[2200, 2201]	3306	[4381, 4704]	5354	[6404, 6405]	7402	[7768, 2231]

1259	[2202, 2203]	3307	[4705, 1792]	5355	[6406, 691]	7403	[7769, 7742]
1260	[700, 222]	3308	[2158, 4103]	5356	[6407, 4006]	7404	[716, 544]
1261	[2204, 558]	3309	[4706, 1897]	5357	[6408, 4564]	7405	[708, 6719]
1262	[2205, 2206]	3310	[4707, 858]	5358	[6409, 4341]	7406	[7770, 3985]
1263	[2207, 597]	3311	[4437, 663]	5359	[6410, 1720]	7407	[1666, 4958]
1264	[2208, 1692]	3312	[4708, 1647]	5360	[4152, 2095]	7408	[2441, 4457]
1265	[2209, 2210]	3313	[4709, 2494]	5361	[6411, 4266]	7409	[7771, 2540]
1266	[2211, 2212]	3314	[4710, 682]	5362	[6412, 2572]	7410	[7772, 4873]
1267	[2213, 572]	3315	[4049, 586]	5363	[4682, 4198]	7411	[2244, 7773]
1268	[2214, 2035]	3316	[4711, 2634]	5364	[6413, 4908]	7412	[7774, 573]
1269	[2215, 1642]	3317	[4712, 4713]	5365	[6414, 1641]	7413	[7775, 153]
1270	[2216, 2217]	3318	[4714, 2446]	5366	[6415, 1776]	7414	[7776, 4459]
1271	[2218, 820]	3319	[4715, 4522]	5367	[6416, 1644]	7415	[7777, 4535]
1272	[2219, 2220]	3320	[896, 4644]	5368	[4961, 4321]	7416	[7778, 1830]
1273	[2221, 1750]	3321	[4716, 4717]	5369	[6417, 6418]	7417	[7779, 7780]
1274	[1960, 2222]	3322	[4718, 520]	5370	[6419, 1913]	7418	[1705, 4558]
1275	[2223, 1693]	3323	[4719, 1892]	5371	[4985, 6420]	7419	[7781, 7782]
1276	[692, 151]	3324	[4720, 2302]	5372	[6421, 5172]	7420	[7783, 2555]
1277	[2224, 1965]	3325	[4721, 2189]	5373	[6422, 2251]	7421	[4492, 7784]
1278	[2136, 2225]	3326	[4722, 4596]	5374	[6423, 2371]	7422	[7698, 622]
1279	[2226, 2227]	3327	[4723, 2523]	5375	[6424, 6425]	7423	[7785, 219]
1280	[2228, 2191]	3328	[44, 2439]	5376	[4073, 1912]	7424	[7786, 578]
1281	[2229, 2230]	3329	[4724, 4725]	5377	[6367, 2203]	7425	[7004, 7676]
1282	[2231, 2232]	3330	[4726, 699]	5378	[6426, 1966]	7426	[7782, 5228]
1283	[2233, 2234]	3331	[4727, 4728]	5379	[6427, 6428]	7427	[4551, 1721]
1284	[2235, 2236]	3332	[4729, 1917]	5380	[6429, 6430]	7428	[7787, 826]
1285	[2237, 577]	3333	[1982, 4730]	5381	[6430, 6340]	7429	[7788, 7773]
1286	[2238, 530]	3334	[4731, 1830]	5382	[2459, 2563]	7430	[4111, 6473]
1287	[2239, 1946]	3335	[4732, 1846]	5383	[4698, 2537]	7431	[5066, 4254]
1288	[2240, 228]	3336	[4733, 4342]	5384	[6431, 707]	7432	[7773, 687]
1289	[2241, 2242]	3337	[4734, 4143]	5385	[6432, 5179]	7433	[6899, 2312]
1290	[2243, 2244]	3338	[748, 4735]	5386	[2250, 4091]	7434	[4362, 661]
1291	[2245, 2246]	3339	[4122, 2050]	5387	[4296, 131]	7435	[7789, 7740]
1292	[2247, 668]	3340	[4061, 1929]	5388	[6433, 5039]	7436	[7790, 5033]
1293	[2248, 140]	3341	[4736, 739]	5389	[6434, 6435]	7437	[7791, 2529]
1294	[2249, 2250]	3342	[4737, 678]	5390	[6436, 768]	7438	[7792, 6700]
1295	[2251, 1871]	3343	[4738, 4739]	5391	[4185, 2440]	7439	[7717, 4069]
1296	[2252, 2253]	3344	[1974, 4740]	5392	[6437, 2481]	7440	[7793, 6652]
1297	[2254, 2037]	3345	[4741, 4072]	5393	[1668, 4411]	7441	[4263, 4912]
1298	[2255, 2256]	3346	[4742, 4637]	5394	[6438, 1648]	7442	[4810, 6911]
1299	[2257, 168]	3347	[4743, 11]	5395	[6439, 4961]	7443	[7794, 2649]
1300	[2258, 1828]	3348	[4744, 4745]	5396	[2597, 4341]	7444	[813, 4235]
1301	[1643, 2259]	3349	[4746, 2256]	5397	[2599, 4120]	7445	[7795, 598]
1302	[828, 1938]	3350	[2002, 678]	5398	[5169, 735]	7446	[4071, 4528]

1303	[2260, 2129]	3351	[4747, 2359]	5399	[6440, 689]	7447	[722, 4866]
1304	[2261, 2262]	3352	[4748, 4749]	5400	[6441, 1638]	7448	[7763, 1811]
1305	[2263, 2264]	3353	[4750, 4164]	5401	[6442, 4237]	7449	[7796, 4106]
1306	[2265, 2266]	3354	[4060, 584]	5402	[6443, 4471]	7450	[7797, 7798]
1307	[2267, 2268]	3355	[4751, 2501]	5403	[6444, 4536]	7451	[1829, 4754]
1308	[2269, 1724]	3356	[4752, 246]	5404	[6445, 3996]	7452	[4594, 4757]
1309	[2270, 2271]	3357	[4753, 177]	5405	[168, 2190]	7453	[6358, 7799]
1310	[2272, 2273]	3358	[4754, 2615]	5406	[6446, 2319]	7454	[4749, 6518]
1311	[2274, 2275]	3359	[4164, 2562]	5407	[5172, 4675]	7455	[7800, 6693]
1312	[2276, 2277]	3360	[502, 4532]	5408	[6447, 178]	7456	[6835, 4553]
1313	[2278, 2279]	3361	[4755, 4670]	5409	[6448, 763]	7457	[7801, 4701]
1314	[2280, 798]	3362	[4139, 2006]	5410	[6449, 4654]	7458	[4630, 4270]
1315	[2281, 2282]	3363	[4756, 4757]	5411	[6450, 2274]	7459	[7802, 6534]
1316	[2283, 2284]	3364	[4758, 4759]	5412	[6451, 6452]	7460	[5086, 2012]
1317	[2285, 2286]	3365	[4760, 4579]	5413	[6453, 536]	7461	[7803, 4085]
1318	[2287, 2288]	3366	[4761, 860]	5414	[6454, 4855]	7462	[7804, 4424]
1319	[2289, 2290]	3367	[633, 4762]	5415	[6455, 4625]	7463	[7805, 4363]
1320	[2291, 2271]	3368	[4763, 4146]	5416	[6456, 4321]	7464	[564, 2187]
1321	[2292, 2293]	3369	[4764, 202]	5417	[6457, 4945]	7465	[7806, 1821]
1322	[2294, 2295]	3370	[2201, 846]	5418	[4583, 153]	7466	[7807, 7699]
1323	[2296, 669]	3371	[4466, 2266]	5419	[6458, 663]	7467	[7808, 4135]
1324	[1990, 2297]	3372	[4765, 4766]	5420	[6452, 506]	7468	[7809, 5261]
1325	[2298, 2299]	3373	[518, 4194]	5421	[2506, 6459]	7469	[726, 4988]
1326	[2300, 2301]	3374	[2527, 4767]	5422	[2497, 6460]	7470	[7810, 7042]
1327	[2302, 2303]	3375	[4768, 4663]	5423	[6461, 44]	7471	[4158, 1670]
1328	[2304, 2305]	3376	[4769, 4770]	5424	[160, 2653]	7472	[7811, 677]
1329	[1986, 698]	3377	[4771, 1855]	5425	[6462, 4360]	7473	[7812, 7799]
1330	[2306, 2307]	3378	[4772, 4359]	5426	[6349, 1710]	7474	[7813, 2015]
1331	[2308, 2309]	3379	[4773, 2381]	5427	[6463, 2156]	7475	[488, 4224]
1332	[1716, 2269]	3380	[4774, 4775]	5428	[4589, 6464]	7476	[2339, 6583]
1333	[2310, 2076]	3381	[4776, 4777]	5429	[6465, 4452]	7477	[7814, 6733]
1334	[2311, 2312]	3382	[4778, 4779]	5430	[871, 4474]	7478	[4867, 7667]
1335	[2313, 2314]	3383	[4780, 2531]	5431	[6466, 4434]	7479	[7815, 4439]
1336	[2315, 2316]	3384	[4781, 157]	5432	[4327, 4783]	7480	[7816, 7745]
1337	[2317, 2129]	3385	[4782, 4415]	5433	[4104, 4719]	7481	[7817, 5062]
1338	[2318, 164]	3386	[224, 4499]	5434	[6467, 1613]	7482	[1874, 5196]
1339	[2319, 148]	3387	[4783, 2447]	5435	[6468, 1846]	7483	[7818, 7056]
1340	[2320, 2321]	3388	[4784, 4785]	5436	[6469, 2648]	7484	[4276, 6793]
1341	[2322, 2323]	3389	[4786, 4605]	5437	[6470, 9]	7485	[4539, 4724]
1342	[2324, 533]	3390	[4196, 4787]	5438	[6471, 4441]	7486	[148, 6695]
1343	[2325, 2326]	3391	[612, 4788]	5439	[6472, 2488]	7487	[7819, 7820]
1344	[621, 2327]	3392	[2583, 4789]	5440	[6473, 517]	7488	[6580, 6929]
1345	[2328, 2329]	3393	[4790, 4326]	5441	[4194, 4489]	7489	[7594, 4747]
1346	[2330, 2331]	3394	[4791, 4792]	5442	[6474, 6475]	7490	[7821, 4287]

1347	[2332, 2333]	3395	[4793, 2047]	5443	[6476, 4081]	7491	[7822, 632]
1348	[2334, 2335]	3396	[4794, 4033]	5444	[6477, 2549]	7492	[4452, 1789]
1349	[2336, 2337]	3397	[4795, 2465]	5445	[6478, 4542]	7493	[7823, 7638]
1350	[2338, 2339]	3398	[4796, 4352]	5446	[1999, 600]	7494	[7824, 7068]
1351	[2340, 2210]	3399	[1757, 4797]	5447	[6479, 492]	7495	[7825, 4989]
1352	[732, 2341]	3400	[3986, 4798]	5448	[2256, 4256]	7496	[7759, 4731]
1353	[2342, 2343]	3401	[2493, 4589]	5449	[6480, 2337]	7497	[2437, 1957]
1354	[2344, 1662]	3402	[4799, 4577]	5450	[6481, 1847]	7498	[7826, 1745]
1355	[2345, 2346]	3403	[4800, 2027]	5451	[2333, 2267]	7499	[1824, 2619]
1356	[524, 841]	3404	[4801, 4247]	5452	[6482, 2359]	7500	[5272, 4313]
1357	[2347, 2201]	3405	[4745, 1804]	5453	[6483, 2362]	7501	[7827, 5197]
1358	[2348, 2349]	3406	[4802, 4803]	5454	[6484, 673]	7502	[6878, 1745]
1359	[2350, 2351]	3407	[4804, 1958]	5455	[6485, 5246]	7503	[4318, 6664]
1360	[2352, 2353]	3408	[4311, 2197]	5456	[6486, 2445]	7504	[7828, 6415]
1361	[2354, 2355]	3409	[4805, 2344]	5457	[6487, 4093]	7505	[7829, 6664]
1362	[2356, 2357]	3410	[4806, 670]	5458	[1792, 5204]	7506	[2515, 4163]
1363	[788, 577]	3411	[4807, 4808]	5459	[4198, 4020]	7507	[7830, 4747]
1364	[2358, 1712]	3412	[4809, 4810]	5460	[4116, 2474]	7508	[7831, 5007]
1365	[2359, 1953]	3413	[4811, 2562]	5461	[6488, 5016]	7509	[7832, 2613]
1366	[2360, 2361]	3414	[4812, 4576]	5462	[2156, 4121]	7510	[7833, 3994]
1367	[2362, 2363]	3415	[4813, 2033]	5463	[6489, 4882]	7511	[7834, 5090]
1368	[14, 1974]	3416	[623, 4779]	5464	[6490, 4541]	7512	[4369, 5132]
1369	[2364, 2365]	3417	[4814, 4815]	5465	[6491, 1799]	7513	[4787, 2258]
1370	[2264, 2366]	3418	[2612, 4816]	5466	[6492, 4468]	7514	[7835, 2024]
1371	[2367, 488]	3419	[4817, 1890]	5467	[6493, 6494]	7515	[7836, 1684]
1372	[1831, 2368]	3420	[4818, 775]	5468	[6495, 4315]	7516	[704, 7742]
1373	[2369, 1810]	3421	[4819, 2043]	5469	[6496, 599]	7517	[1994, 4267]
1374	[2370, 2371]	3422	[4820, 4821]	5470	[1884, 4541]	7518	[7837, 4139]
1375	[615, 2372]	3423	[4822, 4442]	5471	[6497, 1996]	7519	[7838, 1719]
1376	[2373, 2374]	3424	[4823, 4671]	5472	[6498, 1954]	7520	[2225, 6751]
1377	[2375, 699]	3425	[4824, 1820]	5473	[4247, 4441]	7521	[7839, 4364]
1378	[2376, 2377]	3426	[4825, 1630]	5474	[6499, 2314]	7522	[7840, 2460]
1379	[2378, 2379]	3427	[4826, 2295]	5475	[4426, 6500]	7523	[7841, 4268]
1380	[2380, 2381]	3428	[4827, 4476]	5476	[6501, 4987]	7524	[2346, 7763]
1381	[2382, 2303]	3429	[2033, 2206]	5477	[5029, 1994]	7525	[7842, 4551]
1382	[2383, 562]	3430	[4828, 4829]	5478	[2546, 4149]	7526	[2079, 4979]
1383	[2329, 2384]	3431	[4830, 1970]	5479	[6502, 2475]	7527	[2076, 7798]
1384	[2385, 2029]	3432	[2103, 1995]	5480	[6503, 870]	7528	[7843, 6830]
1385	[2386, 2387]	3433	[4808, 2227]	5481	[6504, 4405]	7529	[5102, 2532]
1386	[2388, 2389]	3434	[4831, 4832]	5482	[6505, 835]	7530	[7844, 6445]
1387	[2390, 248]	3435	[4833, 4449]	5483	[6506, 4880]	7531	[7845, 4268]
1388	[2391, 2392]	3436	[4834, 4835]	5484	[6507, 6508]	7532	[4730, 4017]
1389	[2393, 2394]	3437	[4836, 2471]	5485	[6509, 4962]	7533	[6531, 4550]
1390	[2395, 2396]	3438	[4837, 4330]	5486	[2096, 595]	7534	[2617, 2624]

