

A Matrix Approach for Constructing Quadratic APN Functions

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Abstract—We find a one to one correspondence between quadratic APN functions without linear and constant terms and a special kind of matrices (We call such matrices as QAMs). Based on the nice mathematical structures of the QAMs, we have developed efficient algorithms to construct quadratic APN functions. On \mathbb{F}_{2^7} , we have found more than 470 classes of new CCZ-inequivalent quadratic APN functions, which is 20 times more than the known ones. Before this paper, there are only 23 classes of CCZ-inequivalent APN functions on \mathbb{F}_{2^8} have been found. With our method, we have found more than 1000 classes of new CCZ-inequivalent quadratic APN functions, and this number is still arising quickly.

Index Terms—APN, quadratic functions, EA-equivalence, CCZ-equivalence.

I. INTRODUCTION

LOW differentially uniform permutations are very useful in cryptography, since they can provide good resistant against differential attack. For example, the Advanced Encryption Standard (AES) [11] uses a differentially 4 uniform permutation as its S-box (Substitution box). The differentially 4 uniform permutation is the best choice for now due to the lack of differentially 2 uniform permutations on \mathbb{F}_{2^8} . For clarity, we firstly introduce the definition of differential uniformity.

Definition 1: A mapping $F : \mathbb{F}_{2^n} \rightarrow \mathbb{F}_{2^n}$ is called differentially $\delta(F)$ uniform if

$$\delta(F) = \max_{a \in \mathbb{F}_{2^n}^*, b \in \mathbb{F}_{2^n}} \#\Delta_F(a, b),$$

where $\Delta_F(a, b) = \{x \in \mathbb{F}_{2^n} : F(x+a) + F(x) = b\}$ and $\#\Delta_F(a, b)$ is the cardinality of the set $\Delta_F(a, b)$. If $\delta(F) = 2$, we can say that F is **APN** (Almost perfect nonlinear).

Note that $\delta(F)$ is always even in \mathbb{F}_{2^n} , and APN functions provide optimal resistant against differential attack.

The terminology APN was introduced by Nyberg and Knudsen [20] in 1992. Carlet, Charpin and Zinoviev proved that if a function is APN, then its CCZ-equivalent functions are all APN. CCZ-equivalence is a generalization of EA-equivalence. In this paper, we only study quadratic functions. According to Yoshiara's results [21], two quadratic APN functions are CCZ-equivalent if and only if they are EA-equivalent.

Definition 2: Suppose F and F' are two functions from \mathbb{F}_{2^n} to \mathbb{F}_{2^n} , then

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1) F and F' are **EA-equivalent** (Extended affine equivalent) if

$$F'(x) = A_1(F(A_2(x))) + A_3(x),$$

where A_1 and A_2 are affine permutations on \mathbb{F}_{2^n} , and A_3 is an affine function on \mathbb{F}_{2^n} .

2) F and F' are **CCZ-equivalent** (Carlet-Charpin-Zinoviev equivalent) if there is an affine permutation which maps G_F to $G_{F'}$, where $G_F = \{(x, F(x)) : x \in \mathbb{F}_{2^n}\}$ is the graph of F , and $G_{F'}$ is the graph of F' .

An APN function is new if it is CCZ-inequivalent to any known ones. For a long time, finding new APN functions is an important topic in cryptography. In recent years, most of the new found APN functions are quadratic. Related work appeared in [1]-[8], [12]-[17], [22]. For a systematic knowledge of APN functions, the readers can turn to [9].

Our work was motivated by a recent breakthrough on APN functions. In 2009, Dillon et al. [3], [12], [4] found an APN permutation in dimension six, which is the first APN permutation in even dimension. Their idea can be summarized as checking whether there is a permutation CCZ-equivalent to the given APN function. Thus, if we want to find new APN permutations in even dimensions, we must find new APN functions at first.

Our aim is to find as many new APN functions as possible, especially on \mathbb{F}_{2^8} . Then, we will check whether these new APN functions are CCZ-equivalent to some permutations. If some function is CCZ-equivalent to a permutation, then there must exist an APN permutation.

Our main contributions can be summarized as follows. We find a one to one correspondence between restricted quadratic APN functions and QAMs. Thus, we only need to construct QAMs when we want to construct quadratic APN functions. These QAMs have nice mathematical structures. So, constructing QAMs is easier than constructing quadratic APN functions directly. We proved many properties of the QAMs in this paper. Based on these properties, we have designed some efficient algorithms to search the new APN functions. Before this paper, the scholars [12], [16] have found 19 and 23 classes of CCZ-inequivalent APN functions on \mathbb{F}_{2^7} and \mathbb{F}_{2^8} respectively. With our method, we have found more than 470 new CCZ-inequivalent APN functions on \mathbb{F}_{2^7} , and more than 1000 new CCZ-inequivalent quadratic APN functions on \mathbb{F}_{2^8} . The number of CCZ-inequivalent quadratic APN functions on \mathbb{F}_{2^8} is still arising quickly. We have checked all these new APN functions on \mathbb{F}_{2^8} , none of them is CCZ-equivalent to a permutation.

Our work is just a beginning, and we think that more useful

results will be obtained in the future.

II. NOTATIONS AND BASIC IDEAS

A. Notations

Let n be a positive integer, \mathbb{F}_{2^n} be the finite field with 2^n elements, and $\mathbb{F}_{2^n}[x]$ be the ring of polynomial in variable x .

Definition 3: Quadratic functions without linear and constant terms are called **restricted quadratic functions** in this paper.

Definition 4: [18] Two bases $\{\alpha_1, \dots, \alpha_n\}$ and $\{\theta_1, \theta_2, \dots, \theta_n\}$ of \mathbb{F}_{2^n} over \mathbb{F}_2 are said to be **dual bases** if for $1 \leq u, j \leq n$ we have

$$\text{Tr}(\alpha_u \theta_j) = \begin{cases} 0 & \text{for } u \neq j, \\ 1 & \text{for } u = j. \end{cases}$$

We will use the following convention and notations throughout the paper.

(i) For positive numbers r, s , $\mathbb{F}_{2^n}^{r \times s}$ denotes the space of $r \times s$ matrices over \mathbb{F}_{2^n} . For a matrix A , $A[i]$ denote the i th row of A , and $A[i, j]$ the (i, j) element of A ; moreover $B = \text{Submatrix}(A, 1, 1, r, c)$ denotes the $r \times c$ submatrix of A which consist of the first r rows and the first c columns.

(ii) Suppose $\{\alpha_1, \alpha_2, \dots, \alpha_n\}$ is a basis of \mathbb{F}_{2^n} over \mathbb{F}_2 , and $\{\theta_1, \theta_2, \dots, \theta_n\}$ is its dual basis. Let $M_\alpha \in \mathbb{F}_{2^n}^{n \times n}$ and $M_\theta \in \mathbb{F}_{2^n}^{n \times n}$ with $M_\alpha[i, u] = \alpha_u^{2^{i-1}}$ and $M_\theta[i, u] = \theta_u^{2^{i-1}}$ for $1 \leq u, i \leq n$. Then $M_\alpha^t M_\theta = (\text{Tr}(\alpha_u \theta_j))_{n \times n}$ for $1 \leq u, j \leq n$, so $M_\alpha^t M_\theta = I_n$, where I_n is the identity matrix of order n . Thus $M_\theta^{-1} = M_\alpha^t$ (M_α^t is the transpose of M_α).

(iii) Let $\eta_1, \eta_2, \dots, \eta_m$ be m elements on \mathbb{F}_{2^n} ($m, n \geq 1$), and $B = (\eta_1, \eta_2, \dots, \eta_m) \in \mathbb{F}_{2^n}^m$. $\text{Span}(B) = \text{Span}(\eta_1, \eta_2, \dots, \eta_m)$ denotes the subspace spanned by $\{\eta_1, \eta_2, \dots, \eta_m\}$ over \mathbb{F}_2 . $\text{Rank}_{\mathbb{F}_2}(B) = \text{Rank}_{\mathbb{F}_2}\{\eta_1, \eta_2, \dots, \eta_m\}$ is the dimension of $\text{Span}(B)$ over \mathbb{F}_2 , which we call the rank of B (over \mathbb{F}_2). Suppose $\eta_i = \sum_{j=1}^n \lambda_{i,j} \alpha_j$ for $1 \leq i \leq m$, where $\lambda_{i,j} \in \mathbb{F}_2$ for all i, j . Define a $m \times n$ matrix $\Lambda = (\lambda_{i,j})_{m \times n}$. Then $\text{Rank}_{\mathbb{F}_2}\{\eta_1, \eta_2, \dots, \eta_m\}$ equals to the rank of Λ .

Definition 5: Let H be an $n \times n$ matrix on \mathbb{F}_{2^n} . Then, the matrix H is called a **QAM** (quadratic APN matrix) if

- 1) H is a symmetric matrix with main diagonal elements all zeros;
- 2) Every nonzero linear combination of the n rows (or ‘‘columns’’ since H is symmetric) of H has rank $n - 1$.

B. One to One Correspondence between Restricted Quadratic APN Functions and QAMs

Let $F(x) = \sum_{1 \leq t < i \leq n} c_{i,t} x^{2^{i-1} + 2^{t-1}} \in \mathbb{F}_{2^n}[x]$ be a restricted quadratic function, and C_F be an $n \times n$ matrix with $C_F[t, i] = C_F[i, t] = c_{i,t}$ for $1 \leq t < i \leq n$ and $C_F[i, i] = 0$ for $1 \leq i \leq n$.

Given a basis $\alpha = \{\alpha_1, \dots, \alpha_n\}$ for \mathbb{F}_{2^n} over \mathbb{F}_2 , and let $M = M_\alpha$, $\Theta = M_\theta$. For any restricted quadratic function $F(x)$, let $H = M^t C_F M$. Then H is a symmetric matrix over \mathbb{F}_{2^n} with main diagonal elements zeros.

Conversely, for a symmetric matrix H with main diagonal elements all zeros, we can define a unique restricted quadratic

function $F(x)$ such that $H = M^t C_F M$. $F(x)$ is called the quadratic function defined by H relative to the ordered basis α .

In order to prove Theorem 1, let's show how to denote restricted quadratic functions in matrix form.

Let $F(x) = \sum_{1 \leq t < i \leq n} c_{i,t} x^{2^{i-1} + 2^{t-1}} \in \mathbb{F}_{2^n}[x]$, and an $n \times n$ matrix $E = (e_{i,t})_{n \times n}$ be defined by

$$e_{i,t} = \begin{cases} c_{i,t} & \text{if } i > t, \\ 0 & \text{if } i \leq t. \end{cases} \quad (1)$$

Let $X = (x^{2^0}, x^{2^1}, \dots, x^{2^{n-1}})^t$. Then we have

$$F(x) = X^t E X. \quad (2)$$

Let $x = x_1 \alpha_1 + x_2 \alpha_2 + \dots + x_n \alpha_n$, where $x_i \in \mathbb{F}_2$, $1 \leq i \leq n$. Then (2) equals to

$$F(x) = \bar{x}^t M^t E M \bar{x}, \quad (3)$$

where $\bar{x} = (x_1, x_2, \dots, x_n)^t$, and $M = M_\alpha$.

Based on (3), we can build a one to one correspondence between restricted quadratic APN functions and QAMs.

Theorem 1: Let $F(x) = \sum_{1 \leq t < i \leq n} c_{i,t} x^{2^{i-1} + 2^{t-1}} \in \mathbb{F}_{2^n}[x]$, C_F and M be defined as above, and $H = M^t C_F M$. Then, $\delta(F) = 2^k$ if and only if any nonzero linear combination of the n rows of H has rank at least $n - k$. In particular, F is APN on \mathbb{F}_{2^n} if and only if H is a QAM.

Proof: Let E and \bar{x} be the same as in (1) and (3), and $a = a_1 \alpha_1 + a_2 \alpha_2 + \dots + a_n \alpha_n$, where $\bar{a} = (a_1, \dots, a_n) \in \mathbb{F}_2^n \setminus \{0\}$. Let

$$D_a(x) = F(x + a) + F(x) + F(a).$$

Note that $D_a(x)$ is a linear function. So $\delta(F) = 2^k$ if and only if $\max\{\dim_{\mathbb{F}_2}(\text{Ker}(D_a)) \mid a \in \mathbb{F}_{2^n}^* \} = k$. Based on (3), we have

$$\begin{aligned} D_a(x) &= (\bar{x} + \bar{a})^t M^t E M (\bar{x} + \bar{a}) + \bar{x}^t M^t E M \bar{x} \\ &\quad + \bar{a}^t M^t E M \bar{a} \\ &= \bar{x}^t M^t E M (\bar{x} + \bar{a} + \bar{x}) + \bar{a}^t M^t E M (\bar{x} + \bar{a} + \bar{a}) \\ &= \bar{x}^t M^t E M \bar{a} + \bar{a}^t M^t E M \bar{x} \\ &= \bar{x}^t M^t E M \bar{a} + (\bar{a}^t M^t E M \bar{x})^t \\ &= \bar{x}^t M^t (E + E^t) M \bar{a} \\ &= \bar{x}^t M^t C_F M \bar{a} \\ &= \bar{x}^t H \bar{a}. \end{aligned}$$

Hence $\dim_{\mathbb{F}_2}(\text{Ker}(D_a)) = k$ if and only if $\text{Rank}_{\mathbb{F}_2}((H\bar{a})^t) = n - k$. $H\bar{a}$ is a nonzero linear combination of the n columns of H since $\bar{a} \in \mathbb{F}_2^n \setminus \{0\}$. Thus, $\delta(F) = 2^k$ if and only if any nonzero linear combination of the n columns of H has rank at least $n - k$.

Note that H is symmetric, thus the above results implies this theorem. \blacksquare

The matrix H which is associated with $F(x)$ in Theorem 1 is called the matrix of $F(x)$ relative to the ordered bases $\{\alpha_1, \dots, \alpha_n\}$.

Note that M is an invertible matrix on \mathbb{F}_{2^n} , so the correspondence between restricted quadratic APN functions and

QAMs is one to one. It seems that another similar approach have been considered by Knuth and Edelman, the readers can turn to Edelman's ppt [13] for details.

Theorem 1 is very useful when we want to study the differential properties of quadratic functions, and it can be generalized to \mathbb{F}_p^n , where p is any prime and n is a positive integer. In this paper, we use only this theorem to study quadratic APN functions on \mathbb{F}_2^n .

III. PROPERTIES OF QAMs

We will introduce some properties of QAMs in this section. Let $F(x)$ be a given restrict quadratic function. First we should like to inquire what happens to corresponding matrices when the ordered basis is changed. Let $\alpha = \{\alpha_1, \dots, \alpha_n\}$ and $\beta = \{\beta_1, \dots, \beta_n\}$ be two ordered bases for \mathbb{F}_2^n over \mathbb{F}_2 . Assume H_α and H_β are corresponding matrices for $F(x)$ relative to the α, β , respectively. How are the matrices H_α and H_β related?

As we know, there is a unique invertible $n \times n$ matrix $P \in \mathbb{F}_2^{n \times n}$ such that

$$(\beta_1, \dots, \beta_n) = (\alpha_1, \dots, \alpha_n)P.$$

Hence we have $M_\beta = M_\alpha P$. So we have $H_\beta = M_\beta^t C_F M_\beta = P^t H_\alpha P$.

Conversely, assume that H', H are two $n \times n$ symmetric matrices with main diagonal elements all zeros such that $H' = P^t H P$ for an invertible matrix P over \mathbb{F}_2 . Let $F(x)$ be the quadratic function defined by H relative to the ordered basis α . Let $\gamma = \{\gamma_1, \dots, \gamma_n\}$ be defined by $(\gamma_1, \dots, \gamma_n) = (\alpha_1, \dots, \alpha_n)P$. Then γ be a basis for \mathbb{F}_2^n , and $F(x)$ is also the quadratic function defined by H' relative to ordered basis γ . Now let $F'(x)$ be the quadratic function defined by H' relative to α , then how are the functions $F(x)$ and $F'(x)$ related?

In order to answer this problem, we first give a lemma in the following.

Lemma 1: Suppose $H = (h_{u,v})_{n \times n}$ is a symmetric matrix over \mathbb{F}_2^n with $h_{u,u} = 0$ for all $1 \leq u \leq n$. Define a set $S = \{K = (k_{u,v})_{n \times n} \mid k_{u,v} + k_{v,u} = h_{u,v} \text{ for all } 1 \leq v \leq u \leq n\}$. Then

- 1) $T \in S$ if and only if $T + T^t = H$.
- 2) If $T_1 + T_1^t = H$ and $T_2 + T_2^t = H$, then there exists a symmetric matrix A such that $T_2 = T_1 + A$.

Proof: 1) is obvious, omitting it, we prove only 2) in the following. Let $T_1 + T_1^t = H$ and $T_2 + T_2^t = H$. Then for any symmetry matrix A , there is

$$(T_1 + A) + (T_1 + A)^t = T_1 + T_1^t + A + A^t = T_1 + T_1^t = H,$$

which implies that $T_1 + A \in S$ for any symmetric matrix A .

Define a set $S' = \{T_1 + A \mid A \text{ is symmetry}\}$. Then $\#S' = 2^{n^2(n+1)/2} = \#S$, and for any $T \in S'$, we have $T + T^t = H$. Thus there must be $S = S'$. Therefore, $T_2 \in S'$, which implies that there exists a symmetric matrix A such that $T_2 = T_1 + A$. ■

Theorem 2: Let $H \in \mathbb{F}_2^{n \times n}$ be a symmetric matrix with main diagonal elements all zeros, and $P \in \mathbb{F}_2^{n \times n}$ be an invertible matrix. Suppose $H' = P^t H P$, then the quadratic functions defined by H and H' relative to an ordered basis α are EA-equivalent. Especially, H is a QAM if and only if H' is a QAM.

Proof: Let $F(x)$ and $F'(x)$ be the functions defined by H and H' relative to α , respectively, where $F(x) = \sum_{1 \leq t < i \leq n} c_{i,t} x^{2^{i-1} + 2^{t-1}}$, and $F'(x) = \sum_{1 \leq t < i \leq n} c'_{i,t} x^{2^{i-1} + 2^{t-1}}$. Let $E = (e_{i,t})$, and $E' = (e'_{i,t})$ be two $n \times n$ matrices with

$$e_{i,t} = \begin{cases} c_{i,t} & \text{if } i > t \\ 0 & \text{if } i \leq t, \end{cases} \text{ and } e'_{i,t} = \begin{cases} c'_{i,t} & \text{if } i > t \\ 0 & \text{if } i \leq t. \end{cases}$$

By (3), we have

$$F(x) = \bar{x}^t M^t E M \bar{x}, \text{ and } F'(x) = \bar{x}^t M^t E' M \bar{x},$$

where $\bar{x} = (x_1, x_2, \dots, x_n)^t \in \mathbb{F}_2^n$.

Let $T = M^t E M$, and $T' = M^t E' M$. Then $T + T^t = H$, and $T' + T'^t = H'$, which implies that $P^t T P + P^t T^t P = P^t H P = H' = T' + T'^t$. According to Lemma 1, there exists a symmetric matrix $A = (a_{u,v})_{n \times n}$ such that $T' = P^t T P + A$. Thus we have $\bar{x}^t T' \bar{x} = \bar{x}^t (P^t T P + A) \bar{x}$. Hence

$$\begin{aligned} F'(x) &= \bar{x}^t M^t E' M \bar{x} = \bar{x}^t P^t M^t E M P \bar{x} + \bar{x}^t A \bar{x} \\ &= G(x) + \bar{x}^t A \bar{x}, \end{aligned} \quad (4)$$

where $G(x) = \bar{x}^t P^t M^t E M P \bar{x}$.

Since A is symmetric, we have

$$\bar{x}^t A \bar{x} = \sum_{u=1}^n \sum_{v=1}^n a_{u,v} x_u x_v = \sum_{u=1}^n a_{u,u} x_u^2 = \sum_{u=1}^n a_{u,u} x_u. \quad (5)$$

By (4) and (5), $F'(x)$ is EA-equivalent to $G(x)$. As for $G(x)$, we have

$$G(x) = \bar{x}^t P^t M^t E M P \bar{x} = \bar{y}^t M^t E M \bar{y} = F(y),$$

where $\bar{y} = (y_1, y_2, \dots, y_n)^t = P \bar{x}$. So $G(x)$ is EA-equivalent to $F(x)$. Thus it can be deduced that $F'(x)$ is EA-equivalent to $F(x)$. Thus $\delta(F') = \delta(F)$, and then the whole theorem is proved. ■

We need the following lemma (which is Theorem 2.3 in [19]) when proving Lemma 3.

Lemma 2: [19] Let $\{\theta_1, \theta_2, \dots, \theta_n\}$ be any given basis of \mathbb{F}_2^n over \mathbb{F}_2 , and let $L(x)$ be linearized polynomial over \mathbb{F}_2^n . Then there exists a unique vector $(\beta_1, \beta_2, \dots, \beta_n) \in \mathbb{F}_2^n$ such that

$$L(x) = \sum_{j=1}^n \text{Tr}(\theta_j x) \beta_j = \sum_{i=1}^n \left(\sum_{j=1}^n \beta_j \theta_j^{2^i-1} \right) x^{2^i-1}.$$

Moreover, let k be an integer such that $0 \leq k \leq n$, then $\dim_{\mathbb{F}_2}(\text{Ker}(L)) = k$ if and only if $\text{Rank}_{\mathbb{F}_2} \{\beta_1, \beta_2, \dots, \beta_n\} = n - k$.

Lemma 3: Every quadratic function $Q(x) \in \mathbb{F}_2^n[x]$ with $Q(0) = 0$ can be denoted as

$$\begin{aligned} Q(x) &= \sum_{1 \leq v < u \leq n} \text{Tr}(\theta_u x) \text{Tr}(\theta_v x) (\eta_{u,v} + \eta_{v,u}) \\ &\quad + \sum_{u=1}^n \text{Tr}(\theta_u x) \eta_{u,u} \end{aligned} \quad (6)$$

$$= \sum_{1 \leq t < i \leq n} c_{i,t} x^{2^{i-1} + 2^{t-1}} + \text{Lin}(x), \quad (7)$$

where

$$c_{i,t} = \sum_{1 \leq u,v \leq n} \theta_u^{2^{i-1}} \theta_v^{2^{t-1}} (\eta_{v,u} + \eta_{u,v}),$$

$$\begin{aligned} \text{Lin}(x) &= \sum_{1 \leq v < u \leq n} (\eta_{u,v} + \eta_{v,u}) \text{Tr}(\theta_u \theta_v x^2) \\ &\quad + \sum_{u=1}^n \text{Tr}(\theta_u x) \eta_{u,u}, \end{aligned}$$

and

$$\eta_{u,v} \ (1 \leq u, v \leq n) \in \mathbb{F}_{2^n}.$$

Proof: According to Lemma 2, every quadratic function without constant term can be denoted as $Q(x) = \sum_{t=1}^n L'_t(x) x^{2^{t-1}}$, where $L'_t(x) = \sum_{u=1}^n \text{Tr}(\theta_u x) \omega_{u,t}$ and $\omega_{u,t} \in \mathbb{F}_{2^n}$ for all $1 \leq u, t \leq n$. Then we have $Q(x) = \sum_{u=1}^n L_u(x) \text{Tr}(\theta_u x)$, where $L_u(x) = \sum_{t=1}^n \omega_{u,t} x^{2^{t-1}}$. Again, according to Lemma 2, we have $L_u(x) = \sum_{v=1}^n \text{Tr}(\theta_v x) \eta_{v,u}$, where $\eta_{v,u} \in \mathbb{F}_{2^n}$ such that $\omega_{u,t} = \sum_{v=1}^n \theta_v^{2^{t-1}} \eta_{v,u}$. Hence we have

$$\begin{aligned} Q(x) &= \sum_{u=1}^n L_u(x) \text{Tr}(\theta_u x) \\ &= \sum_{u=1}^n \left(\sum_{v=1}^n \text{Tr}(\theta_v x) \eta_{v,u} \right) \text{Tr}(\theta_u x) \\ &= \sum_{1 \leq u, v \leq n} \text{Tr}(\theta_u x) \eta_{u,v} \text{Tr}(\theta_v x) \\ &= \sum_{1 \leq v < u \leq n} \text{Tr}(\theta_u x) \text{Tr}(\theta_v x) (\eta_{u,v} + \eta_{v,u}) \\ &\quad + \sum_{u=1}^n \text{Tr}(\theta_u x) \eta_{u,u} \\ &= \sum_{1 \leq v < u \leq n} \sum_{i=1}^n (\theta_u x)^{2^{i-1}} \sum_{t=1}^n (\theta_v x)^{2^{t-1}} (\eta_{u,v} + \eta_{v,u}) \\ &\quad + \sum_{u=1}^n \text{Tr}(\theta_u x) \eta_{u,u} \\ &= \sum_{1 \leq v < u \leq n} \sum_{1 \leq i, t \leq n} ((\eta_{u,v} + \eta_{v,u}) \theta_u^{2^{i-1}} \theta_v^{2^{t-1}} x^{2^{i-1} + 2^{t-1}}) + \sum_{u=1}^n \text{Tr}(\theta_u x) \eta_{u,u} \\ &= \sum_{1 \leq t < i \leq n} \sum_{1 \leq v < u \leq n} ((\eta_{u,v} + \eta_{v,u}) (\theta_u^{2^{i-1}} \theta_v^{2^{t-1}} x^{2^{i-1} + 2^{t-1}} + \theta_u^{2^{t-1}} \theta_v^{2^{i-1}} x^{2^{t-1} + 2^{i-1}})) + \text{Lin}(x) \\ &= \sum_{1 \leq t < i \leq n} \left(\sum_{1 \leq u, v \leq n} \theta_u^{2^{i-1}} \theta_v^{2^{t-1}} (\eta_{v,u} + \eta_{u,v}) \right) x^{2^{i-1} + 2^{t-1}} + \text{Lin}(x) \\ &= \sum_{1 \leq t < i \leq n} c_{i,t} x^{2^{i-1} + 2^{t-1}} + \text{Lin}(x). \end{aligned}$$

Lemma 3 will help us to prove the following result.

Theorem 3: Let $H = (h_{u,v}) \in \mathbb{F}_{2^n}^{n \times n}$ be a symmetric matrix with main diagonal elements all zeros, and L be a linear

permutation on \mathbb{F}_{2^n} . Let $H' = (h'_{u,v}) \in \mathbb{F}_{2^n}^{n \times n}$ such that $h'_{u,v} = L(h_{u,v})$ for all $1 \leq u, v \leq n$. Then the quadratic functions defined by H and H' relative to α are EA-equivalent. In particular, H is a QAM if and only if H' is a QAM.

Proof: Suppose the corresponding functions of H and H' are $F(x) = \sum_{1 \leq t < i \leq n} c_{i,t} x^{2^{i-1} + 2^{t-1}}$ and $F'(x) = \sum_{1 \leq t < i \leq n} c'_{i,t} x^{2^{i-1} + 2^{t-1}}$ respectively.

Let C_F be the same as in Section II. Then $H = M^t C_F M$. Hence $C_F = (M^t)^{-1} H M^{-1} = \Theta H \Theta^t$ ($\Theta = M_\theta$, see Section II). So

$$c_{i,t} = \sum_{1 \leq u, v \leq n} \theta_u^{2^{i-1}} \theta_v^{2^{t-1}} h_{u,v}.$$

Choose $\eta_{u,v}$ such that $\eta_{u,v} + \eta_{v,u} = h_{u,v}$ for all $1 \leq u, v \leq n$, and let $\eta_{u,u} = 0$ for all $1 \leq u \leq n$. Define a quadratic function $Q(x)$ over \mathbb{F}_2^n as follows:

$$\begin{aligned} Q(x) &= \sum_{1 \leq v < u \leq n} \text{Tr}(\theta_u x) \text{Tr}(\theta_v x) h_{u,v} \\ &= \sum_{1 \leq v < u \leq n} \text{Tr}(\theta_u x) \text{Tr}(\theta_v x) (\eta_{u,v} + \eta_{v,u}). \end{aligned}$$

Then from the proof of Lemma 3, we have

$$Q(x) = F(x) + \text{Lin}(x), \quad (8)$$

for some linear function $\text{Lin}(x)$ over \mathbb{F}_{2^n} .

Furthermore we define $Q'(x)$ by

$$Q'(x) = \sum_{1 \leq v < u \leq n} \text{Tr}(\theta_u x) \text{Tr}(\theta_v x) h'_{u,v}. \quad (9)$$

Using the same reasoning as $Q(x)$ and $F(x)$, we get $Q'(x) = F'(x) + \text{Lin}'(x)$ for some linear function $\text{Lin}'(x)$ over \mathbb{F}_{2^n} .

Thus we have

$$\begin{aligned} Q'(x) &= \sum_{1 \leq v < u \leq n} \text{Tr}(\theta_u x) \text{Tr}(\theta_v x) h'_{u,v} \\ &= \sum_{1 \leq v < u \leq n} \text{Tr}(\theta_u x) \text{Tr}(\theta_v x) L(h_{u,v}) \\ &= L \left(\sum_{1 \leq v < u \leq n} \text{Tr}(\theta_u x) \text{Tr}(\theta_v x) h_{u,v} \right) \\ &= L(Q(x)). \end{aligned} \quad (10)$$

By (8), (9) and (10), it deduce that $F(x)$ and $F'(x)$ are EA-equivalent. \blacksquare

Remark 1: Let $H = (h_{u,v})_{n \times n}$ and $H' = (h'_{u,v})_{n \times n}$ be two $n \times n$ matrices, and L be linear permutation on \mathbb{F}_{2^n} , then $H' = L(H)$ means $h'_{u,v} = L(h_{u,v})$ for all $1 \leq u, v \leq n$.

Based on Theorem 2 and Theorem 3 we can obtain the following corollary.

Corollary 1: Let $F(x)$ and $F'(x)$ be two restricted quadratic functions, and H and H' be their corresponding matrices, respectively. Then $F(x)$ is EA-equivalent to $F'(x)$ if $H' = L(P^t H P)$, where P is some $n \times n$ invertible matrix over \mathbb{F}_2 , and L is a linear permutation over \mathbb{F}_{2^n} .

Up to now, we have introduced the main theoretical results.

\blacksquare We can greatly reduce the data complexity when we want to find all the CCZ-inequivalent quadratic APN functions. In the following section, we will describe how to find great amount of CCZ-inequivalent quadratic APN functions.

IV. CONSTRUCTING QUADRATIC APN FUNCTIONS FROM A GIVEN QAM

In this section, we will introduce how to construct QAMs (or, restricted quadratic APN functions).

A. Further properties of QAMs

In Section III, we have introduced some theoretical results. In this section, we will give more results on QAMs. These results will be useful for designing effective algorithms for constructing quadratic APN functions.

Lemma 4: Let $H \in \mathbb{F}_2^{n \times n}$ be a symmetric matrix with main diagonal elements all zeros. Then every nonzero linear combination of the n rows of H has rank at most $n - 1$.

Proof: Obviously, $H[i]$ has rank at most $n - 1$ for any $1 \leq i \leq n$. Suppose $\mu = H[i_1] + H[i_2] + \dots + H[i_t]$, where $2 \leq t \leq n$ and $\{i_1, i_2, \dots, i_t\}$ is a subset of $\{1, 2, \dots, n\}$. Then we have $\mu[i_1] + \mu[i_2] + \dots + \mu[i_t] = 0$, so $\text{Rank}_{\mathbb{F}_2}(\mu) \leq n - 1$, which implies this lemma. ■

Before proving the main result of this section, let us give the following definition which is convenient for our discussion.

Definition 6: Let $H \in \mathbb{F}_2^{m \times k}$ ($m, k \leq n$). H is called proper if every nonzero linear combination of the m rows of H has rank at least $k - 1$.

First, we give the following lemma.

Lemma 5: Let $A \in \mathbb{F}_2^{r \times c}$ ($1 \leq r < c \leq n$), and $A' = AP$, where $P \in \mathbb{F}_2^{c \times c}$ is invertible. Then A is proper implies that A' is also proper.

Proof: Let $S = \{\sum_{i=1}^r \lambda_i A[i] : (\lambda_1, \dots, \lambda_r) \in \mathbb{F}_2^r \setminus \{0\}\}$, and $S' = \{\sum_{i=1}^r \lambda_i A'[i] : (\lambda_1, \dots, \lambda_r) \in \mathbb{F}_2^r \setminus \{0\}\}$. Let $S'' = \{sP : s \in S\}$. Since P is invertible, we have $S' = S''$, and $\text{Rank}_{\mathbb{F}_2}(s) = \text{Rank}_{\mathbb{F}_2}(sP)$. ■

Now we can prove the following theorem:

Theorem 4: Let $A = (a_{i,j}) \in \mathbb{F}_2^{r \times c}$ ($1 \leq r < c \leq n$) such that $a_{i,j} = a_{j,i}$ and $a_{i,i} = 0$ for $1 \leq i, j \leq r$. Let $A[\cdot, k]$ be the k -th column of A , and $b = \sum_{k=1}^c \lambda_k A[\cdot, k]$, where $\lambda_k \in \mathbb{F}_2$ for $1 \leq k \leq c$. Assume $t = \text{Rank}_{\mathbb{F}_2}\{b[1], b[2], \dots, b[r]\}$. If A is proper, then we have:

- i) If $(\lambda_{r+1}, \dots, \lambda_c) = 0$, then $t = r - 1$;
- ii) If $(\lambda_{r+1}, \dots, \lambda_c) \neq 0$, then $t = r$.

Proof: i) Assume $(\lambda_{r+1}, \dots, \lambda_c) = 0$. Then $b = \sum_{k=1}^r \lambda_k A[\cdot, k]$. By Lemma 4, $t \leq r - 1$. Let $B = \text{Submatrix}(A, 1, 1, r, r)$, by the definition of A , we have

$$\begin{aligned} \text{Rank}_{\mathbb{F}_2}\left(\sum_{k=1}^r \lambda_k A[\cdot, k]\right) &= \text{Rank}_{\mathbb{F}_2}\left(\sum_{k=1}^r \lambda_k B[\cdot, k]\right) \\ &= \text{Rank}_{\mathbb{F}_2}\left(\sum_{k=1}^r \lambda_k B[k]\right). \end{aligned}$$

If $t < r - 1$, then we have $\text{Rank}_{\mathbb{F}_2}(\sum_{k=1}^c \lambda_k A[k]) < r - 1 + (c - r) = c - 1$, which contradicts with A being proper. Thus $t = r - 1$.

ii) Suppose $(\lambda_{r+1}, \dots, \lambda_c) \neq 0$. Without loss of generality, let $\lambda_c = 1$. Then substitute $A[\cdot, c]$ with b , we get a new $r \times c$ matrix A' . If $t < r$, then there exists $0 \neq (\lambda'_1, \dots, \lambda'_r) \in \mathbb{F}_2^r$ such that $\lambda'_1 A'[1, c] + \lambda'_2 A'[2, c] + \dots + \lambda'_r A'[r, c] = 0$. Without loss of generality, suppose $\lambda'_1 \neq 0$. Next we perform the following operations step by step, first, substitute $A'[1]$

with $\sum_{i=1}^r \lambda'_i A'[i]$ and get a new matrix A'' ; second, substitute $A''[\cdot, 1]$ with $\sum_{i=1}^r \lambda'_i A''[\cdot, i]$ and get a new matrix A''' . By Lemma 5 and the definition of proper, it implies that A' , A'' and A''' are also proper. However, after these changes, we have $A'''[1, 1] = A'''[1, c] = 0$, which contradicts with A''' being proper. Thus $t < r$ is not true, so $t = r$. ■

According to Theorem 4, we get the following corollary.

Corollary 2: Let $H = (h_{u,v})_{n \times n}$ be an $n \times n$ symmetric matrix over \mathbb{F}_2^n , and $A = \text{Submatrix}(H, 1, 1, r, c)$. Suppose $B = A^t = \text{Submatrix}(H, 1, 1, c, r)$. Then A is proper implies that B is also proper.

Corollary 2 is useful in our algorithm for constructing QAMs. Our algorithm can be summarized as ‘‘Guess and determine’’. The basic idea is: every submatrix of a QAM must be proper (See Definition 6). So, if a matrix has a submatrix which is not proper, it cannot be a QAM. Based on this corollary, we can exclude some improper candidates in advance when we haven’t known the whole values of the matrix. Notice that every QAM is symmetric, so we will know the values of $A = \text{Submatrix}(H, 1, 1, r, c)$ and $B = A^t = \text{Submatrix}(H, 1, 1, c, r)$ at the same time. According to Corollary 2, we only need to check whether A is proper. Thus we can avoid some unnecessary checking in our searching algorithm.

B. How to construct QAMs

In this section, we will introduce a problem and then we will show how to construct QAMs through solving this problem.

Problem 1: Suppose e_i is a vector of length n with $e_i[i] = 1$ and $e_i[j] = 0$ for $i \neq j$. Let x_i be a variable in \mathbb{F}_2^n , $i = 1, \dots, n - 1$. Suppose these $n - 1$ variables satisfy

$$\lambda_1 x_1 + \dots + \lambda_{n-1} x_{n-1} \in S_{\lambda_1 e_1 + \dots + \lambda_{n-1} e_{n-1}}, \quad (11)$$

for all $(\lambda_1, \dots, \lambda_{n-1}) \in \mathbb{F}_2^{n-1} \setminus \{0\}$, where $S_{\lambda_1 e_1 + \dots + \lambda_{n-1} e_{n-1}}$ are some subsets of \mathbb{F}_2^n . The problem is, how to find all $\vec{x} = (x_1, \dots, x_{n-1}) \in \mathbb{F}_2^{n-1}$ which satisfies (11).

(11) consists of $2^{n-1} - 1$ conditions, and we need to find all the qualified \vec{x} . As a matter of fact, all the constructions of QAMs can be reduced as Problem 1. Details are in the following.

Given an $n \times n$ QAM matrix H over \mathbb{F}_2^n , we wish to reassign the values of the last column of H to get some new QAMs. Let $A = \text{Submatrix}(H, 1, 1, n - 1, n - 1)$, it is easy to see that A is proper. By Lemma 4, any nonzero linear combination of the $n - 1$ rows of A has rank $n - 2$.

Let $c = (x_1, \dots, x_{n-1})^t$, and $H' = \begin{pmatrix} A & c \\ c^t & 0 \end{pmatrix}$. We want to choose suitable c to make H' a QAM. Actually, by Theorem 4 (ii), we need only to choose $c = (x_1, \dots, x_{n-1})^t$ to satisfy (11), where $S_{\lambda_1 e_1 + \dots + \lambda_{n-1} e_{n-1}} = \mathbb{F}_2^n \setminus \text{Span}(\lambda_1 A[1] + \dots + \lambda_{n-1} A[n - 1])$.

We can shrink S_{e_1} in (11). Let $V = \text{Span}(A[1, 1], A[1, 2], \dots, A[1, n - 1])$. In (11), $S_{e_1} = \mathbb{F}_2^n \setminus V$, which equals to $(V + a_1) \cup (V + a_2) \cup (V + a_3)$ for some $a_i \in \mathbb{F}_2^n$, $1 \leq i \leq 3$ because of $\dim(V) = n - 2$. Since $x_1 \in S_{e_1}$, there exists $y \in V$ such that $x_1 = y + a_i$ for some i , i.e., $a_i = x_1 + y$. Since $y \in V$ and $A[1, 1] = 0$, $y = \lambda_2 A[1, 2] + \dots + \lambda_{n-1} A[1, n - 1]$ for

some $\lambda_i \in \mathbb{F}_2$, $i = 2, \dots, n-1$. So we may perform suitable column transformations to change x_1 into a_i , and perform the corresponding row transformations to change $H'[n, 1]$ into a_i . Since we consider only to find CCZ-inequivalent functions, then by Theorem 2, we may take $S_{e_1} = \{a_1, a_2, a_3\}$. Because in the above transformation, we do not use the first column, based on the same reason as the S_{e_1} , we may take $S_{e_2} = \{b_1, \dots, b_l\}$, where $l = 2^{n-1} - 2^{n-3}$.

Further, given a QAM H , we may also reassign the values of the last two columns of H to get some new QAMs. This can also be reduced to Problem 1. The difference is that we must apply the problem twice. Similarly, we can reassign more columns of H . So this method can generate almost all CCZ-inequivalent quadratic APN functions if we change enough columns.

In view of the above discussions, an algorithm for solving problem 1 is important for our approach for constructing new quadratic functions. In the following, we describe an algorithm for solving Problem 1.

Algorithm 1: Step 1. Initialization. Given a QAM H over \mathbb{F}_{2^n} , let $A = \text{Submatrix}(H, 1, 1, n-1, n-1)$. Let $e_t \in \mathbb{F}_2^{n-1}$ with $e_t[t] = 1$, and $e_t[j] = 0$ for $j \neq t$. Let $S_{(\lambda_1, \dots, \lambda_{n-1})}^1 = \mathbb{F}_{2^n} \setminus \text{Span}(\lambda_1 A[1] + \dots + \lambda_{n-1} A[n-1])$ for all $(\lambda_1, \lambda_2, \dots, \lambda_{n-1}) \in \mathbb{F}_2^{n-1} \setminus \{0\}$. Let $i = 1$.

Step 2. For each $x_i \in S_{e_i}^i$, do Step 3.

Step 3. If $i = n-1$, then do Step 5, else do Step 4.

Step 4. Let $H[i, n] = H[n, i] = x_i$. For all $(\lambda_{i+1}, \dots, \lambda_{n-1}) \in \mathbb{F}_2^{n-1-i} \setminus \{0\}$, define $S_{\lambda}^{i+1} = S_{\lambda}^i \cap S_{\lambda \oplus e_i}^i$, where $\lambda = (0, \dots, 0, \lambda_{i+1}, \dots, \lambda_{n-1}) \in \mathbb{F}_2^{n-1}$. Then let $i := i+1$, turn to Step 2.

Step 5. Let $H[n-1, n] = H[n, n-1] = x_{n-1}$, then output H .

Example 1: Algorithm 1 is the core part of our program. If we want to find new APN functions on \mathbb{F}_{2^n} for $n \geq 8$, then we must change the values of a QAM for at least two columns (and rows). We give an example in the following. It is well-known that x^3 is a restricted quadratic APN function on \mathbb{F}_{2^n} . Let $n = 8$, g be the default primitive element used in Magma, and C be an 8×8 matrix such that $C[1, 2] = C[2, 1] = 1$ and $C[i, t] = 0$ for all the other values. Suppose M is an 8×8 matrix such that $M[i, j] = (g^{11})^{2^{i-1} + 2^{j-1}}$ for $1 \leq i, j \leq n$ (Note that $\{(g^{11}), (g^{11})^2, \dots, (g^{11})^{2^{n-1}}\}$ is a basis of \mathbb{F}_{2^8} over \mathbb{F}_2). Then we can get the corresponding QAM of x^3 : $H = M^t C M =$

$$\begin{pmatrix} 0 & g^{34} & g^{81} & g^{83} & g^{170} & g^{106} & g^{84} & g^{17} \\ g^{34} & 0 & g^{68} & g^{162} & g^{166} & g^{85} & g^{212} & g^{168} \\ g^{81} & g^{68} & 0 & g^{136} & g^{69} & g^{77} & g^{170} & g^{169} \\ g^{83} & g^{162} & g^{136} & 0 & g^{17} & g^{138} & g^{154} & g^{85} \\ g^{170} & g^{166} & g^{69} & g^{17} & 0 & g^{34} & g^{21} & g^{53} \\ g^{106} & g^{85} & g^{77} & g^{138} & g^{34} & 0 & g^{68} & g^{42} \\ g^{84} & g^{212} & g^{170} & g^{154} & g^{21} & g^{68} & 0 & g^{136} \\ g^{17} & g^{168} & g^{169} & g^{85} & g^{53} & g^{42} & g^{136} & 0 \end{pmatrix}.$$

Reassign the values of the last two columns (and rows), we

can get a new QAM $H' =$

$$\begin{pmatrix} 0 & g^{34} & g^{81} & g^{83} & g^{170} & g^{106} & g^{84} & 1 \\ g^{34} & 0 & g^{68} & g^{162} & g^{166} & g^{85} & g^{212} & g^{233} \\ g^{81} & g^{68} & 0 & g^{136} & g^{69} & g^{77} & g^{170} & g^{165} \\ g^{83} & g^{162} & g^{136} & 0 & g^{17} & g^{138} & g^{64} & g^{68} \\ g^{170} & g^{166} & g^{69} & g^{17} & 0 & g^{34} & g^{235} & g^{250} \\ g^{106} & g^{85} & g^{77} & g^{138} & g^{34} & 0 & g^{151} & g^{81} \\ g^{84} & g^{212} & g^{170} & g^{64} & g^{235} & g^{151} & 0 & g^{113} \\ 1 & g^{233} & g^{165} & g^{68} & g^{250} & g^{81} & g^{113} & 0 \end{pmatrix}.$$

The corresponding APN function of H' is $F'(x) = g^{145} * x^{192} + g^{173} * x^{160} + g^{239} * x^{144} + g^{141} * x^{136} + g^{197} * x^{132} + g^{35} * x^{130} + g^{92} * x^{129} + g^7 * x^{96} + g^{176} * x^{80} + g^{99} * x^{72} + g^{135} * x^{68} + g^{182} * x^{66} + g^{34} * x^{65} + g^{117} * x^{48} + g^{36} * x^{40} + g^{108} * x^{36} + g^{160} * x^{34} + g^{187} * x^{33} + g^3 * x^{24} + g^{27} * x^{20} + g^{156} * x^{18} + g^{215} * x^{17} + g^{99} * x^{12} + g^{188} * x^{10} + g * x^9 + g^{137} * x^6 + g^{225} * x^5 + g^{206} * x^3$, which is CCZ-inequivalent to x^3 . So we have got a new APN functions over \mathbb{F}_{2^8} .