1391	[2397, 2398]	3439	[2417, 613]	5487	[6510, 6511]	7535	[7846, 4700]
1392	[2399, 2400]	3440	[552, 4838]	5488	[6512, 1790]	7536	[4156, 5174]
1393	[2401, 2402]	3441	[4839, 2050]	5489	[6513, 807]	7537	[7847, 4097]
1394	[2403, 2404]	3442	[4840, 2158]	5490	[6514, 5272]	7538	[1646, 7674]
1395	[762, 2405]	3443	[4841, 4613]	5491	[1614, 4921]	7539	[1917, 4818]
1396	[2406, 755]	3444	[4842, 4623]	5492	[6515, 6516]	7540	[7848, 7722]
1397	[2407, 2236]	3445	[4843, 769]	5493	[6517, 6406]	7541	[4883, 6523]
1398	[2408, 2406]	3446	[4844, 2437]	5494	[6518, 6468]	7542	[7849, 4328]
1399	[756, 2409]	3447	[2576, 790]	5495	[6519, 4807]	7543	[4832, 7638]
1400	[760, 2406]	3448	[4301, 4766]	5496	[1747, 6520]	7544	[4026, 1798]
1401	[2410, 2403]	3449	[4845, 249]	5497	[6521, 730]	7545	[2569, 7699]
1402	[2411, 2412]	3450	[1966, 2353]	5498	[1904, 802]	7546	[7850, 6879]
1403	[2413, 2414]	3451	[4846, 899]	5499	[6522, 717]	7547	[2154, 4048]
1404	[2415, 760]	3452	[4847, 2563]	5500	[6523, 4862]	7548	[4495, 619]
1405	[2416, 201]	3453	[1899, 4848]	5501	[6524, 685]	7549	[7851, 737]
1406	[162, 2417]	3454	[189, 722]	5502	[5201, 2195]	7550	[7852, 4269]
1407	[2418, 2419]	3455	[4849, 1699]	5503	[6525, 4892]	7551	[7853, 7784]
1408	[2420, 2421]	3456	[4850, 828]	5504	[6526, 4561]	7552	[4672, 6454]
1409	[614, 728]	3457	[2169, 705]	5505	[5212, 6527]	7553	[4897, 49]
1410	[2422, 1809]	3458	[4851, 2242]	5506	[6528, 5201]	7554	[1894, 2334]
1411	[1784, 2423]	3459	[4852, 483]	5507	[1678, 5002]	7555	[7854, 4807]
1412	[2424, 2425]	3460	[4853, 1656]	5508	[4792, 4738]	7556	[7855, 2581]
1413	[2426, 245]	3461	[4854, 4855]	5509	[6529, 6519]	7557	[809, 204]
1414	[2427, 2428]	3462	[2171, 4829]	5510	[6530, 4289]	7558	[566, 4203]
1415	[2429, 1876]	3463	[4856, 2387]	5511	[3993, 6531]	7559	[7856, 4794]
1416	[2430, 759]	3464	[2531, 4025]	5512	[5512, 5512]	7560	[7857, 4680]
1417	[2431, 761]	3465	[4077, 1781]	5513	[6532, 6454]	7561	[2396, 2454]
1418	[2432, 2405]	3466	[4857, 4772]	5514	[4237, 2089]	7562	[7858, 6583]
1419	[2409, 2433]	3467	[4858, 55]	5515	[4725, 837]	7563	[7859, 2116]
1420	[2434, 2435]	3468	[4859, 652]	5516	[6533, 4068]	7564	[4250, 7007]
1421	[2436, 2437]	3469	[4860, 172]	5517	[210, 4539]	7565	[5615, 16]
1422	[2438, 2439]	3470	[4210, 4133]	5518	[6534, 5062]	7566	[7860, 383]
1423	[2064, 1732]	3471	[4861, 4862]	5519	[4703, 6535]	7567	[459, 1149]
1424	[2440, 2441]	3472	[4863, 4252]	5520	[4290, 1688]	7568	[2914, 109]
1425	[2442, 2443]	3473	[1799, 2542]	5521	[606, 6433]	7569	[7861, 5303]
1426	[2444, 2445]	3474	[4864, 1657]	5522	[6536, 4384]	7570	[7862, 5295]
1427	[1988, 2446]	3475	[4865, 184]	5523	[6537, 4178]	7571	[6299, 3565]
1428	[2447, 1717]	3476	[4866, 1748]	5524	[3997, 4185]	7572	[7863, 7122]
1429	[627, 2448]	3477	[3978, 1925]	5525	[6538, 6539]	7573	[7864, 3688]
1430	[2449, 2178]	3478	[32, 1633]	5526	[6540, 4572]	7574	[7865, 1523]
1431	[2450, 2230]	3479	[34, 4867]	5527	[6541, 5121]	7575	[3409, 3242]
1432	[1906, 2451]	3480	[4868, 4869]	5528	[6542, 2067]	7576	[7866, 3536]
1433	[1908, 2263]	3481	[2082, 4425]	5529	[6543, 4483]	7577	[5279, 3880]
1434	[2452, 615]	3482	[4870, 4814]	5530	[1763, 5094]	7578	[3594, 3393]

1435	[2453, 2454]	3483	[2275, 173]	5531	[6544, 4787]	7579	[2874, 1220]
1436	[2455, 2456]	3484	[4871, 4762]	5532	[4632, 1832]	7580	[7867, 5816]
1437	[2457, 1656]	3485	[1636, 4872]	5533	[6545, 2416]	7581	[7868, 479]
1438	[2458, 2459]	3486	[4873, 626]	5534	[6546, 48]	7582	[7869, 3309]
1439	[2460, 2461]	3487	[4874, 863]	5535	[6547, 5193]	7583	[7870, 3463]
1440	[222, 2077]	3488	[4875, 2019]	5536	[6548, 1910]	7584	[5837, 7871]
1441	[736, 2462]	3489	[4876, 4089]	5537	[6549, 2095]	7585	[7872, 3140]
1442	[2463, 2464]	3490	[4661, 1982]	5538	[5040, 6508]	7586	[7873, 5560]
1443	[799, 2465]	3491	[4233, 2436]	5539	[6550, 636]	7587	[7874, 1263]
1444	[2466, 2467]	3492	[4877, 4242]	5540	[6551, 6552]	7588	[951, 3666]
1445	[2468, 596]	3493	[4878, 4073]	5541	[6553, 196]	7589	[3195, 2832]
1446	[2469, 2470]	3494	[3980, 2346]	5542	[6554, 4225]	7590	[2888, 6163]
1447	[1768, 2471]	3495	[4879, 2516]	5543	[6555, 6365]	7591	[3876, 3361]
1448	[2472, 2473]	3496	[4880, 1807]	5544	[852, 897]	7592	[7875, 1206]
1449	[2474, 241]	3497	[132, 4682]	5545	[6556, 6557]	7593	[7876, 3230]
1450	[2475, 2071]	3498	[4651, 557]	5546	[6558, 4076]	7594	[7877, 3437]
1451	[782, 1875]	3499	[4881, 1733]	5547	[6559, 1633]	7595	[7878, 5811]
1452	[2476, 2477]	3500	[4882, 4753]	5548	[4429, 6358]	7596	[5501, 944]
1453	[2478, 2341]	3501	[658, 4883]	5549	[6560, 2128]	7597	[5406, 2847]
1454	[599, 717]	3502	[4371, 2339]	5550	[6561, 6562]	7598	[5608, 74]
1455	[2479, 2376]	3503	[4884, 1814]	5551	[6563, 1844]	7599	[1171, 7135]
1456	[2480, 2152]	3504	[4885, 4886]	5552	[6564, 2155]	7600	[7879, 6027]
1457	[2481, 2482]	3505	[4666, 2593]	5553	[6565, 1747]	7601	[7297, 2910]
1458	[2483, 2251]	3506	[4887, 228]	5554	[6566, 6567]	7602	[7880, 978]
1459	[2484, 1667]	3507	[4888, 4466]	5555	[6568, 4327]	7603	[7181, 317]
1460	[2485, 2486]	3508	[4889, 3981]	5556	[6569, 4815]	7604	[7881, 3933]
1461	[2487, 2427]	3509	[4890, 4891]	5557	[6570, 779]	7605	[7882, 315]
1462	[1638, 2294]	3510	[4564, 196]	5558	[6361, 4770]	7606	[1077, 3205]
1463	[2488, 608]	3511	[4892, 4856]	5559	[6571, 6520]	7607	[7883, 5618]
1464	[2489, 575]	3512	[680, 2321]	5560	[506, 6572]	7608	[6031, 993]
1465	[2490, 2491]	3513	[4893, 2556]	5561	[1940, 4130]	7609	[364, 3673]
1466	[2492, 2493]	3514	[2180, 523]	5562	[4434, 2180]	7610	[1607, 381]
1467	[778, 1774]	3515	[4894, 2520]	5563	[807, 214]	7611	[7884, 1422]
1468	[2494, 150]	3516	[4895, 4896]	5564	[6573, 1829]	7612	[2934, 2812]
1469	[682, 2495]	3517	[4529, 587]	5565	[6574, 4608]	7613	[3237, 5761]
1470	[2496, 2497]	3518	[4442, 4897]	5566	[6575, 2573]	7614	[7885, 3759]
1471	[2498, 129]	3519	[4898, 4362]	5567	[6576, 6405]	7615	[1343, 6311]
1472	[2499, 2333]	3520	[4899, 4900]	5568	[46, 4651]	7616	[7886, 102]
1473	[2500, 2501]	3521	[4421, 2576]	5569	[6577, 193]	7617	[7887, 7888]
1474	[2502, 2503]	3522	[610, 4713]	5570	[6578, 2503]	7618	[7889, 2836]
1475	[2504, 776]	3523	[4901, 4308]	5571	[6579, 6580]	7619	[5618, 5911]
1476	[2505, 1964]	3524	[205, 4902]	5572	[6581, 43]	7620	[5520, 2998]
1477	[2501, 2506]	3525	[4903, 4521]	5573	[4340, 857]	7621	[7890, 2951]
1478	[647, 2507]	3526	[4904, 756]	5574	[6582, 4305]	7622	[1392, 6210]

1479	[1820, 1988]	3527	[2402, 2407]	5575	[2482, 2544]	7623	[1282, 5597]
1480	[2508, 2094]	3528	[4002, 2412]	5576	[1783, 4717]	7624	[7891, 3969]
1481	[2509, 653]	3529	[4905, 238]	5577	[6583, 482]	7625	[1093, 7107]
1482	[2510, 2511]	3530	[2578, 4906]	5578	[6584, 6585]	7626	[1002, 1239]
1483	[2512, 835]	3531	[4907, 4908]	5579	[2098, 4900]	7627	[7892, 5802]
1484	[2513, 2514]	3532	[4909, 2173]	5580	[2331, 4356]	7628	[2667, 477]
1485	[1841, 2515]	3533	[4910, 4782]	5581	[6586, 6464]	7629	[3122, 3764]
1486	[1699, 1919]	3534	[1670, 2329]	5582	[500, 6383]	7630	[6169, 1376]
1487	[2516, 526]	3535	[4911, 4291]	5583	[6587, 1653]	7631	[7893, 385]
1488	[590, 684]	3536	[4912, 745]	5584	[6588, 703]	7632	[3384, 7357]
1489	[643, 2517]	3537	[4913, 4914]	5585	[2491, 2270]	7633	[7894, 1055]
1490	[2518, 2519]	3538	[2633, 1616]	5586	[6589, 6418]	7634	[7895, 5616]
1491	[2520, 198]	3539	[4915, 7]	5587	[6590, 4915]	7635	[7896, 1308]
1492	[2521, 56]	3540	[4916, 2190]	5588	[6591, 4754]	7636	[7897, 3094]
1493	[2522, 2523]	3541	[4917, 2151]	5589	[212, 6413]	7637	[7898, 1185]
1494	[2524, 1765]	3542	[4918, 2187]	5590	[6592, 858]	7638	[7899, 7900]
1495	[1655, 2304]	3543	[4919, 1805]	5591	[861, 710]	7639	[7901, 966]
1496	[1746, 2525]	3544	[4920, 2495]	5592	[6593, 1772]	7640	[7902, 3632]
1497	[2526, 2527]	3545	[4921, 2105]	5593	[4405, 6594]	7641	[5777, 3424]
1498	[2528, 2061]	3546	[4922, 1683]	5594	[4504, 6359]	7642	[5465, 5566]
1499	[2529, 1725]	3547	[4923, 1700]	5595	[6595, 2130]	7643	[7903, 7135]
1500	[2041, 2292]	3548	[4084, 2175]	5596	[6596, 1980]	7644	[3468, 3263]
1501	[2530, 2388]	3549	[4924, 601]	5597	[6597, 777]	7645	[7904, 5710]
1502	[2435, 2531]	3550	[4925, 595]	5598	[2232, 2171]	7646	[5343, 3905]
1503	[2532, 2374]	3551	[4926, 4927]	5599	[6598, 2148]	7647	[3873, 5326]
1504	[2533, 2534]	3552	[4928, 4555]	5600	[6599, 6373]	7648	[7905, 3120]
1505	[2115, 2316]	3553	[4929, 4930]	5601	[2013, 2212]	7649	[1127, 7463]
1506	[2535, 2290]	3554	[4931, 4503]	5602	[6600, 891]	7650	[7906, 3909]
1507	[2006, 2536]	3555	[4932, 4461]	5603	[2004, 636]	7651	[7907, 1478]
1508	[2537, 2538]	3556	[4933, 651]	5604	[6601, 2423]	7652	[7908, 1157]
1509	[2534, 1632]	3557	[4934, 4883]	5605	[6602, 2041]	7653	[7909, 3279]
1510	[2539, 644]	3558	[4935, 4061]	5606	[6603, 4745]	7654	[7888, 3458]
1511	[2540, 2481]	3559	[4254, 2553]	5607	[6604, 1663]	7655	[7910, 6028]
1512	[2541, 893]	3560	[4936, 4036]	5608	[6605, 4264]	7656	[7911, 361]
1513	[2542, 605]	3561	[4586, 497]	5609	[5266, 1791]	7657	[7912, 903]
1514	[2543, 2544]	3562	[150, 2485]	5610	[4411, 6606]	7658	[7913, 382]
1515	[2545, 2546]	3563	[1703, 4937]	5611	[6607, 6608]	7659	[7914, 5733]
1516	[2547, 2548]	3564	[4938, 4939]	5612	[241, 4059]	7660	[6027, 2748]
1517	[8, 2549]	3565	[4940, 3992]	5613	[4357, 5105]	7661	[3625, 3126]
1518	[2550, 1722]	3566	[4274, 4941]	5614	[2556, 4058]	7662	[3959, 3407]
1519	[2551, 208]	3567	[1852, 4942]	5615	[6609, 2225]	7663	[3234, 5696]
1520	[2552, 2553]	3568	[4943, 4291]	5616	[4979, 4298]	7664	[5680, 5766]
1521	[2554, 2519]	3569	[4512, 4927]	5617	[6610, 4767]	7665	[7915, 3809]
1522	[2555, 2556]	3570	[4944, 151]	5618	[2178, 1991]	7666	[1255, 3410]

1523	[2557, 2558]	3571	[4945, 2318]	5619	[4914, 1858]	7667	[7916, 6010]
1524	[2559, 2560]	3572	[4946, 4104]	5620	[237, 504]	7668	[7917, 6199]
1525	[2561, 874]	3573	[4947, 4444]	5621	[6611, 2007]	7669	[6271, 7294]
1526	[2562, 2365]	3574	[4596, 651]	5622	[2284, 4029]	7670	[7918, 1200]
1527	[2563, 2564]	3575	[4948, 655]	5623	[6612, 4124]	7671	[7919, 931]
1528	[2565, 647]	3576	[2027, 659]	5624	[4542, 1837]	7672	[1159, 5608]
1529	[2566, 2567]	3577	[4949, 4645]	5625	[1865, 754]	7673	[5968, 1422]
1530	[2568, 2569]	3578	[4608, 2153]	5626	[2351, 6613]	7674	[7920, 6039]
1531	[2381, 2570]	3579	[4950, 848]	5627	[6614, 2399]	7675	[7921, 6278]
1532	[877, 2571]	3580	[4951, 873]	5628	[4020, 2370]	7676	[7922, 5766]
1533	[2572, 2573]	3581	[4952, 242]	5629	[6615, 2466]	7677	[7923, 272]
1534	[2574, 2347]	3582	[4031, 4634]	5630	[6527, 752]	7678	[3367, 5323]
1535	[2575, 2576]	3583	[4953, 4467]	5631	[6616, 5182]	7679	[2808, 1051]
1536	[2387, 767]	3584	[4954, 4257]	5632	[2446, 1999]	7680	[1609, 1567]
1537	[2389, 2288]	3585	[4739, 4955]	5633	[6617, 2267]	7681	[5526, 3045]
1538	[2577, 2578]	3586	[4956, 2440]	5634	[6618, 2319]	7682	[7924, 1215]
1539	[170, 819]	3587	[4835, 4352]	5635	[1749, 3994]	7683	[7925, 1533]
1540	[2579, 2318]	3588	[4957, 4099]	5636	[6619, 4309]	7684	[7926, 30]
1541	[2580, 676]	3589	[4958, 689]	5637	[6620, 5120]	7685	[7927, 3588]
1542	[2581, 1934]	3590	[4959, 691]	5638	[6621, 5218]	7686	[7928, 3048]
1543	[875, 188]	3591	[742, 4891]	5639	[6622, 6623]	7687	[3970, 357]
1544	[2582, 2583]	3592	[4939, 2425]	5640	[6624, 1771]	7688	[7929, 3884]
1545	[2584, 2585]	3593	[4960, 4961]	5641	[6625, 1640]	7689	[7930, 3083]
1546	[2586, 1815]	3594	[2603, 4791]	5642	[2321, 1716]	7690	[1482, 2855]
1547	[2587, 742]	3595	[4927, 4962]	5643	[2365, 5130]	7691	[394, 3438]
1548	[2588, 2451]	3596	[2456, 1839]	5644	[6626, 5080]	7692	[7931, 7891]
1549	[2589, 2590]	3597	[850, 4199]	5645	[6627, 6606]	7693	[7932, 5758]
1550	[2591, 1842]	3598	[4963, 2147]	5646	[6628, 2192]	7694	[7933, 3432]
1551	[2592, 2593]	3599	[4964, 1805]	5647	[6629, 6630]	7695	[7934, 438]
1552	[822, 2594]	3600	[4965, 4026]	5648	[6567, 4294]	7696	[3481, 3803]
1553	[558, 1874]	3601	[4966, 1831]	5649	[750, 1983]	7697	[5898, 1425]
1554	[2595, 548]	3602	[4728, 4521]	5650	[6631, 5107]	7698	[7935, 2788]
1555	[2596, 2597]	3603	[4967, 4968]	5651	[6632, 4657]	7699	[7936, 1098]
1556	[2598, 2599]	3604	[4969, 1657]	5652	[6633, 4428]	7700	[7937, 3225]
1557	[2066, 1672]	3605	[4970, 2488]	5653	[6634, 3989]	7701	[7938, 3560]
1558	[2067, 1895]	3606	[4971, 4941]	5654	[6635, 6636]	7702	[7939, 5909]
1559	[2600, 2601]	3607	[2625, 2637]	5655	[6637, 6552]	7703	[5716, 1291]
1560	[2602, 2603]	3608	[2379, 2221]	5656	[1980, 6638]	7704	[1454, 2995]
1561	[2604, 127]	3609	[4972, 1882]	5657	[6639, 2482]	7705	[439, 3238]
1562	[2605, 2294]	3610	[4973, 1668]	5658	[6640, 851]	7706	[1579, 254]
1563	[2606, 2607]	3611	[4974, 4772]	5659	[6641, 4858]	7707	[3553, 3254]
1564	[2608, 850]	3612	[4497, 4568]	5660	[6642, 602]	7708	[6287, 2704]
1565	[2609, 616]	3613	[4975, 4231]	5661	[796, 707]	7709	[7940, 3328]
1566	[2610, 515]	3614	[4976, 4977]	5662	[6643, 2069]	7710	[7941, 5876]

1567	[2611, 2612]	3615	[4978, 4979]	5663	[3999, 4157]	7711	[7942, 3386]
1568	[2613, 2098]	3616	[641, 4421]	5664	[6644, 1931]	7712	[7943, 291]
1569	[179, 2331]	3617	[4980, 4782]	5665	[6645, 560]	7713	[1129, 1162]
1570	[2614, 2615]	3618	[514, 2361]	5666	[6420, 2643]	7714	[7944, 3494]
1571	[2423, 2514]	3619	[4981, 898]	5667	[6646, 1625]	7715	[5616, 5922]
1572	[894, 2512]	3620	[4252, 4982]	5668	[4591, 1842]	7716	[7945, 3839]
1573	[2141, 2017]	3621	[4983, 538]	5669	[6647, 2569]	7717	[7946, 1381]
1574	[2616, 2617]	3622	[4984, 4985]	5670	[4941, 4011]	7718	[7947, 3034]
1575	[2217, 1675]	3623	[4986, 617]	5671	[6648, 6514]	7719	[5903, 6010]
1576	[2618, 715]	3624	[4987, 4671]	5672	[6649, 6650]	7720	[3434, 6196]
1577	[2619, 829]	3625	[4988, 248]	5673	[6651, 799]	7721	[7948, 2864]
1578	[2620, 2589]	3626	[4989, 4175]	5674	[4109, 6514]	7722	[7949, 1285]
1579	[2621, 491]	3627	[2212, 817]	5675	[6652, 832]	7723	[1532, 3499]
1580	[2622, 2623]	3628	[4990, 4042]	5676	[6653, 5102]	7724	[7950, 3473]
1581	[2624, 2625]	3629	[4991, 715]	5677	[214, 531]	7725	[1081, 3352]
1582	[2626, 2627]	3630	[4992, 829]	5678	[2262, 2286]	7726	[7951, 1348]
1583	[2628, 2014]	3631	[4993, 4994]	5679	[6654, 5240]	7727	[7952, 3084]
1584	[1963, 840]	3632	[4657, 899]	5680	[6655, 6656]	7728	[3466, 3199]
1585	[1965, 2116]	3633	[1857, 4995]	5681	[6657, 6500]	7729	[7953, 5978]
1586	[2629, 1651]	3634	[4206, 4996]	5682	[6658, 824]	7730	[7954, 5518]
1587	[2630, 2610]	3635	[4997, 2499]	5683	[832, 1667]	7731	[7955, 5313]
1588	[2631, 2483]	3636	[4998, 4848]	5684	[6659, 6567]	7732	[3129, 1381]
1589	[2632, 2633]	3637	[1817, 4999]	5685	[6660, 5017]	7733	[7956, 3625]
1590	[2326, 2634]	3638	[4161, 4943]	5686	[6661, 640]	7734	[7957, 3306]
1591	[2635, 197]	3639	[4358, 4260]	5687	[6662, 2568]	7735	[7958, 3563]
1592	[2636, 2637]	3640	[5000, 882]	5688	[6663, 59]	7736	[1380, 3807]
1593	[1927, 2052]	3641	[5001, 5002]	5689	[656, 4478]	7737	[7959, 1409]
1594	[2638, 2639]	3642	[4380, 2074]	5690	[6664, 6511]	7738	[7960, 2800]
1595	[2640, 864]	3643	[2312, 4495]	5691	[6665, 1783]	7739	[7961, 431]
1596	[2641, 2002]	3644	[4829, 4660]	5692	[6666, 1840]	7740	[7962, 5908]
1597	[2642, 2571]	3645	[5003, 2357]	5693	[6667, 2532]	7741	[6184, 3878]
1598	[2643, 2601]	3646	[5004, 2508]	5694	[1931, 1696]	7742	[7963, 1100]
1599	[2644, 2063]	3647	[4324, 38]	5695	[2193, 5190]	7743	[3510, 97]
1600	[206, 810]	3648	[2627, 5005]	5696	[6668, 6669]	7744	[7964, 2786]
1601	[2645, 2646]	3649	[5006, 4700]	5697	[6670, 158]	7745	[7965, 3336]
1602	[2647, 2648]	3650	[5007, 4613]	5698	[1632, 4882]	7746	[7966, 370]
1603	[2649, 2617]	3651	[5008, 173]	5699	[4775, 4304]	7747	[7967, 3142]
1604	[1882, 238]	3652	[4930, 4663]	5700	[6671, 1996]	7748	[7968, 3420]
1605	[2650, 2372]	3653	[5009, 515]	5701	[6672, 6673]	7749	[7969, 3154]
1606	[1925, 2240]	3654	[5010, 704]	5702	[1714, 5076]	7750	[7970, 1488]
1607	[2651, 2326]	3655	[4266, 2574]	5703	[6674, 2577]	7751	[7971, 928]
1608	[2652, 2653]	3656	[5011, 4147]	5704	[6675, 680]	7752	[7357, 3651]
1609	[2654, 778]	3657	[5012, 2166]	5705	[1770, 1850]	7753	[7972, 6188]
1610	[2655, 834]	3658	[5013, 706]	5706	[6676, 819]	7754	[7973, 3197]

1611	[2656, 2657]	3659	[5014, 4402]	5707	[4047, 668]	7755	[7974, 3136]
1612	[2658, 2659]	3660	[4223, 4487]	5708	[6677, 6433]	7756	[7975, 1281]
1613	[2660, 121]	3661	[5015, 2366]	5709	[6678, 6679]	7757	[1009, 5787]
1614	[2661, 2662]	3662	[5016, 1695]	5710	[4260, 4116]	7758	[6051, 6033]
1615	[2663, 2664]	3663	[482, 1868]	5711	[6680, 1942]	7759	[7976, 1388]
1616	[2665, 327]	3664	[4330, 5017]	5712	[6681, 6682]	7760	[1091, 3289]
1617	[2666, 2667]	3665	[2242, 4475]	5713	[2327, 5153]	7761	[1328, 6097]
1618	[2668, 2669]	3666	[5018, 216]	5714	[6683, 603]	7762	[5644, 3855]
1619	[2670, 2671]	3667	[5019, 4131]	5715	[6684, 4166]	7763	[7977, 2964]
1620	[1284, 2672]	3668	[5020, 4897]	5716	[6685, 4413]	7764	[1501, 1385]
1621	[2673, 2674]	3669	[5021, 785]	5717	[6686, 794]	7765	[3160, 314]
1622	[2675, 2676]	3670	[5022, 626]	5718	[4367, 2399]	7766	[3538, 1596]
1623	[2677, 1532]	3671	[5023, 540]	5719	[6687, 12]	7767	[7978, 2874]
1624	[2678, 2679]	3672	[5024, 1881]	5720	[6688, 4937]	7768	[7294, 2732]
1625	[2680, 2681]	3673	[5025, 1741]	5721	[4977, 4215]	7769	[5613, 3579]
1626	[2682, 122]	3674	[696, 2138]	5722	[830, 6351]	7770	[7979, 7209]
1627	[2683, 1448]	3675	[1812, 4803]	5723	[6689, 5034]	7771	[7980, 1457]
1628	[2684, 1450]	3676	[5026, 5027]	5724	[1896, 784]	7772	[5436, 6016]
1629	[2685, 2686]	3677	[5028, 5029]	5725	[4688, 801]	7773	[7981, 7353]
1630	[2687, 2688]	3678	[5030, 1843]	5726	[6690, 1622]	7774	[7982, 5386]
1631	[2689, 2690]	3679	[5031, 4335]	5727	[2072, 6636]	7775	[6136, 304]
1632	[2691, 2692]	3680	[5032, 2603]	5728	[6691, 2193]	7776	[5546, 3437]
1633	[64, 2693]	3681	[5033, 550]	5729	[4626, 763]	7777	[116, 1267]
1634	[2694, 2695]	3682	[5034, 1949]	5730	[6692, 4354]	7778	[7983, 2993]
1635	[2696, 2697]	3683	[5035, 1864]	5731	[6693, 4710]	7779	[3257, 997]
1636	[2698, 1202]	3684	[5036, 5037]	5732	[6694, 6354]	7780	[7984, 1270]
1637	[2699, 1515]	3685	[5038, 2533]	5733	[801, 4448]	7781	[7481, 367]
1638	[1363, 2700]	3686	[4627, 1824]	5734	[1953, 4985]	7782	[7985, 7871]
1639	[2701, 2702]	3687	[5039, 5040]	5735	[1724, 4324]	7783	[7986, 1534]
1640	[2703, 2704]	3688	[5041, 2275]	5736	[4621, 4500]	7784	[7987, 2732]
1641	[2705, 1146]	3689	[2548, 4572]	5737	[673, 4279]	7785	[5790, 3336]
1642	[2706, 2707]	3690	[5042, 743]	5738	[6695, 6361]	7786	[7988, 5520]
1643	[1484, 442]	3691	[5043, 5044]	5739	[6696, 4740]	7787	[7989, 3512]
1644	[2708, 1181]	3692	[5045, 5046]	5740	[6697, 1623]	7788	[7990, 3315]
1645	[2709, 2710]	3693	[5047, 2272]	5741	[6698, 6468]	7789	[3448, 3753]
1646	[2711, 2712]	3694	[5048, 1962]	5742	[6699, 6682]	7790	[2734, 3010]
1647	[2713, 445]	3695	[5049, 4698]	5743	[6700, 4388]	7791	[7991, 406]
1648	[962, 2714]	3696	[5050, 4133]	5744	[4518, 6656]	7792	[7992, 3114]
1649	[2715, 2716]	3697	[5051, 1710]	5745	[2161, 4636]	7793	[2895, 1340]
1650	[2717, 2701]	3698	[4074, 2422]	5746	[6701, 4808]	7794	[7122, 3174]
1651	[2718, 2719]	3699	[5052, 493]	5747	[6702, 6703]	7795	[3273, 982]
1652	[2720, 2721]	3700	[5053, 495]	5748	[1701, 4064]	7796	[914, 1080]
1653	[1007, 2722]	3701	[4545, 1861]	5749	[6704, 162]	7797	[1116, 6169]
1654	[2723, 2724]	3702	[5054, 2258]	5750	[6705, 6580]	7798	[7993, 5696]

1655	[1600, 2725]	3703	[5055, 4534]	5751	[6706, 4788]	7799	[7994, 7563]
1656	[425, 2726]	3704	[5056, 4648]	5752	[6707, 4785]	7800	[7210, 5908]
1657	[2727, 2728]	3705	[5057, 2427]	5753	[1709, 4111]	7801	[7995, 1577]
1658	[469, 2729]	3706	[5058, 2063]	5754	[6708, 2086]	7802	[7996, 1315]
1659	[2730, 1169]	3707	[5059, 2207]	5755	[6709, 5269]	7803	[7997, 1288]
1660	[2731, 914]	3708	[5060, 5061]	5756	[6710, 4011]	7804	[3230, 3910]
1661	[2732, 1247]	3709	[5062, 814]	5757	[6711, 4449]	7805	[7998, 2787]
1662	[2733, 2734]	3710	[5063, 2268]	5758	[2523, 6712]	7806	[1295, 3144]
1663	[2735, 84]	3711	[5064, 4072]	5759	[2189, 4146]	7807	[269, 1165]
1664	[2736, 2737]	3712	[5065, 784]	5760	[1949, 4301]	7808	[7999, 919]
1665	[2738, 2739]	3713	[177, 5066]	5761	[6713, 588]	7809	[5768, 3956]
1666	[2740, 2741]	3714	[2199, 2152]	5762	[2544, 5120]	7810	[8000, 950]
1667	[2742, 2743]	3715	[5067, 2403]	5763	[4559, 4991]	7811	[3174, 460]
1668	[1509, 2744]	3716	[2414, 1621]	5764	[6714, 6715]	7812	[8001, 1561]
1669	[2745, 2746]	3717	[2404, 4002]	5765	[1630, 635]	7813	[980, 5815]
1670	[2747, 2748]	3718	[201, 2639]	5766	[6716, 4380]	7814	[348, 5739]
1671	[2749, 2750]	3719	[1890, 773]	5767	[6717, 4381]	7815	[8002, 3425]
1672	[2751, 2752]	3720	[5068, 2433]	5768	[6718, 2347]	7816	[3423, 7563]
1673	[2753, 2754]	3721	[758, 2413]	5769	[6719, 5242]	7817	[8003, 256]
1674	[2755, 2756]	3722	[5069, 755]	5770	[6720, 6721]	7818	[1206, 1095]
1675	[2757, 2758]	3723	[5070, 2414]	5771	[6722, 6723]	7819	[3401, 3610]
1676	[18, 2759]	3724	[773, 4003]	5772	[6724, 6725]	7820	[8004, 5815]
1677	[1032, 2760]	3725	[5071, 2407]	5773	[6726, 4866]	7821	[3585, 1415]
1678	[2758, 2761]	3726	[4009, 5072]	5774	[4962, 4694]	7822	[3356, 5807]
1679	[2762, 83]	3727	[5073, 2413]	5775	[6727, 2367]	7823	[5518, 7398]
1680	[2763, 1172]	3728	[2405, 761]	5776	[4527, 2362]	7824	[8005, 3392]
1681	[2764, 2765]	3729	[765, 215]	5777	[6728, 838]	7825	[8006, 958]
1682	[2766, 2767]	3730	[4387, 2255]	5778	[4522, 5246]	7826	[8007, 2862]
1683	[2768, 2769]	3731	[5074, 4163]	5779	[4684, 4877]	7827	[431, 5717]
1684	[2770, 449]	3732	[5075, 5076]	5780	[6729, 4336]	7828	[8008, 1542]
1685	[2771, 2772]	3733	[5077, 4604]	5781	[2368, 4832]	7829	[1369, 6125]
1686	[2773, 1437]	3734	[42, 5078]	5782	[6730, 4187]	7830	[8009, 2667]
1687	[2774, 2775]	3735	[5079, 4739]	5783	[6731, 1875]	7831	[8010, 3929]
1688	[2776, 2777]	3736	[579, 5080]	5784	[4942, 4186]	7832	[3489, 2866]
1689	[2778, 912]	3737	[5081, 4518]	5785	[2299, 4814]	7833	[8011, 290]
1690	[2779, 2780]	3738	[2465, 896]	5786	[4891, 6608]	7834	[1212, 5657]
1691	[2716, 1602]	3739	[827, 514]	5787	[6732, 4462]	7835	[8012, 3258]
1692	[2781, 909]	3740	[5082, 864]	5788	[6733, 6428]	7836	[8013, 1432]
1693	[2782, 1421]	3741	[5083, 5084]	5789	[6734, 6735]	7837	[8014, 7231]
1694	[2783, 2784]	3742	[4054, 486]	5790	[6736, 1751]	7838	[8015, 2677]
1695	[2785, 1516]	3743	[5085, 5086]	5791	[6737, 5199]	7839	[6263, 5858]
1696	[2786, 2787]	3744	[5087, 4838]	5792	[6738, 2559]	7840	[1291, 3776]
1697	[2788, 2789]	3745	[5088, 5066]	5793	[6739, 1909]	7841	[8016, 7149]
1698	[1114, 2790]	3746	[2433, 2401]	5794	[6740, 741]	7842	[5580, 3922]