C. Experimental results

We have implemented the algorithm in this paper. In this subsection we will report experiment results using our algorithm.

(i) Dillon [12] listed 18 classes of CCZ-inequivalent APN functions over \mathbb{F}_{2^7} . Edel [16] found a new class of APN function and this list expanded to 19 classes. With our method, firstly we can construct a 7×7 QAM H from x^3 , then reassign the values $H[3, 6]$, $H[3, 7]$, $H[4, 5]$, $H[4, 6]$, $H[4, 7]$, $H[5, 6]$, $H[5, 7]$ and $H[6, 7]$ (during this process, we must keep H symmetric). Using this idea we can get more than 470 classes of CCZ-inequivalent quadratic APN functions, and these functions are all CCZ-inequivalent to the known ones. Similar method can be used on \mathbb{F}_{2^6} . According to Edel's results [14], there is only 13 classes of CCZ-inequivalent quadratic APN functions. Our program shows that it is only need to change 8 (2×4) elements of of a QAM and get all the 13 classes of CCZ-inequivalent quadratic APN functions. This method is an early version of our program, which works efficiently on \mathbb{F}_{2^n} for $n \leq 7$. But when $n \geq 8$, it becomes very slow.

(ii) For now, the algorithm based on solving Problem 1 is the most efficient method for finding new QAMs. It should be noted that we must change the last two columns (and rows) of a known QAM to get new QAMs when $n \geq 8$. Algorithm 1 can be implemented in parallel, and we are running our programs in many computers now. Up to now, we have found more than 1000 classes of CCZ-inequivalent quadratic APN functions on \mathbb{F}_{2^8} , and they are all CCZ-inequivalent to the 23 classes of known ones introduced by Dillon [12] and Edel [16]. We have checked all these new APN functions with the method introduced in [4], none of them is CCZ-equivalent to a permutation.

V. CONCLUSION

We find a correspondence relationship between quadratic APN functions and a special kind of matrices. Based on this result, we have developed efficient algorithms to construct

quadratic APN functions. Up to now, we have found more than 470 and 1000 classes of new CCZ-inequivalent quadratic APN functions on \mathbb{F}_{2^7} and \mathbb{F}_{2^8} respectively (See the appendices). We think our lists are not complete, especially the list on \mathbb{F}_{2^8} . It is far from complete, so we will add some new quadratic APN functions in the lists in the future. Certainly we will also check whether the new APN functions are CCZ-equivalent to some permutations. Our idea is just a beginning. Much related work can be done in the future, such as, finding some QAMs whose corresponding functions are APN on \mathbb{F}_{2^n} for infinite many n , generalizing the matrix approach to construct PN functions, and finding better methods to construct QAMs, etc.

REFERENCES

- [1] C. Bracken, E. Byrne, N. Markin, and G. McGuire, "New families of quadratic almost perfect nonlinear trinomials and multinomials," *Finite Fields and Their Appl.*, vol. 14, no. 3, pp. 703-714, 2008.
- [2] C. Bracken, E. Byrne, N. Markin, and G. McGuire, "A few more quadratic APN functions," *Cryptogr. Commun.*, vol. 3, no. 3, pp. 43-53, 2011.
- [3] K. Browning, J. F. Dillon, and M. McQuistan, "APN polynomials and related codes," Special volume of *Journal of Combinatorics, Information and System Sciences*, honoring the 75-th birthday of Prof. D.K.Ray-Chaudhuri, vol. 34, no. 1-4, pp. 135-159, 2009.
- [4] K. Browning, J. F. Dillon, M. T. McQuistan and A. J. Wolfe, "An APN permutation in dimension six," *Contemporary Mathematics*, vol. 58, pp. 33-42, 2010.
- [5] L. Budaghyan, C. Carlet and A. Pott, "New classes of almost bent and almost perfect nonlinear polynomials," *IEEE Trans. Inf. Theory*, vol. 52, no. 3, pp. 1141-1152, 2006.
- [6] L. Budaghyan and C. Carlet. "Classes of quadratic APN trinomials and hexanomials and related structures," *IEEE Trans. Inf. Theory*, vol. 54, no. 5, pp. 2354-2357, 2008.
- [7] L. Budaghyan, C. Carlet and G. Leander, "Constructing new APN functions from known ones," *Finite Fields and Their Appl.*, vol. 15, no. 2, pp. 150-159, 2009.
- [8] L. Budaghyan, C. Carlet and G. Leander, "Two classes of quadratic APN binomials inequivalent to power functions," *IEEE Trans. Inf. Theory*, vol. 54, no. 9, pp. 4218-4229, 2008.
- [9] C. Carlet. *Vectorial Boolean Functions for Cryptography*, In: Crama, Y., Hammer, P. (eds.) *Boolean Models and Methods in Mathematics, Computer Science, and Engineering*, pp. 398-469. Cambridge University Press, Cambridge (2010); Preliminary version available at <http://www-rocq.inria.fr/codes/Claude.Carlet/pubs.html>.
- [10] C. Carlet, P. Charpin, and V. Zinoviev. "Codes, bent functions and permutations suitable for DES-like cryptosystems," *Designs, Codes and Cryptography*, 15(2):125-156, 1998.
- [11] J. Daemen and V. Rijmen, *AES Proposal: Rijndael*, 1999, [Online]. Available: <http://csrc.nist.gov/encryption/aes/rijndael/Rijndael.pdf>.
- [12] J. F. Dillon, "APN polynomials: an update," Fq9, The 9th International Conference on Finite Fields and Appl., Dublin, Ireland, 2009.
- [13] Y. Edel, "Geometrical and combinatorial aspects of APN functions", Contact Forum: Coding Theory and Cryptography III, Brussels, (2009) [Online]. Available: <http://cage.ugent.be/~ls/website2009/abstracts/slidesyvesedel.pdf>.
- [14] Y. Edel, "Quadratic APN functions as subspaces of alternating bilinear forms," Proceedings of the Contact Forum Coding Theory and Cryptography III, Belgium (2009), pp. 11-24, 2011.
- [15] Y. Edel, G. Kyureghyan, and A. Pott, "A new APN function which is not equivalent to a power mapping," *IEEE Trans. Inf. Theory*, vol. 52, no. 2, pp. 744-747, 2006.
- [16] Y. Edel and A. Pott, "A new almost perfect nonlinear function which is not quadratic," *Adv. Math. Commun.* vol. 3, no. 1, pp. 59-81, 2009.
- [17] R. Gold, "Maximal recursive sequences with 3-valued recursive cross-correlation functions," *IEEE Trans. Inf. Theory*, vol. 14, no. 1, pp. 154-156, 1968.
- [18] R. Lidl and H. Niederreiter, *Finite fields*. Cambridge, U.K.: Cambridge Univ. Press, pp. 58, 1983.
- [19] S. Ling and L. Qu, "A note on linearized polynomials and the dimension of their kernels," *Finite Fields and Their Appl.*, vol. 18, no. 1, pp. 56-62, 2012.
- [20] K. Nyberg and L. R. Knudsen, "Provable security against differential cryptanalysis", *CRYPTO 92*, LCNS 740 Springer-Verlag, 566-574.
- [21] S. Yoshiara, "Equivallences of quadratic APN functions," *J. Algebr. Comb.*, vol. 35, no. 3, pp. 461-475, 2012.
- [22] Z. Zha and X. Wang, "Almost Perfect Nonlinear Power Functions in Odd Characteristic," *IEEE Trans. Inf. Theory*, vol. 57, no. 7, pp. 4826-4832, 2011.

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1 Appendix 1: 490 CCZ-inequivalent APN functions on \mathbb{F}_{2^7}