1699	[2791, 2792]	3747	[5089, 2402]	5795	[3989, 6703]	7843	[8017, 3080]
1700	[2793, 2794]	3748	[62, 5090]	5796	[6741, 4258]	7844	[8018, 110]
1701	[2795, 2796]	3749	[5091, 2464]	5797	[6742, 6743]	7845	[8019, 3172]
1702	[1581, 2797]	3750	[5092, 1902]	5798	[6744, 6745]	7846	[8020, 3399]
1703	[1079, 2798]	3751	[5093, 5005]	5799	[2601, 519]	7847	[3050, 3795]
1704	[273, 1147]	3752	[5094, 5095]	5800	[6746, 2051]	7848	[5744, 7888]
1705	[2799, 2800]	3753	[5096, 4562]	5801	[6747, 6557]	7849	[337, 7244]
1706	[2801, 2802]	3754	[5097, 4048]	5802	[6371, 2004]	7850	[1323, 5681]
1707	[2803, 1177]	3755	[1935, 4701]	5803	[6748, 6749]	7851	[3632, 5968]
1708	[2804, 2805]	3756	[1847, 4326]	5804	[6750, 1796]	7852	[8021, 86]
1709	[1447, 2806]	3757	[245, 5098]	5805	[1955, 2628]	7853	[2853, 7149]
1710	[2807, 2808]	3758	[5099, 5067]	5806	[6751, 5212]	7854	[8022, 3387]
1711	[2809, 1179]	3759	[5100, 2133]	5807	[6752, 2507]	7855	[8023, 3135]
1712	[1524, 2661]	3760	[879, 4727]	5808	[6753, 4626]	7856	[3875, 449]
1713	[2810, 2811]	3761	[5101, 4177]	5809	[6754, 6755]	7857	[5352, 3541]
1714	[2812, 2813]	3762	[1958, 5102]	5810	[6756, 4087]	7858	[6128, 903]
1715	[2814, 1099]	3763	[5103, 5035]	5811	[2398, 6650]	7859	[6203, 5680]
1716	[2815, 2816]	3764	[5104, 5105]	5812	[6757, 6551]	7860	[8024, 4738]
1717	[2817, 2801]	3765	[5106, 203]	5813	[2053, 4820]	7861	[882, 6515]
1718	[2818, 2819]	3766	[4757, 5107]	5814	[4766, 4869]	7862	[8025, 5055]
1719	[2820, 2684]	3767	[5108, 4789]	5815	[6758, 3987]	7863	[8026, 4669]
1720	[2821, 2822]	3768	[5109, 4416]	5816	[1751, 1886]	7864	[8027, 2168]
1721	[2823, 2824]	3769	[5110, 4025]	5817	[4670, 6339]	7865	[6418, 4307]
1722	[2825, 2826]	3770	[5111, 4355]	5818	[6759, 2145]	7866	[8028, 4088]
1723	[2827, 1302]	3771	[5112, 633]	5819	[6760, 2343]	7867	[8029, 4958]
1724	[2828, 2829]	3772	[754, 2119]	5820	[5136, 640]	7868	[8030, 6835]
1725	[2830, 2831]	3773	[5113, 1791]	5821	[2288, 834]	7869	[8031, 4707]
1726	[2832, 2833]	3774	[1897, 860]	5822	[6761, 4727]	7870	[1915, 2540]
1727	[2834, 2835]	3775	[4334, 1986]	5823	[6762, 1764]	7871	[8032, 2610]
1728	[2836, 2837]	3776	[5114, 746]	5824	[6763, 2467]	7872	[534, 4068]
1729	[2838, 1144]	3777	[5115, 2608]	5825	[40, 6345]	7873	[8033, 6523]
1730	[2839, 2840]	3778	[4797, 4594]	5826	[6764, 4182]	7874	[8034, 4511]
1731	[2841, 2842]	3779	[5002, 5116]	5827	[6765, 4318]	7875	[8035, 4776]
1732	[2843, 950]	3780	[5117, 5118]	5828	[767, 5252]	7876	[8036, 4991]
1733	[441, 2844]	3781	[5119, 4230]	5829	[6766, 2604]	7877	[8037, 7]
1734	[2845, 2846]	3782	[5120, 4173]	5830	[6767, 4060]	7878	[6946, 7000]
1735	[2847, 2848]	3783	[4937, 2302]	5831	[2511, 6375]	7879	[8038, 2241]
1736	[2849, 2850]	3784	[1912, 5121]	5832	[6768, 6364]	7880	[608, 6618]
1737	[2851, 2852]	3785	[5122, 2461]	5833	[6769, 4236]	7881	[1753, 2238]
1738	[126, 69]	3786	[5123, 5124]	5834	[6770, 2175]	7882	[8039, 4552]
1739	[1125, 2853]	3787	[5125, 1961]	5835	[6771, 2517]	7883	[8040, 6868]
1740	[2854, 2855]	3788	[5126, 4067]	5836	[1809, 4833]	7884	[8041, 7767]
1741	[998, 2856]	3789	[2293, 5035]	5837	[1854, 1682]	7885	[6606, 4989]
1742	[2857, 957]	3790	[5127, 1701]	5838	[6772, 4157]	7886	[8042, 7700]

1743	[2858, 318]	3791	[5128, 2082]	5839	[6535, 6773]	7887	[5098, 4957]
1744	[2859, 2731]	3792	[5129, 4792]	5840	[6774, 5004]	7888	[8043, 1995]
1745	[2860, 2861]	3793	[1822, 4781]	5841	[6775, 2078]	7889	[8044, 4200]
1746	[2862, 2657]	3794	[5130, 625]	5842	[6776, 6760]	7890	[859, 4331]
1747	[2863, 2864]	3795	[5131, 842]	5843	[6777, 5242]	7891	[8045, 1991]
1748	[2865, 2866]	3796	[5132, 500]	5844	[4154, 6778]	7892	[7799, 5034]
1749	[2867, 109]	3797	[1695, 2106]	5845	[6779, 4964]	7893	[4131, 737]
1750	[1348, 2868]	3798	[5133, 1737]	5846	[1775, 6673]	7894	[8046, 4203]
1751	[2798, 2869]	3799	[5134, 1801]	5847	[6780, 4557]	7895	[2007, 4819]
1752	[2870, 2871]	3800	[5135, 5136]	5848	[2017, 6781]	7896	[8047, 2270]
1753	[2872, 997]	3801	[619, 547]	5849	[818, 2613]	7897	[6847, 2024]
1754	[2873, 1124]	3802	[5137, 1927]	5850	[6365, 5037]	7898	[8048, 7837]
1755	[1305, 2874]	3803	[5138, 1926]	5851	[6782, 2018]	7899	[4642, 6353]
1756	[2875, 2876]	3804	[5139, 5140]	5852	[4255, 3999]	7900	[8049, 4591]
1757	[2877, 2878]	3805	[5141, 5084]	5853	[6783, 6784]	7901	[8050, 1721]
1758	[2879, 2880]	3806	[5037, 2502]	5854	[6785, 2344]	7902	[635, 6401]
1759	[2881, 2882]	3807	[5142, 4306]	5855	[4458, 4524]	7903	[846, 7767]
1760	[2676, 2880]	3808	[5143, 4797]	5856	[6786, 1634]	7904	[8051, 6577]
1761	[2883, 2884]	3809	[5144, 4458]	5857	[1625, 6787]	7905	[4999, 4479]
1762	[2885, 2886]	3810	[5145, 5027]	5858	[6788, 4288]	7906	[8052, 7759]
1763	[2887, 1054]	3811	[5146, 4335]	5859	[6789, 181]	7907	[7798, 2529]
1764	[289, 2888]	3812	[5147, 498]	5860	[183, 6576]	7908	[8053, 2198]
1765	[2889, 2890]	3813	[5148, 1934]	5861	[6790, 6589]	7909	[6613, 4135]
1766	[1346, 2891]	3814	[5149, 5026]	5862	[2421, 6566]	7910	[2139, 8042]
1767	[2892, 2893]	3815	[5150, 4607]	5863	[6791, 1798]	7911	[8054, 2214]
1768	[2894, 2895]	3816	[5151, 4728]	5864	[2290, 4666]	7912	[8055, 6940]
1769	[2896, 1518]	3817	[5152, 5153]	5865	[1807, 4412]	7913	[8056, 7674]
1770	[1247, 2897]	3818	[5154, 2607]	5866	[6792, 6793]	7914	[8057, 622]
1771	[2898, 2899]	3819	[5155, 4481]	5867	[6735, 4595]	7915	[8058, 6613]
1772	[2900, 2901]	3820	[848, 4470]	5868	[6794, 2072]	7916	[8059, 131]
1773	[2902, 2903]	3821	[5156, 4228]	5869	[6795, 2485]	7917	[7780, 5007]
1774	[358, 2904]	3822	[5157, 2444]	5870	[6721, 5124]	7918	[8060, 3978]
1775	[2905, 1337]	3823	[5158, 1963]	5871	[6796, 4299]	7919	[8061, 6515]
1776	[2906, 1012]	3824	[5153, 4858]	5872	[6797, 6413]	7920	[8062, 4343]
1777	[2907, 2908]	3825	[5159, 2065]	5873	[6798, 4313]	7921	[8063, 6982]
1778	[2909, 2910]	3826	[5160, 2317]	5874	[2126, 6371]	7922	[8064, 4957]
1779	[317, 2911]	3827	[1680, 4873]	5875	[4770, 2307]	7923	[8065, 8042]
1780	[2912, 1326]	3828	[5161, 2154]	5876	[508, 6749]	7924	[8066, 672]
1781	[2913, 2914]	3829	[5162, 2162]	5877	[6799, 6800]	7925	[512, 6747]
1782	[2915, 1453]	3830	[5163, 5164]	5878	[6801, 3986]	7926	[645, 6879]
1783	[2916, 2917]	3831	[5165, 232]	5879	[6802, 3997]	7927	[8067, 4250]
1784	[2918, 1323]	3832	[5166, 1800]	5880	[6803, 2052]	7928	[7643, 2214]
1785	[2919, 2920]	3833	[5167, 1676]	5881	[6650, 1971]	7929	[8068, 718]
1786	[2921, 2922]	3834	[2186, 1635]	5882	[6804, 1713]	7930	[7712, 4480]

1787	[2923, 116]	3835	[584, 4338]	5883	[6805, 4749]	7931	[888, 646]
1788	[2924, 2925]	3836	[5168, 5169]	5884	[6806, 215]	7932	[873, 4086]
1789	[2926, 2927]	3837	[5170, 4242]	5885	[6807, 1660]	7933	[8069, 4251]
1790	[2928, 2929]	3838	[5171, 4304]	5886	[6808, 6472]	7934	[8070, 4598]
1791	[2930, 2931]	3839	[2419, 5172]	5887	[6809, 4877]	7935	[8071, 4599]
1792	[1303, 2932]	3840	[5173, 2554]	5888	[6810, 4504]	7936	[8072, 6781]
1793	[2933, 2934]	3841	[5174, 4896]	5889	[6811, 6638]	7937	[4038, 2209]
1794	[2935, 2936]	3842	[5175, 4820]	5890	[4605, 5197]	7938	[8073, 6925]
1795	[2937, 973]	3843	[2297, 5176]	5891	[884, 4140]	7939	[8074, 2013]
1796	[2938, 314]	3844	[5177, 2273]	5892	[6812, 6813]	7940	[6818, 4383]
1797	[2939, 924]	3845	[5178, 4195]	5893	[2462, 4109]	7941	[5084, 4329]
1798	[2940, 2941]	3846	[5179, 4545]	5894	[6814, 4943]	7942	[8075, 6773]
1799	[1449, 2942]	3847	[5090, 1738]	5895	[4351, 2490]	7943	[4577, 4262]
1800	[2943, 2944]	3848	[5180, 1832]	5896	[6815, 1725]	7944	[6723, 6462]
1801	[2945, 2946]	3849	[5181, 4027]	5897	[6816, 4460]	7945	[8076, 4731]
1802	[1299, 1501]	3850	[5182, 4929]	5898	[6817, 6818]	7946	[4461, 2383]
1803	[2947, 2948]	3851	[5183, 5094]	5899	[6819, 1879]	7947	[8077, 7011]
1804	[2949, 2950]	3852	[4996, 4810]	5900	[4173, 2456]	7948	[7692, 4200]
1805	[2951, 2952]	3853	[5184, 1989]	5901	[6820, 5095]	7949	[8078, 7677]
1806	[2953, 2954]	3854	[5185, 2045]	5902	[1640, 5266]	7950	[8079, 4864]
1807	[2955, 2956]	3855	[5186, 10]	5903	[6821, 4791]	7951	[8080, 4235]
1808	[2957, 2958]	3856	[5187, 2127]	5904	[4487, 5086]	7952	[4106, 6398]
1809	[2959, 2960]	3857	[5188, 2436]	5905	[2088, 620]	7953	[4095, 648]
1810	[2961, 1253]	3858	[5189, 2574]	5906	[6822, 4059]	7954	[881, 6925]
1811	[2962, 2963]	3859	[5190, 45]	5907	[6745, 573]	7955	[2092, 7837]
1812	[2964, 336]	3860	[5191, 4022]	5908	[6823, 4051]	7956	[1872, 5057]
1813	[2965, 2966]	3861	[5192, 5193]	5909	[2019, 5056]	7957	[8081, 4272]
1814	[2967, 2968]	3862	[5194, 1977]	5910	[4579, 5269]	7958	[2374, 1787]
1815	[2969, 2970]	3863	[5195, 4753]	5911	[6824, 1697]	7959	[8082, 806]
1816	[2816, 943]	3864	[5196, 592]	5912	[6825, 1748]	7960	[2593, 4774]
1817	[2971, 1047]	3865	[5197, 1793]	5913	[4821, 2272]	7961	[840, 7024]
1818	[2972, 2973]	3866	[2185, 1899]	5914	[6826, 2508]	7962	[8083, 7061]
1819	[2974, 2975]	3867	[4087, 5198]	5915	[4225, 4085]	7963	[7784, 6562]
1820	[2976, 2977]	3868	[4506, 5199]	5916	[6827, 2551]	7964	[8084, 7665]
1821	[2978, 2979]	3869	[5200, 5056]	5917	[6828, 2096]	7965	[8085, 6334]
1822	[2980, 2981]	3870	[2549, 5201]	5918	[1889, 32]	7966	[738, 1637]
1823	[2982, 2983]	3871	[5202, 686]	5919	[6829, 2138]	7967	[4906, 7570]
1824	[2984, 1503]	3872	[5203, 1909]	5920	[197, 4339]	7968	[8086, 4819]
1825	[2985, 2708]	3873	[4902, 2419]	5921	[6800, 6830]	7969	[2366, 7657]
1826	[2986, 2987]	3874	[1961, 4276]	5922	[6831, 6527]	7970	[8087, 6640]
1827	[2988, 1571]	3875	[4604, 1940]	5923	[6832, 4426]	7971	[8088, 6695]
1828	[2989, 1446]	3876	[1956, 4349]	5924	[6833, 545]	7972	[8089, 4988]
1829	[1311, 2990]	3877	[5204, 2244]	5925	[6834, 4570]	7973	[8090, 6681]
1830	[2991, 2992]	3878	[5205, 654]	5926	[4704, 867]	7974	[2637, 4680]

1831	[2993, 2886]	3879	[5206, 1812]	5927	[4058, 2644]	7975	[1779, 2231]
1832	[2994, 2995]	3880	[5207, 2222]	5928	[5105, 6835]	7976	[8091, 6632]
1833	[2996, 2997]	3881	[2361, 571]	5929	[6836, 4369]	7977	[8092, 646]
1834	[2998, 2811]	3882	[5208, 4825]	5930	[2571, 4328]	7978	[528, 7780]
1835	[1375, 2999]	3883	[5209, 861]	5931	[6837, 4199]	7979	[690, 2500]
1836	[3000, 3001]	3884	[5210, 1926]	5932	[6838, 4188]	7980	[8093, 1752]
1837	[3002, 3003]	3885	[4299, 212]	5933	[1839, 47]	7981	[2477, 4171]
1838	[3004, 1568]	3886	[2536, 4056]	5934	[6839, 4310]	7982	[1619, 4625]
1839	[3005, 3006]	3887	[2590, 2568]	5935	[1660, 4306]	7983	[4675, 4251]
1840	[3007, 3008]	3888	[5211, 5212]	5936	[6840, 2238]	7984	[8094, 6719]
1841	[3009, 3010]	3889	[5213, 2232]	5937	[6841, 2026]	7985	[6464, 2583]
1842	[297, 1297]	3890	[744, 4549]	5938	[574, 2559]	7986	[4789, 4864]
1843	[3011, 3012]	3891	[5214, 1789]	5939	[6842, 1992]	7987	[8095, 6891]
1844	[3013, 3014]	3892	[5078, 4325]	5940	[6843, 2327]	7988	[6623, 6640]
1845	[3015, 2757]	3893	[5215, 645]	5941	[1761, 5179]	7989	[8096, 4735]
1846	[3016, 3017]	3894	[187, 4396]	5942	[6844, 6439]	7990	[6638, 7841]
1847	[3018, 2958]	3895	[4456, 5216]	5943	[6845, 6666]	7991	[8097, 6603]
1848	[1473, 1476]	3896	[5217, 878]	5944	[6846, 6847]	7992	[8098, 6424]
1849	[3019, 3020]	3897	[4378, 5218]	5945	[6848, 3993]	7993	[8099, 2252]
1850	[3021, 3022]	3898	[2372, 5169]	5946	[6336, 1771]	7994	[8100, 5132]
1851	[3023, 3024]	3899	[5219, 132]	5947	[6849, 6850]	7995	[4762, 4088]
1852	[3025, 1105]	3900	[5220, 4783]	5948	[6851, 4262]	7996	[8101, 7000]
1853	[3026, 2944]	3901	[5221, 5222]	5949	[6852, 2305]	7997	[6459, 2241]
1854	[3027, 1271]	3902	[5223, 5224]	5950	[6853, 1777]	7998	[2191, 7782]
1855	[1155, 3028]	3903	[5225, 2404]	5951	[6854, 4586]	7999	[2268, 1673]
1856	[3029, 1204]	3904	[5226, 2435]	5952	[6787, 2520]	8000	[8102, 1941]
1857	[3030, 1409]	3905	[5227, 4217]	5953	[6855, 4994]	8001	[8103, 7566]
1858	[3031, 3032]	3906	[4178, 5118]	5954	[6856, 2602]	8002	[8104, 5057]
1859	[3033, 3034]	3907	[5228, 4471]	5955	[6857, 5061]	8003	[8105, 6707]
1860	[3035, 3036]	3908	[5229, 139]	5956	[532, 768]	8004	[1682, 6334]
1861	[3037, 3038]	3909	[5124, 1735]	5957	[1910, 4398]	8005	[8106, 6398]
1862	[3039, 3040]	3910	[5230, 1885]	5958	[6858, 735]	8006	[2197, 7665]
1863	[3041, 320]	3911	[5231, 152]	5959	[6859, 1983]	8007	[4145, 3979]
1864	[3042, 3043]	3912	[5232, 4340]	5960	[6860, 4993]	8008	[1712, 7820]
1865	[2835, 1019]	3913	[4022, 3987]	5961	[4886, 5004]	8009	[8107, 7841]
1866	[3044, 1148]	3914	[4816, 2581]	5962	[6861, 2469]	8010	[8108, 6739]
1867	[3045, 3046]	3915	[4040, 2522]	5963	[6862, 2428]	8011	[660, 4370]
1868	[902, 3047]	3916	[5233, 659]	5964	[6863, 4527]	8012	[8109, 4370]
1869	[3048, 303]	3917	[5234, 4113]	5965	[5222, 11]	8013	[5076, 7617]
1870	[3049, 3050]	3918	[4355, 1796]	5966	[6864, 2336]	8014	[8110, 1920]
1871	[3051, 1370]	3919	[5235, 5236]	5967	[4862, 6847]	8015	[1718, 2496]
1872	[3052, 3053]	3920	[5237, 2472]	5968	[6865, 2064]	8016	[199, 1782]
1873	[3054, 1277]	3921	[5238, 512]	5969	[817, 2651]	8017	[1651, 4511]
1874	[3055, 1111]	3922	[5239, 4704]	5970	[6866, 5191]	8018	[8111, 5228]

1875	[3056, 3057]	3923	[4968, 1964]	5971	[4499, 4939]	8019	[2234, 2555]
1876	[3058, 3059]	3924	[4467, 771]	5972	[4228, 5262]	8020	[8112, 1811]
1877	[3060, 336]	3925	[4201, 5240]	5973	[4785, 6755]	8021	[4610, 4112]
1878	[3061, 3062]	3926	[5241, 1718]	5974	[4176, 2469]	8022	[2445, 6868]
1879	[3063, 463]	3927	[5242, 210]	5975	[6773, 4913]	8023	[8113, 4528]
1880	[3064, 3065]	3928	[5243, 4246]	5976	[4798, 4081]	8024	[1443, 5345]
1881	[3020, 3066]	3929	[4483, 4217]	5977	[6867, 6857]	8025	[8114, 3674]
1882	[3067, 3068]	3930	[4394, 4583]	5978	[6868, 3992]	8026	[3354, 5282]
1883	[3069, 3070]	3931	[5244, 205]	5979	[6869, 6399]	8027	[8115, 5346]
1884	[3071, 3072]	3932	[5245, 2060]	5980	[6870, 5243]	8028	[5598, 5374]
1885	[409, 264]	3933	[5246, 2185]	5981	[6871, 6576]	8029	[3611, 5278]
1886	[2868, 3073]	3934	[1, 4725]	5982	[6830, 5024]	8030	[2944, 3883]
1887	[3074, 3075]	3935	[2495, 1813]	5983	[4713, 1641]	8031	[1578, 1548]
1888	[1210, 1248]	3936	[4664, 1852]	5984	[4393, 741]	8032	[8116, 2848]
1889	[3076, 3077]	3937	[5247, 4730]	5985	[6872, 2457]	8033	[2744, 1089]
1890	[2672, 3078]	3938	[1788, 2612]	5986	[6873, 6787]	8034	[3484, 5672]
1891	[3079, 1517]	3939	[5248, 2304]	5987	[6874, 4356]	8035	[5357, 5450]
1892	[3080, 3081]	3940	[1970, 749]	5988	[6875, 2409]	8036	[8117, 1085]
1893	[3082, 1417]	3941	[5249, 2536]	5989	[6876, 4215]	8037	[8118, 5276]
1894	[3083, 3084]	3942	[5250, 1650]	5990	[6877, 6878]	8038	[8119, 1527]
1895	[1073, 1432]	3943	[5251, 4999]	5991	[2400, 653]	8039	[7443, 3763]
1896	[3085, 1434]	3944	[5252, 129]	5992	[6879, 6589]	8040	[3435, 2873]
1897	[1261, 1552]	3945	[5216, 2084]	5993	[6880, 2570]	8041	[5562, 3525]
1898	[3086, 3087]	3946	[2519, 4231]	5994	[6339, 4603]	8042	[8120, 6227]
1899	[3088, 262]	3947	[2282, 2229]	5995	[6881, 4996]	8043	[929, 3617]
1900	[3089, 1337]	3948	[5253, 2117]	5996	[6882, 62]	8044	[8121, 2767]
1901	[3090, 3091]	3949	[4044, 231]	5997	[6883, 4729]	8045	[1583, 2824]
1902	[3092, 3093]	3950	[5254, 5078]	5998	[6703, 6551]	8046	[5757, 3805]
1903	[3094, 2776]	3951	[844, 2504]	5999	[6884, 6408]	8047	[8122, 3373]
1904	[992, 290]	3952	[5255, 1729]	6000	[6516, 6577]	8048	[8123, 5299]
1905	[3095, 3096]	3953	[4855, 4191]	6001	[6885, 4781]	8049	[8124, 297]
1906	[908, 3097]	3954	[5256, 1930]	6002	[6886, 571]	8050	[8125, 3474]
1907	[3098, 3099]	3955	[1707, 628]	6003	[6887, 4857]	8051	[8126, 7320]
1908	[74, 3100]	3956	[5257, 4290]	6004	[6888, 5235]	8052	[1573, 5534]
1909	[3101, 3102]	3957	[5046, 2444]	6005	[2279, 598]	8053	[5397, 6227]
1910	[3103, 3104]	3958	[5258, 2134]	6006	[4431, 1923]	8054	[8127, 1536]
1911	[3105, 1155]	3959	[5259, 614]	6007	[6460, 4886]	8055	[5796, 3535]
1912	[3106, 3107]	3960	[2084, 2317]	6008	[6889, 539]	8056	[3322, 7148]
1913	[2824, 3108]	3961	[5260, 5072]	6009	[891, 1797]	8057	[8128, 5404]
1914	[3109, 1076]	3962	[5261, 4174]	6010	[6890, 793]	8058	[3617, 5687]
1915	[3110, 3111]	3963	[5262, 4378]	6011	[6891, 6457]	8059	[1245, 5803]
1916	[3112, 441]	3964	[4315, 674]	6012	[4415, 1624]	8060	[1512, 6047]
1917	[3113, 3114]	3965	[5263, 1896]	6013	[2564, 234]	8061	[5934, 5298]
1918	[3115, 1255]	3966	[5264, 1929]	6014	[243, 6472]	8062	[5753, 2671]

1919	[366, 1230]	3967	[5265, 5266]	6015	[6892, 6566]	8063	[8129, 1132]
1920	[3116, 3117]	3968	[5267, 159]	6016	[6893, 2100]	8064	[8130, 2819]
1921	[3118, 3119]	3969	[5268, 3980]	6017	[2049, 552]	8065	[3407, 3506]
1922	[70, 3120]	3970	[5269, 685]	6018	[6894, 4512]	8066	[8131, 2922]
1923	[3121, 3122]	3971	[4908, 4373]	6019	[790, 6394]	8067	[1195, 7118]
1924	[3123, 3124]	3972	[4017, 5044]	6020	[130, 885]	8068	[3932, 3677]
1925	[947, 3125]	3973	[5270, 2470]	6021	[6895, 6535]	8069	[8132, 1138]
1926	[3126, 125]	3974	[5271, 5272]	6022	[6896, 4914]	8070	[8133, 908]
1927	[368, 3127]	3975	[4815, 1686]	6023	[4735, 6715]	8071	[8134, 1363]
1928	[3128, 3129]	3976	[4390, 4233]	6024	[6897, 6439]	8072	[3240, 5339]
1929	[3130, 1351]	3977	[5273, 4273]	6025	[6898, 4140]	8073	[3545, 1030]
1930	[3131, 2786]	3978	[5274, 3532]	6026	[6428, 6899]	8074	[8135, 5712]
1931	[3132, 2716]	3979	[5275, 3654]	6027	[136, 2313]	8075	[5477, 3033]
1932	[3133, 98]	3980	[5276, 3714]	6028	[6900, 1921]	8076	[8136, 1226]
1933	[1553, 3134]	3981	[5277, 3319]	6029	[2182, 2604]	8077	[8137, 450]
1934	[3135, 3136]	3982	[5278, 5279]	6030	[6901, 6473]	8078	[261, 2964]
1935	[3137, 3138]	3983	[5280, 21]	6031	[6902, 1774]	8079	[3711, 2727]
1936	[3139, 92]	3984	[5281, 5282]	6032	[4872, 6784]	8080	[3024, 2730]
1937	[1249, 909]	3985	[5283, 5284]	6033	[6903, 2199]	8081	[2789, 475]
1938	[1423, 3140]	3986	[1415, 2771]	6034	[6904, 4547]	8082	[8138, 1472]
1939	[1228, 3141]	3987	[1445, 3637]	6035	[6905, 4246]	8083	[3214, 6]
1940	[3047, 3142]	3988	[5285, 3097]	6036	[142, 1960]	8084	[3008, 3118]
1941	[3143, 3144]	3989	[1118, 3344]	6037	[6906, 2651]	8085	[5620, 7891]
1942	[3145, 3146]	3990	[5286, 305]	6038	[6715, 4213]	8086	[8139, 3158]
1943	[3147, 1225]	3991	[3733, 3874]	6039	[6907, 2167]	8087	[8140, 3741]
1944	[3148, 3149]	3992	[3759, 5287]	6040	[6908, 818]	8088	[8141, 2681]
1945	[3150, 2759]	3993	[1365, 1298]	6041	[4481, 1767]	8089	[3769, 1098]
1946	[3151, 1521]	3994	[5288, 1343]	6042	[6909, 6910]	8090	[8142, 3409]
1947	[2852, 1191]	3995	[5289, 3175]	6043	[6911, 1647]	8091	[8143, 1193]
1948	[3152, 264]	3996	[110, 3907]	6044	[6912, 4353]	8092	[3958, 1211]
1949	[3153, 3154]	3997	[5290, 1336]	6045	[1837, 826]	8093	[2932, 7900]
1950	[3155, 3156]	3998	[1015, 308]	6046	[6913, 4121]	8094	[3815, 5720]
1951	[958, 2801]	3999	[1048, 80]	6047	[6914, 4294]	8095	[7163, 5964]
1952	[3157, 1607]	4000	[5291, 3903]	6048	[6915, 2497]	8096	[7353, 1387]
1953	[118, 3158]	4001	[3722, 5291]	6049	[6916, 664]	8097	[8144, 1058]
1954	[3159, 3160]	4002	[3719, 3156]	6050	[6743, 4350]	8098	[5996, 394]
1955	[3161, 3162]	4003	[1417, 397]	6051	[5118, 4363]	8099	[8145, 6133]
1956	[3163, 3164]	4004	[5292, 2706]	6052	[857, 5053]	8100	[8146, 5580]
1957	[3165, 3166]	4005	[5293, 3440]	6053	[6917, 4825]	8101	[7900, 5667]
1958	[3167, 3168]	4006	[2948, 3647]	6054	[6918, 2535]	8102	[8147, 24]
1959	[3169, 414]	4007	[5294, 5295]	6055	[2553, 6671]	8103	[8148, 3245]
1960	[3170, 3171]	4008	[1405, 3419]	6056	[6919, 4122]	8104	[8149, 3740]
1961	[96, 103]	4009	[1594, 395]	6057	[2570, 6445]	8105	[8150, 5691]
1962	[3172, 1522]	4010	[5296, 3682]	6058	[4444, 4977]	8106	[8151, 3789]

1963	[3173, 3174]	4011	[5297, 1398]	6059	[2107, 5033]	8107	[8152, 5505]
1964	[283, 3175]	4012	[5298, 5299]	6060	[6920, 4429]	8108	[5758, 1347]
1965	[945, 3176]	4013	[5300, 959]	6061	[5072, 5067]	8109	[3464, 3849]
1966	[3177, 1067]	4014	[3182, 466]	6062	[2316, 2092]	8110	[8153, 3481]
1967	[1469, 3178]	4015	[1489, 3056]	6063	[6921, 6618]	8111	[8154, 3380]
1968	[2811, 3179]	4016	[372, 5301]	6064	[6922, 4311]	8112	[8155, 418]
1969	[3180, 1295]	4017	[5302, 1131]	6065	[6923, 4559]	8113	[1587, 3828]
1970	[3181, 3182]	4018	[1354, 5303]	6066	[6924, 4130]	8114	[8156, 4457]
1971	[3183, 3184]	4019	[5304, 5305]	6067	[2454, 6745]	8115	[8157, 2490]
1972	[3185, 64]	4020	[5306, 5307]	6068	[490, 4424]	8116	[8158, 5190]
1973	[3186, 3187]	4021	[5308, 5309]	6069	[6925, 1719]	8117	[8159, 6462]
1974	[3188, 3189]	4022	[5310, 1568]	6070	[6926, 2313]	8118	[7722, 6982]
1975	[2790, 3190]	4023	[5311, 1449]	6071	[6927, 4210]	8119	[8160, 3979]
1976	[1026, 3191]	4024	[5312, 3333]	6072	[4143, 632]	8120	[5116, 7061]
1977	[2929, 117]	4025	[3751, 3067]	6073	[2069, 2621]	8121	[2392, 5091]
1978	[3192, 3193]	4026	[3847, 5313]	6074	[4759, 1683]	8122	[2, 4947]
1979	[3194, 3195]	4027	[3282, 2889]	6075	[6928, 6372]	8123	[8161, 4209]
1980	[3196, 3197]	4028	[2728, 5314]	6076	[6749, 667]	8124	[5240, 2254]
1981	[3198, 1196]	4029	[5315, 5316]	6077	[6929, 1979]	8125	[6572, 4272]
1982	[3199, 3200]	4030	[5317, 3038]	6078	[6930, 5174]	8126	[4478, 6534]
1983	[3201, 3202]	4031	[3805, 3055]	6079	[6931, 679]	8127	[2230, 6424]
1984	[1386, 1536]	4032	[5318, 1362]	6080	[4137, 4729]	8128	[8162, 7582]
1985	[3203, 1298]	4033	[5319, 5320]	6081	[5193, 5016]	8129	[8163, 1673]
1986	[3204, 3169]	4034	[5321, 1125]	6082	[2029, 4181]	8130	[777, 2018]
1987	[3205, 3206]	4035	[5322, 29]	6083	[6932, 2606]	8131	[637, 202]
1988	[3207, 3208]	4036	[5323, 1072]	6084	[6933, 723]	8132	[8164, 719]
1989	[3209, 3210]	4037	[5324, 2771]	6085	[6934, 4344]	8133	[4464, 7582]
1990	[3211, 3212]	4038	[3477, 3494]	6086	[6935, 4255]	8134	[2128, 1884]
1991	[3213, 3214]	4039	[1019, 5325]	6087	[6936, 4910]	8135	[7745, 4209]
1992	[3215, 3216]	4040	[5326, 3839]	6088	[6937, 2255]	8136	[8165, 7700]
1993	[1506, 3217]	4041	[1547, 3505]	6089	[6938, 6353]	8137	[8166, 204]
1994	[3218, 3219]	4042	[3936, 3638]	6090	[5095, 4065]	8138	[8167, 2500]
1995	[1112, 2973]	4043	[5327, 1116]	6091	[6939, 1813]	8139	[6585, 4676]
1996	[3220, 2711]	4044	[5328, 5329]	6092	[6940, 4691]	8140	[7820, 7566]
1997	[923, 3083]	4045	[3171, 3093]	6093	[6941, 2157]	8141	[8168, 7007]
1998	[1271, 3221]	4046	[5330, 2777]	6094	[6942, 4211]	8142	[4119, 6328]
1999	[3222, 3223]	4047	[5331, 3543]	6095	[6943, 885]	8143	[8169, 4383]
2000	[3224, 3166]	4048	[5332, 1102]	6096	[6944, 875]	8144	[8170, 7036]
2001	[3225, 1265]	4049	[5333, 949]	6097	[6945, 6946]	8145	[4515, 7655]
2002	[3226, 331]	4050	[5334, 5335]	6098	[4364, 4187]	8146	[2043, 4289]
2003	[3227, 3228]	4051	[3490, 3332]	6099	[4869, 887]	8147	[7740, 7032]
2004	[3229, 3230]	4052	[3416, 5336]	6100	[2525, 2239]	8148	[6636, 4227]
2005	[3231, 1122]	4053	[5295, 3694]	6101	[1815, 6733]	8149	[8171, 5083]
2006	[3179, 3232]	4054	[3844, 5337]	6102	[6364, 581]	8150	[1978, 7006]