g is the default primitive element of \mathbb{F}_{2^7} in Magma (V2.12-16).

```
x^3, //1
x^9, //2
x^5, //3
x^13, //4
x^57, //5
x^126, //6
x^3 + x^9 + x^10 + x^66 + x^80, //7
x^5 + x^18 + x^34, //8
x^3 + x^6 + x^20, //9
x^3 + x^17 + x^20 + x^34 + x^66, //10
x^3 + x^17 + x^33 + x^34, //11
x^3 + x^5 + x^10 + x^33 + x^34, //12
x^3 + x^9 + x^18 + x^66, //13
x^3 + x^12 + x^17 + x^33, //14
x^3 + x^20 + x^34 + x^66, //15
x^3 + x^12 + x^40 + x^72, //16
x^3 + x^6 + x^34 + x^40 + x^72, //17
x^3 + x^5 + x^6 + x^12 + x^33 + x^34, //18
g^32*x^96 + g^7*x^80 + g^22*x^72 + g^60*x^68 + g^74*x^66 + g^37*x^65 + g^93*x^48 + g^43*x^40 + g^37*x^36 + g^69*x^34 + g^114*x^33 + g^60*x^24 + g^22*x^20 + g^32*x^18 + g^67*x^17 + g^107*x^12 + g^88*x^10 + g^93*x^9 + g^64*x^6 + g^121*x^5 + g^22*x^3,
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//19

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g^27*x^96 + g^74*x^80 + g^115*x^72 + g^108*x^68 + g^10*x^66 + g^100*x^65 + g^90*x^48 + g^15*x^40 + g^84*x^36 + g^126*x^34 + g*x^33 + g^103*x^24 + g^105*x^20 + g^103*x^18 + g^93*x^17 + g^118*x^12 + g^119*x^10 + g^118*x^9 + g^24*x^6 + g^20*x^5 + g^23*x^3,
g^3*x^96 + g^126*x^80 + g^116*x^72 + g^109*x^66 + g^106*x^65 + g^90*x^48 + g^4*x^40 + g^70*x^36 + g^76*x^34 + g^115*x^33 + g^79*x^24 + g^10*x^20 + g^80*x^18 + g^117*x^17 + g^4*x^10 + g^62*x^9 + g^39*x^6 + g^102*x^5 + g^26*x^3,
g^95*x^96 + g^48*x^80 + g^14*x^72 + g^112*x^68 + g^93*x^66 + g^16*x^65 + g^30*x^48 + g^76*x^40 + g^103*x^36 + g^44*x^34 + g^77*x^33 + g^50*x^24 + g^118*x^20 + g^20*x^18 + g^101*x^17 + g^91*x^12 + g^13*x^10 + g^115*x^9 + g^33*x^6 + g^55*x^3,
g^49*x^96 + g^97*x^80 + g^100*x^72 + g*x^68 + g^42*x^66 + g^21*x^65 + g^29*x^48 + g^122*x^40 + g^97*x^36 + g^2*x^34 + g^117*x^33 + g^68*x^24 + g^74*x^20 + x^18 + g^13*x^17 + g^95*x^12 + g^90*x^10 + g^48*x^9 + g^55*x^6 + g^79*x^5 + g^124*x^3,
g^104*x^96 + g^10*x^80 + g^77*x^72 + g^121*x^68 + g^82*x^66 + g^123*x^65 + g^17*x^48 + g^52*x^40 + g^3*x^36 + g^40*x^34 + g^95*x^33 + g^57*x^24 + g^5*x^20 + g^122*x^18 + g^105*x^17 + g^39*x^12 + g^41*x^10 + g^33*x^9 + g^73*x^6 + g^9*x^5 + g^10*x^3,
g^54*x^96 + g^80*x^80 + g^54*x^72 + g^39*x^68 + x^66 + g^28*x^65 + g^20*x^48 + g^25*x^40 + g^9*x^36 + g^8*x^34 + g^46*x^33 + g^2*x^24 + g^76*x^20 + g^125*x^18 + g^48*x^17 + g^66*x^12 + g^60*x^10 + g^36*x^9 + g^90*x^6 + g^60*x^5 + g^121*x^3,
g^118*x^96 + g^83*x^80 + g^70*x^72 + g^126*x^66 + g^100*x^65 + x^48 + g^115*x^40 + g^34*x^36 + g^3*x^34 + g^12*x^33 + g^124*x^24 + g^78*x^20 + g^123*x^18 + g^58*x^17 + g^15*x^12 + g^92*x^10 + g^80*x^9 + g^97*x^6 + g^15*x^5 + g^72*x^3,
g^6*x^96 + g^121*x^80 + g^87*x^72 + g^26*x^68 + g^121*x^66 + g^8*x^65 + g^105*x^48 + g^37*x^40 + g^98*x^36 + g^51*x^34 + g^37*x^33 + g^25*x^24 + g^63*x^20 + g^113*x^18 + g^9*x^17 + g^75*x^12 + g^109*x^10 + g^53*x^9 + g^66*x^6 + g^108*x^5 + g^45*x^3,
g^77*x^96 + g^85*x^80 + g^36*x^72 + g^72*x^68 + g^55*x^66 + g^42*x^65 + g^79*x^48 + g^73*x^40 + g^38*x^36 + g^66*x^34 + g^4*x^33 + g^108*x^24 + g^40*x^20 + g^74*x^18 + g^32*x^17 + g^36*x^12 + g^94*x^10 + g^32*x^9 + g^80*x^6 + g^2*x^5 + g^81*x^3,
g^69*x^96 + g^110*x^80 + g^100*x^72 + g^90*x^68 + g^91*x^66 + g^6*x^65 + g^41*x^48 + g^43*x^40 + x^36 + g^114*x^34 + g^111*x^33 + g^23*x^24 + g^9*x^20 + g^67*x^18 + g^123*x^17 + g^60*x^12 + g^68*x^9 + g^122*x^6 + g^31*x^5 + g^99*x^3,
g^54*x^96 + g^74*x^80 + g^79*x^72 + g^5*x^68 + g^90*x^66 + g^50*x^65 + g^56*x^48 + g^71*x^40 + g^72*x^36 + g^88*x^33 + g^69*x^24 + g^57*x^20 + g^66*x^18 + g^70*x^17 + g^81*x^12 + g^9*x^10 + g^58*x^9 + g^54*x^6 + g^13*x^5 + g^64*x^3,
g^47*x^96 + g^7*x^80 + g^100*x^72 + g^47*x^66 + g^30*x^65 + g^85*x^48 + g^106*x^40 + g^91*x^36 + g^86*x^34 + g^67*x^33 + g^73*x^24 + g^102*x^20 + g^14*x^18 + g^99*x^17 + g^82*x^12 + g^64*x^10 + g^28*x^9 + g^69*x^6 + g^60*x^5 + g^16*x^3,
g^91*x^96 + g^124*x^80 + g^42*x^72 + g^61*x^68 + g^89*x^66 + g^91*x^65 + g^96*x^48 + g^67*x^40 + g^125*x^36 + g^67*x^34 + g^75*x^33 + g^22*x^24 + g^52*x^20 + g^20*x^18 + g^61*x^17 + g^49*x^12 + g^29*x^10 + g^54*x^9 + g^75*x^6 + g^89*x^5 + g^77*x^3,
g^47*x^96 + g^77*x^80 + g^58*x^72 + g^97*x^68 + g^18*x^66 + g^14*x^65 + g^47*x^48 + g^120*x^40 + g^73*x^36 + g^42*x^34 + g^90*x^33 + g^90*x^24 + g^42*x^20 + g^32*x^18 + g^46*x^17 + g^105*x^12 + g^48*x^10 + g^54*x^9 + g^72*x^6 + g^15*x^5 + g^42*x^3,
g^40*x^96 + g^102*x^80 + g^116*x^72 + g^8*x^68 + g^45*x^66 + x^65 + g^42*x^48 + x^40 + g^115*x^36 + g^91*x^34 + g^108*x^33 + g^57*x^24 + g^29*x^20 + g^100*x^18 + g^56*x^17 + g^2*x^12 + g^84*x^10 + g^107*x^9 + g^32*x^6 + g^110*x^5 + g^45*x^3,
g^55*x^96 + g^82*x^80 + g^56*x^72 + g^27*x^68 + g^71*x^66 + g^93*x^65 + g^83*x^48 + g^115*x^40 + g^5*x^36 + g^98*x^34 + g^13*x^33 + g^81*x^24 + g^74*x^20 + g^9*x^18 + x^17 + g^14*x^12 + g^109*x^10 + g^122*x^6 + g^6*x^5 + g^94*x^3,
g^51*x^96 + g^96*x^80 + g^107*x^72 + g^33*x^68 + g^57*x^66 + g^42*x^65 + g^115*x^48 + g^13*x^40 + g^49*x^36 + g^116*x^34 + g^126*x^33 + g^19*x^24 + g^80*x^20 + g^99*x^18 + g^35*x^17 + g^57*x^12 + g^39*x^10 + g^80*x^9 + g^21*x^6 + g^61*x^5 + g^52*x^3,
g^22*x^96 + g^56*x^80 + g^49*x^72 + g^32*x^68 + g^38*x^66 + g^19*x^65 + g^16*x^48 + g^99*x^40 + g^33*x^36 + g^93*x^34 + g^55*x^33 + g^5*x^24 + g^83*x^20 + g^56*x^18 + g^69*x^17 + g*x^12 + g^16*x^10 + g^112*x^9 + g^99*x^5 + g^7*x^3,
g^111*x^96 + g^21*x^80 + g^113*x^72 + g^32*x^68 + g^79*x^66 + g^17*x^65 + g^113*x^48 + g^94*x^40 + g^55*x^36 + g^62*x^34 + g^102*x^33 + g^120*x^24 + g^36*x^20 + g^111*x^18 + g^11*x^17 + g^23*x^12 + g^64*x^10 + g^40*x^9 + g^73*x^6 + g^118*x^5 + g^97*x^3,
g^90*x^96 + g^48*x^80 + g^104*x^72 + g^45*x^68 + g^119*x^66 + g^45*x^65 + g^86*x^48 + g^55*x^40 + g^45*x^36 + g^105*x^34 + g^14*x^33 + g^96*x^24 + g^57*x^20 + g^14*x^18 + g^35*x^17 + g^14*x^12 + g^100*x^10 + g^126*x^6 + g^65*x^5 + g^88*x^3,
g^109*x^96 + g^126*x^80 + g^60*x^72 + g^11*x^68 + g^80*x^66 + g^93*x^65 + g^115*x^48 + g^96*x^40 + g^107*x^36 + g^19*x^34 + g^24*x^33 + g^3*x^24 + g^34*x^20 + g^88*x^18 + g^125*x^17 + g^31*x^12 + g^103*x^10 + g^15*x^9 + g^18*x^6 + g^100*x^5 + g^107*x^3,
g^106*x^96 + g^77*x^80 + g^24*x^72 + g^27*x^68 + g^31*x^66 + g^12*x^65 + g^81*x^48 + g^110*x^40 + g^43*x^36 + g^16*x^34 + g^44*x^33 + g^40*x^24 + g^75*x^20 + g^102*x^18 + g^87*x^17 + g^79*x^12 + g^55*x^10 + g^22*x^9 + g^71*x^6 + g^75*x^5 + g^4*x^3,
g^104*x^96 + g^117*x^80 + g^79*x^72 + g^65*x^68 + g^75*x^66 + g^117*x^65 + g^119*x^64 + g^119*x^48 + g^103*x^40 + g^80*x^36 + g^117*x^34 + g^9*x^33 + g^117*x^24 + g^32*x^20 + g^34*x^18 + g^72*x^17 + g^17*x^12 + g^117*x^10 + g^120*x^9 + g^49*x^6 + g^51*x^5 + g^67*x^3,
g^56*x^96 + g^69*x^80 + g^74*x^72 + g^110*x^68 + g^21*x^66 + g^108*x^65 + g^32*x^48 + g^106*x^40 + g^13*x^36 + g^120*x^34 + g^19*x^33 + g^30*x^24 + g^33*x^20 + g^73*x^18 + g^113*x^12 + g^11*x^10 + g^77*x^9 + g^9*x^6 + g^62*x^5 + g^50*x^3,
g^104*x^96 + g^49*x^80 + g^120*x^72 + g^61*x^68 + g^34*x^66 + g^82*x^65 + g^65*x^48 + g^110*x^40 + g^104*x^36 + g^82*x^34 + g^104*x^33 + g^86*x^24 + g^3*x^20 + g^91*x^18 + g^89*x^17 + g^63*x^12 + g^72*x^10 + g^118*x^9 + g^34*x^6 + g^121*x^5 + g^43*x^3,
g^107*x^96 + g^51*x^80 + g^112*x^72 + g^123*x^68 + g^91*x^66 + g^36*x^65 + g^2*x^48 + g^27*x^40 + g^65*x^36 + g^55*x^34 + g^112*x^33 + g^31*x^24 + g^108*x^20 + g^25*x^18 + g^89*x^17 + g^35*x^12 + g^99*x^10 + g^42*x^9 + g^102*x^6 + g^101*x^5 + g^89*x^3,
g^93*x^96 + g^113*x^80 + g^15*x^72 + g^44*x^68 + g^75*x^66 + g^51*x^65 + g^67*x^48 + g^64*x^40 + g^7*x^36 + g^125*x^33 + g^15*x^24 + g^27*x^24 + g^125*x^20 + g^93*x^18 + g^68*x^17 + g^88*x^12 + g^87*x^10 + g^51*x^9 + g^75*x^6 + g^83*x^5 + g^93*x^3,
g^35*x^96 + g^101*x^80 + g^107*x^72 + g^38*x^68 + g^33*x^66 + g^47*x^65 + g^93*x^48 + g^67*x^40 + g^14*x^36 + g^116*x^34 + g^109*x^33 + g^12*x^24 + g^24*x^20 + g^37*x^18 + g^21*x^17 + g^118*x^12 + g^55*x^10 + g^2*x^9 + g^21*x^6 + g^64*x^5 + g^38*x^3,
g^9*x^96 + g^125*x^80 + g^62*x^72 + g^70*x^68 + g^95*x^66 + g^90*x^65 + g^119*x^48 + g^44*x^40 + g^88*x^36 + g^88*x^34 + g^27*x^33 + g^171*x^24 + g^81*x^20 + g^30*x^18 + g^19*x^17 + g^72*x^12 + g^63*x^10 + g^31*x^9 + g^51*x^6 + g^21*x^5 + g^49*x^3,
g^48*x^96 + x^80 + g^15*x^72 + g^56*x^68 + g^13*x^66 + g^91*x^65 + g^84*x^48 + g^40*x^40 + g^4*x^36 + g^109*x^34 + g^62*x^33 + g^39*x^24 + g^112*x^20 + g^44*x^18 + g^97*x^17 + g^114*x^12 + g^25*x^10 + g^58*x^9 + g^55*x^6 + g^88*x^5 + g^91*x^3,
g^45*x^96 + g^11*x^80 + g^94*x^72 + g^119*x^68 + g^11*x^66 + g^111*x^65 + g^70*x^48 + g^51*x^40 + g^14*x^36 + g^33*x^34 + g^96*x^33 + g^5*x^24 + g^57*x^20 + g^112*x^18 + g^25*x^17 + g^22*x^12 + g^13*x^10 + g^120*x^9 + g^96*x^6 + g^61*x^5 + g^31*x^3,
g^126*x^96 + g^22*x^80 + g^105*x^72 + g^30*x^68 + g^44*x^66 + g^9*x^65 + g^84*x^48 + g^77*x^40 + g^58*x^36 + g^95*x^34 + g^28*x^33 + g^11*x^24 + g^112*x^20 + g^62*x^18 + g^77*x^17 + g^107*x^12 + g^7*x^10 + g^82*x^9 + g^94*x^6 + g^51*x^5 + g^48*x^3,
g^106*x^96 + g^124*x^80 + g^71*x^72 + g^64*x^68 + g^53*x^66 + g^115*x^48 + g^86*x^40 + g^34*x^36 + g^125*x^34 + g^124*x^33 + g^7*x^24 + g^57*x^20 + g^72*x^18 + g^11*x^17 + g^8*x^12 + g^11*x^10 + g^32*x^9 + g^47*x^6 + g^74*x^5 + g^116*x^3,
g^47*x^96 + g^18*x^80 + g^27*x^72 + g^32*x^68 + g^16*x^66 + g^81*x^65 + g^75*x^48 + g^74*x^40 + g^7*x^36 + g^42*x^34 + g^38*x^34 + g^26*x^33 + g^115*x^24 + g^3*x^20 + g^91*x^18 + g^89*x^17 + g^63*x^12 + g^72*x^10 + g^118*x^9 + g^34*x^6 + g^121*x^5 + g^43*x^3,
g^56*x^96 + g^47*x^80 + g^22*x^72 + g^113*x^68 + g^47*x^66 + g^36*x^65 + g^64*x^48 + g^111*x^40 + g^48*x^36 + g^93*x^34 + g^71*x^33 + g^70*x^24 + g^76*x^20 + g^15*x^18 + g*x^17 + g^114*x^12 + g^92*x^10 + g^18*x^9 + g^16*x^6 + g^88*x^5 + g^33*x^3,
g^95*x^96 + g^81*x^80 + g^28*x^72 + g^113*x^68 + g^20*x^66 + g^21*x^65 + g^21*x^65 + g^65*x^48 + g*x^40 + g^65*x^36 + g^68*x^34 + g^112*x^24 + g^103*x^24 + g^103*x^18 + g^104*x^17 + g^57*x^12 + g^81*x^10 + g^108*x^9 + g^62*x^6 + g^19*x^5 + g^33*x^3,
g^84*x^96 + g^79*x^80 + g^27*x^72 + g^33*x^68 + g^73*x^66 + g^96*x^65 + g^27*x^48 + g^46*x^40 + g^78*x^36 + g^126*x^34 + g^84*x^33 + g^41*x^24 + g^114*x^20 + g^41*x^18 + g^26*x^17 + g^30*x^12 + g^121*x^10 + g^33*x^9 + g^123*x^6 + g^88*x^5 + g^75*x^3,
g^73*x^96 + g^49*x^80 + g^106*x^72 + g^41*x^68 + g^47*x^66 + g^21*x^65 + g^27*x^48 + g^82*x^40 + g^82*x^40 + g^18*x^36 + g^69*x^34 + g^2*x^33 + g^37*x^24 + g^110*x^20 + g^82*x^18 + g^86*x^17 + g^38*x^12 + g^19*x^10 + g^32*x^9 + g^56*x^6 + g^89*x^5 + g^81*x^3,
g^105*x^96 + g^115*x^80 + g^40*x^72 + g^31*x^66 + g^30*x^65 + g^56*x^48 + g^10*x^40 + g^102*x^36 + g^46*x^34 + g^63*x^33 + g^47*x^24 + g^62*x^20 + g^72*x^18 + g^116*x^17 + g^70*x^12 + g^83*x^10 + g^44*x^9 + g^101*x^6 + g^51*x^5 + g^78*x^3,
g^93*x^96 + g^110*x^80 + g^68*x^72 + g^52*x^68 + g^61*x^66 + g^106*x^65 + g^45*x^48 + g^50*x^40 + g^28*x^36 + g^10*x^34 + g^23*x^33 + g^54*x^24 + g^93*x^20 + g^104*x^18 + g^59*x^17 + g^89*x^12 + g^81*x^10 + g^54*x^9 + g^112*x^6 + g^54*x^5 + g^87*x^3,
g^40*x^96 + g^96*x^80 + g^105*x^72 + g^39*x^68 + g^83*x^65 + g^74*x^48 + g^8*x^40 + g^26*x^36 + g^95*x^34 + g^49*x^33 + g^6*x^24 + g*x^20 + g^82*x^18 + g^52*x^17 + g^84*x^12 + g^13*x^10 + g^118*x^9 + g^8*x^5 + g^62*x^3,
g^24*x^96 + g^25*x^80 + g^66*x^72 + g^26*x^68 + g^52*x^66 + g^88*x^65 + g^88*x^48 + g^16*x^40 + g^20*x^36 + g^11*x^34 + g^60*x^33 + g^81*x^24 + g^30*x^20 + g^38*x^18 + g^89*x^17 + g^77*x^12 + g^87*x^10 + g^97*x^9 + g^113*x^6 + g^115*x^5 + g^120*x^3,
g^64*x^96 + g^36*x^80 + g^58*x^72 + g^9*x^68 + g^85*x^66 + g^80*x^65 + g^92*x^48 + g^74*x^40 + g^77*x^36 + g^42*x^34 + g^38*x^34 + g^12*x^24 + g^96*x^20 + g^122*x^18 + g^122*x^12 + g^51*x^12 + g^29*x^9 + g^29*x^6 + g^31*x^5 + g^89*x^3,
g^26*x^96 + g^125*x^80 + g^82*x^72 + g^28*x^68 + g^9*x^66 + g^98*x^65 + g^63*x^48 + g^2*x^40 + g^97*x^36 + g^87*x^34 + g^74*x^33 + g^13*x^24 + g^89*x^20 + g^81*x^18 + g^89*x^17 + g^90*x^12 + g^24*x^10 + g^9*x^9 + g^79*x^6 + g^7*x^5 + g^30*x^3,
g^65*x^96 + g^6*x^80 + g^59*x^72 + g^9*x^68 + g^5*x^66 + g^116*x^65 + g^123*x^48 + g^17*x^40 + g^99*x^36 + g^69*x^34 + g^50*x^33 + g^115*x^24 + g^125*x^20 + g^101*x^18 + g^51*x^17 + g^111*x^12 + g^115*x^10 + g^63*x^9 + g^58*x^6 + g^19*x^5 + g^18*x^3,
g^28*x^96 + g^46*x^80 + g^58*x^72 + g^118*x^68 + g^14*x^66 + g^23*x^65 + g^43*x^48 + g^113*x^40 + g^37*x^36 + g^53*x^34 + g^16*x^33 + g^31*x^24 + g^107*x^20 + g^53*x^18 + g^102*x^17 + g^115*x^12 + g^38*x^10 + g^107*x^9 + g^35*x^6 + g^87*x^5 + g^67*x^3,
g^49*x^96 + g^101*x^80 + g^105*x^72 + g^126*x^68 + g^109*x^66 + g^126*x^65 + g^89*x^48 + g^18*x^40 + g^18*x^36 + g^15*x^34 + g^49*x^24 + g^63*x^20 + g^37*x^18 + g^97*x^17 + g^16*x^12 + g^62*x^10 + g^60*x^9 + g^112*x^6 + g^95*x^5 + g^70*x^3,
g^78*x^96 + g^102*x^80 + g^122*x^72 + g^22*x^68 + g^50*x^66 + g^54*x^65 + g^88*x^48 + g^119*x^40 + g^68*x^36 + g^117*x^34 + g^70*x^33 + g^47*x^24 + g^62*x^20 + g^72*x^18 + g^116*x^17 + g^70*x^12 + g^83*x^10 + g^44*x^9 + g^101*x^6 + g^51*x^5 + g^78*x^3,
g^8*x^96 + g^3*x^80 + g^4*x^72 + g^102*x^68 + g^41*x^66 + g^25*x^65 + g^64*x^48 + g^72*x^40 + g^32*x^36 + g^29*x^34 + x^33 + g^124*x^24 + g^39*x^20 + g^57*x^18 + g^15*x^17 + g^34*x^12 + g^123*x^10 + g^13*x^9 + g^37*x^6 + g^12*x^5 + g^103*x^3,
g^54*x^96 + g^83*x^80 + g^27*x^72 + g^106*x^68 + g^106*x^66 + g^102*x^65 + g^74*x^48 + g^47*x^40 + g^126*x^36 + g^126*x^34 + g^106*x^33 + g^124*x^24 + g^92*x^20 + g^4*x^18 + g^107*x^17 + g^5*x^12 + g^93*x^10 + g^55*x^9 + g^123*x^6 + g^114*x^5 + g^104*x^3,
g^65*x^96 + g^98*x^80 + g^24*x^72 + g^47*x^68 + g^77*x^66 + g^40*x^65 + g^116*x^48 + g^47*x^40 + g^32*x^36 + g^43*x^34 + g^100*x^33 + g^42*x^24 + g^69*x^20 + g^25*x^18 + g^26*x^17 + g^80*x^12 + g^117*x^10 + g^6*x^9 + g^59*x^6 + g^48*x^5 + g^86*x^3,
g^123*x^96 + g^75*x^80 + g^19*x^72 + g^20*x^68 + g^46*x^66 + g^109*x^65 + g^46*x^48 + g^24*x^36 + g^14*x^34 + g^19*x^33 + g^14*x^24 + g^27*x^20 + g^28*x^18 + g^76*x^17 + g^83*x^12 + g^78*x^10 + g^83*x^9 + g^99*x^6 + g^83*x^5 + g^111*x^3,
g^52*x^96 + g^88*x^80 + g^25*x^72 + g^12*x^68 + g^74*x^66 + g^14*x^65 + g^96*x^48 + g^37*x^40 + g^54*x^36 + g^43*x^34 + g^4*x^33 + g^84*x^24 + g^14*x^20 + g^117*x^18 + g^52*x^17 + g^19*x^12 + g^45*x^10 + g^101*x^9 + g^124*x^6 + g^78*x^5 + g^13*x^3,
g^9*x^96 + g^84*x^80 + g^41*x^72 + g^45*x^68 + g^27*x^66 + g^45*x^65 + g^15*x^40 + g^70*x^36 + g^109*x^34 + g^96*x^33 + x^24 + g^36*x^20 + g^59*x^18 + g^15*x^17 + g^95*x^12 + g^49*x^10 + x^9 + g^66*x^6 + g^85*x^5 + g^116*x^3,
g^115*x^96 + g^40*x^80 + g^55*x^72 + g^63*x^68 + g^79*x^66 + g^123*x^65 + g^41*x^48 + g^54*x^40 + g^35*x^36 + g^108*x^34 + g^21*x^33 + g^69*x^24 + g^26*x^20 + g^15*x^18 + g^56*x^17 + g^110*x^12 + g^67*x^10 + g^113*x^9 + g^99*x^6 + g^7*x^5 + g^30*x^3,
g^4*x^96 + g^39*x^80 + g^98*x^72 + g^121*x^68 + g^125*x^66 + g^124*x^65 + g^5*x^48 + g^126*x^40 + g^90*x^36 + g^64*x^34 + g^77*x^33 + g^58*x^24 + g^2*x^18 + g^70*x^17 + g^113*x^12 + g^41*x^10 + g^58*x^9 + g^104*x^6 + g^28*x^5 + g^74*x^3,
g^120*x^96 + g^36*x^80 + g^126*x^72 + g^40*x^68 + g^81*x^66 + g^78*x^65 + g^9*x^48 + g^42*x^40 + g^12*x^36 + g^42*x^34 + g^54*x^33 + g^6*x^24 + g^39*x^20 + g^80*x^18 + g^20*x^17 + g^41*x^12 + g^62*x^10 + g^65*x^9 + g^69*x^6 + g^47*x^5 + g^18*x^3,
g^49*x^96 + g^124*x^80 + g^13*x^72 + g^25*x^68 + g^7*x^66 + g^121*x^65 + g^112*x^48 + g^65*x^40 + g^50*x^36 + g^3*x^34 + g^89*x^33 + g^94*x^24 + g^57*x^20 + g^73*x^18 + g^77*x^17 + g^11*x^12 + g^43*x^10 + g^26*x^9 + g^4*x^6 + g^84*x^5 + g^37*x^3,
g^47*x^96 + g^43*x^80 + g^22*x^72 + g^50*x^68 + g^3*x^66 + g^120*x^65 + g^98*x^48 + g^42*x^40 + g^55*x^36 + g^103*x^34 + g^20*x^33 + g^38*x^24 + g^85*x^20 + g^119*x^18 + g^4*x^17 + g^68*x^12 + g^95*x^10 + g^32*x^9 + g^45*x^6 + g^21*x^5 + g^117*x^3,
g^94*x^96 + g^98*x^80 + g^108*x^72 + g^9*x^68 + g^87*x^66 + g^80*x^65 + g^120*x^48 + g^23*x^40 + g^95*x^36 + g^66*x^34 + g^50*x^33 + g^86*x^24 + g^107*x^20 + g^83*x^18 + g^63*x^17 + g^20*x^12 + g^33*x^10 + g^14*x^9 + g^18*x^6 + g^54*x^5 + g^69*x^3,
g^6*x^96 + g^119*x^80 + g^2*x^72 + g^26*x^68 + g^85*x^66 + g^8*x^48 + g^29*x^40 + g^124*x^36 + g^22*x^34 + g^51*x^33 + g^28*x^24 + g^14*x^20 + g^91*x^18 + g^102*x^17 + g^77*x^12 + g^60*x^10 + g^15*x^9 + g^32*x^6 + g^17*x^5 + g^60*x^3,
g^35*x^96 + g^15*x^80 + g^91*x^72 + g^42*x^68 + g^109*x^66 + g^16*x^65 + g^104*x^48 + g^119*x^40 + g^118*x^36 + g^28*x^34 + g^20*x^33 + g^117*x^24 + g^125*x^20 + g^179*x^18 + g^63*x^17 + g^114*x^12 + g^45*x^10 + g^102*x^9 + g^28*x^6 + g^36*x^5 + g^108*x^3,
g^100*x^96 + g^125*x^80 + g^44*x^72 + g^73*x^68 + g^73*x^66 + g^102*x^66 + g^90*x^65 + g^70*x^48 + g^66*x^40 + g^112*x^36 + g^118*x^34 + g^34*x^33 + g^12*x^24 + g^116*x^
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g^34*x^96 + g^60*x^80 + g^14*x^72 + g^79*x^68 + g^11*x^66 + g^53*x^65 + g^53*x^48 + g^111*x^40 + g^117*x^36 + g^109*x^34 + g^18*x^33 + g^83*x^24 + g^41*x^20 + g^94*x^18 + g^123*x^17 + g^53*x^12 + g^22*x^10 + g^63*x^9 + g^61*x^6 + g^13*x^5 + g^112*x^3, g^121*x^96 + g^21*x^80 + g^102*x^72 + g^74*x^68 + g^13*x^66 + g^114*x^65 + g^82*x^48 + g^54*x^40 + g^123*x^36 + g^30*x^34 + g^7*x^33 + g^36*x^24 + g^50*x^20 + g^15*x^18 + g^92*x^17 + g^46*x^12 + g^45*x^10 + g^63*x^9 + g^13*x^6 + g^61*x^5 + g^72*x^3, g^111*x^96 + g^86*x^80 + g^67*x^72 + g^115*x^68 + g^47*x^66 + g^123*x^65 + g^83*x^48 + g^123*x^48 + g^63*x^36 + g^73*x^34 + g^4*x^33 + g^111*x^24 + g^84*x^24 + g^56*x^18 + g^107*x^12 + g^110*x^9 + g^88*x^6 + g^76*x^5 + g^73*x^3, g^20*x^96 + g^117*x^80 + g^111*x^68 + g^120*x^66 + g^74*x^65 + g^8*x^48 + g^49*x^40 + g^35*x^36 + g^24*x^34 + g^13*x^33 + g^22*x^24 + g^11*x^20 + g^70*x^18 + g^60*x^17 + g^21*x^12 + g^99*x^10 + g^118*x^9 + g^96*x^6 + g^51*x^5 + g^31*x^3, g^122*x^96 + g^69*x^80 + g^95*x^72 + g^45*x^68 + g^10*x^66 + g^13*x^65 + g^8*x^48 + g^64*x^40 + g^54*x^36 + g^112*x^34 + g^59*x^33 + g^44*x^24 + g^52*x^20 + g^2*x^18 + g^73*x^9 + g^45*x^6 + g^36*x^5 + g^112*x^3, g^38*x^96 + g^10*x^80 + g^30*x^72 + g^40*x^68 + g^96*x^66 + g^18*x^65 + g^13*x^48 + g^98*x^40 + g^51*x^36 + g^107*x^34 + g^69*x^33 + g^34*x^24 + g^87*x^20 + g^27*x^18 + g^40*x^17 + g^75*x^12 + g^23*x^10 + g^64*x^9 + g^86*x^6 + g^100*x^5 + g^60*x^3, g^107*x^96 + g^74*x^80 + g^94*x^72 + g^94*x^68 + g^7*x^66 + g^86*x^48 + g^23*x^40 + g^21*x^36 + g^103*x^34 + g^40*x^33 + g^2*x^24 + g^24*x^20 + g^20*x^18 + g^30*x^17 + g^115*x^12 + g^36*x^10 + g^124*x^9 + g^56*x^6 + g^19*x^5 + g^17*x^3, g^101*x^96 + g^x^80 + g^74*x^72 + g^57*x^68 + g^76*x^66 + g^95*x^65 + g^4*x^48 + g^113*x^40 + g^69*x^36 + g^13*x^34 + g^71*x^33 + g^46*x^24 + g^81*x^20 + g^7*x^18 + g^86*x^17 + g^58*x^12 + g^82*x^10 + g^60*x^9 + g^87*x^6 + g^51*x^5 + g^97*x^3, g^7*x^96 + g^48*x^80 + g^89*x^72 + g^123*x^68 + g^119*x^66 + g^71*x^65 + g^22*x^48 + g^38*x^40 + g^58*x^36 + g^117*x^34 + g^2*x^33 + g^52*x^24 + g^5*x^20 + g^45*x^18 + g^83*x^17 + g^94*x^12 + g^72*x^10 + g^25*x^6 + g^26*x^5 + g^13*x^3, g^10*x^96 + g^x^80 + g^64*x^72 + g^17*x^68 + g^38*x^66 + g^43*x^65 + g^82*x^48 + g^8*x^36 + g^77*x^34 + g^2*x^33 + g^30*x^24 + g^26*x^20 + g^65*x^18 + g^115*x^17 + g^113*x^12 + g^115*x^10 + g^108*x^9 + g^30*x^6 + g^68*x^5 + g^46*x^3, g^106*x^96 + g^52*x^80 + g^82*x^72 + g^59*x^68 + g^72*x^66 + g^124*x^65 + g^4*x^48 + g^7*x^40 + g^8*x^36 + g^68*x^34 + g^110*x^33 + g^13*x^24 + g^38*x^20 + g^11*x^18 + g^100*x^17 + g^73*x^12 + g^8*x^10 + g^56*x^9 + g^39*x^6 + g^61*x^3, g^23*x^96 + g^99*x^80 + g^11*x^72 + g^7*x^68 + g^35*x^66 + g^69*x^65 + g^56*x^48 + g^123*x^40 + g^19*x^36 + g^4*x^34 + g^91*x^33 + g^10*x^24 + g^34*x^20 + g^67*x^18 + g^100*x^17 + g^62*x^12 + g^49*x^10 + g^47*x^9 + g^66*x^6 + g^30*x^5 + g^106*x^3, g^x^96 + g^37*x^80 + g^81*x^72 + g^55*x^68 + g^106*x^66 + g^14*x^65 + g^48*x^48 + g^124*x^40 + g^85*x^36 + g^84*x^34 + g^46*x^33 + g^60*x^24 + g^75*x^20 + g^95*x^18 + g^122*x^17 + g^74*x^12 + g^86*x^10 + g^106*x^9 + g^84*x^6 + g^20*x^5 + g^110*x^3, g^82*x^96 + g^95*x^80 + g^22*x^72 + g^105*x^68 + g^80*x^66 + g^74*x^65 + g^92*x^48 + g^19*x^40 + g^9*x^36 + g^76*x^34 + g^53*x^33 + g^125*x^24 + g^88*x^20 + g^32*x^18 + g^20*x^17 + g^45*x^12 + g^117*x^10 + g^41*x^9 + g^13*x^6 + g^25*x^5 + g^39*x^3, g^123*x^96 + g^75*x^80 + g^40*x^72 + g^110*x^68 + g^80*x^66 + g^29*x^65 + g^27*x^48 + g^46*x^40 + g^76*x^36 + g^15*x^34 + g^116*x^33 + g^120*x^24 + g^43*x^20 + g^124*x^18 + g^57*x^17 + g^124*x^12 + g^81*x^10 + g^106*x^9 + g^23*x^6 + g^112*x^5 + g^4*x^3, g^26*x^96 + g^126*x^80 + g^122*x^72 + g^42*x^68 + g^41*x^66 + g^2*x^65 + g^12*x^48 + g^12*x^40 + g^126*x^36 + g^95*x^34 + g^126*x^33 + g^15*x^24 + g^14*x^20 + g^100*x^18 + g^13*x^17 + g^8*x^12 + g^125*x^10 + g^94*x^9 + g^107*x^6 + g^63*x^5 + g^21*x^3, g^49*x^96 + g^45*x^80 + g^9*x^72 + g^117*x^68 + g^83*x^66 + g^37*x^65 + g^88*x^48 + g^35*x^40 + g^96*x^36 + g^57*x^34 + g^108*x^33 + g^20*x^24 + g^10*x^20 + g^60*x^18 + g^106*x^17 + g^54*x^12 + g^69*x^9 + g^64*x^6 + g^36*x^5 + g^113*x^3, g^54*x^96 + g^59*x^80 + g^56*x^72 + g^51*x^68 + g^10*x^66 + g^54*x^65 + g^21*x^48 + g^73*x^40 + g^115*x^36 + g^34*x^34 + g^112*x^33 + g^50*x^24 + g^67*x^20 + g^101*x^18 + g^27*x^17 + g^6*x^12 + g^51*x^10 + g^110*x^9 + g^49*x^6 + g^42*x^5 + g^17*x^3, g^11*x^96 + g^71*x^80 + g^116*x^72 + g^85*x^68 + g^43*x^66 + g^123*x^65 + g^114*x^65 + g^123*x^48 + g^66*x^40 + g^108*x^36 + g^44*x^34 + g^40*x^33 + g^41*x^24 + g^22*x^20 + g^62*x^18 + g^14*x^12 + g^36*x^10 + g^35*x^9 + g^45*x^6 + g^97*x^5 + g^76*x^3, g^56*x^96 + g^38*x^80 + g^31*x^72 + g^26*x^68 + g^64*x^66 + g^27*x^65 + g^94*x^48 + g^28*x^40 + g^62*x^36 + g^97*x^34 + g^92*x^33 + g^73*x^24 + g^38*x^20 + g^67*x^18 + g^121*x^17 + g^9*x^12 + g^123*x^10 + g^98*x^9 + g^83*x^6 + g^70*x^5 + g^31*x^3, g^50*x^96 + g^72*x^80 + g^125*x^72 + g^14*x^68 + g^125*x^66 + g^91*x^65 + x^48 + g^50*x^40 + g^96*x^36 + g^79*x^34 + g^99*x^33 + g^6*x^24 + g^73*x^20 + g^111*x^18 + g^52*x^17 + g^103*x^12 + g^35*x^10 + g^7*x^9 + g^122*x^6 + g^24*x^5 + g^62*x^3, g^5*x^96 + g^73*x^80 + g^29*x^72 + g^118*x^68 + g^68*x^66 + g^43*x^65 + g^21*x^48 + g^48*x^40 + g^29*x^40 + g^48*x^36 + g^107*x^33 + g^26*x^24 + g^70*x^20 + g^118*x^18 + g^33*x^17 + g^71*x^12 + g^55*x^10 + g^82*x^9 + g^91*x^6 + g^47*x^5 + g^25*x^3, g^88*x^96 + g^61*x^80 + g^15*x^72 + g^105*x^68 + g^126*x^66 + g^34*x^65 + g^107*x^48 + g^76*x^40 + g^91*x^36 + g^100*x^34 + g^59*x^33 + g^43*x^24 + g^35*x^20 + g^30*x^18 + g^62*x^17 + g^45*x^12 + g^86*x^10 + g^113*x^9 + g^82*x^6 + g^14*x^5 + g^92*x^3, g^5*x^96 + g^8*x^80 + g^107*x^72 + g^98*x^68 + g^47*x^66 + g^6*x^65 + g^67*x^48 + g^16*x^40 + g^5*x^36 + g^83*x^34 + g^32*x^33 + g^88*x^24 + g^105*x^20 + g^115*x^18 + g^5*x^17 + g^x^12 + g^115*x^10 + g^8*x^9 + g^71*x^6 + g^42*x^5 + g^22*x^3, g^73*x^96 + g^87*x^80 + g^23*x^72 + g^101*x^68 + g^110*x^66 + g^78*x^65 + g^91*x^48 + g^13*x^40 + g^x^36 + g^86*x^34 + g^113*x^33 + g^118*x^24 + g^53*x^20 + g^20*x^18 + g^111*x^18 + g^29*x^17 + g^118*x^12 + g^53*x^10 + g^30*x^9 + g^106*x^6 + g^76*x^5 + g^34*x^3, g^87*x^96 + g^104*x^80 + g^109*x^72 + g^78*x^68 + g^3*x^66 + g^51*x^65 + g^13*x^48 + g^66*x^40 + g^74*x^36 + g^107*x^34 + g^106*x^33 + g^23*x^24 + g^79*x^20 + g^100*x^18 + g^111*x^17 + g^98*x^12 + g^81*x^10 + g^63*x^9 + g^41*x^6 + g^80*x^5 + g^76*x^3, g^21*x^96 + g^78*x^80 + g^69*x^72 + g^71*x^68 + g^118*x^66 + g^44*x^65 + g^8*x^48 + g^18*x^40 + g^16*x^36 + g^5*x^34 + g^77*x^33 + g^48*x^24 + g^39*x^20 + g^33*x^18 + g^100*x^17 + g^120*x^12 + g^78*x^10 + g^66*x^9 + g^21*x^6 + g^3*x^5 + g^77*x^3, g^81*x^96 + g^87*x^80 + g^120*x^72 + g^32*x^68 + g^108*x^66 + g^105*x^65 + g^54*x^48 + g^94*x^40 + g^101*x^36 + g^28*x^34 + g^16*x^24 + g^122*x^20 + g^117*x^18 + g^88*x^17 + g^58*x^12 + g^96*x^10 + g^121*x^9 + g^71*x^6 + g^118*x^5 + g^102*x^3, g^40*x^96 + g^120*x^80 + g^125*x^72 + g^84*x^68 + g^122*x^66 + g^22*x^65 + g^88*x^48 + g^2*x^40 + g^x^36 + g^105*x^34 + g^84*x^33 + g^103*x^24 + g^97*x^20 + g^93*x^18 + g^106*x^17 + g^40*x^12 + g^96*x^10 + g^85*x^9 + g^38*x^6 + g^126*x^5 + g^72*x^3, g^114*x^96 + g^3*x^80 + g^115*x^72 + g^115*x^68 + g^122*x^66 + g^101*x^65 + g^101*x^48 + g^30*x^40 + g^99*x^36 + g^x^34 + g^107*x^33 + g^120*x^24 + g^102*x^20 + g^50*x^18 + g^88*x^17 + g^48*x^12 + g^27*x^10 + g^60*x^9 + g^85*x^6 + g^126*x^5 + g^121*x^3, g^63*x^96 + g^79*x^80 + g^40*x^72 + g^38*x^68 + g^28*x^66 + g^122*x^65 + g^35*x^48 + g^47*x^40 + g^92*x^36 + g^4*x^34 + g^115*x^33 + g^95*x^24 + g^61*x^20 + g^88*x^18 + g^84*x^17 + g^53*x^12 + g^84*x^10 + g^22*x^9 + g^64*x^6 + g^60*x^5 + g^66*x^3, g^112*x^96 + g^61*x^80 + g^10*x^72 + g^66*x^68 + g^97*x^66 + g^97*x^65 + g^13*x^48 + g^113*x^40 + g^11*x^36 + g^23*x^34 + g^108*x^33 + g^72*x^24 + g^105*x^20 + g^109*x^18 + g^105*x^17 + g^79*x^12 + g^18*x^10 + g^71*x^9 + g^33*x^6 + g^49*x^5 + g^25*x^3, g^125*x^96 + g^40*x^80 + g^56*x^72 + g^122*x^68 + g^83*x^66 + g^31*x^65 + g^18*x^48 + g^98*x^40 + g^98*x^36 + g^66*x^34 + g^124*x^33 + g^75*x^24 + g^16*x^20 + g^x^18 + g^22*x^17 + g^106*x^12 + g^28*x^10 + g^50*x^9 + g^25*x^6 + g^36*x^5 + g^126*x^3, g^17*x^96 + g^8*x^80 + g^88*x^72 + g^x^68 + g^69*x^66 + g^107*x^65 + g^4*x^48 + g^61*x^40 + g^x^36 + g^4*x^34 + g^101*x^33 + g^118*x^24 + g^55*x^20 + g^20*x^18 + g^7*x^17 + g^50*x^12 + g^105*x^10 + g^31*x^9 + g^70*x^6 + g^68*x^5 + g^104*x^3, g^27*x^96 + g^47*x^80 + g^105*x^72 + g^88*x^68 + g^14*x^66 + g^94*x^65 + g^2*x^48 + g^49*x^40 + g^45*x^36 + g^9*x^34 + g^20*x^33 + g^113*x^24 + g^124*x^20 + g^97*x^18 + g^80*x^17 + g^124*x^12 + g^122*x^10 + g^30*x^9 + g^59*x^6 + g^52*x^5 + g^116*x^3, g^80*x^96 + g^93*x^80 + g^70*x^72 + g^63*x^66 + g^59*x^65 + g^3*x^48 + g^45*x^40 + g^53*x^36 + g^105*x^34 + g^66*x^33 + g^48*x^24 + g^39*x^20 + g^33*x^18 + g^100*x^17 + g^120*x^12 + g^78*x^10 + g^66*x^9 + g^21*x^6 + g^3*x^5 + g^77*x^3, g^97*x^96 + g^5*x^80 + g^86*x^72 + g^86*x^68 + g^104*x^66 + g^56*x^65 + g^31*x^48 + g^96*x^40 + g^16*x^34 + g^20*x^33 + g^16*x^24 + g^x^20 + g^55*x^18 + g^81*x^17 + g^118*x^12 + g^44*x^10 + g^83*x^9 + g^33*x^6 + g^30*x^5 + g^86*x^3, g^78*x^96 + g^62*x^80 + g^113*x^72 + g^110*x^68 + g^72*x^66 + g^85*x^65 + g^101*x^48 + g^116*x^40 + g^110*x^36 + g^103*x^34 + g^51*x^33 + g^51*x^24 + g^3*x^20 + g^22*x^18 + g^113*x^17 + g^100*x^12 + g^46*x^10 + g^120*x^9 + g^13*x^6 + g^112*x^5 + g^10*x^3, g^33*x^96 + g^50*x^80 + g^6*x^72 + g^73*x^68 + g^63*x^66 + g^27*x^65 + g^59*x^48 + g^75*x^40 + g^19*x^36 + g^101*x^34 + g^120*x^33 + g^94*x^24 + g^102*x^20 + g^48*x^18 + g^93*x^17 + g^4*x^12 + g^27*x^10 + g^60*x^9 + g^85*x^6 + g^126*x^5 + g^121*x^3, g^119*x^96 + g^76*x^80 + g^30*x^72 + g^114*x^68 + g^110*x^66 + g^46*x^65 + g^37*x^48 + g^29*x^40 + g^4*x^36 + g^98*x^34 + g^64*x^33 + g^69*x^24 + g^61*x^20 + g^76*x^18 + g^17*x^17 + g^112*x^12 + g^61*x^10 + g^28*x^9 + g^72*x^6 + g^63*x^5 + g^70*x^3, g^119*x^96 + g^102*x^80 + g^29*x^72 + g^26*x^68 + g^44*x^66 + g^117*x^48 + g^70*x^40 + g^11*x^36 + g^98*x^34 + g^92*x^33 + g^87*x^24 + g^27*x^20 + g^87*x^18 + g^104*x^17 + g^66*x^12 + g^92*x^10 + g^49*x^9 + g^52*x^6 + g^94*x^5 + g^59*x^3, g^5*x^96 + g^68*x^80 + g^30*x^72 + g^102*x^68 + g^103*x^66 + g^52*x^65 + g^25*x^48 + g^91*x^40 + g^34*x^36 + g^85*x^34 + g^91*x^33 + g^41*x^24 + g^37*x^20 + g^95*x^18 + g^4*x^17 + g^38*x^12 + g^115*x^10 + g^8*x^9 + g^31*x^6 + g^74*x^5 + g^113*x^3, g^38*x^96 + g^108*x^80 + g^28*x^72 + g^3*x^68 + g^112*x^66 + g^56*x^65 + g^59*x^48 + g^80*x^40 + g^58*x^36 + g^107*x^34 + g^47*x^33 + g^52*x^24 + g^48*x^20 + g^126*x^18 + g^56*x^17 + g^4*x^12 + g^119*x^10 + g^51*x^9 + g^2*x^6 + g^106*x^5 + g^44*x^3, g^79*x^96 + g^18*x^80 + g^107*x^72 + g^15*x^68 + g^26*x^66 + g^x^65 + g^114*x^48 + g^39*x^40 + g^32*x^36 + g^48*x^33 + g^42*x^24 + g^98*x^20 + g^52*x^18 + g^91*x^17 + g^107*x^12 + g^47*x^10 + g^70*x^9 + g^4*x^6 + g^52*x^5 + g^118*x^3, g^125*x^96 + g^123*x^80 + g^24*x^72 + g^2*x^68 + g^118*x^66 + g^2*x^65 + g^18*x^48 + g^3*x^40 + g^8*x^36 + g^33*x^34 + g^58*x^33 + g^23*x^24 + g^89*x^20 + g^33*x^18 + g^10*x^17 + g^22*x^12 + g^8*x^10 + g^78*x^9 + g^30*x^6 + g^100*x^5 + g^70*x^3, g^4*x^96 + g^77*x^80 + g^125*x^72 + g^86*x^68 + g^7*x^66 + g^42*x^65 + g^29*x^48 + g^25*x^40 + g^126*x^36 + g^51*x^34 + g^77*x^33 + g^22*x^24 + x^20 + g^93*x^18 + x^17 + g^45*x^12 + g^68*x^10 + g^24*x^9 + g^99*x^6 + g^65*x^5 + g^71*x^3, g^67*x^96 + g^50*x^80 + g^105*x^72 + g^60*x^68 + g^95*x^66 + g^4*x^65 + g^77*x^48 + g^67*x^40 + g^53*x^36 + g^90*x^34 + g^13*x^33 + g^36*x^24 + g^16*x^20 + g^47*x^18 + g^29*x^17 + g^27*x^12 + g^49*x^10 + g^6*x^9 + g^45*x^6 + g^60*x^5 + g^24*x^3, g^15*x^96 + g^74*x^80 + g^99*x^72 + g^104*x^68 + g^87*x^66 + g^61*x^65 + g^36*x^48 + g^6*x^40 + g^121*x^36 + g^114*x^34 + g^102*x^33 + g^48*x^24 + g^46*x^20 + g^64*x^18 + g^33*x^17 + g^33*x^12 + g^75*x^10 + g^21*x^9 + g^82*x^6 + g^121*x^5 + g^6*x^3, g^71*x^96 + g^x^80 + g^87*x^72 + g^26*x^68 + g^110*x^66 + g^9*x^65 + g^17*x^48 + g^125*x^40 + g^x^36 + g^72*x^34 + g^87*x^33 + g^76*x^24 + g^37*x^20 + g^33*x^18 + g^111*x^17 + g^126*x^12 + g^109*x^10 + g^68*x^9 + g^41*x^6 + g^10*x^5 + g^26*x^3, g^31*x^96 + g^22*x^80 + g^x^72 + g^64*x^68 + g^41*x^66 + g^43*x^65 + g^123*x^65 + g^37*x^48 + g^89*x^40 + g^111*x^36 + g^113*x^34 + g^123*x^33 + g^33*x^24 + g^79*x^20 + g^101*x^18 + g^40*x^17 + g^32*x^12 + g^64*x^10 + g^17*x^9 + g^11*x^6 + g^24*x^5 + g^5*x^3, g^124*x^96 + g^61*x^80 + g^61*x^72 + g^41*x^68 + g^78*x^66 + g^5*x^65 + g^124*x^48 + g^98*x^40 + g^29*x^36 + g^121*x^34 + g^26*x^34 + g^54*x^24 + x^20 + g^45*x^18 + g^31*x^17 + g^55*x^12 + g^84*x^10 + g^108*x^9 + g^108*x^6 + g^54*x^5 + g^126*x^3, g^111*x^96 + g^56*x^80 + g^25*x^72 + g^113*x^68 + g^35*x^66 + g^113*x^65 + g^41*x^48 + g^79*x^40 + g^101*x^36 + g^68*x^34 + g^72*x^33 + g^101*x^24 + g^99*x^20 + g^45*x^18 + g^115*x^12 + g^23*x^12 + g^77*x^10 + g^116*x^9 + g^93*x^6 + g^97*x^5 + g^86*x^3, g^107*x^96 + g^80*x^80 + g^84*x^72 + g^71*x^68 + g^63*x^66 + g^8*x^65 + g^78*x^48 + g^16*x^40 + g^24*x^36 + g^126*x^34 + g^66*x^33 + g^108*x^24 + g^21*x^18 + g^97*x^17 + x^12 + g^17*x^10 + g^91*x^9 + g^30*x^6 + g^121*x^5 + g^88*x^3, g^95*x^96 + g^14*x^80 + g^13*x^72 + g^111*x^68 + g^76*x^66 + g^18*x^65 + g^89*x^48 + g^122*x^40 + g^119*x^36 + g^91*x^34 + g^99*x^33 + g^55*x^24 + g^26*x^20 + g^85*x^18 + g^114*x^17 + g^65*x^12 + g^105*x^10 + g^77*x^9 + g^23*x^6 + g^123*x^5 + g^56*x^3, g^100*x^96 + g^32*x^80 + g^85*x^72 + g^63*x^68 + g^45*x^66 + g^45*x^48 + g^82*x^40 + g^99*x^36 + g^120*x^34 + g^18*x^33 + g^120*x^24 + g^18*x^20 + g^70*x^18 + g^104*x^17 + g^87*x^12 + g^84*x^10 + g^11*x^9 + g^78*x^6 + g^49*x^5 + g^43*x^3, g^97*x^96 + g^38*x^80 + g^62*x^72 + g^63*x^68 + g^20*x^66 + g^120*x^65 + g^28*x^48 + g^47*x^40 + g^48*x^36 + g^75*x^34 + g^12*x^33 + g^49*x^24 + g^8*x^20 + g^54*x^18 + g^28*x^17 + g^63*x^12 + g^x^10 + g^71*x^9 + g^114*x^6 + g^83*x^5 + g^97*x^3, g^112*x^96 + g^36*x^80 + g^75*x^72 + g^41*x^68 + g^43*x^66 + g^23*x^65 + g^120*x^48 + g^32*x^40 + g^64*x^36 + g^56*x^34 + g^118*x^33 + g^47*x^24 + g^78*x^20 + g^72*x^18 + g^4*x^17 + g^115*x^12 + g^107*x^10 + g^38*x^9 + g^84*x^6 + g^40*x^5 + g^74*x^3, g^46*x^96 + g^31*x^80 + g^115*x^72 + g^97*x^68 + g^49*x^66 + g^2*x^65 + g^35*x^48 + g^61*x^40 + g^4*x^36 + g^96*x^34 + g^93*x^33 + g^122*x^24 + g^25*x^20 + g^95*x^18 + g^48*x^17 + g^46*x^12 + g^121*x^10 + g^39*x^9 + g^32*x^6 + g^50*x^5 + g^14*x^3, g^19*x^96 + g^12*x^80 + g^39*x^72 + g^100*x^68 + g^39*x^66 + g^29*x^65 + g^86*x^48 + g^21*x^40 + g^51*x^36 + g^70*x^34 + g^49*x^33 + g^124*x^24 + g^49*x^20 + g^84*x^18 + g^59*x^17 + g^98*x^12 + g^88*x^10 + g^43*x^9 + g^31*x^6 + g^109*x^5 + g^120*x^3, g^20*x^96 + g^87*x^80 + g^89*x^72 + g^3*x^68 + g^34*x^66 + g^81*x^65 + g^17*x^48 + g^115*x^40 + g^78*x^36 + g^6*x^34 + g^50*x^33 + g^48*x^24 + g^44*x^20 + g^52*x^18 + g^33*x^17 + g^88*x^12 + g^40*x^10 + g^82*x^9 + g^64*x^6 + g^91*x^5 + g^104*x^3, g^19*x^96 + g^18*x^80 + g^65*x^72 + g^47*x^68 + g^91*x^66 + g^60*x^65 + g^88*x^48 + g^96*x^40 + g^70*x^36 + g^29*x^34 + g^88*x^33 + g^56*x^24 + g^42*x^20 + g^88*x^18 + g^125*x^17 + g^122*x^12 + g^13*x^10 + g^102*x^9 + g^41*x^6 + g^28*x^5 + g^57*x^3, g^3*x^96 + g^71*x^80 + g^47*x^72 + g^114*x^68 + g^48*x^66 + g^9*x^65 + g^17*x^48 + g^106*x^40 + g^126*x^36 + g^106*x^34 + g^70*x^33 + g^28*x^24 + g^56*x^20 + g^106*x^18 + g^58*x^17 + g^32*x^12 + g^94*x^10 + g^35*x^9 + g^15*x^6 + g^66*x^5 + g^94*x^3, g^17*x^96 + g^52*x^80 + g^5*x^72 + g^78*x^68 + g^84*x^66 + g^71*x^65 + g^83*x^48 + g^45*x^40 + g^47*x^36 + g^95*x^34 + x^33 + g^78*x^24 + g^7*x^20 + g^39*x^18 + g^109*x^17 + g^80*x^12 + g^62*x^10 + g^5*x^9 + g^50*x^6 + g^50*x^5 + g^30*x^3, g^49*x^96 + g^21*x^80 + g^103*x^72 + g^73*x^68 + g^76*x^66 + g^11*x^65 + g^70*x^48 + g^73*x^40 + g^x^36 + g^62*x^34 + g^8*x^33 + g^3*x^24 + g^65*x^20 + g^50*x^18 + g^90*x^17 + g^102*x^12 + g^102*x^10 + g^28*x^9 + g^23*x^6 + g^78*x^5 + g^26*x^3, g^11*x^96 + g^63*x^80 + g^118*x^72 + g^97*x^68 + g^26*x^66 + g^79*x^65 + g^78*x^48 + g^92*x^40 + x^36 + g^99*x^34 + g^77*x^33 + g^86*x^24 + g^41*x^20 + g^4*x^18 + g^24*x^17 + g^77*x^12 + g^51*x^10 + g^106*x^9 + g^119*x^6 + g^98*x^5 + g^52*x^3, g^2*x^96 + g^92*x^80 + g^115*x^72 + g^105*x^68 + g^35*x^66 + g^93*x^48 + g^25*x^40 + g^116*x^36 + g^120*x^34 + g^106*x^33 + g^91*x^24 + g^25*x^20 + g^124*x^18 + g^113*x^12 + g^121*x^10 + g^30*x^9 + g^24*x^6 + g^38*x^5 + g^102*x^3, g^79*x^96 + g^73*x^80 + g^109*x^72 + g^62*x^68 + g^91*x^66 + g^106*x^65 + g^52*x^48 + g^42*x^40 + g^87*x^36 + g^125*x^34 + g^38*x^33 + g^40*x^24 + g^53*x^20 + g^91*x^18 + g^5*x^17 + g^48*x^12 + g^30*x^10 + g^43*x^

x'96 + g'18*x'80 + g'29*x'72 + g'91*x'68 + g'62*x'66 + g'73*x'65 + g'12*x'48 + g'44*x'40 + g'9*x'36 + g'12*x'34 + g'115*x'33 + g'100*x'24 + g'52*x'20 + g'61*x'18 + g'21*x'17 + g'95*x'12 + g'84*x'10 + g'80*x'9 + g'91*x'6 + g'50*x'5 + g'114*x'3, g'76*x'96 + g'30*x'80 + g'88*x'72 + g'122*x'68 + g'98*x'66 + g'83*x'65 + g'83*x'48 + g'122*x'40 + g'13*x'36 + g'46*x'34 + g'11*x'33 + g'104*x'24 + g'3*x'20 + g'40*x'18 + g'6*x'17 + g'123*x'12 + g'78*x'10 + g'101*x'9 + g'33*x'6 + g'52*x'5 + g'32*x'3, g'65*x'96 + g'74*x'80 + g'119*x'72 + g'26*x'68 + g'90*x'66 + g'59*x'65 + g'72*x'48 + g'25*x'40 + g'82*x'36 + g'120*x'34 + g'76*x'33 + g'39*x'24 + g'3*x'20 + g'104*x'18 + g'87*x'17 + g'102*x'12 + g'34*x'10 + g'92*x'9 + g'2*x'6 + g'79*x'5 + g'12*x'3, g'20*x'96 + g'87*x'80 + g'2*x'72 + g'16*x'68 + g'100*x'66 + g'30*x'65 + g'43*x'48 + g'46*x'40 + g'17*x'36 + g'65*x'34 + g'19*x'33 + g'14*x'24 + g'50*x'20 + g'84*x'18 + g'98*x'17 + g'88*x'12 + g'53*x'10 + g'75*x'9 + g'87*x'6 + g'85*x'5 + g'80*x'3, g'47*x'96 + g'107*x'80 + g'21*x'72 + g'67*x'68 + g'105*x'66 + g'57*x'65 + g'112*x'40 + g'45*x'36 + g'42*x'34 + g'119*x'33 + g'36*x'24 + g'4*x'20 + g'21*x'18 + g'33*x'17 + g'98*x'12 + g'115*x'10 + g'83*x'9 + g'41*x'6 + g'60*x'5 + g'48*x'3, g'15*x'96 + g'100*x'80 + g'76*x'72 + g'41*x'68 + g'23*x'66 + g'92*x'65 + g'67*x'48 + g'13*x'40 + g'32*x'36 + g'99*x'34 + g'60*x'33 + g'116*x'24 + g'23*x'20 + g'33*x'18 + g'36*x'17 + g'120*x'12 + g'32*x'10 + g'69*x'9 + g'68*x'6 + g'82*x'5 + g'2*x'3, g'13*x'96 + g'67*x'80 + g'54*x'72 + g'79*x'68 + g'75*x'66 + g'86*x'65 + g'88*x'48 + g'18*x'40 + g'112*x'36 + g'80*x'34 + g'107*x'33 + g'12*x'20 + g'46*x'18 + x'17 + g'124*x'12 + g'105*x'10 + g'10*x'9 + g'78*x'6 + g'109*x'5 + g'123*x'3, g'26*x'96 + g'118*x'80 + g'38*x'72 + g'109*x'68 + g'80*x'66 + g'26*x'65 + g'41*x'48 + g'108*x'40 + g'78*x'36 + g'16*x'34 + g'43*x'33 + g'39*x'24 + g'125*x'20 + g'100*x'18 + g'78*x'17 + g'87*x'12 + g'60*x'10 + g'83*x'9 + g'60*x'6 + g'106*x'5 + g'111*x'3, g'81*x'96 + g'36*x'80 + g'20*x'72 + g'31*x'68 + g'45*x'66 + g'17*x'65 + g'20*x'48 + g'48*x'40 + g'85*x'36 + g'108*x'34 + g'23*x'33 + g'36*x'24 + g'122*x'20 + g'90*x'18 + g'104*x'17 + g'16*x'12 + g'116*x'10 + g'27*x'9 + g'40*x'6 + g'39*x'5 + g'92*x'3, g'24*x'96 + g'46*x'80 + g'109*x'72 + g'71*x'68 + g'63*x'66 + g'101*x'65 + g'97*x'48 + g'43*x'48 + g'97*x'40 + g'119*x'36 + g'64*x'34 + g'30*x'33 + g'47*x'24 + g'99*x'20 + g'119*x'18 + g'86*x'17 + g'107*x'12 + g'18*x'10 + g'8*x'9 + g'106*x'6 + g'81*x'5 + g'92*x'3, g'120*x'96 + g'89*x'80 + g'95*x'72 + g'84*x'68 + g'57*x'66 + g'16*x'65 + g'88*x'48 + g'75*x'40 + g'81*x'36 + g'18*x'34 + g'32*x'33 + g'59*x'24 + g'120*x'20 + g'83*x'18 + g'45*x'17 + g'103*x'12 + g'7*x'10 + g'43*x'9 + g'119*x'6 + g'3*x'5 + g'49*x'3, g'109*x'96 + g'41*x'80 + g'188*x'72 + g'25*x'68 + g'116*x'66 + g'90*x'65 + g'36*x'48 + g'98*x'40 + g'5*x'36 + g'95*x'34 + g'90*x'33 + g'23*x'24 + g'123*x'20 + g'121*x'18 + g'116*x'17 + g'37*x'12 + g'107*x'10 + g'38*x'9 + g'4*x'6 + g'69*x'5 + g'39*x'3, g'81*x'96 + g'23*x'80 + g'54*x'72 + g'4*x'68 + g'79*x'66 + g'15*x'65 + g'28*x'48 + g'47*x'40 + g'64*x'36 + g'2*x'34 + g'38*x'33 + g'52*x'24 + g'79*x'20 + g'88*x'18 + g'43*x'17 + g'33*x'12 + g*x'10 + g'4*x'9 + g'28*x'6 + g'36*x'5 + g'60*x'3, g'94*x'96 + g'121*x'80 + g'92*x'72 + g'7*x'66 + g'44*x'65 + g'68*x'48 + g'26*x'40 + g'43*x'36 + g'24*x'34 + g'43*x'33 + g'25*x'24 + g'42*x'20 + g'17*x'18 + g'74*x'17 + g'101*x'12 + g'91*x'10 + g'109*x'9 + g'60*x'6 + g'119*x'5 + g'98*x'3, g'16*x'96 + g'116*x'80 + g'36*x'72 + g'27*x'68 + g'78*x'66 + g'66*x'65 + g'14*x'48 + g'71*x'40 + g'41*x'36 + g'56*x'34 + g'84*x'33 + g'82*x'24 + g'85*x'20 + g'76*x'18 + g'18*x'17 + g'53*x'12 + g'44*x'10 + g'8*x'9 + g'87*x'6 + g'3*x'5 + g'109*x'3, g'115*x'96 + g'75*x'80 + g'115*x'72 + g'110*x'68 + g'116*x'66 + g'54*x'65 + g'30*x'48 + g*x'40 + g'109*x'36 + g'63*x'34 + g'26*x'33 + g'175*x'24 + g'75*x'20 + g'19*x'18 + g'94*x'17 + g'46*x'12 + g'125*x'10 + g'101*x'9 + g'2*x'6 + g'88*x'5 + g'119*x'3, g'18*x'96 + g'123*x'80 + g'47*x'72 + g'26*x'68 + g'58*x'66 + g'30*x'65 + g'111*x'48 + g'92*x'40 + g'122*x'36 + g'106*x'34 + g'61*x'33 + g'25*x'24 + g'58*x'20 + g'21*x'18 + g'3*x'17 + g'71*x'12 + g'84*x'10 + g'101*x'9 + g'90*x'6 + g'122*x'5 + g'42*x'3, g'53*x'96 + g'22*x'80 + g'28*x'72 + g'36*x'68 + g'109*x'66 + g'34*x'65 + g'64*x'48 + g'14*x'36 + g'97*x'34 + g'117*x'33 + g'104*x'24 + g'35*x'20 + g'86*x'18 + g'121*x'17 + g'50*x'12 + g'34*x'10 + g'111*x'9 + g'48*x'6 + g'74*x'5 + g'45*x'3, g'104*x'96 + g'115*x'80 + g'116*x'72 + g'53*x'68 + g'87*x'66 + g'64*x'65 + g'6*x'48 + g'101*x'40 + g'47*x'36 + g'72*x'34 + g'122*x'24 + g'49*x'24 + g'106*x'18 + g'106*x'17 + g'58*x'12 + g'104*x'10 + g'116*x'9 + g'19*x'6 + g'112*x'5 + g'3*x'3, g'58*x'96 + g'22*x'80 + g'10*x'72 + g'59*x'68 + g'120*x'66 + g'50*x'65 + g'101*x'48 + g'90*x'40 + g'55*x'36 + g'13*x'34 + g'52*x'33 + g'111*x'24 + g'33*x'20 + g'85*x'18 + g'36*x'17 + g'96*x'12 + g'15*x'10 + g'24*x'9 + g'114*x'6 + g'49*x'5 + g'98*x'3, g'85*x'96 + g'89*x'80 + g'25*x'72 + g'120*x'68 + g'32*x'66 + g'80*x'65 + g'101*x'48 + g'43*x'48 + g'83*x'36 + g'13*x'34 + g'30*x'33 + g'40*x'24 + g'46*x'20 + g'99*x'18 + g'109*x'17 + g'121*x'12 + g'17*x'10 + g'93*x'9 + g'114*x'6 + g'87*x'5 + g'122*x'3, g'107*x'96 + g'37*x'80 + g'83*x'72 + g'111*x'68 + g'91*x'66 + g'72*x'65 + g'47*x'48 + g'51*x'40 + g'110*x'36 + g'64*x'34 + g'103*x'33 + g'113*x'24 + g'64*x'20 + g'4*x'18 + g'89*x'17 + g'19*x'12 + g'56*x'10 + g'52*x'9 + g'67*x'6 + g'125*x'5 + g'91*x'3, g'39*x'96 + g'45*x'80 + g'28*x'72 + g'96*x'68 + g'105*x'66 + g'98*x'65 + g'118*x'48 + g'95*x'40 + g'90*x'36 + g'54*x'34 + g'103*x'33 + g'123*x'24 + g'118*x'18 + g'39*x'17 + g'35*x'12 + g'51*x'10 + g'55*x'9 + g'119*x'6 + g'118*x'5 + g'120*x'3, g'13*x'96 + g'7*x'80 + g'123*x'68 + g'121*x'66 + g'52*x'65 + g'17*x'48 + g'82*x'40 + g'116*x'36 + g'79*x'34 + g'38*x'33 + g'60*x'24 + g'92*x'20 + g'50*x'18 + g'27*x'17 + g'75*x'12 + g'115*x'10 + g'85*x'9 + g'58*x'6 + g'126*x'5 + g'49*x'3, g'62*x'96 + g'123*x'80 + g'56*x'72 + g'27*x'68 + g'40*x'66 + g'79*x'66 + g'5*x'65 + g'91*x'48 + g'94*x'40 + g'48*x'36 + g'117*x'34 + g'9*x'33 + g'111*x'24 + g'75*x'20 + g'80*x'18 + g'17*x'17 + g'87*x'12 + g'125*x'10 + g'39*x'9 + g'17*x'6 + g'43*x'5 + g'29*x'3, g'94*x'96 + g'57*x'80 + g'44*x'72 + g'25*x'68 + g'10*x'66 + g'47*x'65 + g'125*x'48 + g'69*x'40 + g'65*x'36 + g'117*x'34 + g'77*x'33 + g'108*x'24 + g'38*x'20 + g'42*x'18 + g'28*x'17 + g'69*x'12 + g'58*x'10 + g'119*x'9 + g'109*x'6 + g'39*x'5 + g'56*x'3, g'36*x'96 + g'35*x'80 + g'71*x'72 + g'106*x'68 + g'112*x'66 + g'13*x'65 + g'38*x'48 + g'80*x'40 + g'103*x'36 + g'26*x'34 + g'85*x'33 + g'69*x'24 + g'109*x'20 + g'121*x'18 + g'110*x'17 + g'49*x'12 + g'113*x'10 + g'116*x'9 + g'33*x'6 + g'124*x'5 + g'80*x'3, g'79*x'96 + g'88*x'80 + g'62*x'72 + g'72*x'68 + g'115*x'66 + g'39*x'65 + g'103*x'48 + g'48*x'40 + g'29*x'36 + g'122*x'34 + g'48*x'33 + g'25*x'24 + g'175*x'20 + g'115*x'18 + g'88*x'17 + g'42*x'12 + g'43*x'10 + g'72*x'9 + g'115*x'6 + g'29*x'5 + g'13*x'3, g'119*x'96 + g'72*x'80 + g'7*x'72 + g'102*x'68 + g'65*x'66 + g'79*x'65 + g'28*x'48 + g*x'40 + g'62*x'36 + g'69*x'34 + g'27*x'33 + g'77*x'24 + g'53*x'20 + g'89*x'18 + g'37*x'17 + g'31*x'12 + g'48*x'10 + g'8*x'9 + g'13*x'6 + g'8*x'5 + g'115*x'3, g'101*x'96 + g'6*x'80 + g'69*x'72 + g'114*x'68 + g'74*x'66 + g'92*x'65 + g'34*x'48 + g'96*x'40 + g'97*x'36 + g'44*x'34 + g'92*x'33 + g'125*x'24 + g'67*x'20 + g'90*x'18 + g'25*x'17 + g'3*x'12 + g'23*x'10 + g'110*x'9 + g'109*x'6 + g'59*x'5 + g'8*x'3, g'37*x'96 + g'50*x'80 + g'105*x'72 + g'97*x'68 + g'26*x'66 + g'58*x'65 + g'17*x'48 + g'99*x'40 + g'116*x'36 + g'57*x'34 + g'82*x'33 + g'8*x'24 + g'86*x'20 + g'64*x'18 + g'106*x'17 + g'47*x'12 + g'47*x'10 + g'109*x'9 + g'87*x'6 + g'100*x'5 + g'38*x'3, g'9*x'96 + g'124*x'80 + g'100*x'72 + g'31*x'68 + g'75*x'66 + g'30*x'65 + g'64*x'48 + g'96*x'40 + g'25*x'36 + g'22*x'34 + g'14*x'33 + g'5*x'24 + g'41*x'20 + g'58*x'18 + g'75*x'17 + g'90*x'12 + g'18*x'10 + g'46*x'9 + g'18*x'6 + g'26*x'5 + g'57*x'3, g'44*x'96 + g'92*x'80 + g'37*x'72 + g'47*x'68 + g'52*x'66 + g'70*x'65 + g'60*x'48 + g'30*x'40 + g'5*x'36 + g'122*x'34 + g'81*x'33 + g'2*x'24 + g'75*x'20 + g'15*x'18 + g'57*x'17 + g'101*x'12 + g'33*x'10 + g'33*x'9 + g'19*x'6 + g'116*x'5 + g'9*x'3, g'122*x'96 + g'60*x'80 + g'40*x'72 + g'88*x'68 + g'103*x'66 + g'85*x'65 + g'70*x'48 + g'63*x'40 + g'111*x'36 + g'41*x'34 + g'90*x'33 + g'81*x'24 + g'91*x'20 + x'18 + g'84*x'17 + g'65*x'12 + g'65*x'10 + g'56*x'9 + g'23*x'6 + g'55*x'5 + g'26*x'3, g'32*x'96 + g'45*x'80 + g'64*x'72 + g'108*x'68 + g'9*x'66 + g'55*x'65 + g'121*x'48 + g'108*x'40 + g'25*x'36 + x'34 + g'20*x'33 + g'76*x'24 + g'21*x'20 + g'118*x'18 + g'102*x'17 + x'12 + g'46*x'10 + g'103*x'9 + g'101*x'6 + g'72*x'5 + g'92*x'3, g'121*x'96 + g'55*x'80 + g'81*x'72 + g'22*x'68 + g*x'66 + g'65*x'65 + g'39*x'48 + g'56*x'40 + x'36 + g'37*x'34 + g'119*x'33 + g'109*x'24 + g'49*x'20 + g'30*x'18 + g'36*x'17 + g'7*x'12 + g'56*x'10 + g'67*x'9 + g'15*x'6 + g'71*x'5 + g'72*x'3, g'116*x'96 + g'19*x'80 + g'66*x'72 + g'13*x'68 + g'99*x'66 + g'104*x'65 + g'19*x'48 + g'36*x'40 + g'123*x'36 + g'30*x'34 + g'110*x'33 + g'41*x'24 + g'13*x'20 + g'75*x'18 + g'88*x'17 + g'119*x'12 + g'66*x'10 + g'41*x'9 + g'109*x'6 + g'122*x'5 + g'112*x'3, g'47*x'96 + g'109*x'80 + g'52*x'72 + g'11*x'68 + g'91*x'66 + g'125*x'65 + g'20*x'48 + g'28*x'40 + g'88*x'36 + g'13*x'34 + g'48*x'24 + g'58*x'20 + g'87*x'18 + g'19*x'17 + g'37*x'12 + g'32*x'10 + g'102*x'9 + g'38*x'6 + g'40*x'5 + g'24*x'3, g'33*x'96 + g'92*x'80 + g'98*x'72 + g'112*x'68 + g'42*x'66 + g'28*x'65 + g'94*x'48 + g'8*x'40 + g'109*x'36 + g'80*x'34 + g'14*x'33 + g'94*x'24 + g'119*x'20 + g'35*x'18 + g'125*x'12 + g'33*x'12 + g'69*x'10 + g'79*x'9 + g'97*x'6 + g'5*x'5 + g'37*x'3, g'116*x'96 + g'59*x'80 + g'83*x'72 + g'24*x'68 + g'37*x'66 + g'99*x'65 + g'48*x'48 + g'35*x'40 + g'45*x'36 + g'122*x'34 + g'17*x'33 + g'81*x'24 + g'10*x'20 + g'60*x'18 + g'107*x'17 + g'123*x'12 + g'99*x'10 + g'51*x'9 + g'67*x'6 + g'27*x'5 + g'32*x'3, g'30*x'96 + g'43*x'80 + g'102*x'72 + g'42*x'66 + g'21*x'65 + g'78*x'48 + g'119*x'40 + g*x'36 + g'99*x'34 + g*x'33 + g'39*x'24 + g'45*x'20 + g'14*x'18 + g'76*x'17 + g'40*x'12 + g'76*x'10 + g'98*x'9 + g'5*x'6 + g'15*x'5 + g'39*x'3, g'114*x'96 + g'30*x'80 + g'60*x'72 + g'65*x'66 + g'123*x'48 + g'6*x'40 + g'121*x'36 + g'88*x'34 + g'90*x'33 + g'64*x'24 + g'88*x'20 + g'76*x'18 + g'71*x'17 + g'76*x'12 + g'72*x'10 + g'34*x'9 + g'93*x'6 + g'95*x'5 + g'101*x'3, g'83*x'96 + g'121*x'80 + g'52*x'72 + g'119*x'68 + g'16*x'66 + g'15*x'65 + g'96*x'48 + g'55*x'40 + g'118*x'36 + g'45*x'34 + g'84*x'33 + g'20*x'24 + g'97*x'20 + g'20*x'18 + g'6*x'17 + g'111*x'12 + g'65*x'10 + g'70*x'9 + g'58*x'6 + g'120*x'5 + g'22*x'3, g'86*x'96 + g'108*x'80 + g'124*x'72 + g'107*x'68 + g'99*x'66 + g'5*x'65 + g'64*x'48 + g'26*x'40 + g'119*x'36 + g'46*x'34 + g'17*x'33 + g'82*x'24 + g'100*x'20 + g'32*x'18 + g'107*x'17 + g'30*x'12 + g'82*x'10 + g'96*x'9 + g'104*x'6 + g'119*x'5 + g'110*x'3, g'14*x'96 + g'3*x'72 + g'104*x'68 + g'69*x'66 + g'89*x'65 + g'24*x'48 + g'45*x'40 + g'25*x'36 + g'71*x'34 + g'103*x'33 + g'16*x'24 + g'88*x'18 + g'17*x'17 + g'79*x'12 + g'44*x'10 + g'30*x'9 + g'63*x'6 + g'29*x'5 + g'61*x'3, g'51*x'96 + g'60*x'80 + g'124*x'72 + x'68 + g'5*x'66 + g'53*x'65 + g'106*x'48 + g'55*x'40 + g'19*x'36 + g'108*x'34 + g'20*x'33 + g'80*x'24 + g'12*x'20 + g'88*x'18 + g'49*x'17 + g'28*x'12 + g'104*x'10 + g'119*x'9 + g'117*x'6 + g'23*x'5 + g'75*x'3, g'26*x'96 + g'41*x'80 + g'32*x'72 + g'66*x'68 + g'52*x'66 + g'19*x'65 + g'34*x'48 + g'67*x'40 + g'84*x'36 + g'72*x'34 + g'15*x'33 + g'67*x'24 + g'99*x'20 + g'13*x'18 + g'84*x'17 + g'63*x'12 + g'26*x'10 + g'94*x'9 + g'11*x'6 + g'73*x'5 + g'41*x'3, g'12*x'96 + x'80 + g'25*x'72 + g'73*x'68 + g'64*x'66 + g'4*x'65 + g'30*x'48 + g'84*x'40 + g'76*x'36 + g'27*x'34 + g'7*x'33 + g'26*x'24 + g'113*x'20 + g'29*x'18 + g'80*x'17 + g'118*x'12 + g'6*x'9 + g'115*x'6 + g'59*x'5 + g'79*x'3, g'110*x'96 + g'43*x'80 + g'77*x'72 + g'69*x'68 + g'13*x'66 + g'49*x'65 + g'59*x'48 + g'92*x'40 + g'120*x'36 + g'27*x'34 + g'4*x'33 + g'56*x'24 + g'5*x'20 + g'93*x'18 + g'97*x'17 + g'40*x'12 + g'110*x'10 + g'93*x'9 + g'25*x'6 + g'38*x'5 + g'108*x'3, g'62*x'96 + g'95*x'80 + g'89*x'72 + g'54*x'68 + g'52*x'66 + g'9*x'65 + g'48*x'48 + g'87*x'40 + g'123*x'36 + g'20*x'34 + g'7*x'33 + g'26*x'24 + g'64*x'20 + g'79*x'18 + g'98*x'17 + g'46*x'12 + g'45*x'10 + g'35*x'9 + g'87*x'6 + g'10*x'5 + g'85*x'3, g'88*x'96 + g'6*x'80 + g'48*x'72 + g'27*x'68 + g'108*x'66 + g'8*x'65 + g'113*x'48 + g'10*x'40 + g'10*x'36 + g'45*x'34 + g'106*x'33 + g'83*x'24 + g'56*x'20 + g'82*x'18 + g'4*x'17 + g'39*x'12 + g'96*x'10 + g'40*x'9 + g'43*x'6 + g'47*x'5 + g'120*x'3, g'39*x'96 + g'105*x'80 + g*x'72 + g'126*x'68 + g'2*x'65 + g'101*x'48 + g'116*x'40 + g'83*x'36 + g'115*x'34 + g'57*x'33 + g'100*x'24 + g'101*x'20 + g'115*x'18 + g'108*x'17 + g'10*x'12 + g'4*x'10 + g'67*x'9 + g'14*x'6 + g'47*x'5 + g'75*x'3, g'39*x'96 + g'12*x'80 + g'10*x'72 + g'107*x'68 + g'15*x'66 + g'107*x'65 + g'60*x'48 + g'10*x'40 + g'46*x'36 + g'49*x'34 + g'32*x'33 + g'49*x'24 + g'32*x'24 + g'120*x'20 + g'112*x'18 + g'10*x'17 + g'83*x'12 + g'54*x'10 + g'52*x'9 + g'20*x'6 + g'64*x'5 + g'101*x'3, g'70*x'96 + g'58*x'80 + g'11*x'72 + g*x'68 + g'48*x'66 + g'90*x'65 + g'123*x'48 + g'59*x'40 + g'96*x'36 + g*x'34 + g'33*x'33 + g'52*x'24 + g'120*x'20 + g'112*x'18 + g'10*x'17 + g'83*x'12 + g'54*x'10 + g'52*x'9 + g'20*x'6 + g'64*x'5 + g'101*x'3, g'123*x'96 + g'18*x'80 + g'63*x'72 + g'25*x'68 + g'4*x'66 + g'83*x'65 + g'66*x'48 + g'5*x'40 + g'21*x'36 + g'7*x'33 + g'47*x'24 + g'74*x'20 + g'28*x'18 + g'123*x'17 + g'17*x'12 + g'107*x'10 + g'26*x'9 + g'101*x'6 + g'94*x'5 + g'68*x'3, g'8*x'96 + g*x'80 + g'10*x'72 + g'62*x'68 + g'81*x'66 + g'73*x'65 + g'54*x'48 + g'21*x'40 + g'115*x'36 + g'12*x'34 + g'101*x'33 + g'95*x'24 + g'42*x'20 + g'100*x'18 + g'8*x'17 + g'62*x'12 + g'73*x'10 + g'25*x'9 + g'91*x'6 + g'47*x'5 + g'62*x'3, g'97*x'96 + g'103*x'80 + g'88*x'72 + g'37*x'68 + g'108*x'66 + g'37*x'64 + g'34*x'48 + g'88*x'40 + g'6*x'36 + g'101*x'34 + g'23*x'33 + g'9*x'24 + g'104*x'20 + g'66*x'18 + g'35*x'17 + g'47*x'12 + g'32*x'10 + g'106*x'9 + g'126*x'6 + g'74*x'5 + g*x'3, g'72*x'96 + g'73*x'80 + g'93*x'72 + g'2*x'68 + g'36*x'66 + g'37*x'65 + g'57*x'48 + g'99*x'40 + g'2*x'36 + g'77*x'34 + g'15*x'33 + g'2*x'24 + g'83*x'20 + g'15*x'18 + g'100*x'17 + g'57*x'12 + g'50*x'10 + g'70*x'9 + g'116*x'6 + g'35*x'5 + g'73*x'3, g'18*x'96 + g'23*x'80 + g'57*x'72 + g'71*x'68 + g'62*x'66 + g'6*x'65 + g'62*x'48 + g'91*x'40 + g'5*x'36 + g'14*x'34 + g'100*x'33 + g'26*x'24 + g'47*x'20 + g'30*x'18 + g'20*x'17 + g'81*x'12 + g'88*x'10 + g'95*x'9 + g'78*x'6 + g'99*x'5 + g'90*x'3, g'107*x'96 + g'93*x'80 + g'39*x'72 + g'14*x'68 + g'110*x'66 + g'49*x'65 + g'65*x'48 + g'36*x'40 + g'9*x'36 + g'54*x'34 + g'19*x'33 + g'92*x'24 + g'48*x'20 + g'71*x'18 + g'69*x'17 + g'87*x'12 + g'5*x'10 + g'41*x'9 + g'86*x'6 + g'55*x'5 + g'52*x'3, g'45*x'96 + g'112*x'80 + g'111*x'72 + g'124*x'68 + x'66 + g'90*x'65 + g'54*x'48 + g'94*x'40 + g'82*x'36 + g'31*x'34 + g'19*x'33 + g'101*x'24 + g'101*x'20 + g'115*x'18 + g'108*x'17 + g'10*x'12 + g'3*x'10 + g'67*x'9 + g'14*x'6 + g'47*x'5 + g'75*x'3, g'102*x'96 + g'8*x'72 + g'72*x'68 + g'119*x'66 + g'13*x'65 + g'39*x'40 + g'97*x'36 + g'17*x'34 + g'44*x'33 + g'122*x'24 + g'101*x'20 + g'6*x'18 + g'15*x'17 + g'125*x'12 + g'24*x'10 + g'118*x'9 + g'113*x'6 + g'93*x'5 + g'113*x'3, g'86*x'96 + g'42*x'80 + g'99*x'72 + g'26*x'68 + g'35*x'66 + g'80*x'65 + g'16*x'48 + x'40 + g'107*x'36 + g'92*x'34 + g'17*x'33 + g'25*x'24 + g'55*x'20 + g'118*x'18 + g'114*x'17 + g'61*x'12 + g'31*x'10 + g'82*x'9 + g'90*x'6 + g'43*x'5 + g'5*x'3, g'102*x'96 + g'11*x'80 + g'38*x'72 + g'84*x'68 + g'58*x'66 + g'60*x'65 + g'88*x'48 + g'106*x'48 + g'43*x'36 + g'13*x'34 + g'18*x'33 + g'18*x'24 + g'52*x'20 + g'118*x'18 + g'19*x'17 + g'109*x'12 + g'13*x'10 + g'6*x'9 + g'49*x'6 + g'126*x'5 + g'86*x'3, g'47*x'96 + g'30*x'80 + g'17*x'72 + g'98*x'68 + g'26*x'66 + g'86*x'65 + g'37*x'48 + g'73*x'40 + g'88*x'36 + g'47*x'34 + g'51*x'33 + g'5*x'24 + g'67*x'20 + g'84*x'18 + g'35*x'17 + g'22*x'12 + g'102*x'10 + g'7*x'9 + g'12*x'6 + g'113*x'5 + g'123*x'3, g'46*x'96 + g'111*x'80 + g*x'72 + g'55*x'68 + g'117*x'66 + g'53*x'65 + g'57*x'48 + g'114*x'36 + g'120*x'34 + g'176*x'33 + g'44*x'24 + g'70*x'20 + g'13*x'18 + g'18*x'17 + g'86*x'12 + g'13*x'10 + g'44*x'9 + g'107*x'6 + g'33*x'5 + g'57*x'3, g'66*x'96 + g'113*x'80 + g'87*x'72 + g'101*x'68 + g'80*x'66 + g'38*x'65 + g'6*x'48 + g'93*x'40 + g'121*x'36 + g'48*x'34 + g'90*x'33 + g'54*x'24 + g'87*x'20 + g'79*x'18 + g'38*x'17 + g'34*x'12

g^121x^96 + g^85x^80 + x^72 + g^107x^68 + g^93x^66 + g^117x^65 + g^85x^48 + g^116x^40 + g^82x^36 + g^6x^34 + g^29x^33 + g^95x^24 + g^31x^20 + g^60x^18 + g^119x^17 + g^45x^12 + g^29x^10 + g^83x^9 + g^109x^6 + g^73x^5 + g^81x^3, g^14x^96 + g^111x^80 + g^72x^72 + g^93x^68 + g^83x^66 + g^7x^65 + g^111x^48 + g^101x^40 + g^88x^36 + g^81x^34 + g^43x^33 + g^47x^24 + g^74x^20 + g^123x^18 + g^82x^17 + g^60x^12 + g^101x^10 + g^118x^9 + g^6x^6 + g^63x^5 + g^57x^3, g^74x^96 + g^78x^80 + g^99x^72 + g^54x^68 + g^116x^66 + g^9x^65 + g^110x^48 + g^91x^40 + g^41x^36 + g^122x^34 + g^37x^33 + g^101x^24 + g^97x^20 + g^53x^18 + g^102x^10 + g^110x^9 + g^67x^6 + g^106x^5 + g^179x^3, g^37x^96 + g^108x^80 + g^106x^72 + g^83x^68 + g^103x^66 + g^40x^65 + g^3x^64 + g^26x^40 + g^47x^36 + g^6x^34 + g^11x^33 + g^88x^24 + g^100x^20 + g^82x^18 + g^55x^17 + g^97x^12 + g^92x^10 + g^2x^9 + g^21x^6 + g^81x^5 + g^84x^3, g^84x^96 + g^12x^80 + g^16x^72 + g^110x^68 + g^60x^66 + x^65 + g^109x^48 + g^84x^40 + g^61x^36 + g^126x^34 + g^70x^33 + g^85x^24 + g^8x^20 + g^59x^18 + g^94x^17 + g^34x^12 + g^105x^10 + g^99x^9 + g^41x^6 + g^108x^5 + g^x^3, g^34x^96 + g^26x^80 + g^81x^72 + g^95x^68 + g^5x^66 + g^5x^65 + g^67x^48 + g^48x^40 + g^91x^36 + g^124x^34 + g^72x^33 + g^26x^24 + g^55x^20 + g^48x^18 + g^29x^17 + g^28x^12 + g^9x^10 + g^51x^9 + g^x^6 + g^91x^5 + g^120x^3, g^89x^96 + g^100x^80 + g^81x^72 + g^26x^68 + g^42x^66 + g^125x^65 + g^85x^48 + g^108x^40 + g^14x^36 + g^114x^34 + g^120x^33 + g^89x^24 + g^111x^18 + g^65x^17 + g^16x^12 + g^66x^10 + g^91x^9 + g^30x^6 + g^85x^5 + g^11x^3, g^104x^96 + g^46x^80 + g^54x^72 + g^34x^68 + g^99x^66 + g^31x^65 + g^38x^48 + g^69x^40 + g^96x^36 + g^52x^34 + g^87x^33 + g^41x^24 + g^12x^20 + g^30x^18 + g^53x^17 + g^100x^12 + g^x^10 + g^8x^9 + g^7x^6 + g^120x^5 + g^55x^3, g^35x^96 + g^65x^80 + g^111x^72 + g^60x^68 + g^119x^66 + g^34x^65 + g^66x^48 + g^68x^40 + g^69x^36 + g^84x^34 + g^117x^33 + g^91x^24 + g^23x^20 + g^65x^18 + g^55x^17 + g^34x^12 + g^107x^10 + g^42x^9 + g^45x^6 + g^44x^5 + g^70x^3, g^62x^96 + g^110x^80 + g^41x^72 + g^7x^68 + g^126x^66 + g^9x^65 + g^36x^48 + g^74x^40 + g^51x^36 + g^121x^34 + g^27x^34 + g^122x^20 + g^56x^18 + g^29x^17 + g^48x^12 + g^69x^10 + g^107x^9 + g^11x^6 + g^34x^5 + g^13x^3, g^95x^96 + g^2x^80 + g^36x^72 + g^53x^68 + g^5x^66 + g^53x^65 + g^121x^48 + g^94x^40 + g^104x^36 + g^8x^34 + g^87x^33 + g^67x^24 + g^74x^20 + g^125x^18 + g^82x^17 + g^61x^12 + g^118x^10 + g^67x^9 + g^90x^6 + x^5 + g^124x^3, g^4x^96 + g^71x^80 + g^32x^72 + g^x^68 + g^50x^66 + g^5x^65 + g^8x^48 + g^8x^40 + g^83x^36 + g^126x^34 + g^123x^33 + g^65x^24 + g^44x^20 + g^119x^18 + g^35x^17 + g^35x^12 + g^78x^10 + g^72x^9 + g^x^6 + g^119x^5 + g^64x^3, g^31x^96 + g^17x^80 + g^8x^72 + g^18x^68 + g^88x^66 + g^10x^65 + g^122x^48 + g^76x^40 + g^18x^36 + g^90x^34 + g^69x^33 + g^82x^24 + g^103x^20 + g^28x^18 + g^109x^17 + g^105x^12 + g^22x^9 + g^31x^6 + g^44x^5 + g^112x^3, g^19x^96 + g^94x^80 + g^104x^72 + g^88x^68 + g^115x^66 + g^122x^65 + x^48 + g^x^40 + g^116x^36 + g^68x^34 + g^31x^33 + g^73x^24 + g^93x^20 + g^46x^18 + g^87x^17 + g^80x^12 + g^101x^10 + g^15x^9 + g^121x^6 + g^52x^5 + g^84x^3, g^93x^96 + g^88x^80 + g^74x^72 + g^120x^68 + g^51x^66 + g^4x^65 + g^93x^48 + g^124x^48 + g^34x^36 + g^64x^34 + g^60x^33 + g^2x^24 + g^80x^20 + g^5x^18 + g^49x^17 + g^110x^12 + g^17x^10 + g^105x^9 + g^90x^6 + g^70x^5 + g^56x^3, g^23x^96 + g^114x^80 + g^64x^72 + g^83x^68 + g^61x^66 + g^23x^65 + g^123x^48 + g^95x^40 + g^27x^34 + g^14x^36 + g^125x^33 + g^14x^24 + g^110x^20 + g^7x^17 + g^43x^12 + g^67x^10 + g^48x^9 + g^121x^6 + g^18x^5 + g^89x^3, g^96x^96 + g^69x^80 + g^44x^72 + g^71x^68 + g^53x^66 + g^72x^65 + g^76x^48 + g^113x^40 + g^39x^36 + g^111x^34 + g^111x^33 + g^111x^24 + g^49x^20 + g^27x^18 + g^67x^17 + g^68x^12 + g^79x^10 + g^12x^9 + g^5x^6 + g^3x^5 + g^50x^3, g^118x^96 + g^110x^80 + g^46x^72 + g^77x^68 + g^126x^66 + g^10x^65 + g^6x^48 + g^101x^40 + g^71x^36 + g^80x^34 + g^19x^33 + g^7x^24 + g^23x^20 + g^112x^18 + g^102x^17 + g^114x^12 + g^38x^10 + g^118x^9 + g^112x^6 + g^96x^5 + g^30x^3, g^3x^96 + g^48x^80 + g^4x^72 + g^73x^68 + g^89x^66 + g^83x^65 + g^57x^48 + g^47x^40 + g^84x^36 + g^120x^34 + g^10x^33 + g^49x^24 + g^113x^24 + g^17x^20 + g^121x^18 + g^95x^17 + g^99x^12 + g^78x^10 + g^121x^9 + g^26x^6 + g^63x^5 + g^7x^3, g^41x^96 + g^108x^80 + g^40x^72 + g^54x^68 + g^28x^66 + g^36x^65 + g^46x^48 + g^8x^40 + g^77x^36 + g^12x^34 + g^76x^33 + g^70x^24 + g^72x^20 + g^35x^18 + g^32x^17 + g^5x^12 + g^31x^10 + g^61x^9 + g^27x^6 + g^75x^5 + g^95x^3, g^103x^96 + g^80x^80 + g^68x^72 + g^26x^68 + g^68x^66 + g^80x^65 + g^9x^64 + g^71x^40 + g^96x^36 + g^69x^33 + g^5x^24 + g^62x^20 + g^50x^18 + g^68x^17 + g^22x^12 + g^74x^10 + g^51x^9 + g^97x^6 + g^88x^5 + g^7x^3, g^5x^96 + g^6x^80 + g^8x^72 + g^46x^68 + g^102x^66 + g^20x^65 + g^17x^48 + g^45x^40 + g^63x^36 + g^49x^34 + g^57x^33 + g^51x^24 + g^31x^20 + g^7x^18 + g^110x^17 + g^107x^12 + g^114x^10 + g^2x^9 + g^108x^6 + g^95x^5 + g^76x^3, g^33x^96 + g^121x^80 + g^7x^72 + g^36x^68 + g^16x^66 + g^125x^65 + g^2x^48 + g^14x^40 + g^14x^36 + g^47x^34 + g^68x^33 + g^120x^24 + g^21x^20 + g^51x^18 + g^10x^17 + g^92x^12 + g^84x^10 + g^117x^9 + g^4x^6 + g^36x^5 + g^48x^3, g^100x^96 + g^64x^80 + g^4x^72 + g^73x^68 + g^50x^66 + g^110x^65 + g^29x^48 + g^11x^40 + g^124x^36 + g^46x^34 + g^88x^33 + g^46x^24 + g^99x^20 + g^59x^18 + g^46x^17 + g^80x^12 + g^56x^10 + g^93x^9 + g^122x^6 + g^31x^5 + g^51x^3, g^50x^96 + g^40x^80 + g^4x^72 + g^58x^68 + g^31x^66 + g^112x^65 + g^57x^48 + g^59x^40 + g^97x^36 + g^56x^34 + g^18x^33 + g^60x^24 + g^6x^20 + g^117x^18 + g^84x^17 + g^47x^12 + g^86x^10 + g^100x^9 + g^48x^6 + g^105x^5 + g^102x^3, g^55x^96 + g^106x^80 + g^81x^72 + g^30x^68 + g^32x^66 + g^120x^65 + g^53x^48 + g^8x^40 + g^76x^36 + g^39x^34 + g^40x^33 + g^76x^24 + g^48x^20 + g^38x^18 + g^23x^17 + g^91x^12 + g^78x^10 + g^46x^9 + g^119x^6 + g^115x^5 + g^58x^3, g^104x^96 + g^34x^80 + g^22x^72 + g^83x^68 + g^45x^66 + g^26x^65 + g^88x^48 + g^34x^40 + g^9x^36 + g^50x^34 + g^33x^33 + g^100x^24 + g^50x^20 + g^29x^18 + g^120x^17 + g^82x^12 + g^68x^9 + g^79x^6 + g^50x^5 + g^14x^3, g^121x^96 + g^7x^80 + g^27x^72 + g^27x^68 + g^40x^66 + g^74x^65 + x^48 + g^50x^40 + g^110x^36 + g^x^34 + g^107x^33 + g^113x^24 + g^17x^20 + g^121x^18 + g^95x^17 + g^99x^12 + g^78x^10 + g^121x^9 + g^26x^6 + g^63x^5 + g^22x^3, g^60x^96 + g^80x^80 + g^102x^72 + g^104x^68 + g^91x^66 + g^76x^65 + g^93x^48 + g^103x^40 + g^46x^36 + g^66x^34 + g^48x^33 + g^62x^24 + g^40x^20 + g^2x^18 + g^41x^17 + g^30x^12 + g^97x^10 + g^76x^9 + g^81x^6 + g^111x^5 + g^75x^3, g^52x^96 + g^60x^80 + g^16x^72 + g^122x^68 + g^86x^66 + g^120x^65 + g^43x^48 + g^126x^40 + g^53x^36 + g^88x^34 + g^71x^30 + g^96x^24 + g^48x^20 + g^35x^18 + g^40x^17 + g^121x^12 + g^62x^10 + g^103x^9 + g^34x^6 + g^45x^5 + g^64x^3, g^18x^96 + g^29x^80 + g^6x^72 + g^39x^68 + g^98x^66 + g^26x^65 + g^66x^48 + g^119x^40 + g^25x^36 + g^122x^34 + g^56x^33 + g^124x^24 + g^68x^20 + g^30x^18 + g^82x^17 + g^100x^12 + g^85x^10 + g^36x^9 + g^50x^6 + g^55x^5 + g^77x^3, g^100x^96 + g^104x^80 + g^46x^72 + g^92x^68 + g^80x^66 + g^39x^65 + g^63x^48 + g^76x^40 + g^106x^33 + g^106x^33 + g^127x^36 + g^78x^34 + g^16x^33 + g^120x^24 + g^2x^18 + g^107x^17 + g^12x^12 + g^12x^12 + g^68x^10 + g^17x^9 + g^76x^6 + g^109x^5 + g^50x^3, g^75x^96 + g^87x^80 + g^56x^72 + g^4x^68 + g^7x^66 + g^117x^65 + g^116x^48 + g^10x^40 + g^55x^36 + g^43x^34 + g^9x^33 + g^103x^24 + g^90x^20 + g^33x^18 + g^126x^17 + g^109x^12 + g^68x^10 + g^48x^9 + g^80x^6 + g^101x^5 + g^93x^3, g^35x^96 + g^27x^80 + g^21x^72 + g^79x^68 + g^88x^66 + g^32x^65 + g^77x^48 + g^16x^40 + g^93x^36 + g^45x^34 + g^112x^33 + g^121x^24 + g^30x^20 + g^44x^18 + g^2x^17 + g^100x^12 + g^111x^10 + g^67x^9 + g^71x^6 + g^72x^5 + g^86x^3, g^79x^96 + g^32x^80 + g^7x^72 + g^71x^68 + g^105x^66 + g^86x^65 + g^89x^48 + g^25x^40 + g^98x^36 + g^122x^34 + g^24x^33 + g^38x^24 + g^76x^20 + g^68x^18 + g^125x^17 + g^114x^12 + g^115x^10 + g^90x^9 + g^101x^6 + g^96x^5 + g^89x^3, g^22x^96 + g^85x^80 + g^104x^72 + g^23x^68 + g^49x^66 + g^28x^65 + g^55x^48 + g^11x^40 + g^40x^36 + g^81x^34 + g^62x^33 + g^49x^24 + g^39x^20 + g^69x^18 + g^7x^17 + g^114x^12 + g^50x^10 + g^79x^9 + g^118x^6 + g^33x^5 + g^88x^3, g^2x^96 + g^100x^80 + g^110x^72 + g^105x^68 + g^25x^66 + g^67x^65 + g^4x^64 + g^114x^40 + g^82x^36 + g^97x^34 + g^112x^33 + g^54x^24 + g^126x^20 + g^108x^18 + g^97x^17 + g^80x^12 + g^73x^10 + g^60x^9 + g^76x^6 + g^111x^5 + g^91x^3, g^17x^96 + g^4x^80 + g^32x^72 + g^13x^68 + g^39x^66 + g^117x^65 + g^17x^48 + g^51x^40 + g^103x^36 + g^100x^34 + g^105x^33 + g^22x^24 + g^82x^20 + g^70x^18 + g^101x^17 + g^94x^12 + g^109x^10 + g^33x^9 + g^40x^6 + g^31x^5 + g^75x^3, g^7x^96 + g^107x^80 + g^91x^72 + g^5x^68 + g^33x^66 + g^55x^65 + g^46x^48 + g^28x^40 + g^16x^36 + g^49x^34 + g^120x^33 + g^102x^24 + g^100x^20 + g^30x^18 + g^93x^17 + g^120x^12 + g^111x^9 + g^115x^6 + g^20x^5 + g^103x^3, g^36x^96 + g^120x^80 + g^18x^72 + g^94x^68 + g^2x^66 + g^56x^65 + g^28x^48 + g^75x^40 + g^21x^36 + g^96x^34 + g^78x^33 + g^102x^24 + g^33x^20 + 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g^62x^3, g^6x^96 + g^34x^80 + g^28x^72 + g^76x^68 + g^90x^66 + g^79x^65 + g^39x^48 + g^99x^40 + g^89x^36 + g^41x^34 + g^80x^33 + g^64x^24 + g^93x^20 + g^77x^18 + g^62x^17 + g^24x^12 + g^87x^10 + g^111x^9 + g^63x^6 + g^76x^5, g^91x^96 + g^3x^80 + g^95x^72 + g^101x^68 + g^46x^66 + g^81x^65 + g^20x^48 + g^16x^40 + g^15x^36 + g^104x^34 + g^98x^33 + g^81x^24 + g^51x^20 + g^98x^18 + g^30x^17 + g^36x^12 + g^116x^10 + g^22x^9 + g^28x^6 + g^28x^5 + g^78x^3, g^3x^96 + g^65x^80 + g^78x^72 + g^17x^68 + g^18x^66 + g^95x^65 + g^59x^48 + g^70x^40 + g^110x^36 + g^46x^34 + g^61x^33 + g^3x^24 + g^116x^20 + g^5x^18 + g^11x^17 + g^5x^12 + g^82x^10 + g^25x^9 + g^40x^6 + g^102x^3, g^50x^96 + g^102x^80 + g^107x^72 + g^11x^68 + g^116x^68 + g^112x^68 + g^116x^48 + g^41x^40 + g^112x^36 + g^33x^34 + g^42x^33 + g^55x^24 + g^81x^20 + g^20x^18 + g^87x^17 + g^70x^12 + g^30x^10 + g^65x^9 + g^x^6 + g^36x^5 + g^101x^3, g^61x^96 + g^24x^80 + g^41x^72 + g^83x^68 + g^13x^66 + g^101x^65 + g^29x^48 + g^124x^40 + g^23x^36 + g^103x^34 + g^59x^33 + g^24x^24 + g^86x^20 + g^84x^18 + g^84x^17 + g^47x^12 + g^8x^10 + g^102x^9 + g^13x^6 + g^94x^5 + g^46x^3, g^52x^96 + g^26x^80 + g^18x^72 + g^80x^68 + g^14x^66 + g^77x^65 + g^81x^48 + g^20x^40 + g^98x^36 + g^33x^34 + g^21x^24 + g^61x^20 + g^117x^18 + x^17 + g^92x^12 + g^111x^10 + g^4x^9 + g^27x^6 + g^42x^5 + g^105x^3, g^94x^96 + g^79x^80 + g^94x^72 + g^19x^68 + g^43x^66 + g^97x^65 + g^91x^48 + g^3x^40 + g^70x^36 + g^83x^34 + g^62x^33 + x^24 + g^51x^20 + g^36x^18 + g^107x^17 + g^32x^12 + g^94x^10 + g^116x^9 + g^119x^6 + g^14x^5 + g^36x^3, g^55x^96 + g^86x^80 + g^46x^72 + g^26x^68 + g^12x^66 + g^115x^65 + g^58x^48 + g^97x^40 + g^108x^36 + g^108x^34 + g^57x^33 + g^9x^24 + g^34x^20 + g^102x^18 + g^87x^17 + g^28x^12 + g^114x^10 + g^103x^9 + g^58x^6 + g^16x^5 + g^54x^3, g^78x^96 + g^48x^80 + g^54x^72 + g^13x^68 + g^80x^66 + g^23x^65 + g^35x^48 + g^35x^48 + g^119x^36 + g^16x^34 + g^62x^33 + g^97x^34 + g^118x^24 + g^118x^20 + g^11x^18 + g^114x^17 + g^118x^12 + g^100x^12 + g^4x^10 + g^x^9 + g^72x^6 + g^86x^5 + g^x^3, g^111x^96 + g^85x^80 + g^85x^72 + g^70x^68 + g^85x^66 + g^62x^65 + g^30x^48 + g^91x^40 + g^122x^36 + g^94x^34 + g^64x^33 + g^85x^24 + g^98x^20 + g^57x^18 + g^58x^17 + g^78x^12 + g^56x^10 + g^68x^9 + g^53x^6 + g^57x^5 + g^46x^3, g^17x^96 + g^42x^80 + g^36x^72 + g^98x^68 + g^11x^66 + g^119x^65 + g^105x^48 + g^70x^40 + g^83x^36 + g^78x^34 + g^30x^33 + g^28x^24 + g^109x^20 + g^5x^18 + g^82x^17 + g^80x^12 + g^73x^10 + g^60x^9 + g^52x^6 + g^80x^5 + g^64x^3, x^96 + g^112x^80 + g^77x^72 + g^64x^68 + g^52x^66 + g^103x^65 + g^55x^48 + g^5x^40 + g^108x^36 + g^110x^34 + g^x^33 + g^78x^24 + g^78x^20 + g^71x^18 + g^51x^17 + x^12 + g^48x^10 + g^11x^9 + g^32x^6 + g^52x^5 + g^95x^3, g^52x^96 + g^50x^80 + g^45x^72 + g^123x^68 + g^76x^66 + g^79x^65 + g^79x^65 + g^44x^48 + g^70x^40 + g^79x^36 + g^101x^34 + g^55x^33 + g^25x^24 + g^44x^20 + g^64x^18 + g^64x^17 + g^66x^12 + g^84x^10 + g^116x^9 + g^121x^6 + g^51x^5 + g^86x^3, g^74x^96 + g^x^80 + g^64x^72 + g^70x^68 + g^26x^66 + g^47x^65 + g^94x^48 + g^64x^40 + g^57x^36 + g^53x^34 + g^11x^33 + g^x^24 + g^47x^20 + g^10x^18 + g^70x^17 + g^64x^12 + g^86x^10 + g^41x^9 + g^x^6 + g^63x^5 + g^30x^3, g^75x^96 + g^20x^80 + g^126x^72 + g^15x^68 + g^110x^66 + g^42x^65 + g^29x^48 + g^81x^40 + g^33x^36 + g^120x^34 + g^23x^33 + g^93x^24 + g^76x^20 + g^120x^18 + g^82x^17 + g^120x^12 + g^58x^10 + g^67x^9 + g^83x^9 + g^67x^6 + g^94x^5 + g^60x^3, g^58x^96 + g^103x^80 + g^16x^72 + g^15x^68 + g^99x^66 + g^62x^65 + g^56x^48 + g^94x^40 + g^25x^36 + g^75x^34 + g^71x^33 + g^80x^24 + g^63x^20 + g^52x^18 + g^102x^17 + g^3x^12 + g^16x^10 + g^51x^9 + g^62x^6 + g^78x^5 + g^124x^3, g^92x^96 + g^61x^80 + g^78x^72 + g^42x^68 + g^84x^66 + g^107x^65 + g^60x^48 + g^22x^40 + g^32x^36 + g^61x^34 + g^54x^33 + g^2x^24 + g^96x^20 + g^2x^18 + g^56x^17 + g^65x^12 + g^107x^10 + g^3x^9 + g^11x^6 + g^125x^5 + g^58x^3, g^29x^96 + g^96x^80 + g^3x^72 + g^39x^68 + g^102x^66 + g^10x^65 + g^26x^64 + g^17x^40 + g^6x^36 + g^42x^34 + g^118x^33 + g^6x^24 + g^55x^20 + g^35x^18 + g^54x^17 + g^30x^12 + g^4x^10 + g^70x^9 + g^62x^6 + g^24x^5 + g^106x^3, g^48x^96 + g^6x^80 + g^47x^72 + g^42x^68 + g^12x^66 + g^109x^65 + g^101x^48 + g^21x^40 + g^112x^36 + g^94x^36 + g^102x^34 + g^45x^33 + g^106x^24 + g^100x^20 + g^62x^18 + g^125x^17 + g^29x^12 + g^94x^10 + g^110x^9 + g^80x^6 + g^29x^5 + g^74x^3, g^75x^96 + g^121x^80 + g^107x^72 + g^107x^68 + g^13x^66 + g^107x^65 + g^105x^48 + g^70x^40 + g^83x^36 + g^78x^34 + g^30x^33 + g^28x^24 + g^109x^20 + g^5x^18 + g^82x^17 + g^80x^12 + g^73x^10 + g^60x^9 + g^52x^6 + g^80x^5 + g^64x^3, g^6x^96 + g^7x^80 + g^63x^72 + g^97x^68 + g^19x^66 + g^17x^65 + g^47x^48 + g^17x^40 + g^53x^36 + g^74x^34 + g^48x^33 + g^123x^24 + g^24x^20 + g^40x^18 + g^79x^17 + g^112x^12 + g^106x^10 + g^28x^9 + g^83x^6 + g^15x^5 + g^61x^3, g^46x^96 + g^9x^80 + g^57x^72 + g^49x^68 + g^19x^65 + g^44x^48 + g^13x^40 + g^81x^36 + g^114x^34 + g^57x^33 + g^47x^32 + g^50x^20 + g^38x^18 + g^96x^17 + g^54x^12 + g^122x^10 + g^16x^9 + g^87x^6 + g^94x^5 + g^112x^3, g^86x^96 + g^x^80 + g^23x^72 + g^48x^68 + g^32x^66 + g^97x^6

g⁻¹¹⁹x⁹⁶ + g⁻¹⁰⁹x⁸⁰ + g⁻⁷²x⁷² + g⁻¹⁰²x⁶⁸ + g⁻¹¹⁰x⁶⁶ + g⁻¹¹⁰x⁶⁵ + g⁻⁶²x⁴⁸ + g⁻⁵⁵x⁴⁰ + g⁻¹²⁰x³⁶ + g⁻¹¹⁴x³⁴ + g⁻⁶x³³ + g⁻¹⁰⁵x²⁴ + g⁻⁹⁶x²⁰ + g⁻⁴⁰x¹⁸ + g⁻¹¹⁶x¹⁷ + g⁻³⁴x¹² + g⁻⁴⁰x¹⁰ + g⁻⁸⁵x⁹ + g⁻⁸⁰x⁶ + g⁻⁷⁸x⁵ + g⁻³⁷x³,
g⁻⁶⁴x⁹⁶ + g⁻⁴⁸x⁸⁰ + g⁻⁹⁰x⁷² + g⁻²⁸x⁶⁸ + g⁻⁹⁷x⁶⁶ + g⁻⁸⁶x⁶⁵ + g⁻⁹⁴x⁴⁸ + g⁻³¹x⁴⁰ + g⁻⁹⁷x³⁶ + g⁻³⁷x³⁴ + g⁻²⁰x³³ + g⁻²⁵x²⁴ + g⁻⁸⁹x²⁰ + g⁻¹¹¹x¹⁸ + x¹⁷ + g⁻¹³x¹² + g⁻¹²⁶x¹⁰ + g⁻¹⁰¹x⁹ + g⁻⁷⁶x⁶ + g⁻⁹³x⁵ + g⁻¹¹⁹x³,
g⁻¹²⁰x⁹⁶ + g⁻²⁹x⁸⁰ + g⁻³⁹x⁶⁸ + g⁻³⁶x⁶⁶ + g⁻⁴⁴x⁶⁵ + g⁻⁸⁴x⁴⁸ + g⁻⁴³x⁴⁰ + g⁻¹⁵x³⁶ + g⁻⁸⁶x³⁴ + g⁻¹⁰¹x³³ + g⁻³x²⁴ + g⁻⁸x²⁰ + g⁻⁶⁷x¹⁸ + g⁻¹¹³x¹⁷ + g⁻⁹³x¹² + g⁻¹⁰⁸x¹⁰ + g⁻¹⁶x⁹ + g⁻¹⁰x⁶ + g⁻⁶⁰x⁵ + g⁻³⁶x³,
g⁻²⁷x⁹⁶ + g⁻¹⁴x⁸⁰ + g⁻⁵¹x⁷² + g⁻¹³x⁶⁸ + g⁻¹⁰¹x⁶⁶ + g⁻¹⁰¹x⁶⁵ + g⁻⁸⁸x⁴⁸ + g⁻¹²x⁴⁰ + g⁻⁶⁵x³⁶ + g⁻⁶⁸x³⁴ + g⁻⁷³x³³ + g⁻⁹⁴x²⁴ + g⁻⁹⁰x²⁰ + g⁻⁹⁷x¹⁸ + g⁻⁹⁸x¹⁷ + g⁻¹²⁵x¹² + g⁻⁸⁹x¹⁰ + g⁻¹⁰⁵x⁹ + g⁻⁹³x⁶ + x⁵ + g⁻⁴¹x³,
g⁻¹²⁶x⁹⁶ + g⁻⁵⁴x⁸⁰ + g⁻²¹x⁷² + g⁻¹⁹x⁶⁸ + g⁻²x⁶⁶ + g⁻¹²⁴x⁶⁵ + g⁻⁵⁰x⁶⁵ + g⁻¹²⁴x⁶⁴ + g⁻⁷⁵x⁴⁸ + g⁻⁷⁵x⁴⁰ + g⁻¹¹⁶x³⁶ + g⁻¹⁰⁹x³⁴ + g⁻²¹x³³ + g⁻³⁶x²⁴ + g⁻¹⁴x²⁰ + g⁻⁵⁷x¹⁸ + g⁻⁷²x¹⁷ + g⁻¹²¹x¹² + g⁻⁴⁵x¹⁰ + g⁻³⁰x⁹ + g⁻²x⁶ + g⁻⁸²x⁵ + g⁻¹¹⁷x³,
g⁻⁸x⁹⁶ + g⁻⁹⁵x⁸⁰ + g⁻³⁵x⁷² + g⁻¹⁰⁶x⁶⁸ + g⁻⁷¹x⁶⁶ + g⁻³⁰x⁶⁵ + g⁻⁴⁴x⁴⁸ + g⁻¹¹⁰x⁴⁰ + g⁻⁹⁸x³⁶ + g⁻¹¹²x³⁴ + g⁻¹²²x³³ + g⁻¹²⁶x²⁴ + g⁻²⁵x²⁰ + g⁻¹¹⁵x¹⁸ + g⁻⁶⁸x¹⁷ + g⁻⁹⁷x¹² + g⁻⁴²x¹⁰ + g⁻²⁷x⁹ + g⁻¹⁰x⁶ + g⁻¹¹⁷x⁵ + g⁻¹⁰⁰x³,
g⁻¹⁰⁶x⁹⁶ + g⁻⁵x⁸⁰ + g⁻¹¹³x⁷² + g⁻¹¹²x⁶⁸ + g⁻⁸³x⁶⁶ + g⁻⁸⁰x⁶⁵ + g⁻¹¹²x⁴⁸ + g⁻⁴x⁴⁰ + g⁻⁵⁸x³⁶ + x³⁴ + g⁻²⁰x³³ + g⁻¹²x²⁴ + g⁻³x²⁰ + g⁻¹⁰⁶x¹⁸ + g⁻¹²⁴x¹⁷ + g⁻⁷⁰x¹² + g⁻⁴⁴x¹⁰ + g⁻²²x⁹ + g⁻⁷¹x⁶ + g⁻²⁸x⁵ + g⁻⁵⁴x³,
g⁻⁹⁹x⁹⁶ + g⁻¹⁰⁰x⁸⁰ + g⁻⁸⁶x⁷² + g⁻¹²x⁶⁸ + g⁻²⁴x⁶⁶ + g⁻⁴²x⁶⁵ + g⁻⁶⁰x⁴⁸ + g⁻⁹⁵x⁴⁰ + g⁻⁵x³⁶ + g⁻⁴⁰x³⁴ + g⁻⁷⁰x³³ + g⁻⁴⁴x²⁴ + g⁻⁵⁸x²⁰ + g⁻⁷⁰x¹⁸ + g⁻⁶⁴x¹⁷ + g⁻⁸⁷x¹² + g⁻⁶⁹x¹⁰ + g⁻⁴⁴x⁹ + g⁻⁴⁴x⁶ + g⁻¹¹⁹x⁵ + g⁻¹²²x³,
g⁻¹¹⁹x⁹⁶ + g⁻⁵x⁸⁰ + g⁻²³x⁷² + g⁻⁶x⁶⁸ + g⁻¹²⁰x⁶⁶ + g⁻⁸⁵x⁶⁵ + g⁻⁴⁸x⁴⁸ + g⁻⁷²x⁴⁰ + g⁻⁸⁹x³⁶ + g⁻¹⁰³x³⁴ + g⁻¹⁰⁴x³³ + g⁻²⁵x²⁴ + g⁻⁵⁶x²⁰ + g⁻⁴³x¹⁸ + g⁻¹¹³x¹⁷ + g⁻⁶³x¹² + g⁻¹⁰²x¹⁰ + g⁻²⁸x⁹ + g⁻¹⁰⁷x⁶ + g⁻²x⁵ + g⁻¹⁰⁰x³,
g⁻⁴¹x⁹⁶ + g⁻⁷⁹x⁸⁰ + g⁻⁴x⁷² + g⁻¹²²x⁶⁸ + g⁻⁵⁰x⁶⁶ + g⁻¹⁰⁰x⁶⁵ + g⁻⁷⁵x⁴⁸ + g⁻⁸⁴x⁴⁰ + g⁻²⁵x³⁶ + g⁻³⁹x³⁴ + g⁻¹²¹x³³ + g⁻²⁵x²⁴ + g⁻¹²¹x²⁰ + g⁻⁷⁵x¹⁸ + g⁻⁷x¹⁷ + g⁻²⁷x¹² + g⁻¹⁰³x¹⁰ + g⁻¹⁰⁵x⁹ + x⁶ + g⁻⁹⁸x⁵ + g⁻⁶⁴x³,
g⁻⁸⁷x⁹⁶ + g⁻⁴⁷x⁸⁰ + g⁻¹⁶x⁷² + g⁻⁶⁶x⁶⁸ + g⁻⁴⁹x⁶⁶ + g⁻⁶¹x⁶⁵ + g⁻²²x⁴⁸ + g⁻⁸⁵x⁴⁰ + g⁻⁷²x³⁶ + g⁻²⁶x³⁴ + g⁻¹⁷x³³ + g⁻⁹²x²⁴ + g⁻⁸⁰x²⁰ + g⁻¹¹⁶x¹⁸ + g⁻⁷x¹⁷ + g⁻¹²x¹² + g⁻¹¹⁸x¹⁰ + g⁻⁸¹x⁹ + g⁻⁴⁷x⁶ + g⁻³x⁵ + g⁻¹⁰⁹x³,
g⁻¹¹x⁹⁶ + g⁻⁶¹x⁸⁰ + g⁻¹⁰x⁷² + g⁻⁵³x⁶⁸ + g⁻⁵⁰x⁶⁶ + g⁻⁵¹x⁶⁵ + g⁻⁵⁰x⁴⁸ + g⁻⁸x³⁶ + g⁻³⁸x³⁴ + g⁻⁵⁴x³³ + g⁻⁹⁴x²⁴ + g⁻⁵x²⁰ + g⁻¹¹⁰x¹⁸ + g⁻¹⁴x¹⁷ + g⁻⁵³x¹² + g⁻¹⁰x¹⁰ + g⁻⁸¹x⁹ + g⁻⁶⁴x⁶ + g⁻⁶³x⁵ + g⁻⁸⁸x³,
g⁻¹¹³x⁹⁶ + g⁻²¹x⁸⁰ + g⁻³²x⁷² + g⁻³¹x⁶⁸ + g⁻⁶⁴x⁶⁶ + g⁻⁵⁷x⁶⁵ + g⁻¹⁰⁶x⁴⁸ + g⁻⁹x⁴⁰ + g⁻⁵⁴x³⁶ + g⁻²¹x³⁴ + g⁻⁸²x³³ + g⁻³x²⁴ + g⁻⁷³x²⁰ + g⁻⁶⁵x¹⁸ + g⁻³⁰x¹⁷ + g⁻²⁰x¹² + g⁻⁵²x¹⁰ + g⁻³⁶x⁹ + g⁻¹⁰³x⁶ + g⁻⁷⁷x⁵ + g⁻⁶³x³,
g⁻²⁷x⁹⁶ + g⁻⁴⁶x⁸⁰ + g⁻¹⁰x⁷² + g⁻⁴¹x⁶⁸ + g⁻¹³x⁶⁶ + g⁻⁴²x⁶⁵ + g⁻⁹¹x⁴⁸ + g⁻⁵⁷x⁴⁰ + g⁻⁹⁷x³⁶ + g⁻¹⁶x³⁴ + g⁻⁶x³³ + g⁻⁵⁹x²⁴ + g⁻¹⁴x²⁰ + g⁻⁷⁷x¹⁸ + g⁻⁹⁷x¹⁷ + g⁻⁵²x¹² + g⁻⁹¹x¹⁰ + g⁻⁸x⁹ + g⁻³⁵x⁶ + g⁻⁸x⁵ + g⁻⁵x³,
g⁻¹¹⁴x⁹⁶ + g⁻¹¹⁷x⁸⁰ + g⁻²⁵x⁷² + g⁻⁹⁴x⁶⁸ + g⁻⁷³x⁶⁶ + g⁻⁸¹x⁶⁵ + g⁻⁷³x⁴⁸ + g⁻⁷³x⁴⁰ + g⁻⁸¹x³⁶ + g⁻³⁶x³⁴ + g⁻⁹¹x³³ + g⁻⁸⁵x²⁴ + g⁻⁵²x²⁰ + g⁻⁵⁹x¹⁸ + g⁻¹¹x¹⁷ + g⁻⁹x¹² + g⁻¹²x¹⁰ + g⁻¹¹x⁹ + g⁻⁴⁹x⁶ + g⁻⁹⁵x⁵ + g⁻¹¹⁵x³,
g⁻⁶⁹x⁹⁶ + g⁻⁹²x⁸⁰ + g⁻⁴³x⁷² + g⁻¹¹¹x⁶⁸ + g⁻¹⁰⁷x⁶⁶ + g⁻⁸⁴x⁶⁵ + g⁻⁵⁷x⁴⁸ + g⁻⁹⁸x⁴⁰ + g⁻¹⁰²x³⁶ + g⁻²x³⁴ + g⁻⁷⁵x³³ + g⁻¹⁷x²⁴ + g⁻⁷²x²⁰ + g⁻⁷x¹⁸ + g⁻⁸²x¹⁷ + g⁻⁹⁵x¹² + g⁻¹⁰⁵x¹⁰ + g⁻⁸⁰x⁹ + g⁻⁵¹x⁶ + g⁻⁸⁰x⁶ + g⁻⁶³x⁵ + g⁻¹¹⁷x³,
g⁻¹¹⁷x⁹⁶ + g⁻⁷⁶x⁸⁰ + g⁻⁷⁸x⁷² + g⁻¹⁰⁷x⁶⁸ + g⁻⁸x⁶⁶ + g⁻⁸⁷x⁶⁵ + g⁻⁶⁹x⁴⁸ + g⁻⁴⁵x⁴⁰ + g⁻⁹¹x³⁶ + g⁻¹¹⁶x³⁴ + g⁻⁵⁶x³³ + g⁻⁶⁹x²⁴ + g⁻³²x²⁰ + g⁻³³x¹⁸ + g⁻⁵⁷x¹⁷ + g⁻⁹²x¹² + g⁻²²x¹⁰ + g⁻⁹⁸x⁹ + g⁻¹¹³x⁶ + g⁻¹⁰x⁵ + g⁻³⁹x³,
g⁻³⁸x⁹⁶ + g⁻⁹³x⁸⁰ + g⁻³⁸x⁷² + g⁻¹¹⁴x⁶⁸ + g⁻⁸x⁶⁶ + g⁻²⁰x⁶⁵ + g⁻⁷²x⁴⁸ + g⁻¹²⁰x⁴⁰ + g⁻¹⁰⁷x³⁶ + g⁻⁸²x³⁴ + g⁻⁹⁷x³³ + g⁻⁷⁵x²⁴ + x²⁰ + g⁻⁷³x¹⁸ + g⁻⁷¹x¹⁷ + g⁻⁵⁶x¹² + g⁻⁴⁸x¹⁰ + g⁻¹²²x⁹ + g⁻⁵³x⁶ + g⁻¹²⁰x⁵ + g⁻¹⁰⁷x³,
g⁻³¹x⁹⁶ + g⁻¹⁰⁷x⁸⁰ + g⁻⁷³x⁷² + g⁻⁷⁵x⁶⁸ + g⁻⁴⁹x⁶⁶ + g⁻⁸⁷x⁶⁵ + g⁻⁹⁴x⁴⁸ + g⁻⁵⁷x⁴⁰ + g⁻³⁵x³⁶ + g⁻¹²x³³ + g⁻⁴⁴x²⁴ + g⁻⁴x²⁰ + g⁻²⁴x¹⁸ + g⁻¹²³x¹⁷ + g⁻¹¹²x¹² + g⁻⁶⁸x¹⁰ + g⁻⁹⁰x⁹ + g⁻⁷⁷x⁶ + g⁻¹⁰x⁵ + g⁻³⁶x³,
g⁻¹²⁶x⁹⁶ + g⁻⁸x⁸⁰ + g⁻¹⁰⁵x⁷² + g⁻¹⁰⁴x⁶⁸ + g⁻³⁴x⁶⁶ + g⁻⁴⁷x⁶⁵ + g⁻⁷⁹x⁴⁸ + g⁻⁴⁶x⁴⁰ + g⁻⁵x³⁶ + g⁻⁹⁶x³⁴ + g⁻¹⁰⁴x³³ + g⁻²⁹x²⁴ + g⁻¹²²x²⁰ + g⁻³¹x¹⁸ + g⁻⁶⁸x¹⁷ + g⁻⁵x¹² + g⁻¹¹⁶x¹⁰ + g⁻¹¹⁴x⁹ + g⁻⁴⁶x⁶ + g⁻⁷⁵x⁵ + g⁻⁹¹x³,
g⁻⁹⁸x⁹⁶ + g⁻¹⁰²x⁸⁰ + g⁻¹²⁰x⁷² + g⁻¹⁰x⁶⁸ + g⁻⁶⁷x⁶⁶ + g⁻¹⁰x⁶⁵ + g⁻⁴²x⁴⁸ + g⁻¹¹⁷x³⁶ + g⁻⁴⁰x³⁴ + g⁻⁴³x³³ + g⁻⁵x²⁴ + g⁻⁵⁰x²⁰ + g⁻⁸³x¹⁸ + g⁻¹²⁵x¹⁷ + g⁻⁶⁹x¹² + g⁻⁵⁶x¹⁰ + g⁻²⁶x⁹ + g⁻²x⁶ + g⁻¹²¹x⁵ + g⁻²⁴x³,
g⁻⁶⁶x⁹⁶ + g⁻²⁴x⁸⁰ + g⁻³⁷x⁷² + g⁻⁶⁸x⁶⁸ + g⁻⁷⁹x⁶⁶ + g⁻⁷⁷x⁶⁵ + g⁻¹⁰¹x⁴⁸ + g⁻¹⁵x⁴⁰ + g⁻²x³⁶ + g⁻⁷¹x³⁴ + g⁻⁷⁶x³³ + g⁻⁷⁴x²⁴ + g⁻³⁹x²⁰ + g⁻⁵⁸x¹⁸ + g⁻¹²³x¹⁷ + g⁻²³x¹² + g⁻⁵⁷x¹⁰ + g⁻²⁹x⁹ + g⁻²⁵x⁶ + g⁻³⁸x⁵ + g⁻¹⁰⁴x³,
g⁻⁶x⁹⁶ + g⁻⁸⁸x⁸⁰ + g⁻⁵³x⁷² + g⁻²x⁶⁸ + g⁻⁷⁸x⁶⁶ + g⁻⁷⁸x⁶⁵ + x⁴⁸ + g⁻⁷⁸x⁴⁰ + g⁻¹⁰¹x³⁶ + g⁻²⁰x³⁴ + g⁻¹¹²x³³ + g⁻³⁵x²⁴ + g⁻⁵⁵x²⁰ + g⁻¹⁰²x¹⁸ + g⁻⁸⁴x¹⁷ + g⁻²⁹x¹² + g⁻⁴¹x¹⁰ + g⁻¹⁴x⁹ + g⁻²⁷x⁶ + g⁻¹⁰⁹x⁵ + g⁻⁵³x³,
g⁻⁶⁶x⁹⁶ + g⁻¹²³x⁸⁰ + g⁻⁷³x⁷² + g⁻⁷⁰x⁶⁸ + g⁻⁸⁹x⁶⁶ + g⁻⁸⁸x⁶⁵ + g⁻²²x⁴⁸ + g⁻¹⁰⁴x⁴⁰ + g⁻⁸⁹x³⁶ + g⁻²⁵x³⁴ + g⁻¹⁰⁷x³³ + g⁻⁵⁸x²⁴ + g⁻⁹⁹x²⁰ + g⁻⁷⁷x¹⁸ + g⁻⁵x¹⁷ + g⁻³⁶x¹² + g⁻¹⁰x¹⁰ + g⁻¹¹⁸x⁹ + g⁻³⁷x⁶ + g⁻³⁰x⁵ + g⁻⁶⁹x³,
g⁻¹¹⁰x⁹⁶ + g⁻²⁷x⁸⁰ + g⁻³⁴x⁷² + g⁻⁵⁶x⁶⁸ + g⁻⁴⁵x⁶⁶ + g⁻¹⁰³x⁶⁵ + g⁻¹¹⁸x⁴⁸ + g⁻⁸⁷x⁴⁰ + g⁻²⁰x³⁶ + g⁻⁹⁴x³⁴ + g⁻⁶⁹x³³ + g⁻⁶⁹x²⁴ + g⁻²x²⁰ + g⁻¹¹⁷x¹⁸ + g⁻¹¹⁰x¹⁷ + g⁻⁴⁹x¹² + g⁻⁹¹x¹⁰ + g⁻⁴¹x⁹ + g⁻⁷x⁶ + g⁻⁷¹x⁵ + g⁻¹⁷x³,
g⁻¹¹⁷x⁹⁶ + x⁸⁰ + g⁻³⁶x⁷² + g⁻²⁰x⁶⁸ + g⁻¹⁰⁶x⁶⁶ + g⁻⁶x⁶⁵ + g⁻⁶¹x⁴⁸ + g⁻⁹⁷x⁴⁰ + g⁻⁸¹x³⁶ + g⁻⁵⁸x³⁴ + g⁻¹¹x³³ + g⁻¹¹⁵x²⁴ + g⁻¹¹⁹x²⁰ + g⁻³¹x¹⁸ + g⁻⁹¹x¹⁷ + g⁻⁵¹x¹² + g⁻⁸⁷x¹⁰ + g⁻³⁶x⁹ + g⁻²²x⁶ + g⁻¹⁰⁴x⁵ + g⁻¹³x³,
g⁻⁷⁴x⁹⁶ + g⁻¹²x⁸⁰ + g⁻³⁶x⁷² + g⁻⁴⁰x⁶⁸ + g⁻¹¹⁵x⁶⁶ + g⁻⁴x⁶⁵ + g⁻⁵¹x⁴⁸ + g⁻⁴³x⁴⁰ + g⁻⁶x³⁶ + g⁻⁵⁸x³⁴ + g⁻⁸²x³³ + g⁻¹¹⁶x²⁴ + g⁻³¹x²⁰ + g⁻⁹⁵x¹⁸ + g⁻⁵⁰x¹⁷ + g⁻¹⁹x¹² + g⁻²⁷x¹⁰ + g⁻¹¹³x⁹ + g⁻³⁹x⁶ + g⁻⁷⁶x⁵ + g⁻¹¹³x³,
g⁻⁹⁵x⁹⁶ + g⁻¹⁰¹x⁸⁰ + g⁻⁹⁶x⁷² + g⁻⁴⁶x⁶⁸ + g⁻⁷x⁶⁶ + g⁻⁵⁴x⁶⁵ + g⁻⁸⁶x⁴⁸ + g⁻²⁴x³⁶ + g⁻⁸⁹x³⁴ + g⁻⁹⁹x³³ + g⁻⁷⁰x²⁴ + g⁻⁹x²⁰ + g⁻⁶⁹x¹⁸ + g⁻¹⁰³x¹⁷ + g⁻¹¹⁵x¹² + g⁻⁴⁰x¹⁰ + g⁻¹⁰⁷x⁹ + g⁻¹⁶x⁶ + g⁻⁹x⁵ + g⁻⁶⁴x³,
g⁻¹¹⁸x⁹⁶ + g⁻⁷⁸x⁸⁰ + g⁻²¹x⁷² + g⁻³⁸x⁶⁸ + g⁻⁵x⁶⁶ + g⁻³x⁶⁵ + g⁻²⁰x⁴⁸ + g⁻¹²⁶x⁴⁰ + g⁻¹⁴x³⁶ + g⁻¹²¹x³⁴ + g⁻⁷x³³ + g⁻⁴³x²⁴ + g⁻⁶⁴x²⁰ + g⁻¹⁰⁶x¹⁸ + g⁻¹⁰⁹x¹⁷ + g⁻⁷³x¹² + g⁻⁶x¹⁰ + g⁻¹⁷x⁹ + g⁻²³x⁶ + g⁻⁹⁶x⁵ + g⁻³⁸x³,
g⁻⁶⁵x⁹⁶ + g⁻⁶⁴x⁸⁰ + g⁻³⁰x⁷² + g⁻²⁰x⁶⁸ + g⁻⁴³x⁶⁶ + g⁻⁴³x⁶⁵ + g⁻⁷⁸x⁴⁸ + g⁻¹²⁶x⁴⁰ + g⁻⁸x³⁶ + g⁻¹¹⁹x³³ + g⁻¹⁶x²⁴ + g⁻¹⁰⁸x²⁰ + g⁻⁸⁶x¹⁸ + g⁻⁶⁷x¹⁷ + g⁻⁶⁰x¹² + g⁻⁸x¹⁰ + g⁻⁹¹x⁹ + g⁻⁷⁰x⁶ + g⁻²³x⁵ + g⁻³⁶x³,
g⁻⁸⁷x⁹⁶ + g⁻⁵⁶x⁸⁰ + g⁻²⁵x⁷² + g⁻⁵⁷x⁶⁸ + g⁻⁶⁶x⁶⁶ + g⁻⁹³x⁶⁵ + g⁻⁷²x⁴⁸ + g⁻²⁶x⁴⁰ + g⁻¹⁷x³⁶ + g⁻²⁶x³⁴ + g⁻¹²³x³³ + g⁻⁴³x²⁴ + g⁻¹⁰³x²⁰ + g⁻⁶⁰x¹⁷ + g⁻³⁵x¹² + g⁻¹²¹x¹⁰ + g⁻¹²⁰x⁹ + g⁻⁴⁶x⁶ + g⁻⁶²x⁵ + g⁻²⁰x³,
g⁻¹⁰⁸x⁹⁶ + g⁻¹¹⁶x⁸⁰ + g⁻¹⁰⁴x⁷² + g⁻¹²¹x⁶⁸ + g⁻⁴⁶x⁶⁶ + g⁻¹¹⁹x⁶⁵ + g⁻¹¹⁹x⁴⁸ + g⁻⁶⁰x⁴⁰ + g⁻¹⁰³x³⁶ + g⁻⁴¹x³⁴ + g⁻⁴⁸x³³ + g⁻⁹x²⁴ + g⁻⁵⁰x²⁰ + g⁻¹¹⁷x¹⁸ + g⁻¹¹⁹x¹⁷ + g⁻¹¹x¹² + g⁻¹¹⁵x¹⁰ + g⁻⁸⁷x⁹ + g⁻⁷⁴x⁶ + g⁻¹⁶x⁵ + g⁻⁴²x³,
g⁻¹⁰⁷x⁹⁶ + g⁻⁶²x⁸⁰ + g⁻⁸x⁷² + g⁻⁷x⁶⁸ + g⁻²⁴x⁶⁶ + g⁻⁵³x⁶⁵ + g⁻⁸⁹x⁴⁸ + g⁻⁷⁹x⁴⁰ + g⁻⁵⁷x³⁶ + g⁻⁶³x³⁴ + g⁻¹¹⁹x³³ + g⁻¹²x²⁴ + g⁻²⁰x²⁰ + g⁻⁶³x¹⁸ + g⁻²⁰x¹⁷ + g⁻⁸⁰x¹² + g⁻⁶⁶x¹⁰ + g⁻⁹²x⁹ + g⁻¹¹⁸x⁶ + g⁻¹⁴x⁵

g`154*x`192 + g`67*x`160 + g`102*x`144 + g`208*x`136 + g`41*x`132 + g`119*x`130 + g`130*x`129 + g`88*x`96 + g`52*x`80 + g`220*x`72 + g`178*x`68 + g`173*x`66 + g`75*x`65 + g`73*x`48 + g`111*x`40 + g`49*x`36 + g`68*x`34 + g`120*x`33 + g`156*x`24 + g`39*x`20 + g`150*x`18 + g`45*x`17 + g`21*x`12 + g`21*x`10 + g`23*x`9 + g`148*x`6 + g`196*x`5 + g`195*x`3, g`60*x`192 + g`251*x`160 + g`143*x`144 + g`106*x`136 + g`64*x`132 + g`63*x`130 + g`151*x`129 + g`171*x`96 + g`61*x`80 + g`72*x`72 + g`156*x`68 + g`250*x`66 + g`7*x`65 + g`199*x`48 + g`115*x`40 + g`181*x`36 + g`88*x`34 + g`17*x`33 + g`251*x`24 + g`80*x`20 + g`165*x`18 + g`217*x`17 + g`235*x`12 + g`82*x`10 + g`234*x`9 + g`214*x`6 + g`149*x`5 + g`194*x`3, g`38*x`192 + g`120*x`160 + g`120*x`144 + g`194*x`136 + g`68*x`132 + g`89*x`130 + g`151*x`129 + g`35*x`80 + g`170*x`72 + g`213*x`68 + g`171*x`66 + g`10*x`65 + g`162*x`48 + g`122*x`40 + g`229*x`36 + g`188*x`34 + g`93*x`33 + g`226*x`24 + g`177*x`20 + g`181*x`18 + g`108*x`17 + g`56*x`12 + g`253*x`10 + g`219*x`6 + g`175*x`5 + g`192*x`3, g`186*x`192 + g`87*x`160 + g`64*x`144 + g`233*x`136 + g`132*x`132 + g`188*x`130 + g`96*x`129 + g`190*x`96 + g`189*x`80 + g`67*x`72 + g`216*x`68 + g`101*x`66 + g`96*x`65 + g`166*x`48 + g`195*x`40 + g`175*x`36 + g`229*x`34 + g`99*x`33 + g`82*x`24 + g`6*x`20 + g`139*x`18 + g`167*x`17 + g`247*x`12 + g`108*x`10 + g`43*x`9 + g`161*x`6 + g`238*x`5 + g`2*x`3, g`103*x`192 + g`199*x`160 + g`128*x`144 + g`138*x`136 + g`241*x`132 + g`133*x`130 + g`154*x`129 + g`176*x`129 + g`16*x`96 + g`85*x`80 + g`7*x`72 + g`113*x`68 + g`50*x`66 + g`237*x`65 + g`2*x`48 + g`34*x`40 + g`26*x`36 + g`190*x`34 + g`155*x`33 + g`177*x`24 + g`5*x`20 + g`231*x`18 + g`17*x`17 + g`243*x`12 + g`114*x`10 + g`234*x`9 + g`177*x`6 + g`115*x`5 + g`155*x`3, g`147*x`192 + g`124*x`160 + g`95*x`144 + g`200*x`136 + g`227*x`132 + g`58*x`130 + g`210*x`129 + g`254*x`96 + g`194*x`80 + g`15*x`72 + g`220*x`68 + g`148*x`66 + g`210*x`65 + g`200*x`48 + g`93*x`40 + g`220*x`36 + g`186*x`34 + g`227*x`33 + g`100*x`24 + g`187*x`20 + g`137*x`18 + g`130*x`12 + g`239*x`10 + g`230*x`9 + g`143*x`6 + g`108*x`5 + g`212*x`3, g`231*x`192 + g`172*x`160 + g`108*x`144 + g`87*x`136 + g`98*x`132 + g`172*x`130 + g`67*x`129 + g`184*x`96 + g`230*x`80 + g`184*x`72 + g`123*x`68 + g`231*x`66 + g`167*x`65 + g`191*x`48 + g`176*x`40 + g`174*x`36 + g`151*x`34 + g`121*x`33 + g`147*x`24 + g`14*x`20 + g`97*x`18 + g`54*x`17 + g`158*x`12 + g`83*x`10 + g`70*x`9 + g`207*x`6 + g`18*x`5 + g`191*x`3, g`175*x`192 + g`181*x`160 + g`22*x`144 + g`68*x`136 + g`13*x`132 + g`221*x`130 + g`96*x`129 + g`197*x`96 + g`158*x`80 + g`98*x`72 + g`250*x`68 + g`202*x`66 + g`91*x`65 + g`104*x`48 + g`125*x`40 + g`140*x`36 + g`x`34 + g`7*x`33 + g`151*x`24 + g`182*x`20 + g`49*x`18 + g`108*x`17 + g`91*x`12 + g`90*x`10 + g`21*x`9 + g`78*x`6 + g`170*x`5 + g`51*x`3, g`11*x`192 + g`91*x`160 + g`226*x`144 + g`47*x`136 + g`253*x`132 + g`254*x`130 + g`161*x`129 + g`219*x`96 + g`92*x`80 + g`230*x`72 + g`175*x`68 + g`206*x`66 + g`97*x`65 + g`84*x`48 + g`177*x`40 + g`133*x`36 + g`23*x`34 + g`237*x`33 + g`35*x`24 + g`103*x`20 + g`190*x`18 + g`30*x`17 + g`135*x`12 + g`6*x`10 + g`53*x`9 + g`40*x`6 + g`51*x`5 + g`157*x`3, g`234*x`192 + g`200*x`160 + g`171*x`144 + g`184*x`136 + g`38*x`132 + g`283*x`130 + g`243*x`129 + g`193*x`96 + g`177*x`80 + g`243*x`72 + g`83*x`68 + g`211*x`66 + g`168*x`65 + g`248*x`48 + g`82*x`40 + g`209*x`36 + g`187*x`34 + g`192*x`33 + g`37*x`24 + g`47*x`20 + g`145*x`18 + g`251*x`17 + g`63*x`12 + g`208*x`10 + g`6*x`9 + g`62*x`6 + g`103*x`5 + g`112*x`3, g`106*x`192 + g`177*x`160 + g`47*x`144 + g`163*x`136 + g`119*x`132 + g`73*x`130 + g`44*x`129 + g`249*x`96 + g`94*x`80 + g`146*x`72 + g`109*x`68 + g`200*x`66 + g`241*x`65 + g`161*x`48 + g`243*x`40 + g`147*x`36 + g`212*x`34 + g`215*x`33 + g`34*x`24 + g`250*x`20 + g`129*x`18 + g`164*x`17 + g`64*x`12 + g`51*x`10 + g`107*x`9 + g`244*x`6 + g`132*x`5 + g`51*x`3, g`122*x`192 + g`244*x`160 + g`244*x`144 + g`248*x`136 + g`41*x`132 + g`63*x`130 + g`154*x`129 + g`162*x`96 + g`161*x`80 + g`20*x`72 + g`180*x`68 + g`155*x`66 + g`84*x`65 + g`99*x`48 + g`64*x`40 + g`204*x`36 + g`162*x`34 + g`122*x`33 + g`199*x`24 + g`103*x`20 + g`150*x`18 + g`242*x`17 + g`138*x`12 + g`188*x`10 + g`85*x`9 + g`147*x`6 + g`235*x`5 + g`107*x`3, g`70*x`192 + g`105*x`160 + g`107*x`144 + g`27*x`136 + g`224*x`132 + g`178*x`130 + g`38*x`129 + g`56*x`96 + g`202*x`80 + g`70*x`72 + g`128*x`68 + g`216*x`66 + g`131*x`65 + g`226*x`48 + g`26*x`40 + g`66*x`36 + g`74*x`34 + g`103*x`33 + g`95*x`24 + g`108*x`20 + g`222*x`18 + g`29*x`17 + g`135*x`12 + g`51*x`10 + g`87*x`9 + g`192*x`6 + g`28*x`5 + g`194*x`3, g`159*x`192 + g`31*x`160 + g`241*x`144 + g`133*x`136 + g`243*x`132 + g`186*x`130 + g`12*x`129 + g`167*x`96 + g`234*x`80 + g`244*x`72 + g`146*x`68 + g`207*x`66 + g`231*x`65 + g`225*x`48 + g`174*x`40 + g`219*x`36 + g`32*x`34 + g`235*x`33 + g`134*x`24 + g`20*x`20 + g`30*x`18 + g`166*x`17 + g`163*x`12 + g`2*x`10 + g`16*x`9 + g`129*x`6 + g`61*x`5 + g`243*x`3, g`94*x`192 + g`50*x`160 + g`121*x`144 + g`130*x`136 + g`x`132 + g`84*x`130 + g`163*x`129 + g`153*x`96 + g`247*x`80 + g`205*x`72 + g`158*x`68 + g`46*x`66 + g`21*x`65 + g`191*x`48 + g`28*x`40 + g`174*x`36 + g`138*x`34 + g`123*x`33 + g`229*x`24 + g`12*x`20 + g`180*x`18 + g`44*x`17 + g`153*x`12 + g`117*x`10 + g`95*x`9 + g`x`6 + g`192*x`5 + g`10*x`3, g`10*x`192 + g`147*x`160 + g`12*x`144 + g`48*x`136 + g`224*x`132 + g`91*x`130 + g`33*x`129 + g`7*x`96 + g`91*x`80 + g`40*x`72 + g`241*x`68 + g`63*x`66 + g`242*x`65 + g`59*x`48 + g`7*x`40 + g`184*x`36 + g`78*x`34 + g`14*x`33 + g`39*x`24 + g`242*x`20 + g`223*x`20 + g`180*x`18 + g`44*x`17 + g`153*x`12 + g`171*x`10 + g`175*x`9 + g`x`6 + g`192*x`5 + g`206*x`3, g`58*x`192 + g`11*x`160 + g`122*x`144 + g`93*x`136 + g`58*x`132 + g`63*x`130 + g`216*x`129 + g`97*x`96 + g`124*x`80 + g`165*x`72 + g`207*x`68 + g`76*x`66 + g`95*x`65 + g`151*x`48 + g`77*x`40 + g`143*x`36 + g`84*x`34 + g`55*x`33 + g`14*x`24 + g`194*x`20 + g`81*x`18 + g`34*x`17 + g`192*x`12 + g`59*x`10 + g`52*x`9 + g`23*x`6 + g`199*x`5 + g`74*x`3, g`150*x`192 + g`72*x`160 + g`16*x`144 + g`149*x`136 + g`61*x`132 + g`154*x`130 + g`x`129 + g`196*x`96 + g`193*x`80 + g`165*x`72 + g`19*x`68 + g`138*x`66 + g`x`65 + g`60*x`48 + g`141*x`40 + g`244*x`36 + g`41*x`34 + g`56*x`33 + g`216*x`24 + g`13*x`20 + g`72*x`18 + g`217*x`17 + g`12 + g`166*x`10 + g`215*x`9 + g`141*x`6 + g`167*x`5 + g`33*x`3, g`41*x`192 + g`9*x`160 + g`124*x`144 + g`28*x`136 + g`253*x`132 + g`172*x`130 + g`230*x`129 + g`8*x`96 + g`3*x`80 + g`15*x`72 + g`76*x`68 + g`221*x`66 + g`95*x`65 + g`218*x`48 + g`93*x`40 + g`81*x`36 + g`143*x`34 + g`162*x`33 + g`176*x`24 + g`42*x`20 + g`200*x`18 + g`38*x`17 + g`237*x`12 + g`233*x`10 + g`84*x`9 + g`26*x`6 + g`86*x`5 + g`231*x`3, g`85*x`192 + g`121*x`160 + g`237*x`144 + g`164*x`136 + g`95*x`132 + g`211*x`130 + g`238*x`129 + g`137*x`96 + g`75*x`80 + g`149*x`72 + g`35*x`68 + g`251*x`66 + g`246*x`65 + g`75*x`48 + g`23*x`40 + g`91*x`36 + g`192*x`34 + g`4*x`33 + g`36*x`24 + g`94*x`20 + g`70*x`18 + g`91*x`17 + g`55*x`12 + g`223*x`10 + g`163*x`9 + g`218*x`6 + g`209*x`5 + g`220*x`3, g`224*x`192 + g`164*x`160 + g`230*x`144 + g`8*x`136 + g`200*x`132 + g`220*x`130 + g`52*x`129 + g`42*x`96 + g`86*x`80 + g`5*x`72 + g`60*x`68 + g`125*x`66 + g`219*x`65 + g`155*x`48 + g`23*x`40 + g`42*x`36 + g`38*x`34 + g`72*x`33 + g`15*x`24 + g`117*x`20 + g`220*x`18 + g`14*x`17 + g`109*x`12 + g`20*x`10 + g`175*x`9 + g`164*x`6 + g`115*x`5 + g`5*x`3, g`13*x`192 + g`67*x`160 + g`183*x`144 + g`50*x`136 + g`251*x`132 + g`120*x`130 + g`99*x`129 + g`x`96 + g`86*x`80 + g`59*x`72 + g`236*x`68 + g`205*x`66 + g`48*x`65 + g`32*x`48 + g`234*x`40 + g`131*x`36 + g`108*x`34 + g`208*x`33 + g`165*x`24 + g`33*x`20 + g`110*x`18 + g`186*x`17 + g`65*x`12 + g`18*x`10 + g`167*x`9 + g`226*x`6 + g`124*x`5 + g`61*x`3, g`121*x`192 + g`97*x`160 + g`69*x`144 + g`x`136 + g`227*x`132 + g`142*x`130 + g`58*x`129 + g`239*x`96 + g`30*x`80 + g`134*x`72 + g`116*x`68 + g`72*x`66 + g`52*x`65 + g`71*x`48 + g`151*x`40 + g`73*x`36 + g`99*x`34 + g`154*x`33 + g`64*x`24 + g`180*x`20 + g`203*x`18 + g`120*x`17 + g`108*x`12 + g`202*x`10 + g`120*x`9 + g`125*x`6 + g`54*x`5 + g`24*x`3, g`15*x`192 + g`47*x`160 + g`189*x`144 + g`188*x`136 + g`159*x`132 + g`152*x`130 + g`200*x`129 + g`91*x`96 + g`36*x`80 + g`172*x`72 + g`210*x`68 + g`174*x`66 + g`247*x`65 + g`247*x`48 + g`67*x`40 + g`72*x`36 + g`69*x`34 + g`103*x`33 + g`126*x`24 + g`115*x`20 + g`108*x`18 + g`70*x`17 + g`152*x`12 + g`179*x`10 + g`142*x`9 + g`70*x`6 + g`157*x`5 + g`33*x`3, g`171*x`192 + g`2*x`160 + g`93*x`144 + g`74*x`136 + g`24*x`132 + g`114*x`130 + g`198*x`129 + g`100*x`96 + g`161*x`80 + g`243*x`72 + g`23*x`68 + g`85*x`66 + g`66*x`65 + g`154*x`48 + g`31*x`40 + g`178*x`36 + g`57*x`34 + g`211*x`33 + g`146*x`33 + g`121*x`20 + g`84*x`12 + g`160*x`12 + g`149*x`10 + g`218*x`9 + g`76*x`6 + g`224*x`5 + g`223*x`3, g`212*x`192 + g`171*x`160 + g`189*x`144 + g`77*x`136 + g`25*x`132 + g`177*x`130 + g`180*x`129 + g`229*x`96 + g`33*x`80 + g`95*x`72 + g`135*x`68 + g`137*x`66 + g`193*x`65 + g`246*x`48 + g`7*x`40 + g`141*x`36 + g`18*x`34 + g`209*x`33 + g`41*x`24 + g`230*x`20 + g`17*x`18 + g`250*x`17 + g`67*x`12 + g`236*x`10 + g`50*x`9 + g`2*x`6 + g`107*x`5 + g`15*x`3, g`112*x`192 + g`170*x`160 + g`203*x`144 + g`12*x`136 + g`142*x`132 + g`135*x`130 + g`154*x`129 + g`199*x`96 + g`78*x`80 + g`62*x`72 + g`24*x`68 + g`168*x`66 + g`16*x`65 + g`176*x`48 + g`187*x`40 + g`89*x`36 + g`177*x`34 + g`104*x`33 + g`247*x`24 + g`244*x`20 + g`61*x`18 + g`251*x`17 + g`241*x`12 + g`110*x`10 + g`227*x`9 + g`47*x`6 + g`154*x`5 + g`39*x`3, g`127*x`192 + g`29*x`160 + g`13*x`144 + g`244*x`136 + g`112*x`132 + g`65*x`130 + g`84*x`129 + g`20*x`96 + g`250*x`80 + g`202*x`72 + g`117*x`68 + g`213*x`66 + g`190*x`66 + g`176*x`48 + g`173*x`40 + g`236*x`36 + g`28*x`34 + g`233*x`33 + g`196*x`24 + g`87*x`20 + g`159*x`18 + g`136*x`17 + g`206*x`12 + g`180*x`10 + g`157*x`9 + g`213*x`6 + g`175*x`5 + g`175*x`3, g`96*x`192 + g`173*x`160 + g`146*x`144 + g`81*x`136 + g`231*x`132 + g`62*x`130 + g`203*x`129 + g`253*x`96 + g`148*x`80 + g`75*x`72 + g`231*x`68 + g`77*x`66 + g`15*x`65 + g`219*x`48 + g`155*x`40 + g`162*x`36 + g`150*x`34 + g`162*x`36 + g`174*x`34 + g`221*x`33 + g`164*x`24 + g`67*x`20 + g`174*x`18 + g`44*x`17 + g`242*x`12 + g`220*x`10 + g`216*x`9 + g`71*x`6 + g`173*x`5 + g`151*x`3, g`135*x`192 + g`35*x`160 + g`123*x`144 + g`84*x`136 + g`21*x`132 + g`240*x`130 + g`127*x`129 + g`83*x`96 + g`108*x`80 + g`4*x`72 + g`21*x`68 + g`157*x`66 + g`233*x`65 + g`25*x`48 + g`90*x`40 + g`162*x`36 + g`80*x`34 + g`13*x`33 + g`4*x`24 + g`133*x`20 + g`182*x`18 + g`246*x`17 + g`202*x`12 + g`201*x`10 + g`128*x`9 + g`64*x`6 + g`205*x`5 + g`54*x`3, g`140*x`192 + g`169*x`160 + g`104*x`144 + g`213*x`136 + g`11*x`132 + g`104*x`130 + g`161*x`129 + g`210*x`96 + g`132*x`80 + g`125*x`72 + g`233*x`68 + g`253*x`66 + g`70*x`65 + g`83*x`48 + g`253*x`40 + g`128*x`36 + g`53*x`34 + g`227*x`33 + g`188*x`24 + g`83*x`20 + g`117*x`18 + g`102*x`17 + g`234*x`12 + g`218*x`10 + g`150*x`9 + g`186*x`6 + g`23*x`5 + g`97*x`3, g`204*x`192 + g`200*x`160 + g`57*x`144 + g`171*x`136 + g`90*x`132 + g`246*x`130 + g`115*x`129 + g`66*x`96 + g`161*x`80 + g`162*x`72 + g`63*x`68 + g`169*x`66 + g`104*x`65 + g`164*x`48 + g`30*x`40 + g`26*x`36 + g`160*x`34 + g`173*x`33 + g`37*x`24 + g`143*x`20 + g`79*x`18 + g`13*x`17 + g`56*x`12 + g`65*x`10 + g`47*x`9 + g`209*x`6 + g`123*x`5 + g`83*x`3, g`22*x`192 + g`242*x`160 + g`242*x`144 + g`134*x`136 + g`238*x`132 + g`220*x`130 + g`37*x`129 + g`121*x`96 + g`170*x`80 + g`38*x`72 + g`117*x`68 + g`234*x`66 + g`86*x`65 + g`164*x`48 + g`76*x`40 + g`252*x`36 + g`211*x`34 + g`133*x`33 + g`144*x`24 + g`18*x`20 + g`94*x`18 + g`236*x`17 + g`245*x`12 + g`26*x`10 + g`137*x`9 + g`11*x`6 + g`189*x`5 + g`215*x`3, g`145*x`192 + g`122*x`160 + g`74*x`144 + g`182*x`136 + g`97*x`132 + g`14*x`130 + g`157*x`129 + g`183*x`96 + g`12*x`80 + g`137*x`72 + g`221*x`68 + g`182*x`66 + g`245*x`65 + g`156*x`48 + g`139*x`40 + g`253*x`36 + g`166*x`34 + g`5*x`33 + g`102*x`24 + g`219*x`20 + g`112*x`18 + g`125*x`17 + g`30*x`12 + g`193*x`10 + g`224*x`9 + g`134*x`6 + g`202*x`5 + g`177*x`3, g`208*x`192 + g`86*x`160 + g`142*x`144 + g`233*x`136 + g`127*x`132 + g`5*x`130 + g`136*x`129 + g`241*x`96 + g`57*x`80 + g`123*x`72 + g`236*x`68 + g`36*x`66 + g`34*x`65 + g`131*x`48 + g`217*x`40 + g`8*x`36 + g`198*x`34 + g`254*x`33 + g`105*x`24 + g`115*x`20 + g`54*x`18 + g`75*x`17 + g`81*x`12 + g`230*x`10 + g`144*x`9 + g`20*x`6 + g`130*x`5 + g`240*x`3, g`68*x`192 + g`18*x`160 + g`93*x`144 + g`x`136 + g`176*x`132 + g`226*x`130 + g`35*x`129 + g`154*x`96 + g`142*x`80 + g`193*x`72 + g`203*x`68 + g`127*x`66 + g`253*x`65 + g`118*x`48 + g`30*x`40 + g`21*x`36 + g`59*x`34 + g`242*x`33 + g`152*x`24 + g`113*x`20 + g`116*x`18 + g`26*x`17 + g`37*x`12 + g`71*x`10 + g`130*x`9 + g`21*x`6 + g`194*x`5 + g`234*x`3, g`72*x`192 + g`130*x`160 + g`218*x`144 + g`176*x`136 + g`145*x`132 + g`145*x`130 + g`240*x`129 + g`134*x`96 + g`219*x`80 + g`74*x`72 + g`188*x`68 + g`10*x`66 + g`199*x`65 + g`139*x`48 + g`135*x`40 + g`76*x`36 + g`122*x`34 + g`246*x`33 + g`222*x`24 + g`185*x`20 + g`189*x`18 + g`119*x`17 + g`181*x`12 + g`115*x`10 + g`119*x`9 + g`199*x`9 + g`193*x`6 + g`109*x`5 + g`133*x`3, g`41*x`192 + g`76*x`144 + g`62*x`136 + g`58*x`132 + g`7*x`130 + g`59*x`129 + g`35*x`96 + g`35*x`80 + g`220*x`72 + g`57*x`68 + g`93*x`66 + g`239*x`65 + g`77*x`48 + g`234*x`40 + g`170*x`36 + g`122*x`34 + g`59*x`33 + g`17*x`24 + g`125*x`20 + g`28*x`18 + g`175*x`17 + g`122*x`12 + g`103*x`10 + g`226*x`9 + g`213*x`6 + g`47*x`5 + g`18*x`3, g`154*x`192 + g`25*x`160 + g`66*x`144 + g`231*x`136 + g`146*x`132 + g`165*x`130 + g`209*x`129 + g`183*x`96 + g`167*x`80 + g`153*x`72 + g`128*x`68 + g`195*x`66 + g`39*x`65 + g`146*x`48 + g`107*x`40 + g`56*x`36 + g`74*x`33 + g`131*x`24 + g`103*x`20 + g`246*x`18 + g`21*x`17 + g`63*x`12 + g`239*x`10 + g`178*x`9 + g`169*x`6 + g`111*x`5 + g`72*x`3, g`86*x`192 + g`118*x`160 + g`59*x`144 + g`234*x`136 + g`45*x`132 + g`237*x`130 + g`13*x`129 + g`104*x`96 + g`173*x`80 + g`16*x`72 + g`216*x`68 + g`134*x`66 + g`63*x`65 + g`219*x`48 + g`112*x`40 + g`236*x`36 + g`32*x`34 + g`201*x`33 + g`227*x`24 + g`30*x`20 + g`45*x`18 + g`40*x`17 + g`44*x`12 + g`30*x`10 + g`11*x`9 + g`45*x`6 + g`113*x`5 + g`86*x`3, g`114*x`192 + g`128*x`160 + g`92*x`144 + g`86*x`136 + g`113*x`132 + g`167*x`130 + g`180*x`129 + g`215*x`96 + g`95*x`80 + g`44*x`72 + g`215*x`68 + g`147*x`66 + g`171*x`65 + g`16*x`48 + g`149*x`40 + g`113*x`36 + g`136*x`34 + g`84*x`33 + g`86*x`24 + g`197*x`20 + g`216*x`18 + g`122*x`17 + g`175*x`12 + g`154*x`10 + g`18*x`9 + g`244*x`6 + g`81*x`5 + g`239*x`3, g`69*x`192 + g`114*x`160 + g`25*x`144 + g`131*x`136 + g`141*x`132 + g`11*x`130 + g`46*x`129 + g`101*x`96 + g`232*x`80 + g`19*x`72 + g`122*x`68 + g`130*x`66 + g`4*x`65 + g`202*x`48 + g`232*x`40 + g`76*x`36 + g`144*x`34 + g`209*x`33 + g`17*x`24 + g`164*x`20 + g`102*x`12 + g`14*x`10 + g`166*x`9 + g`191*x`6 + g`61*x`5 + g`228*x`3, g`49*x`192 + g`219*x`160 + g`133*x`144 + g`15*x`136 + g`92*x`132 + g`45*x`130 + g`157*x`129 + g`177*x`96 + g`192*x`80 + g`157*x`72 + g`152*x`68 + g`138*x`66 + g`80*x`65 + g`168*x`48 + g`77*x`40 + g`202*x`36 + g`18*x`34 + g`253*x`33 + g`48*x`24 + g`240*x`20 + g`174*x`18 + g`165*x`17 + g`110*x`12 + g`135*x`10 + g`209*x`9 + g`181*x`6 + g`233*x`5 + g`141*x`3, g`244*x`192 + g`147*x`160 + g`95*x`144 + g`71*x`136 + g`44*x`132 + g`198*x`130 + g`190*x`129 + g`112*x`96 + g`40*x`80 + g`161*x`72 + g`60*x`68 + g`52*x`66 + g`177*x`65 + g`43*x`48 + g`151*x`40 + g`196*x`36 + g`57*x`34 + g`134*x`33 + g`144*x`24 + g`214*x`20 + g`147*x`18 + g`122*x`17 + g`206*x`12 + g`93*x`10 + g`136*x`9 + g`123*x`6 + g`242*x`5 + g`34*x`3, g`129*x`192 + g`29*x`160 + g`89*x`144 + g`103*x`136 + g`250*x`132 + g`153*x`130 + g`214*x`129 + g`66*x`96 + g`152*x`80 + g`3*x`72 + g`238*x`68 + g`206*x`65 + g`65*x`48 + g`118*x`40 + g`83*x`36 + g`132*x`34 + g`81*x`33 + g`18*x`24 + g`181*x`20 + g`243*x`18 + g`83*x`17 + g`146*x`12 + g`44*x`10 + g`246*x`9 + g`33*x`6 + g`75*x`5 + g`187*x`3, g`17*x`192 + g`31*x`160 + g`32*x`144 + g`177*x`136 + g`134*x`132 + g`62*x`130 + g`192*x`129 + g`118*x`96 + g`27*x`80 + g`141*x`72 + g`53*x`68 + g`98*x`66 + g`47*x`65 + g`93*x`48 + g`26*x`40 + g`74*x`36 + g`237*x`34 + g`21*x`33 + g`17*x`24 + g`45*x`2