2007	[3233, 3234]	4055	[5338, 3864]	6103	[4293, 4915]	8151	[4310, 7036]
2008	[3235, 1069]	4056	[3072, 1128]	6104	[1801, 1915]	8152	[8172, 7032]
2009	[3236, 3237]	4057	[5339, 91]	6105	[6947, 1984]	8153	[8173, 128]
2010	[3238, 3239]	4058	[5340, 3488]	6106	[1850, 2457]	8154	[2286, 6681]
2011	[2963, 3240]	4059	[5341, 1099]	6107	[6948, 5236]	8155	[8174, 5091]
2012	[3241, 3242]	4060	[935, 5342]	6108	[6949, 4571]	8156	[8175, 5430]
2013	[3243, 3244]	4061	[3191, 5343]	6109	[6950, 2486]	8157	[2922, 1595]
2014	[3162, 3245]	4062	[5344, 1087]	6110	[6951, 5198]	8158	[8176, 3873]
2015	[3246, 2896]	4063	[5345, 2927]	6111	[6952, 4553]	8159	[8177, 3421]
2016	[3247, 2977]	4064	[2794, 5346]	6112	[6953, 5187]	8160	[3197, 2774]
2017	[3059, 989]	4065	[5347, 3667]	6113	[6954, 523]	8161	[8178, 78]
2018	[3248, 3249]	4066	[5348, 5336]	6114	[4717, 1729]	8162	[8179, 2779]
2019	[1426, 3024]	4067	[5349, 5350]	6115	[6955, 4913]	8163	[80, 6299]
2020	[3250, 929]	4068	[5351, 5352]	6116	[6956, 4271]	8164	[7871, 3931]
2021	[3251, 3252]	4069	[5353, 3673]	6117	[4955, 4968]	8165	[8180, 3483]
2022	[3253, 3078]	4070	[5354, 3726]	6118	[4384, 4880]	8166	[8181, 2714]
2023	[3254, 3255]	4071	[5355, 3048]	6119	[6957, 5031]	8167	[3579, 3819]
2024	[3256, 3257]	4072	[5356, 3106]	6120	[6958, 4175]	8168	[8182, 1557]
2025	[3258, 2984]	4073	[3376, 5357]	6121	[6959, 4872]	8169	[5499, 5768]
2026	[3259, 3260]	4074	[5358, 2959]	6122	[6960, 531]	8170	[30, 938]
2027	[72, 1235]	4075	[5359, 3417]	6123	[6961, 1887]	8171	[8183, 5577]
2028	[3261, 1273]	4076	[5346, 5360]	6124	[6962, 2630]	8172	[8184, 114]
2029	[1558, 3018]	4077	[3946, 3401]	6125	[6963, 4515]	8173	[3889, 1159]
2030	[321, 3260]	4078	[5361, 5362]	6126	[2143, 2535]	8174	[450, 3767]
2031	[3262, 3263]	4079	[94, 3596]	6127	[6964, 6899]	8175	[8185, 1767]
2032	[3264, 3265]	4080	[5363, 3068]	6128	[6965, 1616]	8176	[8186, 4331]
2033	[2695, 3266]	4081	[5364, 3580]	6129	[6966, 2491]	8177	[7667, 6603]
2034	[3267, 3268]	4082	[5365, 1575]	6130	[4740, 6891]	8178	[8187, 4227]
2035	[3269, 1547]	4083	[5366, 1427]	6131	[6967, 6658]	8179	[8188, 5208]
2036	[3270, 3271]	4084	[5367, 918]	6132	[4418, 4431]	8180	[560, 8105]
2037	[3272, 3273]	4085	[5368, 3744]	6133	[1845, 2217]	8181	[6475, 5083]
2038	[1030, 3274]	4086	[5369, 5370]	6134	[2567, 6779]	8182	[1972, 5208]
2039	[3275, 276]	4087	[5371, 5372]	6135	[6656, 2182]	8183	[7024, 7011]
2040	[3276, 2725]	4088	[5373, 1294]	6136	[6968, 587]	8184	[8189, 8105]
2041	[3277, 2749]	4089	[5374, 3462]	6137	[6969, 2643]	8185	[3345, 5742]
2042	[3278, 2674]	4090	[5375, 1569]	6138	[6970, 4888]	8186	[1238, 3623]
2043	[3158, 3279]	4091	[5376, 5377]	6139	[769, 4367]	8187	[5749, 1199]
2044	[3280, 299]	4092	[1340, 5378]	6140	[6971, 4982]	8188	[257, 3077]
2045	[3281, 3282]	4093	[5379, 3236]	6141	[4691, 4621]	8189	[6220, 6160]
2046	[3283, 3284]	4094	[341, 3532]	6142	[6972, 1793]		
2047	[939, 3285]	4095	[473, 5305]	6143	[6973, 6594]		

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

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1366	0	2732	0	4098	1	5464	1	6830	0
1	0	1367	0	2733	1	4099	1	5465	0	6831	0
2	0	1368	1	2734	1	4100	1	5466	0	6832	1
3	0	1369	1	2735	0	4101	0	5467	0	6833	0
4	1	1370	0	2736	1	4102	0	5468	1	6834	0
5	0	1371	0	2737	1	4103	0	5469	1	6835	0
6	1	1372	0	2738	1	4104	0	5470	0	6836	0
7	0	1373	1	2739	0	4105	1	5471	0	6837	1
8	0	1374	0	2740	0	4106	0	5472	1	6838	0
9	1	1375	1	2741	1	4107	0	5473	1	6839	0
10	0	1376	1	2742	0	4108	1	5474	1	6840	1
11	0	1377	0	2743	0	4109	1	5475	1	6841	1
12	1	1378	0	2744	0	4110	0	5476	1	6842	0
13	1	1379	1	2745	0	4111	1	5477	0	6843	1
14	1	1380	1	2746	0	4112	0	5478	0	6844	0
15	0	1381	0	2747	1	4113	1	5479	1	6845	1
16	0	1382	1	2748	1	4114	1	5480	0	6846	0
17	0	1383	0	2749	1	4115	1	5481	1	6847	1
18	1	1384	1	2750	0	4116	1	5482	1	6848	1
19	1	1385	0	2751	0	4117	0	5483	1	6849	1
20	0	1386	0	2752	0	4118	0	5484	0	6850	0
21	0	1387	1	2753	1	4119	1	5485	0	6851	1
22	0	1388	0	2754	0	4120	0	5486	1	6852	0
23	0	1389	1	2755	1	4121	1	5487	1	6853	1
24	1	1390	1	2756	0	4122	0	5488	1	6854	0
25	1	1391	1	2757	0	4123	1	5489	1	6855	0
26	0	1392	1	2758	0	4124	1	5490	0	6856	1
27	1	1393	1	2759	1	4125	1	5491	1	6857	1
28	1	1394	0	2760	1	4126	1	5492	0	6858	1
29	1	1395	1	2761	1	4127	0	5493	0	6859	1
30	0	1396	0	2762	1	4128	1	5494	0	6860	1
31	0	1397	1	2763	0	4129	1	5495	1	6861	0
32	1	1398	1	2764	0	4130	1	5496	1	6862	1
33	0	1399	1	2765	0	4131	0	5497	1	6863	1
34	0	1400	0	2766	0	4132	0	5498	1	6864	0
35	0	1401	0	2767	0	4133	0	5499	1	6865	0
36	0	1402	0	2768	1	4134	0	5500	1	6866	1
37	1	1403	1	2769	1	4135	1	5501	1	6867	0
38	0	1404	1	2770	0	4136	0	5502	1	6868	1
39	1	1405	0	2771	1	4137	1	5503	1	6869	0
40	0	1406	1	2772	1	4138	0	5504	0	6870	1
41	0	1407	1	2773	1	4139	0	5505	1	6871	0
42	1	1408	1	2774	0	4140	1	5506	1	6872	0

43	0	1409	0	2775	1	4141	1	5507	0	6873	1
44	1	1410	1	2776	1	4142	1	5508	0	6874	1
45	0	1411	1	2777	1	4143	0	5509	1	6875	0
46	0	1412	0	2778	0	4144	1	5510	0	6876	1
47	0	1413	1	2779	0	4145	0	5511	0	6877	0
48	1	1414	0	2780	0	4146	1	5512	0	6878	1
49	1	1415	1	2781	1	4147	1	5513	0	6879	1
50	1	1416	0	2782	0	4148	0	5514	0	6880	0
51	1	1417	0	2783	0	4149	0	5515	0	6881	1
52	0	1418	0	2784	1	4150	0	5516	1	6882	1
53	0	1419	0	2785	1	4151	0	5517	0	6883	0
54	0	1420	0	2786	1	4152	1	5518	1	6884	1
55	1	1421	0	2787	0	4153	1	5519	1	6885	0
56	1	1422	0	2788	1	4154	0	5520	1	6886	1
57	1	1423	0	2789	0	4155	0	5521	1	6887	1
58	0	1424	0	2790	1	4156	0	5522	0	6888	0
59	1	1425	0	2791	0	4157	0	5523	0	6889	0
60	0	1426	1	2792	0	4158	1	5524	0	6890	1
61	0	1427	0	2793	0	4159	0	5525	1	6891	0
62	0	1428	0	2794	0	4160	1	5526	1	6892	1
63	0	1429	0	2795	1	4161	0	5527	0	6893	0
64	1	1430	0	2796	1	4162	0	5528	1	6894	0
65	1	1431	0	2797	0	4163	0	5529	1	6895	0
66	0	1432	1	2798	1	4164	1	5530	0	6896	0
67	0	1433	0	2799	0	4165	1	5531	1	6897	1
68	1	1434	0	2800	0	4166	0	5532	1	6898	1
69	0	1435	0	2801	0	4167	0	5533	1	6899	0
70	1	1436	1	2802	1	4168	0	5534	1	6900	0
71	0	1437	1	2803	0	4169	1	5535	0	6901	0
72	0	1438	1	2804	0	4170	1	5536	1	6902	0
73	0	1439	1	2805	1	4171	1	5537	0	6903	1
74	0	1440	1	2806	1	4172	0	5538	1	6904	0
75	1	1441	0	2807	1	4173	0	5539	0	6905	0
76	1	1442	1	2808	0	4174	1	5540	1	6906	1
77	0	1443	1	2809	0	4175	1	5541	1	6907	1
78	1	1444	0	2810	0	4176	1	5542	1	6908	1
79	1	1445	1	2811	0	4177	1	5543	1	6909	0
80	1	1446	0	2812	1	4178	0	5544	0	6910	0
81	0	1447	1	2813	1	4179	1	5545	1	6911	1
82	0	1448	0	2814	0	4180	0	5546	0	6912	0
83	0	1449	1	2815	1	4181	0	5547	0	6913	1
84	0	1450	1	2816	1	4182	0	5548	0	6914	1
85	1	1451	1	2817	1	4183	1	5549	1	6915	1
86	0	1452	0	2818	0	4184	1	5550	0	6916	1

87	0	1453	1	2819	1	4185	0	5551	0	6917	0
88	1	1454	0	2820	0	4186	1	5552	1	6918	1
89	1	1455	0	2821	1	4187	1	5553	0	6919	0
90	0	1456	1	2822	0	4188	0	5554	0	6920	0
91	0	1457	1	2823	0	4189	1	5555	0	6921	0
92	1	1458	1	2824	1	4190	0	5556	1	6922	0
93	0	1459	1	2825	1	4191	0	5557	0	6923	0
94	1	1460	1	2826	1	4192	1	5558	0	6924	1
95	0	1461	1	2827	1	4193	1	5559	0	6925	1
96	1	1462	1	2828	1	4194	0	5560	1	6926	0
97	1	1463	1	2829	0	4195	1	5561	0	6927	0
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99	1	1465	0	2831	1	4197	0	5563	1	6929	0
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101	1	1467	1	2833	1	4199	1	5565	0	6931	1
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106	1	1472	1	2838	0	4204	1	5570	1	6936	1
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110	1	1476	1	2842	1	4208	0	5574	1	6940	1
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115	1	1481	1	2847	1	4213	0	5579	1	6945	1
116	0	1482	0	2848	0	4214	0	5580	0	6946	1
117	0	1483	0	2849	0	4215	1	5581	1	6947	0
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119	1	1485	1	2851	1	4217	0	5583	0	6949	0
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122	0	1488	1	2854	0	4220	0	5586	0	6952	1
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126	0	1492	0	2858	0	4224	0	5590	1	6956	0
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135	0	1501	0	2867	0	4233	0	5599	0	6965	0
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155	0	1521	0	2887	0	4253	0	5619	0	6985	1
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166	1	1532	1	2898	1	4264	0	5630	0	6996	0
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171	1	1537	1	2903	0	4269	0	5635	0	7001	1
172	1	1538	0	2904	1	4270	1	5636	1	7002	1
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177	1	1543	0	2909	0	4275	0	5641	0	7007	0
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179	0	1545	1	2911	0	4277	0	5643	1	7009	0
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181	0	1547	0	2913	1	4279	0	5645	1	7011	1
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186	0	1552	0	2918	1	4284	0	5650	0	7016	0
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208	1	1574	0	2940	1	4306	1	5672	0	7038	0
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216	0	1582	1	2948	0	4314	0	5680	0	7046	1
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222	1	1588	1	2954	1	4320	0	5686	1	7052	1
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227	1	1593	0	2959	1	4325	0	5691	1	7057	1
228	1	1594	1	2960	0	4326	1	5692	0	7058	1
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235	0	1601	1	2967	1	4333	1	5699	0	7065	1
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245	1	1611	0	2977	1	4343	0	5709	0	7075	1
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252	0	1618	1	2984	0	4350	1	5716	1	7082	0
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266	0	1632	0	2998	0	4364	0	5730	1	7096	1
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269	0	1635	0	3001	0	4367	1	5733	1	7099	0
270	1	1636	0	3002	0	4368	1	5734	0	7100	1
271	1	1637	1	3003	1	4369	0	5735	1	7101	0
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278	1	1644	0	3010	0	4376	0	5742	1	7108	0
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281	1	1647	0	3013	0	4379	0	5745	1	7111	0
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284	0	1650	0	3016	0	4382	0	5748	1	7114	0
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361	1	1727	0	3093	0	4459	1	5825	0	7191	1
362	0	1728	1	3094	0	4460	1	5826	1	7192	1
363	1	1729	0	3095	0	4461	0	5827	1	7193	1
364	0	1730	1	3096	0	4462	1	5828	1	7194	1
365	0	1731	1	3097	1	4463	1	5829	1	7195	1
366	0	1732	0	3098	0	4464	0	5830	1	7196	0
367	0	1733	1	3099	1	4465	0	5831	1	7197	0
368	0	1734	1	3100	0	4466	1	5832	1	7198	1
369	0	1735	1	3101	0	4467	1	5833	0	7199	0
370	1	1736	0	3102	1	4468	0	5834	1	7200	0
371	1	1737	1	3103	0	4469	1	5835	1	7201	0
372	0	1738	0	3104	1	4470	1	5836	1	7202	0
373	1	1739	1	3105	0	4471	1	5837	1	7203	1
374	0	1740	0	3106	1	4472	1	5838	0	7204	0
375	0	1741	0	3107	0	4473	1	5839	1	7205	1
376	1	1742	0	3108	0	4474	0	5840	0	7206	1
377	1	1743	0	3109	0	4475	1	5841	1	7207	1
378	0	1744	0	3110	0	4476	1	5842	1	7208	0
379	1	1745	1	3111	1	4477	0	5843	0	7209	1
380	1	1746	0	3112	0	4478	1	5844	0	7210	0
381	1	1747	1	3113	1	4479	0	5845	1	7211	1
382	0	1748	1	3114	0	4480	1	5846	0	7212	1
383	1	1749	0	3115	1	4481	0	5847	1	7213	0
384	0	1750	0	3116	1	4482	0	5848	0	7214	1
385	0	1751	1	3117	1	4483	1	5849	0	7215	0
386	1	1752	0	3118	1	4484	0	5850	0	7216	1
387	0	1753	0	3119	1	4485	0	5851	1	7217	1
388	1	1754	0	3120	0	4486	1	5852	1	7218	1
389	0	1755	1	3121	1	4487	0	5853	1	7219	1
390	1	1756	0	3122	1	4488	1	5854	1	7220	0
391	1	1757	0	3123	1	4489	0	5855	0	7221	0
392	0	1758	1	3124	1	4490	1	5856	0	7222	0
393	1	1759	1	3125	1	4491	0	5857	0	7223	0
394	0	1760	1	3126	0	4492	0	5858	1	7224	1

395	1	1761	1	3127	0	4493	0	5859	1	7225	1
396	1	1762	0	3128	1	4494	0	5860	1	7226	1
397	0	1763	0	3129	0	4495	1	5861	0	7227	1
398	0	1764	1	3130	0	4496	1	5862	0	7228	1
399	1	1765	0	3131	0	4497	0	5863	0	7229	1
400	1	1766	1	3132	0	4498	1	5864	1	7230	0
401	1	1767	1	3133	1	4499	0	5865	1	7231	1
402	1	1768	1	3134	0	4500	0	5866	1	7232	1
403	0	1769	0	3135	1	4501	1	5867	0	7233	0
404	0	1770	1	3136	1	4502	0	5868	0	7234	1
405	0	1771	1	3137	0	4503	0	5869	1	7235	0
406	0	1772	1	3138	1	4504	0	5870	0	7236	1
407	1	1773	1	3139	0	4505	0	5871	0	7237	1
408	0	1774	0	3140	1	4506	1	5872	1	7238	1
409	0	1775	0	3141	1	4507	1	5873	1	7239	1
410	1	1776	0	3142	0	4508	0	5874	1	7240	1
411	0	1777	1	3143	1	4509	1	5875	0	7241	0
412	1	1778	0	3144	1	4510	1	5876	0	7242	1
413	0	1779	0	3145	1	4511	1	5877	1	7243	1
414	1	1780	0	3146	0	4512	0	5878	1	7244	1
415	1	1781	1	3147	1	4513	1	5879	0	7245	0
416	0	1782	0	3148	1	4514	1	5880	1	7246	1
417	0	1783	0	3149	0	4515	1	5881	0	7247	1
418	0	1784	1	3150	1	4516	1	5882	1	7248	1
419	0	1785	1	3151	0	4517	1	5883	1	7249	0
420	1	1786	1	3152	0	4518	1	5884	1	7250	0
421	1	1787	1	3153	1	4519	0	5885	0	7251	1
422	1	1788	0	3154	1	4520	0	5886	0	7252	0
423	1	1789	0	3155	1	4521	1	5887	1	7253	0
424	0	1790	0	3156	1	4522	0	5888	1	7254	0
425	0	1791	1	3157	1	4523	0	5889	0	7255	1
426	0	1792	1	3158	1	4524	0	5890	1	7256	0
427	0	1793	1	3159	1	4525	1	5891	0	7257	0
428	1	1794	1	3160	0	4526	1	5892	0	7258	1
429	1	1795	0	3161	0	4527	1	5893	0	7259	0
430	1	1796	0	3162	1	4528	1	5894	1	7260	1
431	0	1797	0	3163	0	4529	1	5895	1	7261	0
432	1	1798	1	3164	1	4530	1	5896	1	7262	1
433	1	1799	1	3165	1	4531	0	5897	0	7263	0
434	1	1800	1	3166	0	4532	0	5898	0	7264	1
435	0	1801	1	3167	0	4533	1	5899	0	7265	0
436	0	1802	1	3168	0	4534	1	5900	0	7266	1
437	0	1803	0	3169	0	4535	1	5901	1	7267	0
438	0	1804	1	3170	1	4536	1	5902	1	7268	0

439	1	1805	0	3171	1	4537	1	5903	1	7269	0
440	0	1806	1	3172	0	4538	1	5904	0	7270	0
441	1	1807	1	3173	1	4539	1	5905	0	7271	1
442	1	1808	0	3174	0	4540	0	5906	0	7272	0
443	1	1809	1	3175	0	4541	1	5907	0	7273	1
444	1	1810	0	3176	0	4542	0	5908	0	7274	1
445	0	1811	0	3177	0	4543	1	5909	1	7275	0
446	0	1812	0	3178	0	4544	1	5910	1	7276	0
447	0	1813	1	3179	1	4545	1	5911	1	7277	1
448	1	1814	1	3180	1	4546	0	5912	1	7278	1
449	1	1815	0	3181	1	4547	0	5913	0	7279	0
450	1	1816	1	3182	0	4548	0	5914	1	7280	0
451	0	1817	0	3183	1	4549	1	5915	1	7281	0
452	1	1818	1	3184	1	4550	1	5916	0	7282	0
453	0	1819	1	3185	0	4551	0	5917	1	7283	1
454	0	1820	1	3186	0	4552	1	5918	1	7284	0
455	0	1821	1	3187	0	4553	1	5919	0	7285	1
456	0	1822	1	3188	1	4554	0	5920	0	7286	0
457	0	1823	1	3189	0	4555	1	5921	1	7287	1
458	1	1824	0	3190	0	4556	0	5922	0	7288	0
459	0	1825	0	3191	1	4557	1	5923	1	7289	1
460	1	1826	1	3192	0	4558	1	5924	0	7290	0
461	1	1827	0	3193	1	4559	0	5925	0	7291	0
462	0	1828	0	3194	1	4560	0	5926	0	7292	0
463	1	1829	0	3195	0	4561	0	5927	1	7293	1
464	0	1830	0	3196	1	4562	0	5928	1	7294	1
465	0	1831	0	3197	1	4563	0	5929	0	7295	0
466	1	1832	0	3198	1	4564	0	5930	0	7296	1
467	1	1833	1	3199	1	4565	1	5931	1	7297	0
468	0	1834	0	3200	0	4566	1	5932	0	7298	1
469	0	1835	1	3201	1	4567	1	5933	1	7299	1
470	1	1836	1	3202	1	4568	0	5934	0	7300	0
471	1	1837	0	3203	0	4569	0	5935	1	7301	0
472	0	1838	0	3204	1	4570	0	5936	1	7302	0
473	1	1839	1	3205	0	4571	0	5937	1	7303	1
474	0	1840	1	3206	1	4572	0	5938	1	7304	0
475	1	1841	1	3207	0	4573	0	5939	0	7305	1
476	0	1842	0	3208	1	4574	1	5940	1	7306	0
477	0	1843	1	3209	1	4575	1	5941	1	7307	0
478	1	1844	0	3210	1	4576	0	5942	0	7308	0
479	0	1845	0	3211	0	4577	0	5943	1	7309	0
480	0	1846	0	3212	0	4578	1	5944	0	7310	0
481	0	1847	0	3213	1	4579	1	5945	1	7311	0
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483	1	1849	0	3215	1	4581	1	5947	1	7313	1
484	0	1850	1	3216	1	4582	0	5948	1	7314	0
485	0	1851	1	3217	1	4583	1	5949	0	7315	1
486	0	1852	0	3218	0	4584	0	5950	1	7316	0
487	1	1853	1	3219	1	4585	0	5951	0	7317	1
488	1	1854	1	3220	0	4586	0	5952	0	7318	0
489	1	1855	1	3221	1	4587	1	5953	0	7319	1
490	0	1856	0	3222	1	4588	0	5954	1	7320	1
491	1	1857	0	3223	1	4589	0	5955	1	7321	1
492	0	1858	0	3224	1	4590	1	5956	1	7322	1
493	1	1859	1	3225	0	4591	1	5957	0	7323	0
494	1	1860	0	3226	0	4592	1	5958	1	7324	0
495	1	1861	0	3227	1	4593	1	5959	1	7325	0
496	0	1862	1	3228	0	4594	0	5960	1	7326	0
497	1	1863	0	3229	1	4595	0	5961	1	7327	1
498	0	1864	1	3230	1	4596	0	5962	0	7328	1
499	1	1865	1	3231	1	4597	1	5963	1	7329	0
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501	1	1867	0	3233	1	4599	1	5965	1	7331	0
502	1	1868	0	3234	1	4600	0	5966	0	7332	0
503	0	1869	1	3235	0	4601	1	5967	1	7333	0
504	0	1870	1	3236	1	4602	0	5968	0	7334	0
505	0	1871	0	3237	1	4603	1	5969	0	7335	1
506	1	1872	1	3238	1	4604	0	5970	1	7336	1
507	0	1873	0	3239	0	4605	1	5971	0	7337	1
508	0	1874	0	3240	1	4606	0	5972	1	7338	1
509	0	1875	0	3241	0	4607	0	5973	1	7339	1
510	1	1876	0	3242	0	4608	1	5974	1	7340	1
511	1	1877	0	3243	1	4609	1	5975	0	7341	1
512	0	1878	1	3244	0	4610	1	5976	0	7342	0
513	0	1879	0	3245	1	4611	1	5977	0	7343	0
514	1	1880	1	3246	1	4612	0	5978	1	7344	1
515	0	1881	1	3247	1	4613	1	5979	0	7345	0
516	1	1882	1	3248	0	4614	0	5980	1	7346	0
517	1	1883	1	3249	0	4615	1	5981	0	7347	1
518	0	1884	0	3250	1	4616	1	5982	0	7348	1
519	0	1885	0	3251	0	4617	1	5983	1	7349	1
520	1	1886	1	3252	0	4618	0	5984	1	7350	0
521	1	1887	0	3253	1	4619	0	5985	0	7351	0
522	0	1888	0	3254	1	4620	1	5986	1	7352	0
523	1	1889	1	3255	1	4621	0	5987	1	7353	1
524	1	1890	1	3256	1	4622	1	5988	0	7354	1
525	0	1891	1	3257	0	4623	1	5989	1	7355	1
526	0	1892	1	3258	0	4624	1	5990	0	7356	1

527	0	1893	0	3259	0	4625	0	5991	0	7357	0
528	1	1894	0	3260	1	4626	0	5992	1	7358	1
529	0	1895	0	3261	0	4627	0	5993	0	7359	0
530	0	1896	0	3262	1	4628	1	5994	0	7360	0
531	0	1897	0	3263	1	4629	0	5995	1	7361	0
532	1	1898	0	3264	0	4630	0	5996	1	7362	0
533	1	1899	1	3265	0	4631	1	5997	0	7363	1
534	0	1900	0	3266	1	4632	1	5998	1	7364	1
535	0	1901	1	3267	0	4633	1	5999	1	7365	0
536	1	1902	1	3268	0	4634	1	6000	0	7366	0
537	1	1903	0	3269	0	4635	0	6001	0	7367	0
538	0	1904	1	3270	1	4636	0	6002	1	7368	0
539	1	1905	0	3271	0	4637	0	6003	1	7369	1
540	0	1906	1	3272	1	4638	0	6004	0	7370	0
541	1	1907	0	3273	0	4639	1	6005	1	7371	1
542	1	1908	0	3274	1	4640	0	6006	0	7372	0
543	0	1909	0	3275	0	4641	1	6007	1	7373	0
544	1	1910	0	3276	1	4642	1	6008	0	7374	0
545	0	1911	0	3277	1	4643	0	6009	0	7375	0
546	0	1912	1	3278	1	4644	0	6010	1	7376	0
547	0	1913	1	3279	1	4645	0	6011	0	7377	1
548	1	1914	0	3280	1	4646	0	6012	0	7378	1
549	1	1915	0	3281	0	4647	1	6013	0	7379	1
550	0	1916	0	3282	0	4648	0	6014	1	7380	1
551	0	1917	1	3283	1	4649	1	6015	1	7381	1
552	0	1918	1	3284	1	4650	1	6016	0	7382	0
553	1	1919	0	3285	1	4651	1	6017	1	7383	1
554	0	1920	1	3286	0	4652	1	6018	0	7384	0
555	0	1921	1	3287	1	4653	0	6019	1	7385	0
556	0	1922	1	3288	1	4654	0	6020	1	7386	1
557	1	1923	1	3289	1	4655	1	6021	0	7387	0
558	1	1924	1	3290	1	4656	0	6022	0	7388	1
559	0	1925	1	3291	0	4657	1	6023	1	7389	1
560	0	1926	0	3292	1	4658	1	6024	1	7390	1
561	0	1927	0	3293	0	4659	1	6025	1	7391	1
562	1	1928	1	3294	0	4660	0	6026	0	7392	0
563	1	1929	0	3295	1	4661	0	6027	1	7393	1
564	1	1930	0	3296	1	4662	0	6028	0	7394	0
565	0	1931	0	3297	0	4663	0	6029	0	7395	1
566	1	1932	1	3298	1	4664	0	6030	0	7396	0
567	0	1933	1	3299	1	4665	0	6031	0	7397	1
568	0	1934	1	3300	0	4666	1	6032	0	7398	0
569	1	1935	0	3301	0	4667	1	6033	1	7399	1
570	0	1936	0	3302	1	4668	1	6034	0	7400	1

571	0	1937	1	3303	1	4669	0	6035	0	7401	1
572	1	1938	0	3304	1	4670	0	6036	1	7402	1
573	0	1939	1	3305	1	4671	1	6037	1	7403	1
574	1	1940	0	3306	1	4672	1	6038	1	7404	1
575	1	1941	1	3307	0	4673	1	6039	1	7405	0
576	1	1942	1	3308	0	4674	1	6040	1	7406	1
577	1	1943	1	3309	0	4675	0	6041	0	7407	0
578	0	1944	1	3310	0	4676	1	6042	0	7408	0
579	1	1945	1	3311	0	4677	0	6043	1	7409	1
580	1	1946	0	3312	0	4678	0	6044	0	7410	1
581	1	1947	0	3313	0	4679	1	6045	0	7411	1
582	1	1948	0	3314	0	4680	1	6046	1	7412	1
583	0	1949	1	3315	0	4681	0	6047	1	7413	0
584	0	1950	1	3316	0	4682	1	6048	1	7414	0
585	1	1951	1	3317	1	4683	1	6049	1	7415	0
586	1	1952	1	3318	1	4684	0	6050	1	7416	0
587	0	1953	0	3319	1	4685	1	6051	0	7417	0
588	1	1954	1	3320	1	4686	1	6052	0	7418	0
589	0	1955	0	3321	1	4687	0	6053	0	7419	0
590	1	1956	0	3322	1	4688	0	6054	1	7420	1
591	0	1957	1	3323	0	4689	1	6055	1	7421	0
592	0	1958	0	3324	1	4690	0	6056	0	7422	0
593	0	1959	0	3325	0	4691	0	6057	1	7423	1
594	1	1960	1	3326	0	4692	0	6058	1	7424	1
595	0	1961	1	3327	1	4693	1	6059	0	7425	0
596	0	1962	0	3328	1	4694	1	6060	0	7426	1
597	1	1963	1	3329	1	4695	0	6061	0	7427	0
598	0	1964	0	3330	1	4696	1	6062	0	7428	1
599	0	1965	0	3331	0	4697	1	6063	0	7429	0
600	1	1966	0	3332	1	4698	0	6064	0	7430	1
601	1	1967	0	3333	1	4699	0	6065	0	7431	1
602	0	1968	0	3334	1	4700	1	6066	1	7432	1
603	1	1969	1	3335	0	4701	1	6067	1	7433	0
604	1	1970	1	3336	1	4702	1	6068	0	7434	1
605	0	1971	1	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	0	4705	0	6071	0	7437	0
608	1	1974	1	3340	1	4706	0	6072	0	7438	1
609	0	1975	1	3341	1	4707	0	6073	0	7439	0
610	0	1976	0	3342	1	4708	0	6074	0	7440	1
611	1	1977	0	3343	0	4709	0	6075	1	7441	1
612	1	1978	0	3344	1	4710	0	6076	0	7442	1
613	0	1979	1	3345	1	4711	0	6077	0	7443	1
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615	1	1981	1	3347	0	4713	1	6079	1	7445	0
616	0	1982	1	3348	0	4714	1	6080	1	7446	1
617	1	1983	1	3349	0	4715	1	6081	1	7447	0
618	0	1984	0	3350	0	4716	1	6082	0	7448	0
619	1	1985	0	3351	1	4717	1	6083	1	7449	0
620	1	1986	1	3352	0	4718	1	6084	1	7450	1
621	0	1987	0	3353	1	4719	0	6085	1	7451	0
622	0	1988	0	3354	1	4720	1	6086	1	7452	0
623	1	1989	1	3355	1	4721	0	6087	1	7453	0
624	1	1990	0	3356	1	4722	0	6088	0	7454	1
625	1	1991	1	3357	0	4723	1	6089	0	7455	0
626	0	1992	1	3358	1	4724	1	6090	0	7456	0
627	0	1993	1	3359	1	4725	0	6091	1	7457	1
628	1	1994	0	3360	1	4726	1	6092	1	7458	0
629	1	1995	1	3361	0	4727	0	6093	0	7459	0
630	1	1996	0	3362	0	4728	0	6094	0	7460	0
631	1	1997	0	3363	1	4729	1	6095	0	7461	0
632	1	1998	0	3364	0	4730	1	6096	1	7462	1
633	0	1999	1	3365	1	4731	1	6097	1	7463	1
634	0	2000	1	3366	1	4732	0	6098	0	7464	1
635	1	2001	0	3367	0	4733	1	6099	0	7465	1
636	0	2002	0	3368	0	4734	1	6100	0	7466	0
637	1	2003	1	3369	0	4735	1	6101	0	7467	0
638	1	2004	1	3370	0	4736	1	6102	1	7468	0
639	1	2005	1	3371	1	4737	1	6103	0	7469	0
640	1	2006	1	3372	1	4738	0	6104	1	7470	0
641	1	2007	1	3373	0	4739	0	6105	0	7471	1
642	0	2008	0	3374	1	4740	0	6106	1	7472	0
643	0	2009	1	3375	0	4741	1	6107	1	7473	1
644	1	2010	1	3376	1	4742	1	6108	0	7474	0
645	1	2011	1	3377	0	4743	0	6109	0	7475	1
646	1	2012	0	3378	1	4744	0	6110	1	7476	1
647	1	2013	1	3379	0	4745	1	6111	1	7477	1
648	1	2014	1	3380	1	4746	0	6112	0	7478	1
649	1	2015	1	3381	1	4747	1	6113	0	7479	0
650	0	2016	1	3382	0	4748	0	6114	1	7480	1
651	0	2017	0	3383	1	4749	1	6115	1	7481	0
652	0	2018	0	3384	1	4750	1	6116	0	7482	0
653	1	2019	1	3385	0	4751	1	6117	0	7483	1
654	1	2020	1	3386	0	4752	1	6118	0	7484	0
655	0	2021	0	3387	1	4753	0	6119	0	7485	1
656	1	2022	1	3388	1	4754	1	6120	1	7486	1
657	0	2023	1	3389	0	4755	0	6121	1	7487	1
658	0	2024	1	3390	0	4756	1	6122	0	7488	1

659	1	2025	0	3391	1	4757	1	6123	0	7489	0
660	1	2026	0	3392	1	4758	0	6124	1	7490	0
661	1	2027	0	3393	1	4759	0	6125	1	7491	1
662	0	2028	0	3394	0	4760	1	6126	0	7492	0
663	0	2029	0	3395	0	4761	1	6127	1	7493	1
664	0	2030	0	3396	1	4762	1	6128	0	7494	1
665	0	2031	1	3397	0	4763	0	6129	1	7495	1
666	1	2032	0	3398	1	4764	0	6130	0	7496	1
667	0	2033	0	3399	0	4765	1	6131	1	7497	0
668	1	2034	0	3400	1	4766	1	6132	0	7498	0
669	0	2035	0	3401	1	4767	1	6133	0	7499	0
670	1	2036	1	3402	0	4768	0	6134	1	7500	0
671	0	2037	1	3403	1	4769	1	6135	1	7501	0
672	1	2038	0	3404	1	4770	0	6136	0	7502	1
673	0	2039	0	3405	1	4771	0	6137	0	7503	0
674	1	2040	1	3406	1	4772	1	6138	0	7504	0
675	0	2041	1	3407	0	4773	0	6139	0	7505	1
676	1	2042	1	3408	1	4774	1	6140	1	7506	0
677	0	2043	1	3409	0	4775	0	6141	0	7507	1
678	1	2044	1	3410	1	4776	1	6142	0	7508	0
679	0	2045	0	3411	0	4777	1	6143	0	7509	1
680	1	2046	1	3412	0	4778	0	6144	1	7510	1
681	1	2047	1	3413	0	4779	0	6145	0	7511	1
682	0	2048	0	3414	1	4780	1	6146	0	7512	0
683	0	2049	1	3415	1	4781	1	6147	0	7513	0
684	0	2050	1	3416	1	4782	0	6148	1	7514	0
685	0	2051	1	3417	0	4783	1	6149	0	7515	0
686	1	2052	0	3418	0	4784	1	6150	1	7516	0
687	0	2053	0	3419	0	4785	1	6151	1	7517	0
688	1	2054	0	3420	1	4786	0	6152	0	7518	1
689	1	2055	1	3421	0	4787	0	6153	0	7519	0
690	1	2056	1	3422	1	4788	1	6154	1	7520	0
691	0	2057	1	3423	1	4789	1	6155	0	7521	0
692	1	2058	1	3424	0	4790	1	6156	1	7522	0
693	1	2059	0	3425	0	4791	0	6157	0	7523	1
694	1	2060	1	3426	1	4792	0	6158	1	7524	1
695	0	2061	0	3427	0	4793	0	6159	1	7525	0
696	1	2062	1	3428	0	4794	1	6160	0	7526	0
697	0	2063	1	3429	0	4795	0	6161	1	7527	0
698	1	2064	0	3430	0	4796	1	6162	0	7528	0
699	0	2065	0	3431	0	4797	0	6163	1	7529	0
700	0	2066	0	3432	0	4798	0	6164	1	7530	0
701	0	2067	0	3433	1	4799	0	6165	1	7531	0
702	1	2068	0	3434	1	4800	1	6166	1	7532	1

703	0	2069	0	3435	1	4801	1	6167	0	7533	1
704	0	2070	0	3436	0	4802	1	6168	1	7534	0
705	0	2071	0	3437	0	4803	1	6169	0	7535	1
706	0	2072	0	3438	1	4804	0	6170	1	7536	0
707	1	2073	1	3439	0	4805	0	6171	0	7537	0
708	0	2074	1	3440	0	4806	1	6172	1	7538	0
709	1	2075	1	3441	1	4807	0	6173	0	7539	1
710	0	2076	0	3442	0	4808	1	6174	0	7540	1
711	0	2077	1	3443	1	4809	0	6175	0	7541	1
712	0	2078	0	3444	0	4810	1	6176	1	7542	1
713	1	2079	0	3445	0	4811	0	6177	0	7543	0
714	1	2080	1	3446	1	4812	1	6178	0	7544	1
715	0	2081	1	3447	0	4813	1	6179	1	7545	1
716	1	2082	1	3448	0	4814	0	6180	1	7546	0
717	0	2083	1	3449	0	4815	0	6181	1	7547	1
718	1	2084	0	3450	0	4816	1	6182	0	7548	1
719	1	2085	1	3451	0	4817	0	6183	0	7549	1
720	1	2086	0	3452	1	4818	1	6184	0	7550	1
721	0	2087	0	3453	1	4819	0	6185	1	7551	1
722	0	2088	0	3454	1	4820	1	6186	0	7552	1
723	1	2089	1	3455	1	4821	0	6187	1	7553	1
724	1	2090	1	3456	1	4822	1	6188	1	7554	0
725	1	2091	1	3457	1	4823	0	6189	1	7555	0
726	0	2092	1	3458	0	4824	0	6190	1	7556	0
727	1	2093	0	3459	0	4825	1	6191	0	7557	0
728	0	2094	0	3460	0	4826	0	6192	0	7558	1
729	0	2095	0	3461	1	4827	0	6193	0	7559	0
730	0	2096	1	3462	1	4828	0	6194	0	7560	0
731	1	2097	1	3463	1	4829	0	6195	1	7561	1
732	0	2098	1	3464	0	4830	0	6196	0	7562	0
733	0	2099	1	3465	1	4831	1	6197	0	7563	1
734	1	2100	1	3466	0	4832	0	6198	1	7564	1
735	0	2101	0	3467	1	4833	1	6199	1	7565	0
736	0	2102	1	3468	1	4834	0	6200	1	7566	1
737	1	2103	0	3469	0	4835	0	6201	1	7567	0
738	0	2104	1	3470	1	4836	0	6202	1	7568	0
739	0	2105	0	3471	0	4837	1	6203	1	7569	1
740	0	2106	1	3472	1	4838	0	6204	0	7570	1
741	1	2107	0	3473	1	4839	1	6205	0	7571	1
742	0	2108	1	3474	1	4840	0	6206	0	7572	1
743	0	2109	0	3475	0	4841	1	6207	0	7573	0
744	0	2110	0	3476	0	4842	0	6208	0	7574	1
745	1	2111	1	3477	0	4843	0	6209	1	7575	0
746	1	2112	1	3478	1	4844	1	6210	1	7576	0

747	1	2113	0	3479	0	4845	0	6211	0	7577	0
748	0	2114	0	3480	0	4846	0	6212	0	7578	0
749	0	2115	1	3481	1	4847	1	6213	0	7579	0
750	0	2116	0	3482	0	4848	0	6214	0	7580	1
751	1	2117	0	3483	0	4849	1	6215	1	7581	0
752	1	2118	0	3484	1	4850	1	6216	0	7582	0
753	0	2119	1	3485	0	4851	0	6217	1	7583	0
754	1	2120	0	3486	0	4852	0	6218	0	7584	1
755	1	2121	0	3487	0	4853	0	6219	1	7585	0
756	1	2122	1	3488	1	4854	1	6220	1	7586	0
757	1	2123	1	3489	1	4855	1	6221	0	7587	1
758	1	2124	0	3490	0	4856	1	6222	1	7588	0
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760	0	2126	1	3492	1	4858	1	6224	0	7590	0
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762	1	2128	0	3494	0	4860	0	6226	0	7592	1
763	1	2129	1	3495	0	4861	0	6227	0	7593	1
764	1	2130	1	3496	0	4862	1	6228	1	7594	0
765	0	2131	0	3497	1	4863	1	6229	0	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	0
768	1	2134	1	3500	1	4866	0	6232	0	7598	0
769	0	2135	1	3501	0	4867	1	6233	0	7599	1
770	0	2136	1	3502	1	4868	0	6234	0	7600	1
771	0	2137	1	3503	0	4869	0	6235	1	7601	0
772	0	2138	1	3504	0	4870	0	6236	0	7602	1
773	0	2139	1	3505	1	4871	1	6237	0	7603	0
774	0	2140	1	3506	0	4872	0	6238	1	7604	0
775	0	2141	0	3507	1	4873	0	6239	1	7605	1
776	0	2142	1	3508	1	4874	0	6240	1	7606	1
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778	1	2144	0	3510	0	4876	1	6242	1	7608	0
779	0	2145	1	3511	0	4877	1	6243	0	7609	0
780	0	2146	1	3512	1	4878	1	6244	0	7610	0
781	1	2147	1	3513	0	4879	0	6245	0	7611	0
782	1	2148	0	3514	1	4880	0	6246	1	7612	0
783	0	2149	0	3515	1	4881	0	6247	1	7613	1
784	1	2150	1	3516	1	4882	1	6248	1	7614	0
785	0	2151	1	3517	1	4883	1	6249	0	7615	1
786	0	2152	1	3518	1	4884	0	6250	0	7616	1
787	1	2153	0	3519	0	4885	0	6251	1	7617	1
788	1	2154	1	3520	0	4886	1	6252	1	7618	0
789	1	2155	1	3521	0	4887	0	6253	1	7619	1
790	1	2156	0	3522	0	4888	1	6254	0	7620	1

791	0	2157	1	3523	1	4889	1	6255	0	7621	0
792	0	2158	0	3524	0	4890	1	6256	0	7622	1
793	0	2159	0	3525	1	4891	1	6257	1	7623	0
794	1	2160	0	3526	0	4892	0	6258	1	7624	0
795	0	2161	1	3527	0	4893	0	6259	0	7625	1
796	1	2162	1	3528	1	4894	1	6260	0	7626	0
797	0	2163	1	3529	0	4895	1	6261	1	7627	1
798	1	2164	0	3530	1	4896	0	6262	1	7628	0
799	1	2165	0	3531	0	4897	1	6263	0	7629	1
800	1	2166	1	3532	1	4898	0	6264	1	7630	0
801	1	2167	1	3533	0	4899	0	6265	0	7631	0
802	1	2168	1	3534	1	4900	1	6266	0	7632	1
803	0	2169	1	3535	0	4901	1	6267	1	7633	0
804	1	2170	1	3536	1	4902	0	6268	1	7634	1
805	1	2171	1	3537	1	4903	1	6269	0	7635	0
806	0	2172	0	3538	1	4904	0	6270	1	7636	1
807	1	2173	1	3539	1	4905	0	6271	1	7637	0
808	0	2174	0	3540	0	4906	0	6272	1	7638	1
809	0	2175	0	3541	0	4907	0	6273	0	7639	1
810	0	2176	0	3542	0	4908	0	6274	1	7640	1
811	1	2177	1	3543	0	4909	1	6275	1	7641	0
812	1	2178	1	3544	1	4910	0	6276	0	7642	0
813	1	2179	1	3545	0	4911	0	6277	1	7643	1
814	1	2180	1	3546	1	4912	1	6278	0	7644	1
815	0	2181	0	3547	0	4913	1	6279	1	7645	1
816	1	2182	0	3548	0	4914	0	6280	1	7646	0
817	0	2183	1	3549	0	4915	1	6281	1	7647	0
818	0	2184	1	3550	0	4916	0	6282	0	7648	1
819	1	2185	1	3551	1	4917	0	6283	0	7649	1
820	1	2186	1	3552	1	4918	0	6284	1	7650	0
821	1	2187	1	3553	1	4919	0	6285	0	7651	1
822	0	2188	0	3554	1	4920	1	6286	1	7652	1
823	1	2189	1	3555	0	4921	0	6287	1	7653	1
824	0	2190	0	3556	1	4922	1	6288	1	7654	1
825	0	2191	1	3557	1	4923	0	6289	1	7655	1
826	0	2192	1	3558	1	4924	0	6290	1	7656	0
827	1	2193	0	3559	1	4925	0	6291	1	7657	0
828	0	2194	0	3560	1	4926	1	6292	0	7658	1
829	0	2195	1	3561	0	4927	1	6293	1	7659	1
830	1	2196	0	3562	0	4928	1	6294	0	7660	1
831	1	2197	1	3563	0	4929	1	6295	0	7661	0
832	0	2198	0	3564	1	4930	1	6296	0	7662	1
833	0	2199	0	3565	0	4931	1	6297	1	7663	1
834	1	2200	1	3566	0	4932	0	6298	1	7664	0

835	1	2201	0	3567	0	4933	1	6299	1	7665	1
836	1	2202	0	3568	1	4934	1	6300	1	7666	0
837	1	2203	1	3569	0	4935	1	6301	0	7667	1
838	1	2204	0	3570	0	4936	1	6302	0	7668	1
839	0	2205	1	3571	0	4937	0	6303	0	7669	1
840	1	2206	0	3572	1	4938	1	6304	0	7670	1
841	0	2207	1	3573	1	4939	1	6305	0	7671	0
842	1	2208	0	3574	0	4940	0	6306	0	7672	1
843	0	2209	1	3575	0	4941	0	6307	0	7673	0
844	1	2210	0	3576	0	4942	0	6308	0	7674	1
845	1	2211	0	3577	1	4943	1	6309	1	7675	1
846	1	2212	0	3578	1	4944	0	6310	1	7676	0
847	1	2213	1	3579	0	4945	0	6311	1	7677	0
848	0	2214	1	3580	1	4946	1	6312	1	7678	0
849	0	2215	1	3581	0	4947	1	6313	0	7679	0
850	0	2216	1	3582	0	4948	0	6314	1	7680	0
851	1	2217	1	3583	0	4949	1	6315	0	7681	1
852	0	2218	0	3584	1	4950	0	6316	1	7682	1
853	0	2219	0	3585	0	4951	1	6317	1	7683	0
854	0	2220	0	3586	1	4952	0	6318	0	7684	1
855	0	2221	1	3587	0	4953	0	6319	1	7685	1
856	0	2222	1	3588	0	4954	1	6320	1	7686	1
857	0	2223	0	3589	0	4955	0	6321	0	7687	0
858	0	2224	1	3590	0	4956	1	6322	0	7688	1
859	0	2225	0	3591	0	4957	0	6323	1	7689	0
860	0	2226	0	3592	1	4958	0	6324	0	7690	0
861	0	2227	1	3593	0	4959	0	6325	1	7691	0
862	1	2228	1	3594	0	4960	0	6326	1	7692	1
863	0	2229	1	3595	1	4961	1	6327	0	7693	1
864	0	2230	0	3596	1	4962	0	6328	0	7694	1
865	0	2231	0	3597	0	4963	1	6329	1	7695	0
866	1	2232	0	3598	1	4964	1	6330	1	7696	1
867	0	2233	1	3599	1	4965	1	6331	0	7697	0
868	1	2234	0	3600	1	4966	1	6332	0	7698	0
869	1	2235	0	3601	1	4967	1	6333	1	7699	1
870	0	2236	0	3602	0	4968	0	6334	0	7700	0
871	0	2237	0	3603	1	4969	0	6335	0	7701	0
872	1	2238	1	3604	0	4970	1	6336	1	7702	1
873	1	2239	0	3605	1	4971	1	6337	1	7703	1
874	0	2240	1	3606	1	4972	0	6338	1	7704	0
875	0	2241	1	3607	0	4973	1	6339	0	7705	1
876	1	2242	0	3608	1	4974	1	6340	0	7706	0
877	1	2243	1	3609	0	4975	0	6341	0	7707	1
878	1	2244	1	3610	1	4976	0	6342	1	7708	1

879	1	2245	0	3611	1	4977	0	6343	0	7709	0
880	0	2246	0	3612	0	4978	1	6344	1	7710	1
881	1	2247	0	3613	0	4979	1	6345	1	7711	0
882	1	2248	1	3614	0	4980	1	6346	1	7712	0
883	1	2249	1	3615	1	4981	0	6347	1	7713	0
884	0	2250	1	3616	1	4982	0	6348	0	7714	0
885	1	2251	1	3617	1	4983	0	6349	1	7715	1
886	1	2252	0	3618	1	4984	1	6350	0	7716	0
887	0	2253	0	3619	0	4985	0	6351	0	7717	0
888	1	2254	0	3620	0	4986	1	6352	0	7718	1
889	1	2255	1	3621	0	4987	1	6353	0	7719	1
890	1	2256	1	3622	1	4988	0	6354	0	7720	1
891	0	2257	1	3623	1	4989	0	6355	0	7721	1
892	1	2258	1	3624	1	4990	1	6356	1	7722	0
893	0	2259	0	3625	0	4991	1	6357	1	7723	1
894	1	2260	1	3626	0	4992	0	6358	0	7724	0
895	0	2261	1	3627	0	4993	1	6359	0	7725	1
896	1	2262	1	3628	1	4994	1	6360	1	7726	0
897	1	2263	1	3629	1	4995	0	6361	0	7727	0
898	0	2264	0	3630	0	4996	1	6362	0	7728	0
899	0	2265	0	3631	1	4997	1	6363	0	7729	1
900	0	2266	1	3632	1	4998	0	6364	1	7730	1
901	0	2267	0	3633	0	4999	1	6365	0	7731	1
902	0	2268	0	3634	0	5000	1	6366	0	7732	0
903	1	2269	0	3635	1	5001	1	6367	1	7733	1
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906	0	2272	0	3638	0	5004	0	6370	0	7736	1
907	0	2273	0	3639	0	5005	0	6371	0	7737	0
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910	0	2276	1	3642	0	5008	1	6374	0	7740	0
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913	1	2279	1	3645	1	5011	0	6377	0	7743	0
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916	1	2282	1	3648	1	5014	1	6380	0	7746	0
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