g"228*x"192 + g"153*x"160 + g"37*x"144 + g"167*x"136 + g"148*x"132 + g"49*x"130 + g"9*x"129 + g"69*x"96 + g"75*x"80 + g"200*x"72 + g"204*x"68 + g"64*x"66 + g"236*x"65 + g"25*x"48 + g"251*x"40 + g"164*x"36 + g"187*x"34 + g"242*x"33 + g"126*x"24 + g"13*x"20 + g"78*x"18 + g"125*x"17 + g"119*x"12 + g"165*x"10 + g"203*x"9 + g"217*x"6 + g"198*x"5 + g"229*x"3, g"165*x"192 + g"35*x"160 + g"247*x"144 + g"100*x"136 + g"7*x"132 + g"115*x"130 + g"117*x"129 + g"154*x"129 + g"126*x"80 + g"198*x"68 + g"171*x"68 + g"111*x"66 + g"174*x"65 + g"207*x"48 + g"85*x"40 + g"164*x"36 + g"82*x"34 + g"24*x"33 + g"162*x"24 + g"233*x"20 + g"14*x"18 + g"11*x"17 + g"9*x"12 + g"44*x"10 + g"241*x"9 + g"21*x"6 + g"130*x"5 + g"245*x"3, g"65*x"192 + g"150*x"160 + g"34*x"144 + g"193*x"136 + g"128*x"132 + g"62*x"130 + g"147*x"129 + g"187*x"96 + g"136*x"80 + g"53*x"72 + g"42*x"68 + g"25*x"66 + g"159*x"65 + g"4*x"48 + g"118*x"40 + g"106*x"36 + g"79*x"34 + g"162*x"33 + g"226*x"24 + g"21*x"20 + g"226*x"18 + g"89*x"17 + 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+ g"152*x"68 + g"42*x"66 + g"228*x"65 + g"234*x"48 + g"53*x"40 + g"10*x"36 + g"240*x"36 + g"132*x"33 + g"169*x"24 + g"5*x"20 + g"97*x"18 + g"198*x"17 + g"24*x"12 + g"18*x"10 + g"160*x"9 + g"247*x"6 + g"230*x"5 + g"220*x"3, g"88*x"192 + g"134*x"160 + g"30*x"144 + g"148*x"136 + g"54*x"132 + g"4*x"130 + g"252*x"129 + g"221*x"96 + g"235*x"80 + g"97*x"72 + g"246*x"68 + g"207*x"66 + g"225*x"65 + g"107*x"48 + g"65*x"40 + g"159*x"36 + g"227*x"34 + g"2*x"33 + g"118*x"24 + g"3*x"20 + g"218*x"18 + g"179*x"17 + g"3*x"12 + g"149*x"10 + g"179*x"9 + g"35*x"6 + g"167*x"5 + g"219*x"3, g"x"192 + g"238*x"160 + g"41*x"144 + g"228*x"136 + g"21*x"132 + g"9*x"130 + g"67*x"129 + g"246*x"96 + g"140*x"80 + g"206*x"72 + g"126*x"68 + g"143*x"66 + g"158*x"65 + g"140*x"48 + g"126*x"40 + g"118*x"36 + g"122*x"34 + g"254*x"33 + g"211*x"24 + g"50*x"20 + g"125*x"18 + g"212*x"17 + g"150*x"12 + g"59*x"10 + g"134*x"9 + g"185*x"6 + g"123*x"5 + g"24*x"3, g"174*x"192 + g"187*x"160 + g"172*x"144 + g"178*x"136 + g"165*x"132 + 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+ g"126*x"144 + g"138*x"136 + g"44*x"132 + g"22*x"130 + g"171*x"129 + g"96*x"96 + g"176*x"80 + g"178*x"72 + g"208*x"68 + g"90*x"66 + g"88*x"65 + g"133*x"48 + g"162*x"40 + g"244*x"36 + g"151*x"34 + g"185*x"33 + g"141*x"24 + g"57*x"20 + g"58*x"18 + g"251*x"17 + g"64*x"12 + g"223*x"10 + g"34*x"9 + g"14*x"6 + g"116*x"5 + g"191*x"3, g"166*x"192 + g"x"160 + g"206*x"144 + g"119*x"136 + g"158*x"132 + g"147*x"130 + g"35*x"129 + g"241*x"96 + g"29*x"80 + g"101*x"72 + g"163*x"68 + g"71*x"66 + g"204*x"65 + g"83*x"48 + g"25*x"40 + g"156*x"36 + g"186*x"34 + g"77*x"33 + g"211*x"24 + x"20 + g"97*x"18 + g"123*x"17 + g"215*x"12 + g"51*x"10 + g"51*x"9 + g"118*x"6 + g"118*x"5 + g"199*x"3, g"94*x"160 + g"213*x"140 + g"86*x"136 + g"190*x"132 + g"168*x"130 + g"132*x"129 + g"x"96 + g"41*x"80 + g"229*x"72 + g"80*x"68 + g"136*x"66 + g"223*x"66 + g"162*x"48 + g"76*x"40 + g"32*x"36 + g"236*x"34 + g"177*x"33 + g"116*x"24 + g"179*x"20 + g"218*x"18 + g"173*x"17 + g"92*x"12 + g"227*x"10 + g"155*x"9 + g"221*x"6 + 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+ g"216*x"12 + g"238*x"10 + g"174*x"9 + g"62*x"6 + g"140*x"5 + g"183*x"3, g"244*x"192 + g"45*x"160 + g"36*x"144 + g"229*x"136 + g"250*x"132 + g"76*x"130 + g"129*x"129 + g"122*x"96 + g"223*x"80 + g"61*x"72 + g"134*x"68 + g"68*x"66 + g"229*x"65 + g"120*x"48 + g"49*x"40 + g"40*x"36 + g"29*x"34 + g"4*x"33 + g"157*x"24 + g"237*x"20 + g"124*x"18 + g"249*x"17 + g"254*x"12 + g"122*x"10 + g"104*x"9 + g"125*x"6 + g"173*x"5 + g"132*x"3, g"82*x"192 + g"29*x"160 + g"234*x"144 + g"25*x"136 + g"147*x"132 + g"124*x"130 + g"65*x"129 + g"48*x"96 + g"40*x"80 + g"122*x"72 + g"89*x"68 + g"247*x"66 + g"196*x"65 + g"169*x"48 + g"249*x"40 + g"162*x"36 + g"193*x"34 + g"198*x"33 + g"234*x"24 + g"121*x"20 + g"158*x"18 + g"241*x"17 + g"158*x"12 + g"178*x"10 + g"134*x"9 + g"189*x"6 + g"107*x"5 + g"191*x"3, g"234*x"192 + g"248*x"160 + g"72*x"144 + g"67*x"136 + g"152*x"132 + g"215*x"130 + g"253*x"129 + g"40*x"96 + g"248*x"80 + g"87*x"72 + g"146*x"68 + g"84*x"66 + g"112*x"65 + g"18*x"48 + g"166*x"40 + g"159*x"36 + 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g"213*x"192 + g"92*x"160 + g"40*x"144 + g"186*x"136 + g"76*x"132 + g"179*x"130 + g"200*x"129 + g"209*x"96 + g"181*x"80 + g"198*x"72 + g"29*x"68 + g"212*x"66 + g"80*x"65 + g"94*x"48 + g"83*x"40 + g"229*x"36 + g"27*x"34 + g"74*x"33 + g"183*x"24 + g"229*x"20 + g"231*x"18 + g"8*x"17 + g"126*x"12 + g"253*x"10 + g"172*x"9 + g"220*x"6 + g"35*x"5 + g"29*x"3, g"192*x"192 + g"40*x"160 + g"18*x"144 + g"202*x"136 + g"246*x"132 + g"48*x"130 + g"129*x"129 + g"127*x"96 + g"159*x"80 + g"213*x"72 + g"73*x"68 + g"191*x"66 + g"18*x"65 + g"131*x"48 + g"120*x"40 + g"184*x"36 + g"113*x"34 + g"78*x"33 + g"38*x"24 + g"34*x"20 + g"173*x"18 + g"229*x"17 + g"161*x"12 + g"225*x"10 + g"240*x"9 + g"64*x"6 + g"3*x"5 + g"215*x"3, g"183*x"192 + g"156*x"160 + g"221*x"144 + g"222*x"136 + g"236*x"132 + g"191*x"130 + g"149*x"129 + g"109*x"96 + g"203*x"80 + g"107*x"72 + g"153*x"68 + g"42*x"66 + g"198*x"65 + g"71*x"48 + g"31*x"40 + g"167*x"36 + g"9*x"34 + g"77*x"33 + g"206*x"24 + g"136*x"20 + g"184*x"18 + g"43*x"17 + 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+ g"238*x"24 + g"210*x"20 + g"177*x"18 + g"219*x"17 + g"102*x"12 + g"235*x"10 + g"126*x"9 + g"174*x"6 + g"163*x"5 + g"29*x"3, g"68*x"192 + g"85*x"160 + g"181*x"144 + g"11*x"136 + g"98*x"132 + g"120*x"130 + g"228*x"129 + g"170*x"96 + g"85*x"80 + g"147*x"72 + g"39*x"68 + g"187*x"66 + g"105*x"65 + g"208*x"48 + g"201*x"40 + g"81*x"36 + g"33*x"34 + g"161*x"33 + g"152*x"24 + g"89*x"18 + g"89*x"17 + g"72*x"12 + g"142*x"10 + g"99*x"9 + g"38*x"6 + g"115*x"5 + g"148*x"3, g"223*x"192 + g"238*x"160 + g"235*x"144 + g"82*x"136 + g"35*x"132 + g"148*x"130 + g"19*x"129 + g"120*x"96 + g"79*x"80 + g"42*x"72 + g"178*x"68 + g"38*x"66 + g"94*x"65 + g"114*x"48 + g"222*x"40 + g"206*x"36 + g"120*x"34 + g"172*x"33 + g"82*x"24 + g"195*x"20 + g"149*x"18 + g"245*x"17 + g"215*x"12 + g"138*x"10 + g"67*x"9 + g"119*x"6 + g"96*x"5 + g"18*x"3, g"226*x"192 + g"268*x"160 + g"20*x"144 + g"175*x"136 + g"113*x"132 + g"135*x"130 + g"164*x"130 + g"11*x"130 + g"148*x"129 + g"104*x"120 + g"118*x"129 + g"80*x"96 + g"14*x"80 + 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g"21*x"130 + g"209*x"129 + g"58*x"96 + g"119*x"80 + g"234*x"72 + g"217*x"68 + g"62*x"66 + g"117*x"65 + g"29*x"48 + g"9*x"40 + g"167*x"36 + g"5*x"34 + g"87*x"33 + g"251*x"24 + g"84*x"20 + g"2*x"18 + g"210*x"17 + g"217*x"12 + g"83*x"10 + g"88*x"9 + g"143*x"6 + g"212*x"5 + g"140*x"3, g"22*x"160 + g"174*x"144 + g"61*x"136 + g"156*x"132 + g"179*x"130 + g"107*x"129 + g"61*x"96 + g"48*x"80 + g"121*x"72 + g"54*x"68 + g"46*x"66 + g"171*x"65 + g"130*x"48 + g"20*x"40 + g"237*x"36 + g"56*x"34 + g"87*x"33 + g"171*x"24 + g"7*x"20 + g"252*x"18 + g"129*x"17 + g"229*x"12 + g"79*x"10 + g"235*x"9 + g"123*x"6 + g"115*x"5 + g"193*x"3, g"48*x"192 + g"236*x"160 + g"78*x"144 + g"100*x"136 + g"55*x"132 + g"153*x"130 + g"209*x"129 + g"209*x"96 + g"101*x"80 + g"23*x"72 + g"13*x"68 + g"199*x"66 + g"166*x"65 + g"170*x"48 + g"45*x"40 + g"38*x"36 + g"24*x"34 + g"218*x"33 + g"150*x"24 + g"102*x"20 + g"81*x"18 + g"168*x"17 + g"89*x"12 + g"112*x"10 + g"9*x"9 + g"3*x"6 + g"58*x"5 + g"236*x"3, g"244*x"192 + g"143*x"160 + 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g*8*x^192 + g*50*x^160 + g*163*x^144 + g*10*x^136 + g*48*x^130 + g*228*x^129 + g*220*x^96 + g*42*x^80 + g*6*x^72 + g*249*x^68 + g*29*x^66 + g*139*x^65 + g*50*x^48 + g*200*x^40 + g*235*x^36 + g*102*x^34 + g*18*x^33 + g*152*x^24 + g*8*x^20 + g*217*x^18 + g*177*x^17 + g*15*x^12 + g*40*x^10 + g*209*x^9 + g*199*x^6 + g*150*x^5 + g*212*x^3, g*231*x^192 + g*54*x^160 + g*130*x^144 + g*156*x^136 + g*25*x^132 + g*241*x^132 + g*30*x^129 + g*224*x^96 + g*177*x^80 + g*103*x^68 + g*93*x^68 + g*107*x^66 + g*211*x^65 + g*73*x^48 + g*245*x^40 + g*153*x^36 + g*166*x^34 + g*165*x^33 + g*54*x^24 + g*72*x^20 + g*153*x^18 + g*131*x^17 + g*69*x^12 + g*40*x^10 + g*78*x^9 + g*155*x^6 + g*246*x^5 + g*111*x^3, g*208*x^192 + g*124*x^160 + g*97*x^144 + g*176*x^136 + g*193*x^132 + g*236*x^130 + g*78*x^129 + g*295*x^96 + g*155*x^80 + g*221*x^72 + g*17*x^68 + g*229*x^66 + g*90*x^65 + g*105*x^48 + g*114*x^40 + g*33*x^36 + g*224*x^34 + g*122*x^33 + g*186*x^24 + g*212*x^20 + g*144*x^18 + g*106*x^17 + g*44*x^12 + 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g*214*x^48 + g*61*x^40 + g*120*x^36 + g*171*x^34 + g*37*x^33 + g*207*x^24 + g*171*x^20 + x^18 + g*107*x^17 + g*182*x^12 + g*141*x^10 + g*71*x^9 + g*252*x^6 + g*222*x^5 + g*117*x^3, g*92*x^192 + g*186*x^160 + g*51*x^144 + g*210*x^136 + g*75*x^132 + g*157*x^130 + g*150*x^129 + g*204*x^96 + g*174*x^80 + g*192*x^72 + g*110*x^68 + g*187*x^66 + g*156*x^65 + g*206*x^48 + g*x^40 + g*164*x^36 + g*55*x^34 + g*79*x^33 + g*204*x^24 + g*23*x^20 + g*47*x^18 + g*206*x^17 + g*110*x^12 + g*7*x^10 + g*4*x^9 + g*144*x^6 + g*155*x^5 + g*48*x^3, g*166*x^192 + g*31*x^160 + g*91*x^144 + g*44*x^136 + g*204*x^132 + g*33*x^130 + g*161*x^129 + g*253*x^96 + g*107*x^80 + g*214*x^72 + g*243*x^68 + g*77*x^66 + g*7*x^65 + g*160*x^48 + g*65*x^40 + g*81*x^36 + g*91*x^34 + g*46*x^33 + g*174*x^24 + g*27*x^20 + g*110*x^18 + g*13*x^17 + g*252*x^12 + g*253*x^10 + g*59*x^9 + g*121*x^6 + g*234*x^5 + g*68*x^3, g*189*x^192 + g*40*x^160 + g*59*x^144 + g*94*x^136 + g*81*x^132 + g*64*x^130 + g*4*x^129 + g*128*x^96 + g*237*x^80 + g*182*x^72 + g*188*x^68 + g*212*x^66 + g*172*x^65 + g*47*x^48 + g*222*x^40 + g*168*x^36 + g*28*x^34 + g*10*x^33 + g*181*x^24 + g*242*x^20 + g*146*x^18 + g*228*x^17 + g*17*x^12 + g*245*x^10 + g*198*x^9 + g*194*x^6 + g*50*x^5 + g*211*x^3, g*24*x^192 + g*76*x^160 + g*239*x^144 + g*242*x^136 + g*223*x^132 + g*168*x^130 + g*232*x^129 + g*194*x^96 + g*236*x^72 + g*224*x^68 + g*55*x^66 + g*61*x^65 + g*210*x^48 + g*246*x^40 + g*200*x^36 + g*129*x^34 + g*27*x^33 + g*160*x^24 + g*190*x^20 + g*151*x^18 + g*122*x^17 + g*189*x^12 + g*128*x^10 + g*197*x^9 + g*150*x^6 + g*253*x^5 + g*160*x^3, g*178*x^192 + g*114*x^160 + g*60*x^144 + g*169*x^136 + g*147*x^132 + g*163*x^130 + g*97*x^129 + g*176*x^96 + g*61*x^80 + g*115*x^72 + g*156*x^68 + g*41*x^66 + g*182*x^65 + g*147*x^48 + g*110*x^40 + g*145*x^36 + g*168*x^34 + g*16*x^33 + g*83*x^24 + g*175*x^20 + g*97*x^18 + g*184*x^17 + g*76*x^12 + g*46*x^10 + g*135*x^9 + g*95*x^6 + g*174*x^5 + g*150*x^3, g*171*x^192 + g*253*x^160 + g*13*x^144 + g*110*x^136 + 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g*168*x^36 + g*59*x^34 + g*13*x^33 + g*4*x^24 + g*155*x^20 + g*34*x^18 + g*195*x^17 + g*102*x^12 + g*22*x^10 + g*53*x^9 + g*238*x^6 + g*51*x^5 + g*37*x^3, g*244*x^192 + g*236*x^160 + g*121*x^144 + g*195*x^136 + g*123*x^132 + g*157*x^130 + g*213*x^129 + g*241*x^96 + g*52*x^80 + g*43*x^72 + g*94*x^68 + g*205*x^66 + g*190*x^65 + g*88*x^48 + g*149*x^40 + g*55*x^36 + g*108*x^34 + g*25*x^33 + g*213*x^24 + g*168*x^20 + g*168*x^18 + g*188*x^17 + g*153*x^12 + g*247*x^10 + g*174*x^9 + g*25*x^6 + g*244*x^5 + g*13*x^3, g*65*x^192 + g*9*x^160 + g*75*x^144 + g*112*x^136 + g*115*x^132 + g*53*x^130 + g*117*x^129 + g*222*x^96 + g*84*x^80 + g*31*x^72 + g*208*x^68 + g*50*x^66 + g*225*x^65 + g*119*x^48 + g*254*x^40 + g*199*x^36 + g*142*x^34 + g*221*x^33 + g*127*x^24 + g*68*x^20 + g*109*x^18 + g*228*x^17 + g*90*x^12 + g*137*x^10 + g*114*x^9 + g*175*x^6 + g*53*x^5 + g*101*x^3, g*98*x^192 + g*176*x^160 + g*251*x^144 + g*220*x^136 + g*79*x^132 + g*41*x^130 + g*218*x^129 + g*211*x^96 + g*122*x^80 + g*37*x^72 + g*49*x^68 + g*212*x^66 + g*146*x^65 + g*80*x^48 + g*31*x^40 + g*137*x^36 + g*192*x^34 + g*223*x^33 + g*131*x^24 + g*123*x^20 + g*130*x^18 + g*250*x^17 + g*121*x^12 + g*12*x^10 + g*48*x^9 + g*239*x^6 + g*171*x^5 + g*97*x^3, g*149*x^192 + g*54*x^160 + g*35*x^144 + g*60*x^136 + g*209*x^132 + g*61*x^130 + g*156*x^129 + g*204*x^96 + g*144*x^80 + g*189*x^72 + g*35*x^68 + g*107*x^66 + g*92*x^65 + g*121*x^48 + g*80*x^40 + g*171*x^36 + g*167*x^34 + g*106*x^33 + g*118*x^24 + g*39*x^20 + g*102*x^18 + g*62*x^17 + g*95*x^12 + g*60*x^10 + g*65*x^9 + g*251*x^6 + g*248*x^5 + g*141*x^3, g*100*x^192 + g*159*x^160 + g*125*x^144 + g*44*x^136 + g*17*x^132 + g*137*x^130 + g*253*x^129 + g*236*x^96 + g*84*x^80 + g*89*x^72 + g*192*x^68 + g*169*x^66 + g*210*x^65 + g*33*x^48 + g*138*x^40 + g*205*x^36 + g*14*x^34 + g*240*x^33 + g*157*x^24 + g*250*x^20 + g*146*x^18 + g*155*x^17 + g*46*x^12 + g*5*x^10 + g*156*x^9 + g*118*x^6 + g*195*x^5 + g*176*x^3, g*23*x^192 + g*180*x^160 + g*108*x^144 + g*177*x^136 + g*59*x^132 + g*197*x^130 + g*34*x^129 + g*153*x^96 + g*106*x^80 + g*179*x^72 + g*102*x^68 + g*115*x^66 + g*61*x^65 + g*197*x^48 + g*197*x^40 + g*27*x^36 + g*219*x^34 + g*135*x^33 + g*61*x^24 + g*48*x^20 + g*38*x^18 + g*11*x^17 + g*8*x^12 + g*40*x^10 + g*143*x^9 + g*200*x^6 + g*89*x^5 + g*181*x^3, g*75*x^192 + g*226*x^160 + g*119*x^144 + g*73*x^136 + g*137*x^132 + g*224*x^130 + g*203*x^129 + g*183*x^80 + g*60*x^72 + g*70*x^68 + g*8*x^66 + g*204*x^65 + g*4*x^48 + g*228*x^40 + g*62*x^36 + g*29*x^34 + g*59*x^33 + g*247*x^24 + g*232*x^20 + g*132*x^18 + g*90*x^17 + g*94*x^12 + g*76*x^10 + g*192*x^9 + g*101*x^6 + g*100*x^5 + g*51*x^3, g*196*x^192 + g*159*x^160 + g*242*x^144 + g*145*x^136 + g*186*x^132 + g*189*x^130 + g*178*x^129 + g*31*x^96 + g*50*x^80 + g*214*x^72 + g*191*x^68 + g*198*x^66 + g*127*x^65 + g*112*x^48 + g*219*x^40 + g*76*x^36 + g*167*x^34 + g*169*x^33 + g*4*x^24 + g*73*x^20 + g*144*x^18 + g*96*x^17 + g*212*x^12 + g*155*x^10 + g*197*x^9 + g*249*x^6 + g*241*x^5 + g*221*x^3, g*188*x^192 + g*230*x^160 + g*216*x^144 + g*20*x^136 + g*42*x^132 + g*56*x^130 + g*246*x^129 + g*210*x^96 + g*200*x^80 + g*117*x^72 + g*230*x^68 + g*89*x^66 + g*170*x^65 + g*201*x^48 + g*50*x^40 + g*194*x^36 + g*23*x^34 + g*30*x^33 + g*79*x^24 + g*93*x^20 + g*148*x^18 + g*163*x^17 + g*235*x^12 + g*232*x^10 + g*116*x^9 + g*69*x^6 + g*2*x^5 + g*66*x^3, g*233*x^192 + g*140*x^160 + g*181*x^144 + g*56*x^136 + g*163*x^132 + g*164*x^130 + g*84*x^129 + g*130*x^96 + g*67*x^80 + g*158*x^72 + g*47*x^68 + g*140*x^66 + g*125*x^65 + g*197*x^48 + g*138*x^40 + g*160*x^36 + g*81*x^34 + g*5*x^33 + g*100*x^24 + g*164*x^20 + g*156*x^18 + g*247*x^17 + g*111*x^12 + g*62*x^10 + g*181*x^9 + g*247*x^6 + g*159*x^5 + g*186*x^3, g*33*x^192 + g*17*x^160 + g*246*x^144 + g*197*x^136 + g*36*x^132 + g*11*x^130 + g*250*x^129 + g*6*x^96 + g*112*x^80 + g*161*x^72 + g*213*x^68 + g*213*x^66 + g*215*x^65 + g*7*x^48 + g*89*x^40 + g*12*x^36 + g*215*x^34 + g*22*x^33 + g*205*x^24 + g*162*x^20 + g*123*x^18 + g*6*x^17 + g*248*x^12 + g*166*x^10 + g*71*x^9 + g*148*x^6 + g*227*x^5 + g*76*x^3, g*64*x^192 + g*227*x^160 + g*206*x^144 + g*154*x^136 + g*154*x^132 + g*104*x^130 + g*248*x^129 + g*77*x^96 + g*165*x^80 + g*139*x^72 + g*230*x^68 + g*118*x^66 + g*117*x^65 + g*97*x^48 + g*238*x^40 + g*41*x^36 + g*43*x^34 + g*171*x^33 + g*108*x^24 + g*102*x^20 + g*36*x^18 + g*106*x^17 + g*202*x^12 + g*246*x^10 + g*26*x^9 + g*214*x^6 + g*208*x^5 + g*202*x^3, g*73*x^192 + g*98*x^160 + g*220*x^144 + g*144*x^136 + g*7*x^132 + g*200*x^130 + g*48*x^129 + g*26*x^96 + g*209*x^80 + g*37*x^72 + g*127*x^68 + g*60*x^66 + g*234*x^65 + g*42*x^48 + g*244*x^40 + g*76*x^36 + g*83*x^34 + g*59*x^33 + g*37*x^24 + g*164*x^20 + g*56*x^18 + g*238*x^17 + g*217*x^12 + g*45*x^10 + g*228*x^9 + g*73*x^6 + g*242*x^5 + g*15*x^3, g*35*x^192 + g*183*x^160 + g*169*x^144 + g*69*x^136 + g*31*x^132 + g*4*x^130 + g*5*x^129 + g*153*x^96 + g*185*x^80 + g*111*x^72 + g*216*x^68 + g*143*x^66 + g*138*x^65 + g*222*x^48 + g*167*x^40 + g*70*x^36 + g*195*x^34 + g*43*x^33 + g*200*x^24 + g*55*x^20 + g*167*x^18 + g*106*x^17 + g*16*x^12 + g*25*x^10 + g*59*x^9 + g*31*x^6 + g*243*x^5 + g*153*x^3, g*8*x^192 + g*254*x^160 + g*34*x^144 + g*135*x^136 + g*165*x^132 + g*220*x^130 + g*202*x^129 + g*217*x^96 + g*87*x^80 + g*123*x^72 + g*124*x^68 + g*253*x^66 + g*185*x^65 + g*199*x^48 + g*253*x^40 + g*33*x^36 + g*143*x^34 + g*88*x^33 + g*182*x^24 + g*235*x^20 + g*86*x^18 + g*98*x^17 + g*27*x^12 + g*137*x^10 + g*95*x^9 + g*80*x^6 + g*180*x^5 + g*235*x^3, g*215*x^192 + g*119*x^160 + x^144 + g*33*x^136 + g*102*x^132 + g*199*x^130 + g*88*x^129 + g*161*x^96 + g*160*x^80 + g*196*x^72 + g*222*x^68 + g*71*x^66 + g*244*x^65 + g*81*x^48 + g*163*x^40 + g*252*x^36 + g*71*x^34 + g*169*x^33 + g*112*x^24 + g*73*x^20 + g*56*x^18 + g*143*x^17 + g*53*x^12 + g*40*x^10 + g*252*x^9 + g*27*x^6 + g*171*x^5 + g*139*x^3, g*134*x^192 + g*159*x^160 + g*238*x^144 + g*76*x^136 + g*209*x^132 + g*204*x^130 + g*230*x^129 + g*78*x^96 + g*12*x^80 + g*103*x^72 + g*30*x^68 + g*224*x^66 + g*170*x^65 + g*133*x^48 + g*179*x^40 + g*206*x^36 + g*171*x^34 + g*21*x^33 + g*10*x^24 + g*156*x^20 + g*238*x^18 + g*198*x^17 + g*105*x^12 + g*38*x^10 + g*109*x^9 + g*96*x^6 + g*164*x^5 + g*19*x^3, g*52*x^192 + g*111*x^160 + g*131*x^144 + g*78*x^136 + g*39*x^132 + g*120*x^130 + g*217*x^129 + g*115*x^96 + g*200*x^80 + g*55*x^72 + g*33*x^68 + g*196*x^66 + g*108*x^65 + g*53*x^48 + g*26*x^40 + g*87*x^36 + g*203*x^34 + g*95*x^33 + g*233*x^24 + g*147*x^20 + g*134*x^18 + g*169*x^17 + g*208*x^12 + g*77*x^10 + g*206*x^9 + g*17*x^6 + g*152*x^5 + g*19*x^3, g*144*x^192 + g*125*x^160 + g*194*x^144 + g*221*x^136 + g*22*x^132 + g*252*x^130 + g*248*x^129 + g*178*x^96 + g*130*x^80 + g*30*x^72 + g*178*x^68 + g*79*x^66 + g*129*x^65 + g*27*x^48 + g*74*x^40 + g*151*x^36 + g*19*x^34 + g*126*x^33 + g*154*x^24 + g*232*x^20 + g*132*x^18 + g*150*x^17 + g*226*x^12 + g*128*x^10 + g*196*x^9 + g*194*x^6 + g*108*x^5 + g*95*x^3, g*124*x^192 + g*2*x^160 + g*45*x^144 + g*179*x^136 + g*74*x^132 + g*170*x^130 + g*20*x^129 + g*185*x^96 + g*216*x^80 + g*114*x^72 + g*118*x^68 + g*127*x^66 + g*157*x^65 + g*19*x^48 + g*150*x^40 + g*61*x^36 + g*210*x^34 + g*237*x^33 + g*19*x^24 + g*125*x^20 + g*220*x^18 + g*126*x^17 + g*88*x^12 + g*7*x

g^226*x^192 + g^110*x^160 + g^100*x^144 + g^37*x^136 + g^205*x^132 + g^99*x^130 + g^237*x^129 + g^110*x^96 + g^188*x^80 + g^141*x^72 + g^190*x^68 + g^138*x^66 + g^191*x^65 + g^157*x^48 + g^89*x^40 + g^154*x^36 + x^34 + g^17*x^33 + g^85*x^24 + g^24*x^20 + g^201*x^18 + g^139*x^17 + g^111*x^12 + g^46*x^10 + g^112*x^9 + g^238*x^6 + g^159*x^5 + g^6*x^3, g^99*x^192 + g^175*x^160 + g^143*x^144 + g^53*x^136 + g^195*x^132 + g^78*x^130 + g^230*x^129 + g^50*x^96 + g^158*x^80 + g^196*x^72 + g^93*x^68 + g^156*x^66 + g^40*x^65 + g^170*x^48 + g^52*x^40 + g^9*x^36 + g^110*x^34 + g^107*x^33 + g^95*x^24 + g^131*x^20 + g^254*x^18 + g^4*x^17 + g^3*x^12 + g^197*x^10 + g^142*x^9 + g^204*x^6 + g^19*x^5 + g^240*x^3, g^105*x^192 + g^25*x^160 + g^130*x^144 + g^59*x^136 + g^36*x^132 + g^174*x^130 + g^90*x^129 + g^35*x^96 + g^226*x^80 + g^231*x^72 + g^64*x^68 + g^195*x^66 + g^20*x^65 + g^179*x^48 + g^52*x^40 + g^184*x^36 + g^46*x^34 + g^172*x^33 + g^67*x^24 + g^178*x^20 + g^160*x^18 + g^108*x^17 + g^17*x^12 + g^203*x^10 + g^250*x^9 + g^84*x^6 + g^105*x^5 + g^202*x^3, g^239*x^192 + g^133*x^160 + g^202*x^144 + g^84*x^136 + g^165*x^132 + g^121*x^130 + g^217*x^129 + g^121*x^96 + g^225*x^80 + g^120*x^72 + g^179*x^68 + g^60*x^66 + g^74*x^65 + g^100*x^48 + g^248*x^40 + g^224*x^36 + g^9*x^34 + g^36*x^33 + g^120*x^24 + g^48*x^20 + g^21*x^18 + g^141*x^17 + g^221*x^12 + g^183*x^10 + g^72*x^9 + g^12*x^6 + g^5*x^5 + g^175*x^3, g^39*x^192 + g^179*x^160 + g^194*x^144 + g^94*x^136 + g^83*x^132 + g^124*x^130 + g^192*x^129 + g^14*x^96 + g^12*x^80 + g^136*x^72 + g^195*x^68 + g^168*x^66 + g^39*x^65 + g^238*x^48 + g^114*x^40 + g^252*x^36 + g^205*x^34 + g^190*x^33 + g^152*x^24 + g^95*x^20 + g^179*x^18 + g^180*x^17 + g^80*x^12 + g^107*x^10 + g^135*x^9 + g^205*x^6 + g^176*x^5 + g^36*x^3, g^113*x^192 + g^193*x^160 + g^241*x^144 + g^123*x^136 + g^190*x^132 + g^29*x^130 + g^59*x^129 + g^153*x^96 + g^213*x^80 + g^163*x^72 + g^193*x^68 + g^30*x^66 + g^138*x^65 + g^186*x^48 + g^157*x^40 + g^141*x^36 + g^31*x^34 + g^16*x^33 + g^184*x^24 + g^90*x^20 + g^214*x^18 + g^12*x^17 + g^16*x^12 + g^28*x^10 + g^91*x^9 + g^233*x^6 + g^53*x^5 + g^139*x^3, g^138*x^192 + g^115*x^160 + g^108*x^144 + g^85*x^136 + g^18*x^132 + g^166*x^130 + g^48*x^129 + g^150*x^96 + g^244*x^80 + g^248*x^72 + g^90*x^68 + g^75*x^66 + g^87*x^65 + g^159*x^48 + g^242*x^40 + g^88*x^36 + g^83*x^34 + g^93*x^33 + g^4*x^24 + g^173*x^20 + g^53*x^18 + g^71*x^17 + g^205*x^12 + g^106*x^10 + g^108*x^9 + g^156*x^6 + g^74*x^5 + g^203*x^3, g^48*x^192 + g^87*x^160 + g^92*x^144 + g^215*x^136 + g^61*x^132 + g^191*x^130 + g^253*x^129 + g^182*x^96 + g^79*x^80 + g^66*x^72 + g^104*x^68 + g^50*x^66 + g^188*x^65 + g^159*x^48 + g^209*x^40 + g^125*x^36 + g^245*x^34 + g^119*x^33 + g^138*x^24 + g^51*x^20 + g^208*x^18 + g^177*x^17 + g^172*x^12 + g^37*x^10 + g^198*x^9 + g^138*x^6 + g^93*x^5 + g^205*x^3, g^163*x^192 + g^79*x^160 + g^215*x^144 + g^156*x^136 + g^233*x^132 + g^7*x^130 + g^77*x^129 + g^183*x^96 + g^100*x^80 + g^229*x^72 + g^219*x^68 + g^34*x^66 + g^236*x^65 + g^220*x^48 + g^94*x^40 + g^239*x^36 + g^241*x^34 + g^54*x^33 + g^185*x^24 + g^164*x^20 + g^68*x^18 + g^188*x^17 + g^216*x^12 + g^128*x^10 + g^253*x^9 + g^230*x^6 + g^69*x^5 + g^23*x^3, g^191*x^192 + g^129*x^160 + g^17*x^144 + g^20*x^136 + g^152*x^132 + g^71*x^130 + g^185*x^129 + g^125*x^96 + g^108*x^80 + g^210*x^72 + g^132*x^68 + g^157*x^66 + g^101*x^65 + g^228*x^48 + g^242*x^40 + g^235*x^36 + g^206*x^34 + g^184*x^33 + g^209*x^24 + g^163*x^20 + g^99*x^18 + g^154*x^17 + g^152*x^12 + g^24*x^10 + g^111*x^9 + g^186*x^6 + g^108*x^5 + g^77*x^3, g^209*x^192 + g^152*x^160 + g^153*x^144 + g^93*x^136 + g^189*x^132 + g^122*x^130 + g^126*x^129 + g^42*x^96 + g^40*x^80 + g^182*x^72 + g^131*x^68 + g^42*x^66 + g^13*x^65 + g^24*x^48 + g^234*x^40 + g^20*x^36 + g^93*x^34 + g^241*x^33 + g^119*x^24 + g^83*x^20 + g^32*x^18 + g^247*x^17 + g^162*x^12 + g^231*x^10 + g^169*x^9 + g^212*x^6 + g^108*x^5 + g^201*x^3, g^29*x^192 + g^145*x^160 + g^158*x^144 + g^71*x^136 + g^133*x^132 + g^250*x^130 + g^195*x^129 + g^186*x^96 + g^106*x^80 + g^230*x^72 + g^151*x^68 + g^157*x^66 + g^214*x^65 + g^199*x^48 + g^70*x^40 + g^211*x^36 + g^199*x^34 + g^62*x^33 + g^105*x^24 + g^248*x^20 + g^46*x^18 + g^132*x^17 + g^102*x^12 + g^252*x^10 + g^140*x^9 + g^214*x^6 + g^53*x^5 + g^33*x^3, g^106*x^192 + g^47*x^160 + g^156*x^144 + g^146*x^136 + g^151*x^132 + g^143*x^130 + g^83*x^129 + g^43*x^96 + g^80*x^80 + g^251*x^72 + g^63*x^68 + g^131*x^66 + g^209*x^48 + g^105*x^40 + g^94*x^36 + g^181*x^34 + g^5*x^33 + g^226*x^24 + g^152*x^20 + g^27*x^18 + g^40*x^17 + g^29*x^12 + g^106*x^10 + g^252*x^9 + g^193*x^6 + g^229*x^5 + g^232*x^3, g^11*x^192 + g^224*x^160 + g^152*x^144 + g^10*x^136 + g^86*x^132 + g^112*x^130 + g^186*x^129 + g^25*x^96 + g^6*x^80 + g^173*x^72 + g^169*x^68 + g^195*x^66 + g^231*x^65 + g^210*x^48 + g^158*x^36 + g^110*x^34 + g^192*x^33 + g^168*x^24 + g^200*x^20 + g^57*x^18 + g^216*x^17 + g^219*x^12 + g^41*x^10 + g^164*x^9 + g^110*x^6 + g^12*x^5 + g^99*x^3, g^51*x^192 + g^140*x^160 + g^111*x^144 + g^204*x^136 + g^136*x^132 + g^230*x^130 + g^121*x^129 + g^212*x^96 + g^186*x^80 + g^196*x^72 + g^32*x^68 + g^147*x^66 + g^85*x^65 + g^166*x^48 + g^97*x^40 + g^43*x^36 + g^86*x^34 + g^26*x^33 + g^120*x^24 + g^219*x^20 + g^106*x^18 + g^106*x^17 + g^248*x^12 + g^201*x^10 + g^90*x^9 + g^26*x^6 + g^124*x^5 + g^169*x^3, g^209*x^192 + g^89*x^160 + g^120*x^144 + g^55*x^136 + g^120*x^132 + g^129*x^130 + g^149*x^129 + g^21*x^96 + g^35*x^80 + g^185*x^72 + g^192*x^68 + g^47*x^66 + g^104*x^65 + g^71*x^64 + g^226*x^48 + g^166*x^36 + g^173*x^34 + g^125*x^33 + g^46*x^24 + g^168*x^24 + g^183*x^24 + g^252*x^20 + g^42*x^18 + g^54*x^17 + g^250*x^12 + g^154*x^10 + g^237*x^9 + g^5*x^6 + g^141*x^5 + g^153*x^3, g^6*x^192 + g^224*x^160 + g^226*x^144 + g^43*x^136 + g^109*x^132 + g^38*x^130 + g^253*x^129 + g^161*x^96 + g^36*x^80 + g^175*x^72 + g^140*x^68 + g^211*x^66 + g^44*x^65 + g^36*x^48 + g^210*x^40 + g^64*x^36 + g^129*x^34 + g^236*x^33 + g^102*x^24 + g^124*x^20 + g^70*x^18 + g^84*x^17 + g^124*x^12 + g^128*x^10 + g^55*x^9 + g^46*x^6 + g^146*x^5 + g^239*x^3, g^225*x^192 + g^181*x^160 + g^141*x^144 + g^25*x^136 + g^154*x^132 + g^42*x^130 + g^13*x^129 + g^179*x^96 + g^43*x^80 + g^128*x^72 + g^147*x^68 + g^60*x^66 + g^213*x^65 + g^73*x^48 + g^29*x^40 + g^18*x^36 + g^35*x^34 + g^247*x^33 + g^143*x^24 + g^116*x^20 + g^9*x^18 + g^140*x^17 + g^20*x^12 + g^34*x^10 + g^88*x^9 + g^223*x^6 + g^37*x^5 + g^100*x^3, g^213*x^192 + g^115*x^160 + g^133*x^144 + g^36*x^136 + g^189*x^132 + g^36*x^130 + g^242*x^129 + g^236*x^96 + g^196*x^80 + g^180*x^72 + g^181*x^68 + g^207*x^66 + g^33*x^65 + g^21*x^48 + g^131*x^40 + g^187*x^36 + g^151*x^34 + g^206*x^33 + g^117*x^24 + g^133*x^20 + g^98*x^18 + g^87*x^17 + g^186*x^12 + g^8*x^10 + g^55*x^9 + g^213*x^6 + g^49*x^5 + g^25*x^3, g^164*x^192 + g^53*x^160 + g^98*x^144 + g^147*x^136 + g^14*x^132 + g^71*x^130 + g^140*x^129 + g^248*x^96 + g^91*x^80 + g^172*x^72 + g^203*x^68 + g^60*x^66 + g^155*x^65 + g^5*x^48 + g^98*x^40 + g^97*x^36 + g^169*x^34 + g^237*x^33 + g^235*x^24 + g^31*x^20 + g^42*x^18 + g^98*x^17 + g^138*x^12 + g^210*x^10 + g^248*x^9 + g^121*x^6 + g^33*x^5 + g^99*x^3, g^130*x^192 + g^25*x^160 + g^160*x^144 + g^185*x^136 + g^98*x^132 + g^50*x^130 + g^239*x^129 + g^229*x^96 + g^203*x^80 + g^69*x^72 + g^134*x^68 + g^149*x^66 + g^239*x^65 + g^82*x^48 + g^241*x^40 + g^153*x^36 + g^20*x^34 + g^139*x^33 + g^93*x^24 + g^76*x^20 + g^19*x^18 + g^124*x^17 + g^191*x^12 + g^212*x^10 + g^119*x^9 + g^149*x^6 + g^195*x^5 + g^241*x^3, g^133*x^192 + g^168*x^160 + g^122*x^144 + g^48*x^136 + g^185*x^132 + g^247*x^130 + g^29*x^129 + g^152*x^96 + g^51*x^80 + g^133*x^72 + g^41*x^68 + g^165*x^66 + g^39*x^64 + g^20*x^40 + g^217*x^36 + g^4*x^34 + g^84*x^33 + g^147*x^24 + g^13*x^20 + g^52*x^18 + g^69*x^17 + g^214*x^12 + g^71*x^10 + g^9*x^9 + g^41*x^6 + g^176*x^5 + g^128*x^3, g^79*x^192 + g^69*x^160 + g^62*x^144 + g^183*x^136 + g^130*x^132 + g^239*x^130 + g^69*x^129 + g^105*x^96 + g^77*x^80 + g^87*x^72 + g^194*x^68 + g^185*x^66 + g^219*x^65 + g^213*x^48 + g^104*x^40 + g^72*x^36 + g^143*x^34 + g^93*x^33 + g^x^24 + g^229*x^20 + g^232*x^18 + g^31*x^17 + g^240*x^12 + g^40*x^10 + g^209*x^9 + g^202*x^6 + g^232*x^5 + g^35*x^3, g^173*x^192 + g^57*x^160 + g^195*x^144 + g^181*x^136 + g^194*x^132 + g^44*x^130 + g^249*x^129 + g^141*x^96 + g^24*x^80 + g^62*x^72 + g^12*x^68 + g^235*x^66 + g^203*x^65 + g^101*x^48 + g^198*x^40 + g^109*x^36 + g^212*x^34 + g^200*x^33 + g^121*x^24 + g^219*x^20 + g^106*x^18 + g^106*x^17 + g^248*x^12 + g^201*x^10 + g^90*x^9 + g^26*x^6 + g^124*x^5 + g^169*x^3, g^132*x^192 + g^72*x^160 + g^159*x^144 + g^114*x^136 + g^86*x^132 + g^172*x^130 + g^84*x^129 + g^178*x^96 + g^97*x^80 + g^183*x^72 + g^129*x^68 + g^185*x^66 + g^235*x^48 + g^137*x^40 + g^46*x^36 + g^24*x^34 + g^122*x^33 + g^55*x^24 + g^245*x^20 + g^145*x^18 + g^31*x^17 + g^222*x^12 + g^50*x^10 + g^175*x^9 + g^102*x^6 + g^171*x^5 + g^80*x^3, g^223*x^192 + g^151*x^160 + g^162*x^144 + g^3*x^136 + g^125*x^132 + g^61*x^130 + g^30*x^129 + g^71*x^96 + g^242*x^80 + g^16*x^72 + g^178*x^68 + g^233*x^66 + g^129*x^65 + g^85*x^48 + g^134*x^40 + g^118*x^36 + x^34 + g^125*x^33 + g^98*x^24 + g^148*x^20 + g^59*x^18 + g^56*x^17 + g^71*x^12 + g^161*x^10 + g^157*x^9 + g^145*x^6 + g^60*x^5 + g^87*x^3, g^180*x^192 + g^113*x^160 + g^149*x^144 + g^179*x^136 + g^95*x^132 + g^73*x^130 + g^235*x^129 + g^225*x^96 + g^54*x^80 + g^201*x^72 + g^127*x^68 + g^61*x^66 + g^196*x^65 + g^133*x^48 + g^107*x^40 + g^66*x^36 + g^166*x^34 + g^73*x^33 + g^36*x^24 + g^191*x^20 + g^162*x^18 + g^233*x^17 + g^221*x^12 + g^142*x^10 + g^146*x^9 + x^6 + g^216*x^5 + g^34*x^3, g^215*x^192 + g^181*x^160 + g^134*x^144 + g^36*x^136 + g^189*x^132 + g^36*x^130 + g^234*x^129 + g^99*x^96 + g^138*x^80 + g^191*x^72 + g^48*x^68 + g^11*x^66 + g^114*x^65 + g^219*x^48 + g^162*x^40 + g^6*x^36 + g^158*x^34 + g^105*x^33 + g^73*x^24 + g^246*x^20 + g^84*x^18 + g^211*x^17 + g^155*x^12 + g^135*x^10 + g^96*x^9 + g^24*x^6 + g^90*x^5 + g^195*x^3, g^200*x^192 + g^65*x^160 + g^80*x^144 + g^148*x^136 + g^66*x^132 + g^65*x^130 + g^28*x^129 + g^234*x^96 + g^55*x^80 + g^158*x^72 + g^203*x^68 + g^170*x^66 + g^31*x^65 + g^246*x^48 + g^134*x^40 + g^3*x^36 + g^166*x^34 + g^127*x^33 + g^160*x^24 + g^113*x^20 + g^245*x^18 + g^37*x^17 + g^228*x^12 + g^135*x^10 + g^103*x^9 + g^64*x^6 + g^20*x^5 + g^43*x^3, g^110*x^192 + g^90*x^160 + g^101*x^144 + g^46*x^136 + g^42*x^132 + g^100*x^130 + g^117*x^129 + g^121*x^96 + g^244*x^80 + g^253*x^72 + g^69*x^68 + g^150*x^66 + g^241*x^65 + g^52*x^48 + g^164*x^40 + g^75*x^36 + g^100*x^34 + g^196*x^33 + g^142*x^24 + g^190*x^20 + g^239*x^18 + g^81*x^17 + g^36*x^12 + g^218*x^10 + g^70*x^9 + g^180*x^6 + g^254*x^5 + g^43*x^3, g^53*x^192 + g^246*x^160 + g^198*x^144 + g^107*x^136 + g^84*x^132 + g^218*x^130 + g^130*x^129 + g^44*x^96 + g^215*x^80 + g^173*x^72 + g^37*x^68 + g^33*x^66 + g^38*x^65 + g^162*x^48 + g^93*x^40 + g^243*x^36 + g^242*x^34 + g^25*x^33 + g^211*x^24 + g^117*x^20 + g^253*x^18 + g^5*x^17 + g^185*x^12 + g^75*x^10 + g^108*x^9 + g^73*x^6 + g^32*x^5 + g^144*x^3, g^143*x^192 + g^52*x^160 + g^161*x^144 + g^209*x^136 + g^196*x^132 + g^207*x^130 + g^83*x^129 + g^200*x^96 + g^158*x^80 + g^240*x^72 + g^240*x^68 + g^201*x^66 + g^206*x^65 + g^174*x^48 + g^165*x^40 + g^142*x^36 + g^70*x^34 + g^83*x^33 + g^114*x^24 + g^194*x^20 + g^41*x^18 + g^157*x^17 + g^38*x^12 + g^7*x^10 + g^238*x^9 + g^112*x^6 + g^104*x^5 + g^126*x^3, g^174*x^192 + g^80*x^160 + g^71*x^144 + g^23*x^136 + g^83*x^132 + g^133*x^130 + g^252*x^129 + g^118*x^96 + g^135*x^80 + g^199*x^72 + g^133*x^68 + g^268*x^66 + g^145*x^65 + g^121*x^48 + g^175*x^40 + g^141*x^36 + g^179*x^34 + g^215*x^33 + g^122*x^24 + g^150*x^20 + g^195*x^18 + g^93*x^17 + g^181*x^12 + g^197*x^10 + g^144*x^9 + g^185*x^6 + g^28*x^5 + g^114*x^3, g^7*x^192 + g^113*x^160 + g^154*x^144 + g^247*x^136 + g^35*x^132 + g^187*x^130 + g^240*x^129 + g^193*x^96 + g^38*x^80 + g^58*x^72 + g^202*x^68 + g^77*x^66 + g^123*x^65 + g^115*x^48 + g^171*x^40 + g^219*x^36 + g^137*x^34 + g^243*x^33 + g^167*x^24 + g^235*x^20 + g^232*x^18 + g^239*x^17 + g^67*x^12 + g^194*x^10 + g^90*x^9 + g^219*x^6 + g^7*x^5 + g^206*x^3, g^30*x^192 + g^92*x^160 + g^11*x^144 + g^253*x^136 + g^109*x^132 + g^159*x^130 + g^115*x^129 + g^57*x^96 + g^93*x^80 + g^x^72 + g^144*x^68 + g^140*x^66 + g^160*x^65 + g^89*x^48 + g^241*x^48 + g^183*x^36 + g^117*x^34 + g^254*x^33 + g^24*x^24 + g^237*x^20 + g^10*x^18 + g^205*x^17 + g^170*x^12 + g^23*x^10 + g^186*x^9 + g^245*x^6 + g^134*x^5 + g^73*x^3, g^16*x^192 + g^112*x^160 + g^50*x^144 + g^228*x^136 + g^216*x^132 + g^197*x^130 + g^48*x^129 + g^194*x^96 + g^181*x^80 + g^153*x^72 + g^253*x^68 + g^60*x^66 + g^91*x^65 + g^146*x^48 + g^68*x^40 + g^49*x^36 + g^42*x^34 + g^79*x^33 + g^148*x^24 + g^96*x^20 + g^75*x^18 + g^45*x^17 + g^240*x^12 + g^162*x^10 + g^63*x^9 + g^94*x^6 + g^178*x^5 + g^201*x^3, g^140*x^192 + g^4*x^160 + g^107*x^144 + g^124*x^136 + g^224*x^132 + g^119*x^130 + g^71*x^129 + g^119*x^96 + g^240*x^80 + g^10*x^72 + g^47*x^68 + g^222*x^66 + g^x^65 + g^172*x^48 + g^38*x^40 + g^189*x^36 + g^230*x^34 + g^166*x^33 + g^79*x^24 + g^225*x^20 + g^239*x^18 + g^138*x^17 + g^77*x^12 + g^56*x^10 + g^147*x^9 + g^67*x^6 + g^195*x^5 + g^92*x^3, g^26*x^192 + g^175*x^160 + g^254*x^144 + g^188*x^136 + g^127*x^132 + g^208*x^130 + g^208*x^129 + g^89*x^96 + g^172*x^80 + g^165*x^72 + g^113*x^68 + g^202*x^66 + g^131*x^65 + g^29*x^48 + g^222*x^40 + g^3*x^36 + g^17*x^34 + g^38*x^33 + g^23*x^24 + g^69*x^20 + g^41*x^18 + g^84*x^17 + g^166*x^12 + g^147*x^10 + g^167*x^9 + g^192*x^6 + g^131*x^5 + g^163*x^3, g^181*x^192 + g^241*x^160 + g^80*x^144 + g^230*x^136 + g^90*x^132 + g^84*x^130 + g^30*x^129 + g^122*x^96 + g^7*x^80 + g^52*x^72 + g^98*x^68 + g^77*x^66 + g^251*x^65 + g^221*x^48 + g^164*x^40 + g^75*x^36 + g^100*x^34 + g^196*x^33 + g^142*x^24 + g^190*x^20 + g^239*x^18 + g^81*x^17 + g^36*x^12 + g^218*x^10 + g^70*x^9 + g^180*x^6 + g^254*x^5 + g^31*x^3, g^58*x^192 + g^51*x^160 + g^60*x^144 + g^76*x^136 + g^172*x^132 + g^131*x^130 + g^173*x^129 + g^197*x^96 + g^122*x^80 + g^155*x^72 + g^120*x^68 + g^199*x^66 + g^128*x^65 + g^105*x^48 + g^103*x^40 + g^10*x^36 + g^30*x^34 + g^134*x^33 + g^48*x^24 + g^174*x^20 + g^61*x^18 + g^136*x^17 + g^160*x^12 + g^83*x^10 + g^70*x^9 + g^250*x^6 + g^26*x^5 + g^220*x^3, g^27*x^192 + x^160 + g^244*x^144 + g^112*x^136 + g^56*x^132 + g^225*x^130 + g^205*x^129 + g^9*x^96 + g^102*x^80 + g^219*x^72 + g^58*x^68 + g^225*x^66 + g^32*x^65 + g^199*x^48 + g^153*x^40 + g^249*x^36 + g^181*x^34 + g^188*x^33 + g^177*x^24 + g^221*x^20 + g^252*x^18 + g^37*x^17 + g^175*x^12 + g^41*x^10 + g^161*x^9 + g^94*x^6 + g^245*x^5 + g^96*x^3, g^185*x^192 + g^14*x^160 + g^130*x^144 + g^217*x^136 + g^89*x^132 + g^110*x^130 + g^124*x^129 + g^246*x^96 + g^85*x^80 + g^74*x^72 + g^119*x^68 + g^191*x^66 + g^18*x^65 + g^143*x^48 + g^88*x^40 + g^106*x^36 + g^160*x^34 + g^183*x^33 + g^50*x^24 + g^244*x^20 + x^18 + g^97*x^17 + g^5*x^12 + g^6*x^10 + g^138*x^9 + g^29*x^6 + g^151*x^5 + g^12*x^3, g^53*x^192 + g^238*x^160 + g^195*x^144 + g^143*x^136 + g^213*x^132 + g^12*x^130 + g^249*x^129 + g^131*x^96 + g^67*x^80 + g^248*x^72 + g^42*x^68 + g^58*x^66 + g^122*x^65 + g^63*x^48 + g^8*x^40 + g^123*x^36 + g^64*x^34 + g^246*x^33 + g^193*x^24 + g^46*x^20 + g^156*x^18 + g^55*x^17 + g^228*x^12 + g^47*x^10 + g^202*x^9 + g^137*x^6 + g^174*x^5 + g^129*x^3, g^209*x^192 + g^248*x^160 + g^6*x^144 + g^15*x^136 + g^91*x^132 + g^101*x^130 + g^217*x^129 + g^129*x^96 + g^161*x^80 + g^248*x^72 + g^223*x^68 + g^159*x^66 + g^250*x^65 + g^155*x^48 + g^197*x^40 + g^165*x^36 + g^69*x^34 + g^41*x^33 + g^27*x^24 + g^143*x^20 + g^205*x^18 + g^103*x^17 + g^87*x^12 + g^83*x^10 + g^192*x^9 + g^184*x^6 + g^26*x^5 + g^250*x^3, g^53*x^192 + g^146*x^160 + g^12*x^144 + g^61*x^136 + g^162*x^132 + g^96*x^130 + g^45*x^129 + g^232*x^96 + g^158*x^80 + g^198*x^72 + g^112*x^68 + g^79*x^66 + g^179*x^65 + g^128*x^48 + g^220*x^40 + g^34*x^36 + g^192*x^34 + g^114*x^33 + g^71*x^24 + g^29*x^20 + g^114*x^18 + g^6*x^17 + g^141*x^12 + g^205*x^10 + g^167*x^9 + g^218*x^6 + g^199*x^5 + g^54*x^3, g^153*x^192 + g^70*x^160 + g^70*x^144 + g^191*x^136 + g^36*x^132 + g^14*x^130 + g^225*x^129 + g^96*x^96 + g^9*x^80 + g^120*x^72 + g^137*x^68 + g^200*x^66 + g^172*x^65 + g^229*x^48 + g^197*x^40 + g^35*x^36 + g^197*x^3

g'230*x^192 + g'162*x^160 + g'63*x^144 + g'214*x^136 + g'76*x^132 + g'92*x^130 + g'222*x^129 + g'112*x^96 + g'234*x^80 + g'81*x^72 + g'160*x^68 + g'165*x^66 + g'81*x^65 + g'131*x^48 + g'188*x^40 + g'81*x^36 + g'11*x^34 + g'101*x^33 + g'221*x^24 + g'228*x^20 + g'20*x^18 + g'243*x^17 + g'202*x^12 + g'53*x^10 + g'6*x^9 + g'139*x^6 + g'202*x^5 + g'235*x^3, g'168*x^192 + g'100*x^160 + g'102*x^144 + g'191*x^136 + g'245*x^132 + g'209*x^130 + g'232*x^129 + g'183*x^129 + g'215*x^96 + g'218*x^80 + g'80*x^72 + g'181*x^68 + g'171*x^66 + g'194*x^65 + g'61*x^48 + g'121*x^40 + g'249*x^36 + g'136*x^34 + g'243*x^33 + g'153*x^24 + g'85*x^20 + g'87*x^18 + g'153*x^17 + g'101*x^12 + g'213*x^10 + g'81*x^9 + g'179*x^6 + g'165*x^5 + g'196*x^3, g'236*x^192 + g'192*x^160 + g'236*x^144 + g'35*x^136 + g'205*x^132 + g'205*x^130 + g'123*x^129 + g'213*x^129 + g'53*x^96 + g'214*x^72 + g'115*x^68 + g'2*x^66 + g'129*x^65 + g'31*x^48 + g'201*x^40 + g'152*x^36 + g'176*x^34 + g'138*x^33 + g'99*x^24 + g'202*x^20 + g'135*x^18 + g'188*x^17 + g'61*x^12 + g'5*x^10 + g'95*x^9 + g'25*x^6 + g'131*x^5 + g'31*x^3, g'132*x^192 + g'171*x^160 + g'180*x^144 + g'94*x^136 + g'16*x^132 + g'195*x^130 + g'62*x^129 + g'2*x^129 + g'89*x^80 + g'153*x^72 + g'222*x^68 + g'21*x^66 + g'250*x^65 + g'9*x^48 + g'126*x^40 + g'175*x^36 + g'29*x^34 + g'133*x^33 + g'25*x^24 + g'97*x^20 + g'115*x^18 + g'195*x^17 + g'121*x^12 + g'30*x^10 + g'139*x^9 + g'64*x^6 + g'128*x^5 + g'147*x^3, g'12*x^192 + g'24*x^160 + g'20*x^144 + g'198*x^136 + g'208*x^132 + g'119*x^130 + g'219*x^129 + g'12*x^80 + g'96*x^72 + g'175*x^68 + g'180*x^66 + g'176*x^65 + g'205*x^64 + g'211*x^40 + g'212*x^36 + g'248*x^34 + g'139*x^33 + g'39*x^24 + g'136*x^20 + g'107*x^17 + g'122*x^12 + g'200*x^10 + g'190*x^9 + g'213*x^6 + g'200*x^5 + g'118*x^3, g'161*x^192 + g'127*x^160 + g'224*x^144 + g'68*x^136 + g'167*x^132 + g'110*x^130 + g'211*x^129 + g'104*x^96 + g'154*x^80 + g'208*x^72 + g'162*x^68 + g'49*x^66 + g'190*x^65 + g'65*x^48 + g'34*x^40 + g'149*x^36 + g'112*x^34 + g'8*x^33 + g'139*x^24 + g'159*x^20 + g'199*x^18 + g'233*x^17 + g'53*x^12 + g'120*x^10 + g'81*x^9 + g'107*x^6 + g'37*x^5 + g'138*x^3, g'196*x^192 + g'156*x^160 + g'80*x^144 + g'117*x^136 + g'241*x^132 + g'211*x^130 + g'33*x^129 + g'38*x^96 + g'87*x^80 + g'101*x^72 + g'196*x^68 + g'23*x^66 + g'190*x^65 + g'128*x^48 + g'214*x^40 + g'93*x^36 + g'221*x^34 + g'51*x^33 + g'29*x^24 + g'212*x^20 + g'220*x^18 + g'76*x^17 + g'3*x^12 + g'189*x^10 + g'216*x^9 + g'134*x^6 + g'112*x^5 + g'44*x^3, g'49*x^192 + g'3*x^160 + g'73*x^144 + g'195*x^136 + g'109*x^132 + g'226*x^130 + g'69*x^129 + g'247*x^96 + g'149*x^80 + g'9*x^72 + g'231*x^68 + g'123*x^66 + g'95*x^65 + g'118*x^48 + g'75*x^40 + g'89*x^36 + g'207*x^34 + g'219*x^33 + g'13*x^24 + g'118*x^20 + g'147*x^18 + g'62*x^17 + g'14*x^12 + g'104*x^10 + g'219*x^9 + g'145*x^6 + g'142*x^5 + g'66*x^3, g'151*x^192 + g'115*x^160 + g'252*x^144 + g'12*x^136 + g'154*x^132 + g'78*x^130 + g'232*x^129 + g'97*x^96 + g'161*x^80 + g'182*x^72 + g'240*x^68 + g'227*x^66 + g'68*x^65 + g'201*x^48 + g'52*x^40 + g'225*x^36 + g'19*x^34 + g'238*x^33 + g'152*x^24 + g'249*x^20 + g'83*x^18 + g'96*x^17 + g'241*x^12 + g'171*x^10 + g'15*x^9 + g'81*x^6 + g'195*x^5 + g'251*x^3, g'33*x^192 + g'254*x^160 + g'129*x^144 + g'73*x^136 + g'162*x^132 + g'145*x^130 + g'135*x^129 + g'94*x^96 + g'128*x^80 + g'153*x^72 + g'221*x^68 + g'133*x^66 + g'58*x^65 + g'149*x^48 + g'195*x^40 + g'226*x^36 + g'220*x^34 + g'85*x^33 + g'67*x^24 + g'182*x^20 + g'244*x^18 + g'25*x^17 + g'129*x^12 + g'159*x^10 + g'74*x^9 + g'29*x^6 + g'21*x^5 + g'239*x^3, g'194*x^192 + g'10*x^160 + g'132*x^144 + g'188*x^136 + g'162*x^132 + g'134*x^130 + g'112*x^129 + g'84*x^96 + g'171*x^80 + g'84*x^72 + g'202*x^68 + g'140*x^66 + g'39*x^65 + g'191*x^48 + g'55*x^40 + g'165*x^36 + g'244*x^34 + g'177*x^33 + g'217*x^24 + g'208*x^20 + g'60*x^18 + g*x^17 + g'219*x^12 + g'250*x^10 + g'50*x^9 + g'140*x^6 + g'48*x^5 + g'86*x^3, g'226*x^192 + g'71*x^160 + g'105*x^144 + g'220*x^136 + g'152*x^132 + g'132*x^130 + g'15*x^129 + g'47*x^96 + x^80 + g'78*x^72 + g'91*x^68 + g'104*x^66 + g'35*x^48 + g'4*x^40 + g'219*x^36 + g'246*x^34 + g'53*x^33 + g'151*x^24 + g'229*x^20 + g'55*x^18 + g'110*x^17 + g'80*x^12 + g'50*x^10 + g'108*x^9 + g'163*x^6 + g'61*x^5 + g'44*x^3, g'254*x^192 + g'223*x^160 + g'178*x^144 + g'50*x^136 + g'229*x^132 + g'67*x^130 + g'146*x^129 + g'110*x^96 + g'182*x^80 + g'205*x^72 + g'42*x^68 + g'81*x^66 + g'71*x^65 + g'226*x^48 + g'230*x^40 + g'179*x^36 + g'75*x^34 + g'90*x^33 + g'137*x^24 + g'114*x^20 + g'148*x^18 + g'63*x^17 + g'144*x^12 + g'60*x^10 + g'51*x^9 + g'188*x^6 + g'101*x^5 + g'215*x^3, g'106*x^192 + g'77*x^160 + g'72*x^144 + g'193*x^136 + g'240*x^132 + g'72*x^130 + g'10*x^129 + g'211*x^96 + g'3*x^80 + g'165*x^72 + g'56*x^68 + g'59*x^66 + g'229*x^65 + g'31*x^48 + g'13*x^40 + g'69*x^36 + g'245*x^34 + g'105*x^33 + g'133*x^24 + g'33*x^20 + g'153*x^18 + g'208*x^17 + g'25*x^12 + g'70*x^10 + g'253*x^9 + g'188*x^6 + g'130*x^5 + g'242*x^3, g'42*x^192 + g'235*x^160 + g'72*x^144 + g'130*x^136 + g'64*x^132 + g'156*x^130 + g'169*x^129 + g'223*x^96 + g'185*x^80 + g'191*x^72 + g'250*x^68 + g'83*x^66 + g'74*x^65 + g'220*x^48 + g'158*x^40 + g'45*x^36 + g'231*x^34 + g'161*x^33 + g'15*x^24 + g'239*x^20 + g'158*x^18 + g'29*x^17 + g'44*x^12 + g'136*x^10 + g'67*x^9 + g'241*x^6 + g'90*x^5 + g'131*x^3, g'146*x^192 + g'108*x^160 + g'185*x^144 + g'49*x^136 + g'33*x^132 + g'33*x^130 + g'122*x^129 + g'241*x^96 + g'200*x^80 + g'77*x^72 + g'191*x^68 + g'128*x^66 + g'48*x^65 + g'194*x^48 + g'8*x^40 + g'219*x^36 + g'207*x^34 + g'154*x^33 + g'83*x^24 + g'71*x^20 + g'239*x^18 + g'191*x^17 + g'161*x^12 + g'75*x^10 + g'207*x^9 + g'240*x^6 + g'123*x^5 + g'245*x^3, g'55*x^192 + g'113*x^160 + g'161*x^144 + g'77*x^136 + g'8*x^132 + g'172*x^130 + g'23*x^129 + g'192*x^96 + g'194*x^80 + g'118*x^72 + g'129*x^68 + g'176*x^66 + g'211*x^65 + g'212*x^48 + g'39*x^40 + g'209*x^36 + g'31*x^34 + g'12*x^33 + g'195*x^24 + g'158*x^20 + g'163*x^18 + g'194*x^17 + g'4*x^12 + g'106*x^10 + g'147*x^9 + g'173*x^6 + g'193*x^5 + g'89*x^3, g'73*x^192 + g'89*x^160 + g'87*x^144 + g'145*x^136 + g'204*x^132 + g'24*x^130 + g'165*x^129 + g'162*x^96 + g'28*x^80 + g'114*x^72 + g'40*x^68 + g'280*x^66 + g'189*x^65 + g'236*x^48 + g'175*x^40 + g'58*x^36 + g'4*x^34 + g'117*x^33 + g'131*x^24 + g'223*x^20 + g'50*x^18 + g'90*x^17 + g'240*x^12 + g'211*x^10 + g'129*x^9 + g'213*x^6 + g'128*x^5 + g'174*x^3, g'129*x^192 + g'9*x^160 + g'70*x^144 + g'189*x^136 + g'5*x^132 + g'176*x^130 + g'163*x^129 + g'159*x^96 + g'226*x^80 + g'99*x^72 + g'244*x^68 + g'150*x^66 + g'75*x^65 + g'101*x^48 + g'252*x^40 + g'248*x^36 + g'193*x^34 + g'178*x^33 + g'29*x^24 + g'208*x^20 + g'188*x^18 + g'106*x^17 + g'62*x^12 + g'41*x^10 + g'155*x^9 + g'97*x^6 + g'218*x^5 + g'243*x^3, g'66*x^192 + g'7*x^160 + g'90*x^144 + g'20*x^136 + g'46*x^132 + g'117*x^130 + g'154*x^129 + g'45*x^96 + g'217*x^80 + g'96*x^72 + g'134*x^68 + x^66 + g'143*x^65 + g'253*x^48 + g'224*x^40 + g'23*x^36 + g'247*x^34 + g'140*x^33 + g'152*x^24 + g'159*x^20 + g'45*x^18 + g'156*x^17 + g'86*x^12 + g'121*x^10 + g'118*x^9 + g'186*x^6 + g'181*x^5 + g'98*x^3, g'214*x^192 + g'21*x^160 + g'97*x^144 + g'47*x^136 + g'21*x^132 + g'243*x^130 + g'55*x^129 + g'61*x^96 + g'45*x^80 + g'79*x^72 + g'31*x^68 + g'235*x^66 + g'193*x^65 + g'214*x^48 + g'86*x^40 + g'111*x^36 + g'8*x^34 + g'93*x^33 + g'67*x^24 + g'201*x^20 + g'205*x^18 + g'238*x^17 + g'23*x^12 + g'11*x^10 + g'18*x^9 + g'152*x^6 + g'74*x^5 + g'149*x^3, g'156*x^192 + g'27*x^160 + g'50*x^144 + g'142*x^136 + g'52*x^132 + g'87*x^130 + g'206*x^129 + g'108*x^96 + g'157*x^80 + g'56*x^72 + g'75*x^68 + g'125*x^66 + g'98*x^65 + g'237*x^48 + g'194*x^40 + g'237*x^36 + g'75*x^34 + g'87*x^33 + g'116*x^24 + g'147*x^20 + g'50*x^18 + g'145*x^17 + g'121*x^12 + g'93*x^10 + g'194*x^9 + g'48*x^6 + g'25*x^5 + g'31*x^3, g'11*x^192 + g'164*x^160 + g'97*x^144 + g'242*x^136 + g'46*x^132 + g'108*x^130 + g'65*x^129 + g'37*x^96 + g'41*x^80 + g'131*x^72 + g'233*x^68 + g'135*x^66 + g'101*x^65 + g'124*x^48 + g'163*x^40 + g'12*x^36 + g'236*x^34 + g'167*x^33 + g'221*x^24 + g'187*x^20 + g'189*x^18 + g'235*x^17 + g'174*x^12 + g'94*x^10 + g'169*x^9 + g'70*x^6 + g'118*x^5 + g'132*x^3, g'188*x^192 + g'207*x^160 + g'188*x^144 + g'124*x^136 + g'197*x^132 + g'192*x^130 + g'66*x^129 + g'237*x^96 + g'54*x^80 + g'78*x^72 + g'144*x^68 + g'130*x^66 + g'201*x^65 + g'44*x^48 + g'174*x^40 + g'202*x^36 + g'203*x^34 + g'156*x^33 + g'208*x^24 + g'202*x^20 + g'33*x^18 + g'167*x^17 + g'87*x^12 + g'228*x^10 + g'155*x^9 + g'253*x^6 + g'75*x^5 + g'85*x^3, g'211*x^192 + g'248*x^160 + g'120*x^144 + g'74*x^136 + g'47*x^132 + g'10*x^130 + g'143*x^129 + g'254*x^96 + g'200*x^80 + g'161*x^72 + g'124*x^68 + g'248*x^66 + g'26*x^65 + g'20*x^48 + g'23*x^40 + g'79*x^36 + g'52*x^34 + g'113*x^33 + g'168*x^24 + g'243*x^18 + g'41*x^17 + g'240*x^12 + g'85*x^10 + g'197*x^9 + g'254*x^6 + g'51*x^5 + g'218*x^3, g'151*x^192 + g'138*x^160 + g'205*x^144 + g'214*x^136 + g'25*x^132 + g'199*x^130 + g'7*x^129 + g'198*x^96 + g'134*x^80 + g'142*x^72 + g'37*x^68 + g'192*x^66 + g'86*x^65 + g'144*x^48 + g'120*x^40 + g'170*x^36 + g'152*x^34 + g'52*x^33 + g'143*x^24 + g'87*x^20 + g'103*x^18 + g'87*x^17 + g'232*x^12 + g'194*x^10 + g'114*x^9 + g'173*x^6 + g'193*x^5 + g'89*x^3, g'167*x^192 + g'59*x^160 + g'36*x^144 + g'149*x^136 + g'148*x^132 + g'23*x^130 + g'178*x^129 + g'63*x^96 + g'146*x^80 + g'52*x^72 + g'207*x^68 + g'36*x^66 + g'10*x^65 + g'16*x^48 + g'11*x^40 + g'105*x^36 + g'106*x^34 + g'174*x^33 + g'66*x^24 + g'121*x^20 + g'139*x^18 + g'177*x^17 + g'49*x^12 + g'53*x^10 + g'70*x^9 + g'20*x^6 + g'6*x^5 + g'154*x^3, g'237*x^192 + g'62*x^160 + g'222*x^144 + g'157*x^136 + g'102*x^132 + g'112*x^130 + g'254*x^129 + g'248*x^96 + g'235*x^80 + g'151*x^72 + g'48*x^68 + g'184*x^66 + g'75*x^65 + g'89*x^48 + g'112*x^40 + g'92*x^36 + g'127*x^34 + g'57*x^33 + g'110*x^24 + g'9*x^20 + g'192*x^18 + g'22*x^17 + g'173*x^12 + g'34*x^10 + g'58*x^9 + g'56*x^6 + g'115*x^5 + g*x^3, g'250*x^192 + g'196*x^160 + g'131*x^144 + g'10*x^136 + g'246*x^132 + g'96*x^130 + g'203*x^129 + g'51*x^96 + g'249*x^80 + g'23*x^72 + g'206*x^68 + g'219*x^66 + g'210*x^65 + g'182*x^48 + g'151*x^40 + g'76*x^36 + g'198*x^34 + g'69*x^33 + g'159*x^24 + g'227*x^20 + g'152*x^18 + g'51*x^17 + g'160*x^12 + g'146*x^10 + g'220*x^9 + g'157*x^6 + g'46*x^5 + g'101*x^3, g'209*x^192 + g'17*x^160 + g'165*x^144 + g'61*x^136 + g'2*x^132 + g'57*x^130 + g'249*x^129 + g'158*x^96 + g'104*x^80 + g'60*x^72 + g'71*x^68 + g'232*x^66 + g'171*x^66 + g'25*x^65 + g'240*x^48 + g'169*x^40 + g'28*x^36 + g'6*x^34 + g'153*x^33 + g'233*x^24 + g'7*x^20 + g'110*x^18 + g'68*x^17 + g'133*x^12 + g'148*x^10 + g'24*x^9 + g'58*x^6 + g'15*x^5 + g'220*x^3, g'52*x^192 + g'154*x^160 + g'114*x^144 + g'209*x^136 + g'222*x^132 + g'50*x^130 + g'117*x^129 + g'94*x^96 + g'212*x^80 + g'55*x^72 + g'241*x^68 + g'42*x^66 + g'235*x^65 + g'80*x^48 + g'245*x^40 + g'138*x^36 + g'145*x^34 + g'215*x^33 + g'247*x^24 + x^20 + g'89*x^18 + g'79*x^17 + g'141*x^12 + g'35*x^10 + g'46*x^9 + g'244*x^6 + g'63*x^5 + g'15*x^3, g'165*x^192 + g'53*x^160 + g'206*x^144 + g'230*x^136 + g'110*x^132 + g'239*x^130 + g'115*x^129 + g'207*x^96 + g'178*x^80 + g'158*x^72 + g'104*x^68 + g'245*x^66 + g'229*x^65 + g'40*x^48 + g'89*x^40 + g'68*x^36 + g'168*x^34 + g'222*x^33 + g'189*x^24 + g'38*x^20 + g'243*x^18 + g'159*x^17 + g'159*x^17 + g'81*x^12 + g'244*x^10 + g'2*x^9 + g'124*x^6 + g'156*x^5 + g'136*x^3, g'89*x^192 + g'125*x^160 + g'222*x^144 + g'33*x^136 + g'185*x^132 + g'206*x^130 + g'193*x^129 + g'23*x^96 + g'227*x^80 + g'18*x^72 + g'17*x^68 + g'212*x^66 + g'128*x^65 + g'234*x^48 + g'81*x^48 + g'209*x^36 + g'223*x^34 + g'93*x^33 + g'178*x^24 + g'107*x^20 + g'195*x^18 + g'73*x^17 + g'96*x^12 + g'218*x^10 + g'234*x^9 + g'222*x^6 + g'164*x^5 + g'80*x^3, g'65*x^192 + g'249*x^160 + g'88*x^144 + g'44*x^136 + g'165*x^132 + g'168*x^130 + g'214*x^129 + g'232*x^96 + g'151*x^80 + g'195*x^72 + g'149*x^68 + g'175*x^66 + g'13*x^65 + g'71*x^48 + g'94*x^40 + g'111*x^36 + g'92*x^34 + g'191*x^33 + g'47*x^24 + g'164*x^20 + g'57*x^18 + g'89*x^17 + g'132*x^12 + g'224*x^10 + g'241*x^9 + g'148*x^6 + g'248*x^5 + g'229*x^3, g'222*x^192 + g'49*x^160 + g'9*x^144 + g'252*x^136 + g'230*x^132 + g'188*x^130 + g'151*x^129 + g'144*x^96 + g'55*x^80 + g'249*x^72 + g'72*x^68 + g'54*x^66 + g'44*x^65 + g'241*x^48 + g'157*x^40 + g'39*x^36 + g'122*x^34 + g'75*x^33 + g'73*x^24 + g'163*x^20 + g'110*x^18 + g'6*x^17 + g'179*x^12 + g'27*x^10 + g'168*x^9 + g'20*x^6 + g'68*x^5 + g'65*x^3, g'22*x^192 + g'109*x^160 + g'233*x^144 + g'173*x^136 + g'208*x^132 + g'144*x^129 + g'204*x^96 + g'140*x^80 + g'64*x^72 + g'207*x^68 + g'24*x^66 + g'36*x^65 + g'27*x^48 + g'239*x^40 + g'65*x^36 + g'95*x^34 + g'177*x^33 + g'166*x^24 + g'199*x^20 + g'60*x^18 + g'201*x^17 + g'97*x^12 + g'57*x^10 + g'181*x^9 + g'85*x^6 + g'184*x^5 + g'219*x^3, g'226*x^192 + g'242*x^160 + g'158*x^144 + g'35*x^136 + g'7*x^132 + g'176*x^130 + g'219*x^129 + g'125*x^96 + g'129*x^80 + g'224*x^72 + g'169*x^68 + g'23*x^66 + g'179*x^65 + g'35*x^48 + g'158*x^40 + g'51*x^36 + g'232*x^34 + g'78*x^33 + g'25*x^24 + g'68*x^20 + g'197*x^18 + g'167*x^17 + g'135*x^12 + g'41*x^10 + g'75*x^9 + g'250*x^6 + g'233*x^5 + g'92*x^3, g'227*x^192 + g'37*x^160 + g'61*x^144 + g'129*x^136 + g'83*x^132 + g'102*x^129 + g'197*x^129 + g'183*x^80 + g'16*x^72 + g'99*x^68 + g'66*x^66 + g'122*x^65 + g'182*x^48 + g'139*x^40 + g'236*x^36 + g'159*x^34 + g'50*x^33 + g'48*x^24 + g'86*x^20 + g'55*x^18 + g'118*x^17 + g'90*x^12 + g'86*x^10 + g'201*x^9 + g'129*x^6 + g'247*x^5 + g'26*x^3, g'116*x^192 + g'6*x^160 + g'200*x^144 + g'240*x^136 + g'81*x^132 + g'105*x^130 + g'144*x^129 + g'107*x^96 + g'172*x^80 + g'20*x^72 + g'16*x^68 + g'5*x^66 + g'97*x^65 + g'89*x^48 + g'211*x^40 + g'143*x^36 + g'250*x^34 + g'52*x^33 + g'167*x^33 + g'155*x^24 + g'110*x^18 + g'68*x^17 + g'133*x^12 + g'148*x^10 + g'24*x^9 + g'58*x^6 + g'15*x^5 + g'220*x^3, g'92*x^192 + g'218*x^160 + g'76*x^144 + g'5*x^136 + g'167*x^132 + g'60*x^130 + g'111*x^129 + g'200*x^96 + g'65*x^80 + g'25*x^72 + g'40*x^68 + g'68*x^66 + g'152*x^65 + g'47*x^48 + g'41*x^40 + g'34*x^36 + g'79*x^34 + g'20*x^33 + g'52*x^24 + g'230*x^20 + g'106*x^18 + g'154*x^17 + g'43*x^12 + g'204*x^10 + g'110*x^9 + g'104*x^6 + g'131*x^5 + g'133*x^3, g'177*x^192 + g'218*x^160 + g'206*x^144 + g'238*x^136 + g'230*x^132 + g'192*x^130 + g'138*x^129 + g'122*x^96 + g'8*x^80 + g'5*x^72 + g'231*x^68 + x^66 + g'95*x^65 + g'118*x^48 + g'70*x^40 + g'187*x^36 + g'168*x^34 + g'211*x^33 + g'118*x^24 + g'219*x^20 + g'83*x^18 + g'43*x^17 + g'101*x^12 + g'85*x^10 + g'61*x^9 + g'156*x^6 + g'166*x^5 + g'42*x^3, g'13*x^192 + g'48*x^160 + g'162*x^144 + g'118*x^136 + g'8*x^132 + g'176*x^130 + g'4*x^129 + g'202*x^96 + g'8*x^80 + g'19*x^72 + g'240*x^68 + g'63*x^66 + g'97*x^65 + g'157*x^48 + g'12*x^40 + g'212*x^36 + g'224*x^34 + g'41*x^33 + g'184*x^24 + g'154*x^20 + g'96*x^18 + g'66*x^17 + g'238*x^12 + g'142*x^10 + g'46*x^9 + g'223*x^6 + g'20*x^5 + g'72*x^3, g'58*x^192 + g'248*x^160 + g'222*x^144 + g'57*x^136 + g'209*x^132 + g'233*x^130 + g'237*x^129 + g'101*x^96 + g'204*x^80 + g'164*x^72 + g'199*x^68 + g'50*x^66 + g'76*x^65 + g'163*x^48 + g'133*x^40 + g'150*x^36 + g'243*x^34 + g'68*x^33 + g'60*x^24 + g'69*x^20 + g'186*x^18 + g'63*x^17 + g'45*x^12 + g'157*x^10 + g'23*x^9 + g'201*x^6 + g'172*x^5 + g'177*x^3, g'217*x^192 + g'182*x^160 + g'250*x^144 + g'71*x^136 + g'72*x^132 + g'224*x^130 + g'117*x^129 + g'141*x^96 + g'26*x^80 + g'143*x^72 + g'112*x^68 + g'9*x^66 + g'44*x^65 + g'57*x^48 + g'155*x^40 + g'151*x^36 + g'162*x^34 + g'57*x^33 + g'70*x^24 + g'246*x^20 + g'102*x^18 + g'71*x^17 + g'181*x^12 + g'22*x^10 + g'175*x^9 + g'47*x^6 + g'154*x^5 + g'133*x^3, g'87*x^192 + g'235*x^160 + g'192*x^144 + g'165*x^136 + g'184*x^132 + g'229*x^130 + g'204*x^129 + g'55*x^96 + g'67*x^80 + g'162*x^72 + g'200*x^68 + g'242*x^66 + g'226*x^65 + g'152*x^48 + g'233*x^40 + g'186*x^36 + g'192*x^34 + g'237*x^33 + g'10*x^24 + g'150*x^20 + g'222*x^18 + g'47*x^17 + g'43*x^12 + g'74*x^10 + g'60*x^9 + g'234*x^6 + g'202*x^5 + g'94*x^3, g'36*x^192 + g'2*x^160 + g'197*x^144 + g'250*x^136 + g'154*x^132 + g'229*x^130 + g'70*x^129 + g'19*x^96 + g'228*x^80 + g'93*x^72 + g'85*x^68 + g'41*x^66 + g'101*x^65 + g'235*x^48 + g'155*x^40 + g'117*x^36 + g'202*x^34 + g'173*x^33 + g'219*x^24 + g'179*x

g'86*x'192 + g'211*x'160 + g'179*x'144 + g'173*x'136 + g'45*x'132 + g'68*x'130 + g'144*x'129 + g'82*x'96 + g'188*x'80 + g'162*x'72 + g'63*x'68 + g'120*x'66 + g'170*x'65 + g'175*x'48 + g'161*x'40 + g'152*x'36 + g'237*x'34 + g'174*x'33 + g'220*x'24 + g'13*x'20 + g'246*x'18 + g'227*x'17 + g'244*x'12 + g'241*x'10 + g'202*x'9 + g'26*x'6 + g'249*x'5 + g'24*x'3, g'220*x'192 + g'148*x'160 + g'91*x'144 + g'4*x'136 + g'28*x'132 + g'138*x'130 + g'27*x'129 + g'28*x'96 + g'5*x'80 + g'171*x'72 + g'205*x'68 + g'61*x'66 + g'95*x'65 + g'62*x'48 + g'25*x'40 + g'140*x'36 + g'128*x'34 + g'233*x'33 + g'8*x'24 + g'191*x'20 + g'222*x'10 + g'248*x'9 + g'13*x'6 + g'219*x'5 + g'132*x'3, g'14*x'192 + g'206*x'160 + g'25*x'144 + g'224*x'136 + g'237*x'132 + g'38*x'130 + g'114*x'129 + g'131*x'96 + g'43*x'80 + g'43*x'72 + g'51*x'68 + g'210*x'66 + g'165*x'65 + g'56*x'48 + g'88*x'40 + g'124*x'36 + g'64*x'34 + g'100*x'33 + g'226*x'24 + g'19*x'20 + g'43*x'18 + g'189*x'17 + g'146*x'12 + g'222*x'10 + g'134*x'9 + g'51*x'6 + g'192*x'5 + g'205*x'3, g'238*x'192 + g'74*x'160 + g'215*x'144 + g'65*x'136 + g'150*x'132 + g'232*x'130 + g'36*x'129 + g'46*x'96 + g'204*x'80 + g'92*x'72 + g'77*x'68 + g'239*x'66 + g'20*x'65 + g'224*x'48 + g'228*x'40 + g'42*x'36 + g'173*x'34 + g'123*x'33 + g'171*x'24 + g'153*x'20 + g'215*x'18 + g'118*x'17 + g'114*x'12 + g'230*x'10 + g'130*x'9 + g'16*x'6 + g'11*x'5 + g'161*x'3, g'84*x'192 + g'4*x'160 + g'61*x'144 + g'99*x'136 + g'140*x'132 + g'69*x'130 + g'44*x'129 + g'4*x'96 + g'70*x'80 + g'116*x'72 + g'119*x'68 + g'246*x'66 + g'23*x'65 + g'115*x'48 + g'16*x'40 + g'65*x'36 + g'231*x'34 + g'111*x'33 + g'202*x'24 + g'64*x'20 + g'158*x'18 + g'136*x'17 + g'240*x'12 + g'141*x'10 + g'219*x'9 + g'197*x'6 + g'123*x'5 + g'57*x'3, g'155*x'192 + g'224*x'160 + g'108*x'144 + g'155*x'136 + g'15*x'132 + g'161*x'130 + g'132*x'129 + g'141*x'96 + g'54*x'80 + g'247*x'72 + g'228*x'68 + g'235*x'66 + g'15*x'65 + g'119*x'48 + g'34*x'40 + g'234*x'36 + g'189*x'34 + g'97*x'33 + g'143*x'24 + g'140*x'20 + g'62*x'18 + g'161*x'17 + g'30*x'12 + g'22*x'10 + g'137*x'9 + g'81*x'6 + g'88*x'5 + g'254*x'3, x'192 + g'47*x'160 + g'170*x'144 + g'108*x'136 + g'169*x'132 + g'102*x'130 + g'198*x'129 + g'174*x'96 + g'227*x'80 + g'167*x'72 + g'114*x'68 + g'191*x'66 + g'92*x'65 + g'198*x'64 + g'174*x'40 + g'177*x'36 + g'222*x'34 + g'181*x'33 + g'151*x'24 + g'217*x'20 + g'230*x'18 + g'177*x'17 + g'199*x'12 + g'144*x'10 + g'233*x'9 + g'147*x'6 + g'174*x'5 + g'124*x'3, g'138*x'192 + g'42*x'160 + g'57*x'144 + g'198*x'136 + g'226*x'132 + g'2*x'130 + g'69*x'129 + g'209*x'96 + g'111*x'80 + g*x'72 + g'165*x'68 + g'236*x'66 + g'67*x'65 + g'177*x'48 + g'50*x'40 + g'137*x'36 + g'147*x'34 + g'49*x'33 + g'231*x'24 + g'177*x'20 + g'250*x'18 + g'16*x'17 + g'211*x'12 + g'243*x'10 + g'194*x'9 + g'103*x'6 + g'143*x'3, g'9*x'192 + g'138*x'160 + g'149*x'144 + g'105*x'136 + g'82*x'132 + g'79*x'130 + g'103*x'129 + g'100*x'96 + g'163*x'80 + g'40*x'72 + g'11*x'68 + g'64*x'66 + g'70*x'65 + g'97*x'48 + g'188*x'40 + g'193*x'36 + g'153*x'34 + g'34*x'33 + g'18*x'24 + g'129*x'20 + g'150*x'18 + g'114*x'17 + g'210*x'12 + g'122*x'10 + g'201*x'9 + g'79*x'6 + g'248*x'5 + g'213*x'3, g'200*x'192 + g'42*x'160 + g'31*x'144 + g'80*x'136 + g'224*x'132 + g'2*x'130 + g'250*x'129 + g'249*x'96 + g'129*x'80 + g'97*x'72 + g'227*x'68 + g'175*x'65 + g'134*x'48 + g'19*x'40 + g'16*x'36 + g'146*x'34 + g'191*x'33 + g'251*x'24 + g'141*x'20 + g'210*x'18 + g'95*x'17 + g'185*x'12 + g'62*x'10 + g'88*x'9 + g'140*x'6 + g'221*x'5 + g'47*x'3, g'230*x'192 + g'238*x'160 + g'212*x'144 + g'49*x'136 + g'69*x'132 + g'189*x'130 + g'191*x'129 + g'137*x'96 + g'180*x'80 + g'214*x'72 + g'105*x'68 + g'147*x'66 + g'30*x'65 + g'15*x'48 + g'84*x'40 + g'220*x'36 + g'182*x'34 + g'86*x'33 + g'181*x'24 + g'178*x'20 + g'185*x'18 + g'245*x'17 + g'225*x'12 + g'229*x'10 + g'160*x'9 + g'182*x'6 + g'149*x'5 + g'83*x'3, g'195*x'192 + g'186*x'160 + g'19*x'144 + g'30*x'136 + g'137*x'132 + g'104*x'130 + g'189*x'129 + g'189*x'129 + g'45*x'96 + g'21*x'80 + g'150*x'72 + g'251*x'68 + g'62*x'66 + g'115*x'65 + g'8*x'48 + g'216*x'40 + g'171*x'36 + g'29*x'34 + g'213*x'33 + g'94*x'24 + g'200*x'20 + g'53*x'18 + g'124*x'17 + g'209*x'12 + g'243*x'10 + g'30*x'9 + g'183*x'6 + g'233*x'5 + g'193*x'3, g'163*x'192 + g'99*x'160 + g'92*x'144 + g'190*x'136 + g'191*x'132 + g'183*x'130 + g'113*x'129 + g'179*x'96 + g'2*x'80 + g'179*x'72 + g'129*x'68 + g'33*x'66 + g'201*x'65 + g'247*x'48 + g'181*x'40 + g'153*x'36 + g'107*x'34 + g'70*x'33 + g'121*x'24 + g'2*x'20 + g'207*x'18 + g'28*x'17 + g'94*x'12 + g'13*x'10 + g'178*x'9 + g'160*x'6 + g'41*x'5 + g'141*x'3, g'106*x'192 + g'14*x'160 + g'16*x'144 + g'197*x'136 + g'214*x'132 + g'84*x'130 + g'223*x'129 + g'108*x'96 + g'203*x'80 + g'11*x'68 + g'27*x'66 + g'44*x'48 + g'43*x'40 + g'53*x'36 + g'63*x'34 + g'214*x'33 + g'77*x'24 + g'243*x'20 + g'146*x'18 + g'234*x'17 + g'206*x'10 + g'85*x'9 + g'134*x'6 + g'166*x'6 + g'198*x'3, g'243*x'192 + g'214*x'160 + g'190*x'144 + g'236*x'136 + g'46*x'132 + g'150*x'130 + g'43*x'129 + g'53*x'96 + g'116*x'80 + g'12*x'72 + g'244*x'68 + g'233*x'66 + g'53*x'65 + g'37*x'48 + g'107*x'40 + g'189*x'36 + g'150*x'34 + g'55*x'33 + g'250*x'24 + g'39*x'20 + g'233*x'18 + g'19*x'17 + g'95*x'12 + g'75*x'10 + g'172*x'9 + g'187*x'6 + g'178*x'5 + g'63*x'3, g'56*x'192 + g'184*x'160 + g'22*x'144 + g'132*x'136 + g'139*x'132 + g'214*x'130 + g'105*x'129 + g'79*x'96 + g'214*x'80 + g'11*x'72 + g'171*x'68 + g'147*x'68 + g'213*x'66 + g'106*x'65 + g'227*x'48 + g'57*x'40 + g'179*x'36 + g'140*x'33 + g'143*x'24 + g'36*x'20 + g'56*x'18 + g'125*x'17 + g'75*x'12 + g'175*x'10 + g'154*x'9 + g'36*x'6 + g'122*x'5 + g'52*x'3, g'246*x'192 + g'75*x'160 + g'119*x'144 + g'218*x'136 + g'132*x'132 + g'151*x'130 + g'64*x'129 + g'197*x'96 + g'166*x'80 + g'63*x'72 + g'16*x'68 + g'169*x'66 + g'18*x'65 + g'63*x'48 + g'76*x'40 + g'63*x'36 + g'225*x'34 + g'75*x'33 + g'240*x'24 + g'115*x'20 + g'119*x'18 + g'93*x'17 + g'191*x'12 + g'146*x'10 + g'248*x'9 + g'218*x'6 + g'85*x'5 + g'189*x'3, g'54*x'192 + g'214*x'160 + g'127*x'144 + g'8*x'136 + g'3*x'132 + g'134*x'130 + g'155*x'129 + g'230*x'96 + g'109*x'80 + g'171*x'72 + g'182*x'68 + g'189*x'66 + g'166*x'65 + g'197*x'48 + g'208*x'40 + g'2*x'36 + g'201*x'34 + g'57*x'33 + g'247*x'24 + g'179*x'20 + g'249*x'18 + g'27*x'17 + g'123*x'12 + g'32*x'10 + g'198*x'9 + g'68*x'6 + g'196*x'5 + g'87*x'3, g'143*x'192 + g'11*x'160 + g'15*x'144 + g'70*x'136 + g'243*x'132 + g'104*x'130 + g'104*x'129 + g'191*x'96 + g'206*x'80 + g'72*x'72 + g'176*x'68 + g'185*x'66 + g'88*x'66 + g'51*x'65 + g'236*x'48 + g'90*x'40 + g'19*x'36 + g'65*x'34 + g'198*x'33 + g'234*x'24 + g'251*x'20 + g'244*x'18 + g'169*x'17 + g'93*x'12 + g'217*x'10 + g'132*x'9 + g'185*x'6 + g'168*x'5 + g'21*x'3, g'10*x'192 + g'185*x'160 + g'151*x'144 + g'227*x'136 + g'108*x'132 + g'57*x'130 + g'241*x'129 + g'65*x'96 + g'221*x'80 + g*x'72 + g'49*x'68 + g'160*x'66 + g'189*x'65 + g'235*x'48 + g'130*x'40 + g'250*x'36 + g'16*x'34 + g'232*x'33 + g'43*x'24 + g'38*x'20 + g'148*x'18 + g*x'17 + g'188*x'12 + g'133*x'10 + g'220*x'9 + g'146*x'6 + g'73*x'5 + g'84*x'3, g'136*x'192 + g'16*x'160 + g'135*x'144 + g'220*x'136 + g'224*x'132 + g'201*x'130 + g'193*x'129 + g'212*x'96 + g'13*x'80 + g'65*x'72 + g'118*x'68 + g'244*x'66 + g'175*x'65 + g'161*x'48 + g'216*x'40 + g'187*x'36 + g'146*x'34 + g'116*x'33 + g'235*x'24 + g'175*x'20 + g'219*x'18 + g'23*x'12 + g'178*x'10 + g'232*x'9 + g'247*x'6 + g'132*x'5 + g'58*x'3, g'88*x'192 + g'127*x'160 + g'49*x'144 + g'6*x'136 + g'57*x'132 + g'145*x'130 + g'142*x'129 + g'38*x'96 + g'175*x'80 + g'128*x'72 + g'64*x'68 + g'107*x'66 + g'18*x'65 + g'18*x'48 + g'243*x'40 + g'212*x'36 + g'120*x'34 + g'182*x'33 + g'224*x'24 + g'2*x'20 + g'146*x'18 + g'161*x'17 + g'94*x'12 + g'223*x'10 + g'203*x'9 + g'239*x'6 + g'33*x'5 + g'38*x'3, g'246*x'192 + g'13*x'160 + g'147*x'144 + g'158*x'136 + g'116*x'132 + g'223*x'130 + g'151*x'130 + g'246*x'96 + g'133*x'80 + g'232*x'72 + g'61*x'68 + g'23*x'66 + g'20*x'65 + g'90*x'48 + g'100*x'40 + g'142*x'36 + g'228*x'34 + g'203*x'33 + g'100*x'24 + g'209*x'20 + g'251*x'18 + g'221*x'17 + g'167*x'12 + g'174*x'10 + g'103*x'9 + g'160*x'6 + g'69*x'5 + g'96*x'3, g'71*x'192 + g'192*x'160 + g'74*x'144 + g*x'136 + g'135*x'132 + g'62*x'130 + g'243*x'129 + g'218*x'96 + g'65*x'80 + g'126*x'72 + g'77*x'68 + g'116*x'66 + g'218*x'65 + g'220*x'48 + g'174*x'40 + g'187*x'36 + g'219*x'34 + g'89*x'33 + g'146*x'24 + g'133*x'20 + g'250*x'18 + g'86*x'17 + g'45*x'12 + g'147*x'10 + g'4*x'9 + g'65*x'6 + g'176*x'5 + g'53*x'3, g'154*x'192 + g'95*x'160 + g'28*x'144 + g'230*x'136 + g'146*x'132 + g'62*x'130 + g'243*x'129 + g'134*x'96 + g'27*x'80 + g'7*x'72 + g'144*x'68 + g'138*x'66 + g'169*x'65 + g'218*x'48 + g'134*x'40 + g'187*x'36 + g'241*x'36 + g'77*x'34 + g'134*x'33 + g'70*x'24 + g'133*x'20 + g'211*x'18 + g'36*x'17 + g'31*x'12 + g'205*x'10 + g'231*x'9 + g'152*x'6 + g'119*x'5 + g'171*x'3, g'8*x'192 + g'84*x'160 + g'12*x'144 + g'220*x'136 + g'207*x'132 + g'228*x'130 + g'55*x'129 + g'116*x'96 + g'236*x'80 + g'114*x'72 + g'127*x'68 + g'66 + g'222*x'48 + g'159*x'48 + g'99*x'40 + g'143*x'36 + g'141*x'34 + g'187*x'33 + g'210*x'24 + g'46*x'20 + g'205*x'18 + g'221*x'17 + g'122*x'12 + g'247*x'10 + g'237*x'9 + g'54*x'6 + g'114*x'5 + g'172*x'3, g'207*x'192 + g'68*x'160 + g'56*x'136 + g'49*x'132 + g'88*x'130 + g'73*x'129 + g'253*x'96 + g'129*x'80 + g'74*x'72 + g'57*x'68 + g'140*x'66 + g'223*x'66 + g'148*x'66 + g'239*x'48 + g'118*x'36 + g'185*x'36 + g'194*x'34 + g'57*x'33 + g'247*x'24 + g'118*x'20 + g'103*x'18 + g'186*x'17 + g'110*x'12 + g'166*x'10 + g'102*x'9 + g'203*x'6 + g'88*x'5 + g'131*x'3, g'143*x'192 + g'165*x'160 + g'31*x'144 + g'70*x'136 + g'243*x'132 + g'69*x'130 + g'127*x'129 + g'150*x'96 + g'32*x'80 + g'22*x'72 + g'120*x'68 + g'88*x'66 + g'51*x'65 + g'236*x'48 + g'90*x'40 + g'19*x'36 + g'65*x'34 + g'198*x'33 + g'234*x'24 + g'251*x'20 + g'244*x'18 + g'169*x'17 + g'93*x'12 + g'217*x'10 + g'132*x'9 + g'185*x'6 + g'168*x'5 + g'21*x'3, g'242*x'192 + g'119*x'160 + g'168*x'144 + g'149*x'136 + g'66*x'132 + g'250*x'130 + g'134*x'129 + g'75*x'96 + g'69*x'80 + g'84*x'72 + g'87*x'68 + g'122*x'66 + g'22*x'65 + g'197*x'48 + g'195*x'40 + g'244*x'36 + g'41*x'34 + g'250*x'33 + g'246*x'24 + g'159*x'20 + g'92*x'18 + g'237*x'17 + g'209*x'12 + g'84*x'10 + g'133*x'9 + g'228*x'6 + g'16*x'5 + g'47*x'3, g'192*x'192 + g'163*x'160 + g'177*x'144 + g'144*x'136 + g'214*x'132 + g'195*x'130 + g'163*x'129 + g'225*x'96 + g'106*x'80 + g'243*x'72 + g'154*x'68 + g'233*x'66 + g'19*x'65 + g'16*x'48 + g'211*x'40 + g'81*x'36 + g'173*x'34 + g'93*x'33 + g'39*x'24 + g'137*x'20 + g'72*x'18 + g'186*x'17 + g'171*x'12 + g'146*x'10 + g'178*x'9 + g'118*x'6 + g'51*x'5 + g'42*x'3, g'187*x'192 + g'250*x'160 + g'240*x'144 + g'74*x'136 + g'42*x'132 + g'34*x'130 + g'196*x'129 + g'29*x'96 + g'62*x'80 + g'61*x'72 + g'158*x'68 + g'207*x'66 + g'173*x'65 + g'108*x'48 + g'234*x'40 + g'222*x'36 + g'34*x'34 + g'47*x'33 + g'106*x'24 + g'189*x'20 + g'54*x'18 + g'56*x'17 + g'111*x'12 + g'144*x'10 + g'18*x'9 + g'253*x'6 + g'147*x'5 + g'102*x'3, g'9*x'192 + g'102*x'160 + g'30*x'144 + g'74*x'136 + g'167*x'132 + g'3*x'130 + g'140*x'129 + g'48*x'96 + g'40*x'80 + g'130*x'72 + g'42*x'68 + g'42*x'66 + g'63*x'65 + g'238*x'48 + g'33*x'40 + g'229*x'36 + g'203*x'34 + g'220*x'33 + g'238*x'24 + g'90*x'20 + g'86*x'18 + g'10*x'17 + g'23*x'12 + g'202*x'10 + g'199*x'9 + g'153*x'6 + g'40*x'5 + g'112*x'3, g'243*x'192 + g'123*x'160 + g'145*x'144 + g'215*x'136 + g'42*x'132 + g'45*x'130 + g'236*x'129 + g'48*x'96 + g'231*x'80 + g'13*x'72 + g'237*x'68 + g'76*x'66 + g'69*x'65 + g'172*x'48 + g'26*x'40 + g'51*x'36 + g'247*x'34 + g'47*x'33 + g'29*x'20 + g'93*x'18 + g'172*x'17 + g'38*x'12 + g'192*x'10 + g'174*x'9 + g'71*x'6 + g'120*x'5 + g'89*x'3, g'223*x'192 + x'160 + g'78*x'144 + g'15*x'136 + g'212*x'132 + g'48*x'130 + g'104*x'129 + g'183*x'96 + g'87*x'80 + g'84*x'72 + g'79*x'68 + g'136*x'66 + g'211*x'65 + g'206*x'48 + g'87*x'40 + g'66*x'36 + g'62*x'34 + g'131*x'33 + g'237*x'24 + g'143*x'20 + g'183*x'18 + g'22*x'17 + g'16*x'12 + g'15*x'10 + g'147*x'9 + g'94*x'6 + g'86*x'5 + g'153*x'3, g'93*x'192 + g'192*x'160 + g'238*x'144 + g'246*x'136 + g'53*x'132 + g'105*x'130 + g'182*x'129 + g'94*x'96 + g'216*x'80 + g'201*x'72 + g'42*x'68 + g'216*x'66 + g'171*x'65 + g'10*x'48 + g'203*x'40 + g'77*x'34 + g'3*x'33 + g'131*x'24 + g'228*x'20 + g'241*x'18 + g'160*x'17 + g'159*x'12 + g'139*x'10 + g'193*x'9 + g'24*x'6 + g'38*x'5 + g'105*x'3, g'68*x'192 + g'89*x'160 + g'112*x'144 + g'115*x'136 + g'252*x'132 + g'44*x'130 + g'140*x'129 + g'141*x'96 + g'117*x'80 + g'249*x'72 + g'220*x'68 + g'118*x'66 + g'124*x'65 + g'43*x'48 + g'218*x'40 + g'24*x'36 + g'49*x'34 + g'129*x'33 + g'180*x'24 + g'54*x'20 + g'52*x'18 + g'186*x'17 + g'82*x'12 + g'140*x'10 + g'133*x'9 + g'149*x'6 + g'24*x'5 + g*x'3, g'129*x'192 + g'212*x'160 + g'249*x'144 + g'174*x'136 + g'62*x'132 + g'144*x'130 + g'151*x'129 + g'228*x'96 + g'147*x'80 + g'127*x'72 + g'175*x'68 + g'248*x'66 + g'85*x'65 + g'65*x'48 + g'32*x'40 + g'66*x'36 + g'95*x'34 + g'204*x'33 + g'84*x'24 + g'14*x'20 + g'163*x'18 + g'61*x'17 + g'137*x'12 + g'77*x'10 + g'79*x'9 + g'182*x'6 + g'164*x'5 + g'20*x'3, g'102*x'192 + g'55*x'160 + g'87*x'144 + g'154*x'136 + g'191*x'132 + g'85*x'130 + g'117*x'129 + g'113*x'96 + g'227*x'80 + g'76*x'72 + g'167*x'68 + g'105*x'66 + g'70*x'65 + g'217*x'48 + g'141*x'40 + g'248*x'36 + g'218*x'34 + g'173*x'33 + g'184*x'24 + g'13*x'20 + g'74*x'18 + g'26*x'17 + g'46*x'12 + g'42*x'10 + g'159*x'9 + g'37*x'6 + g'64*x'5 + g'162*x'3, g'55*x'192 + g'244*x'160 + g'88*x'144 + g'30*x'136 + g'25*x'132 + g'254*x'130 + g'171*x'129 + g'115*x'96 + g'144*x'80 + g'128*x'72 + g'173*x'68 + g'172*x'66 + g'135*x'65 + g'105*x'48 + g'121*x'40 + g'70*x'36 + g'250*x'34 + g'245*x'33 + g'184*x'24 + g'194*x'20 + g'33*x'18 + g'155*x'17 + g'219*x'12 + g'143*x'10 + g'88*x'9 + g'89*x'6 + g'114*x'5 + g'233*x'3, g'208*x'192 + g'59*x'160 + g'98*x'144 + g'182*x'136 + g'83*x'132 + g'211*x'130 + g'121*x'129 + g'149*x'96 + g'185*x'80 + g'154*x'72 + g'219*x'68 + g'215*x'66 + g'71*x'65 + g'45*x'48 + g'246*x'40 + g'148*x'36 + g'88*x'34 + g'188*x'33 + g'239*x'24 + g'209*x'20 + g'6*x'18 + g'154*x'17 + g'219*x'12 + g'199*x'10 + g'200*x'9 + g'27*x'6 + g'151*x'5 + g'236*x'3, g'134*x'192 + g'238*x'160 + g'115*x'144 + g'21*x'136 + g'174*x'132 + g'243*x'130 + g'153*x'129 + g'42*x'96 + g'25*x'80 + g'119*x'72 + g'222*x'68 + g'248*x'66 + g'19*x'65 + g'57*x'48 + g'95*x'40 + g'175*x'36 + x'34 + g'135*x'33 + g'154*x'24 + g'153*x'20 + g'194*x'18 + g'47*x'17 + g'13*x'12 + g'95*x'10 + g'32*x'9 + g'132*x'6 + g'81*x'5 + g'83*x'3, g'155*x'192 + g'200*x'160 + g'35*x'144 + g'109*x'136 + g'194*x'132 + g'95*x'130 + g'246*x'129 + g'117*x'96 + g'217*x'80 + g'179*x'72 + g'200*x'68 + g'111*x'66 + g'134*x'65 + g'108*x'48 + g'241*x'40 + g'188*x'36 + g'204*x'34 + g'150*x'33 + g'167*x'24 + g'152*x'20 + g'125*x'18 + g'30*x'17 + g'253*x'12 + g'173*x'10 + g'207*x'9 + g'165*x'6 + g'117*x'5 + g'225*x'3, g'51*x'192 + g'47*x'160 + g'229*x'144 + g'193*x'136 + g'46*x'132 + g'145*x'130 + g'57*x'129 + g'110*x'96 + g'150*x'80 + g'166*x'72 + g'94*x'68 + g'117*x'66 + g'152*x'65 + g'189*x'48 + g'229*x'40 + g'106*x'36 + g'152*x'34 + g'44*x'33 + g'145*x'24 + g'131*x'20 + g'89*x'18 + g'212*x'17 + g'82*x'12 + g'6*x'10 + g'58*x'9 + g'188*x'6 + g'2*x'5 + g'169*x'3, g'143*x'192 + g'241*x'160 + g'191*x'144 + g'112*x'136 + g'222*x'132 + g'37*x'130 + g'74*x'129 + g'191*x'96 + g'212*x'80 + g'75*x'72 + g'235*x'68 + g'252*x'66 + g'55*x'65 + g'121*x'48 + g'74*x'40 + g'110*x'36 + g'38*x'34 + g'173*x'33 + g'6*x'24 + g'211*x'20 + g'32*x'18 + g'163*x'17 + g'90*x'12 + g'100*x'10 + g'146*x'9 + g'83*x'6 + g'131*x'5 + g'228*x'3, g'191*x'192 + g'215*x'160 + g'136*x'144 + g'171*x'136 + g'232*x'132 + g'96*x'130 + g'173*x'129 + g'160*x'96 + g'101*x'80 + g'209*x'72 + g'248*x'68 + g'25*x'66 + g'32*x'65 + g'233*x'48 + g'141*x'40 + g'188*x'36 + g'132*x'34 + g'102*x'33 + g'149*x'24 + g'5*x'20 + g'225*x'18 + g'186*x'17 + g'126*x'12 + g'227*x'10 + g'72*x'9 + g'250*x'6 + g'61*x'5 + g'197*x'3, g'146*x'192 + g'54*x'160 + g'218*x'144 + g'70*x'136 + g'15*x'132 + g'2*x'130 + g*x'129 + g'5*x'96 + g'35*x'80 + g'55*x'72 + g'161*x'68 + g'248*x'66 + g'99*x'65 + g'69*x'48 + g'73*x'40 + g'251*x'36 + g'248*x'34 + g'174*x'33 + g'190*x'24 + g'45*x'20 + g'130*x'18 + g'181*x'1

g`27*x`192 + g`254*x`160 + g`217*x`144 + g`223*x`136 + g`45*x`132 + g`82*x`130 + g`130*x`129 + g`124*x`96 + g`254*x`80 + g`219*x`72 + g`20*x`68 + g`153*x`66 + g`39*x`48 + g`7*x`40 + g`236*x`36 + g`233*x`34 + g`9*x`33 + g`61*x`24 + g`189*x`20 + g`150*x`18 + g`70*x`17 + g`4*x`12 + g`23*x`10 + g`120*x`9 + g`56*x`6 + g`227*x`5 + g`12*x`3, g`76*x`192 + g`204*x`160 + g`207*x`144 + g`169*x`136 + g`144*x`132 + g`14*x`130 + g`52*x`129 + g`77*x`96 + g`195*x`80 + g`5*x`72 + g`40*x`68 + g`139*x`66 + g`125*x`66 + g`178*x`48 + g`72*x`40 + g`240*x`36 + g`193*x`34 + g`87*x`24 + g`212*x`20 + g`192*x`18 + g`205*x`17 + g`200*x`16 + g`77*x`15 + g`55*x`9 + g`70*x`6 + g`61*x`5 + g`36*x`3, g`83*x`192 + g`128*x`160 + g`79*x`144 + g`184*x`136 + g`255*x`132 + g`174*x`130 + g`196*x`129 + g`158*x`96 + g`107*x`80 + g`15*x`72 + g`147*x`68 + g`48*x`66 + g`68*x`65 + g`62*x`48 + g`214*x`40 + g`137*x`36 + g`45*x`33 + g`108*x`24 + g`151*x`24 + g`187*x`12 + g`120*x`10 + g`29*x`9 + g`204*x`6 + g`76*x`5 + g`229*x`3, g`108*x`192 + g`170*x`160 + g`17*x`144 + g`212*x`136 + g`252*x`132 + g`191*x`130 + g`227*x`129 + g`95*x`96 + g`175*x`80 + g`221*x`72 + g`68*x`68 + g`46*x`66 + g`80*x`65 + g`74*x`48 + g`7*x`40 + g`87*x`36 + g`116*x`34 + g`199*x`33 + g`242*x`24 + g`114*x`20 + g`195*x`18 + g`129*x`17 + g`102*x`12 + g`7*x`10 + g`28*x`9 + g`217*x`6 + g`218*x`5 + g`109*x`3, g`197*x`192 + g`251*x`160 + g`202*x`144 + g`165*x`136 + g`56*x`132 + g`191*x`130 + g`87*x`129 + x`96 + g`35*x`80 + g`105*x`72 + g`28*x`68 + g`197*x`66 + g`97*x`65 + g`135*x`48 + g`205*x`40 + g`200*x`36 + g`21*x`34 + g`205*x`33 + g`247*x`24 + g`250*x`20 + g`250*x`18 + g`97*x`17 + g`31*x`12 + g`96*x`10 + g`37*x`9 + g`159*x`6 + g`189*x`5 + g`191*x`3, g`221*x`192 + g`141*x`160 + g`222*x`144 + g`237*x`136 + g`26*x`132 + g`111*x`130 + g`x`129 + g`219*x`96 + g`217*x`80 + g`120*x`72 + g`84*x`68 + g`196*x`66 + g`79*x`65 + g`76*x`48 + g`140*x`40 + g`189*x`36 + g`233*x`34 + g`7*x`33 + g`254*x`24 + g`2*x`20 + g`176*x`18 + g`206*x`17 + g`56*x`12 + g`104*x`10 + g`61*x`9 + g`91*x`6 + g`14*x`5 + g`12*x`3, g`161*x`192 + g`163*x`160 + g`84*x`144 + g`213*x`136 + g`12*x`132 + g`226*x`130 + g`77*x`129 + g`58*x`96 + g`179*x`80 + g`102*x`72 + g`205*x`68 + g`43*x`66 + g`235*x`65 + g`169*x`48 + g`51*x`40 + g`82*x`36 + g`167*x`34 + g`180*x`33 + g`6*x`24 + g`237*x`20 + g`37*x`18 + g`78*x`17 + g`43*x`12 + g`250*x`10 + g`45*x`9 + g`215*x`6 + g`8*x`5 + g`62*x`3, g`51*x`192 + g`12*x`160 + g`252*x`144 + g`250*x`136 + g`153*x`132 + g`50*x`130 + x`129 + g`96*x`96 + g`12*x`80 + g`144*x`72 + g`97*x`68 + g`119*x`66 + g`238*x`65 + g`93*x`48 + g`242*x`40 + g`94*x`36 + g`24*x`34 + g`150*x`33 + g`160*x`24 + g`47*x`20 + g`108*x`18 + g`253*x`17 + g`135*x`12 + g`92*x`10 + g`64*x`9 + g`145*x`6 + g`151*x`5 + g`109*x`3, g`229*x`192 + g`248*x`160 + g`74*x`144 + g`168*x`136 + g`179*x`132 + g`70*x`130 + g`202*x`129 + g`126*x`96 + g`119*x`80 + g`158*x`72 + g`81*x`68 + g`187*x`66 + g`149*x`65 + g`43*x`48 + g`122*x`40 + g`78*x`36 + g`129*x`34 + g`238*x`33 + g`122*x`24 + g`206*x`20 + g`200*x`18 + g`201*x`17 + g`189*x`12 + g`224*x`10 + g`85*x`9 + g`123*x`6 + g`227*x`5 + g`46*x`3, g`223*x`192 + g`24*x`160 + g`27*x`144 + g`125*x`136 + g`73*x`132 + g`145*x`130 + g`193*x`129 + g`107*x`96 + g`228*x`80 + g`240*x`72 + g`224*x`68 + g`184*x`66 + g`241*x`65 + g`105*x`48 + g`16*x`40 + g`72*x`36 + g`34*x`34 + g`88*x`36 + g`37*x`33 + g`53*x`24 + g`153*x`20 + g`118*x`18 + g`59*x`17 + g`29*x`12 + g`247*x`10 + g`199*x`9 + g`149*x`6 + g`253*x`5 + g`212*x`3, g`80*x`192 + g`99*x`160 + g`33*x`144 + g`169*x`136 + g`243*x`132 + g`99*x`130 + g`220*x`129 + g`185*x`96 + g`119*x`80 + g`108*x`72 + g`184*x`68 + g`190*x`66 + g`182*x`65 + g`254*x`48 + g`112*x`40 + g`248*x`36 + g`188*x`34 + g`174*x`33 + g`193*x`24 + g`89*x`20 + g`61*x`18 + g`193*x`17 + g`195*x`12 + g`143*x`10 + g`170*x`9 + g`34*x`6 + g`116*x`5 + g`250*x`3, g`185*x`192 + g`169*x`160 + g`122*x`144 + g`23*x`136 + g`77*x`132 + g`157*x`130 + g`x`129 + g`10*x`96 + g`191*x`80 + g`141*x`72 + g`178*x`68 + g`187*x`66 + g`156*x`48 + g`17*x`40 + g`9*x`36 + g`134*x`34 + g`251*x`33 + g`129*x`24 + g`179*x`20 + g`17*x`18 + g`155*x`17 + g`11*x`12 + g`185*x`10 + g`85*x`9 + g`167*x`6 + g`30*x`5 + g`20*x`3, g`64*x`192 + g`52*x`160 + g`130*x`144 + g`169*x`136 + g`80*x`132 + g`27*x`130 + g`108*x`129 + g`145*x`96 + g`205*x`80 + g`31*x`72 + g`164*x`68 + g`132*x`66 + g`52*x`65 + g`106*x`48 + g`145*x`40 + g`128*x`36 + g`53*x`34 + g`191*x`33 + g`174*x`24 + g`116*x`20 + g`26*x`18 + g`221*x`17 + g`168*x`12 + g`160*x`10 + g`184*x`9 + g`245*x`6 + g`26*x`5 + g`111*x`3, g`77*x`192 + g`243*x`160 + g`185*x`144 + g`14*x`136 + g`44*x`132 + g`214*x`130 + g`153*x`129 + g`168*x`96 + g`24*x`80 + g`16*x`72 + g`147*x`68 + g`242*x`66 + g`86*x`65 + g`78*x`48 + g`189*x`40 + g`203*x`36 + g`73*x`34 + g`49*x`33 + g`156*x`24 + g`67*x`20 + g`247*x`18 + g`7*x`17 + g`149*x`12 + g`82*x`10 + g`43*x`9 + g`231*x`6 + g`76*x`5 + g`114*x`3, g`83*x`192 + g`24*x`160 + g`8*x`144 + g`249*x`136 + g`198*x`132 + g`5*x`130 + g`43*x`129 + g`22*x`96 + g`245*x`80 + g`97*x`72 + g`221*x`68 + g`54*x`66 + g`186*x`65 + g`195*x`48 + g`56*x`40 + g`217*x`36 + g`211*x`34 + g`55*x`33 + g`223*x`24 + g`113*x`20 + g`228*x`18 + g`51*x`17 + g`50*x`12 + g`241*x`10 + g`128*x`9 + g`196*x`6 + g`233*x`5 + g`66*x`3, g`239*x`192 + g`46*x`160 + g`132*x`144 + g`220*x`136 + g`209*x`132 + g`240*x`130 + g`93*x`129 + g`102*x`96 + g`166*x`80 + g`115*x`72 + g`241*x`68 + g`54*x`66 + g`144*x`65 + g`132*x`48 + g`157*x`40 + g`246*x`36 + g`216*x`34 + g`175*x`33 + g`238*x`24 + g`32*x`20 + g`7*x`18 + g`246*x`17 + g`237*x`12 + g`246*x`10 + g`210*x`9 + g`46*x`6 + g`248*x`5 + g`211*x`3, g`141*x`192 + g`25*x`160 + g`164*x`144 + g`125*x`136 + g`76*x`132 + g`211*x`130 + g`145*x`129 + g`46*x`96 + g`211*x`80 + g`249*x`72 + g`86*x`68 + g`209*x`66 + g`208*x`65 + g`101*x`48 + g`92*x`40 + g`200*x`36 + g`82*x`34 + g`200*x`33 + g`108*x`24 + g`7*x`20 + g`53*x`18 + g`139*x`17 + g`66*x`12 + g`117*x`10 + g`22*x`9 + g`17*x`6 + g`49*x`5 + g`81*x`3, g`252*x`192 + g`233*x`160 + g`9*x`144 + g`85*x`136 + g`51*x`132 + g`202*x`130 + g`139*x`129 + g`146*x`96 + g`218*x`80 + g`229*x`72 + g`210*x`68 + g`76*x`66 + g`151*x`65 + g`212*x`48 + g`231*x`40 + g`2*x`36 + g`250*x`34 + g`211*x`33 + g`209*x`24 + g`97*x`20 + g`64*x`18 + g`108*x`17 + g`149*x`12 + g`39*x`10 + g`19*x`9 + g`166*x`6 + g`25*x`5 + g`22*x`3, g`167*x`192 + g`176*x`160 + g`69*x`144 + g`123*x`136 + g`36*x`132 + g`168*x`130 + g`171*x`129 + g`84*x`96 + g`123*x`80 + g`92*x`72 + g`211*x`68 + g`164*x`66 + g`105*x`65 + g`64*x`48 + g`34*x`40 + g`88*x`36 + g`37*x`33 + g`53*x`24 + g`153*x`20 + g`118*x`18 + g`59*x`17 + g`29*x`12 + g`247*x`10 + g`207*x`9 + g`149*x`6 + g`34*x`5, g`57*x`192 + g`217*x`160 + g`187*x`144 + g`88*x`136 + g`81*x`132 + g`x`130 + g`220*x`129 + g`250*x`96 + g`239*x`80 + g`51*x`72 + g`77*x`68 + g`67*x`66 + g`201*x`65 + g`195*x`48 + g`140*x`40 + g`62*x`36 + g`101*x`34 + g`130*x`33 + g`244*x`24 + g`8*x`20 + g`194*x`18 + g`91*x`17 + g`53*x`12 + g`230*x`10 + g`141*x`9 + g`99*x`6 + g`138*x`5 + g`109*x`3, g`171*x`192 + g`134*x`160 + g`20*x`144 + g`193*x`136 + g`170*x`132 + g`167*x`130 + g`129*x`129 + g`95*x`96 + g`246*x`80 + g`43*x`72 + g`188*x`68 + g`170*x`66 + g`230*x`65 + g`44*x`48 + g`8*x`40 + g`201*x`36 + g`51*x`34 + g`144*x`33 + g`78*x`24 + g`231*x`20 + g`142*x`18 + g`76*x`12 + g`67*x`12 + g`229*x`10 + g`35*x`9 + g`230*x`6 + g`233*x`5 + g`x`3, g`137*x`192 + g`108*x`160 + g`214*x`144 + g`21*x`136 + g`149*x`132 + g`165*x`130 + g`128*x`129 + g`11*x`96 + g`47*x`80 + g`25*x`72 + g`166*x`68 + g`239*x`66 + g`105*x`65 + g`22*x`48 + g`231*x`36 + g`235*x`34 + g`204*x`33 + g`136*x`24 + g`21*x`20 + g`2*x`18 + g`170*x`17 + g`241*x`12 + g`103*x`10 + g`209*x`9 + g`32*x`6 + g`182*x`5 + g`48*x`3, g`173*x`192 + g`163*x`160 + g`111*x`144 + g`200*x`136 + g`160*x`132 + g`188*x`130 + g`243*x`129 + g`242*x`96 + g`56*x`80 + g`144*x`72 + g`140*x`68 + g`43*x`66 + g`131*x`65 + g`144*x`48 + g`25*x`40 + g`14*x`36 + g`29*x`34 + g`160*x`33 + g`123*x`24 + g`114*x`20 + g`24*x`18 + g`91*x`17 + g`119*x`12 + g`88*x`10 + g`92*x`9 + g`61*x`6 + g`151*x`5 + g`163*x`3, g`127*x`192 + g`73*x`160 + g`254*x`144 + g`73*x`136 + g`11*x`132 + g`104*x`130 + g`242*x`129 + g`71*x`96 + g`6*x`80 + g`93*x`72 + g`184*x`68 + g`109*x`66 + g`15*x`65 + g`108*x`48 + g`212*x`40 + g`195*x`36 + g`147*x`34 + g`2*x`33 + g`51*x`24 + g`168*x`20 + g`16*x`18 + g`71*x`17 + g`173*x`12 + g`15*x`10 + g`118*x`9 + g`192*x`6 + g`94*x`5 + g`70*x`3, g`114*x`192 + g`181*x`160 + g`57*x`144 + g`139*x`136 + g`109*x`132 + g`123*x`130 + g`164*x`129 + g`172*x`96 + g`240*x`80 + g`218*x`72 + g`213*x`68 + g`151*x`66 + g`222*x`65 + g`20*x`48 + g`201*x`40 + g`30*x`36 + g`179*x`33 + g`125*x`34 + g`170*x`24 + g`116*x`20 + g`95*x`18 + g`172*x`12 + g`66*x`10 + g`130*x`9 + g`118*x`6 + g`51*x`5, g`4*x`192 + g`165*x`160 + g`222*x`144 + g`111*x`136 + g`125*x`132 + g`77*x`130 + g`194*x`129 + g`36*x`96 + g`177*x`80 + g`165*x`72 + g`41*x`68 + g`183*x`66 + g`175*x`65 + g`145*x`48 + g`241*x`40 + g`50*x`36 + g`102*x`34 + g`58*x`33 + g`140*x`24 + g`17*x`20 + g`42*x`18 + g`207*x`17 + g`34*x`12 + g`179*x`10 + g`167*x`9 + g`254*x`6 + g`58*x`5 + g`109*x`3, g`93*x`192 + g`57*x`160 + g`5*x`144 + g`192*x`136 + g`64*x`132 + g`10*x`130 + g`106*x`129 + g`238*x`96 + g`172*x`80 + g`126*x`72 + g`174*x`68 + g`105*x`66 + g`198*x`65 + g`161*x`65 + g`217*x`40 + g`x`36 + g`214*x`34 + g`217*x`33 + g`104*x`24 + g`136*x`20 + g`179*x`18 + g`109*x`17 + g`227*x`12 + g`33*x`10 + g`249*x`9 + g`71*x`6 + g`68*x`5 + g`71*x`3, g`218*x`192 + g`169*x`160 + g`69*x`144 + g`207*x`136 + g`252*x`132 + g`99*x`130 + g`116*x`129 + g`93*x`96 + g`252*x`80 + g`229*x`72 + g`18*x`68 + g`118*x`66 + g`75*x`65 + g`114*x`48 + g`253*x`40 + g`40*x`36 + g`18*x`34 + g`28*x`33 + g`94*x`24 + g`134*x`20 + g`176*x`18 + g`221*x`17 + g`45*x`12 + g`245*x`10 + g`46*x`9 + g`156*x`6 + g`103*x`5 + g`66*x`3, g`214*x`192 + g`208*x`160 + g`78*x`144 + g`37*x`136 + g`48*x`132 + g`166*x`130 + g`x`129 + g`46*x`96 + g`73*x`80 + g`122*x`72 + g`184*x`68 + g`73*x`66 + g`178*x`65 + g`202*x`48 + g`67*x`40 + g`190*x`36 + g`190*x`34 + g`40*x`33 + g`29*x`24 + g`69*x`20 + g`182*x`18 + g`34*x`17 + g`192*x`12 + g`34*x`10 + g`2*x`9 + g`247*x`6 + g`220*x`5 + g`33*x`3, g`227*x`192 + g`90*x`160 + g`230*x`144 + g`118*x`136 + g`73*x`132 + g`152*x`130 + g`18*x`129 + g`230*x`96 + g`134*x`80 + g`40*x`72 + g`40*x`68 + g`222*x`66 + g`254*x`65 + g`180*x`48 + g`124*x`40 + g`243*x`36 + g`233*x`34 + g`151*x`33 + g`28*x`24 + g`27*x`20 + g`182*x`18 + g`57*x`17 + g`231*x`12 + g`63*x`10 + g`214*x`9 + g`132*x`6 + g`239*x`5 + g`43*x`3, g`98*x`192 + g`191*x`160 + g`124*x`144 + g`66*x`136 + g`224*x`132 + g`149*x`130 + g`226*x`129 + g`150*x`96 + g`103*x`80 + g`167*x`72 + g`12*x`68 + g`70*x`66 + g`164*x`65 + g`65*x`48 + g`137*x`40 + g`134*x`36 + g`37*x`34 + g`239*x`33 + g`154*x`24 + g`37*x`20 + g`150*x`18 + g`44*x`17 + g`173*x`12 + g`211*x`10 + g`38*x`9 + g`188*x`6 + g`6*x`5 + g`13*x`3, g`189*x`192 + g`72*x`160 + g`116*x`144 + g`43*x`136 + g`16*x`132 + g`196*x`130 + g`70*x`129 + g`248*x`96 + g`89*x`80 + g`6*x`72 + g`83*x`68 + g`181*x`66 + g`28*x`65 + g`61*x`48 + g`176*x`40 + g`203*x`36 + g`216*x`34 + g`158*x`33 + g`146*x`24 + g`110*x`20 + g`226*x`18 + g`46*x`17 + g`191*x`12 + g`228*x`10 + g`98*x`9 + g`145*x`6 + g`98*x`5 + g`16*x`3, g`226*x`192 + g`153*x`160 + g`130*x`144 + g`36*x`136 + g`75*x`132 + g`219*x`130 + g`207*x`129 + g`252*x`96 + g`210*x`80 + g`170*x`72 + g`196*x`68 + g`200*x`66 + g`115*x`65 + g`252*x`48 + g`72*x`40 + g`156*x`36 + g`69*x`34 + g`38*x`33 + g`216*x`24 + g`207*x`20 + g`7*x`18 + g`71*x`17 + g`213*x`12 + g`47*x`10 + g`20*x`9 + g`46*x`6 + g`38*x`5 + g`83*x`3, g`78*x`192 + g`105*x`160 + g`207*x`144 + g`123*x`136 + g`150*x`132 + g`202*x`130 + g`149*x`129 + g`89*x`96 + g`65*x`80 + g`231*x`72 + g`108*x`68 + g`122*x`66 + g`48*x`65 + g`155*x`48 + g`197*x`40 + g`116*x`36 + g`95*x`34 + g`172*x`34 + g`172*x`34 + g`31*x`24 + g`211*x`20 + g`167*x`18 + g`150*x`17 + g`69*x`12 + g`66*x`10 + g`50*x`9 + g`191*x`6 + g`114*x`5 + g`7*x`3, g`143*x`192 + g`231*x`160 + g`97*x`144 + g`58*x`136 + g`116*x`132 + g`18*x`130 + g`247*x`129 + g`107*x`96 + g`38*x`80 + g`95*x`72 + g`247*x`68 + g`49*x`66 + g`93*x`65 + g`103*x`48 + g`235*x`40 + g`32*x`36 + g`30*x`34 + g`57*x`33 + g`188*x`24 + g`196*x`20 + g`77*x`18 + g`128*x`17 + g`143*x`12 + g`195*x`10 + g`165*x`9 + g`115*x`6 + g`230*x`5 + g`163*x`3, g`101*x`192 + g`141*x`160 + g`69*x`144 + g`85*x`136 + g`181*x`132 + g`130*x`130 + g`111*x`129 + g`157*x`96 + g`15*x`80 + g`109*x`72 + g`203*x`68 + g`151*x`66 + g`148*x`65 + g`164*x`48 + g`11*x`40 + g`224*x`36 + g`124*x`34 + g`8*x`33 + g`198*x`24 + g`13*x`20 + g`28*x`18 + g`29*x`17 + g`189*x`12 + g`133*x`10 + g`70*x`9 + g`67*x`6 + g`197*x`5 + g`201*x`3, g`19*x`192 + g`188*x`160 + g`89*x`144 + g`57*x`136 + g`35*x`132 + g`153*x`130 + g`142*x`129 + g`250*x`96 + g`110*x`80 + g`168*x`72 + g`169*x`68 + g`156*x`66 + g`142*x`65 + g`220*x`48 + g`188*x`40 + g`90*x`36 + g`146*x`34 + g`145*x`33 + g`109*x`24 + g`112*x`20 + g`176*x`18 + g`37*x`17 + g`194*x`12 + g`202*x`10 + g`88*x`9 + g`183*x`6 + g`x`5 + g`45*x`3, g`203*x`192 + g`188*x`160 + g`238*x`144 + g`122*x`136 + g`52*x`132 + g`204*x`130 + x`129 + g`203*x`96 + g`152*x`80 + g`221*x`72 + g`192*x`68 + g`45*x`66 + g`45*x`65 + g`134*x`48 + g`51*x`40 + g`100*x`36 + g`40*x`34 + g`232*x`33 + g`90*x`24 + g`136*x`20 + g`87*x`18 + g`197*x`17 + g`10*x`12 + g`131*x`10 + g`178*x`9 + g`112*x`6 + g`44*x`5 + g`158*x`3, g`141*x`192 + g`113*x`160 + g`239*x`144 + g`118*x`136 + g`137*x`132 + g`139*x`130 + x`129 + g`213*x`96 + g`179*x`80 + g`243*x`72 + g`19*x`68 + g`213*x`66 + g`194*x`65 + g`51*x`48 + g`3*x`40 + g`32*x`36 + g`39*x`34 + g`117*x`33 + g`243*x`24 + g`86*x`20 + g`181*x`18 + g`159*x`17 + g`186*x`12 + g`208*x`10 + g`177*x`9 + g`63*x`6 + g`140*x`5 + g`32*x`3, g`107*x`192 + g`13*x`160 + g`174*x`144 + g`140*x`136 + g`203*x`132 + g`3*x`130 + g`154*x`129 + g`29*x`96 + g`175*x`80 + g`8*x`72 + g`50*x`68 + g`131*x`66 + g`131*x`66 + g`228*x`65 + g`31*x`48 + g`231*x`40 + x`36 + g`49*x`34 + g`209*x`33 + g`131*x`24 + g`114*x`20 + g`36*x`18 + g`168*x`17 + g`21*x`12 + g`96*x`10 + g`187*x`9 + g`191*x`6 + g`226*x`5 + g`80*x`3, g`193*x`192 + g`208*x`160 + g`198*x`144 + g`115*x`136 + g`170*x`132 + g`115*x`130 + g`236*x`129 + g`92*x`96 + g`128*x`80 + g`7*x`72 + g`131*x`68 + g`31*x`66 + g`195*x`65 + g`155*x`48 + g`222*x`40 + g`148*x`36 + g`166*x`34 + g`125*x`33 + g`132*x`24 + g`96*x`20 + g`180*x`18 + g`167*x`17 + g`48*x`12 + g`112*x`10 + g`164*x`9 + g`65*x`6 + g`185*x`5 + g`99*x`3, g`95*x`192 + g`222*x`160 + g`26*x`144 + g`218*x`136 + g`206*x`130 + g`104*x`129 + g`143*x`96 + g`134*x`80 + g`27*x`72 + g`235*x`68 + g`76*x`66 + g`113*x`48 + g`119*x`40 + g`54*x`36 + g`16*x`34 + g`8*x`33 + g`149*x`24 + g`50*x`20 + g`16*x`18 + g`16*x`17 + g`14*x`12 + g`249*x`10 + g`188*x`9 + g`245*x`6 + g`227*x`5 + g`226*x`3, g`89*x`192 + g`164*x`160 + g`139*x`144 + g`4*x`136 + g`5*x`132 + g`241*x`130 + g`244*x`129 + g`167*x`96 + g`83*x`80 + g`26*x`72 + g`63*x`68 + g`79*x`66 + g`146*x`65 + g`126*x`48 + g`73*x`40 + g`88*x`36 + g`133*x`34 + g`65*x`33 + g`23*x`24 + g`190*x`20 + g`52*x`18 + g`210*x`17 + g`126*x`12 + g`105*x`10 + g`123*x`9 + g`81*x`6 + g`66*x`5 + g`206*x`3, g`11*x`192 + g`35*x`160 + g`172*x`144 + g`166*x`136 + g`222*x`132 + g`29*x`130 + g`204*x`129 + g`6*x`96 + g`209*x`80 + g`226*x`72 + g`67*x`68 + g`243*x`66 + g`99*x`65 + g`112*x`48 + g`111*x`40 + g`108*x`36 + g`186*x`34 + g`110*x`33 + g`117*x`24 + g`6*x`20 + g`208*x`18 + g`127*x`17 + g`51*x`12 + g`66*x`10 + g`38*x`9 + g`78*x`6 + g`208*x`5 + g`34*x`3, g`183*x`192 + g`43*x`160 + g`198*x`144 + g`23*x`136 + g`121*x`132 + g`97*x`130 + g`252*x`129 + g`250*x`96 + g`238*x`80 + g`31*x`72 + g`221*x`68 + g`114*x`66 + g`33*x`65 + g`170*x`48 + g`177*x`40 + g`97*x`36 + g`209*x`34 + g`214*x`33 + g`184*x`24 + g`88*x`20 + g`212*x`18 + g`197*x`17 + g`3*x`12 + g`240*x`10 + g`212*x`9 + g`166*x`6 + g`221*x`5 + g`33*x`3, g`196*x`192 + g`219*x`160 + g`205*x`144 + g`117*x`136 + g`236*x`132 + g`181*x`130 + g`69*x`129 + g`197*x`96 + g`237*x`80 + g`194*x`72 + g`181*x`68 + g`193*x`66 + g`142*x`65 + g`165*x`48 + g`149*x`40 + g`97*x`36 + g`130*x`34 + g`214*x`33 + g`53*x`24 + g`93*x`20 + g`24*x`18 + g`160*x`17 + g`129*x`12 + g`49*x`10 + g`238*x`9 + g`182*x`6 + g`187*x`5 + g`127*x`3, g`21

g`249*x`192 + g`20*x`160 + g`183*x`144 + g`132*x`136 + g`122*x`132 + g`182*x`130 + g`213*x`129 + g`130*x`96 + g`129*x`80 + g`169*x`72 + g`30*x`68 + g`107*x`66 + g`207*x`65 + g`210*x`48 + g`45*x`40 + g`99*x`36 + g`25*x`34 + g`199*x`33 + g`105*x`24 + g`214*x`20 + g`77*x`18 + g`40*x`17 + g`141*x`12 + g`57*x`10 + g`2*x`9 + g`59*x`6 + g`211*x`5 + g`199*x`3, g`208*x`192 + g`56*x`160 + g`244*x`144 + g`224*x`136 + g`94*x`132 + g`251*x`130 + g`82*x`129 + g`86*x`96 + g`129*x`80 + g`25*x`72 + g`230*x`68 + g`248*x`66 + g`213*x`65 + g`163*x`48 + g`41*x`40 + g`29*x`36 + g`86*x`34 + g`173*x`33 + g`9*x`24 + g`121*x`20 + g`142*x`18 + g`58*x`17 + g`220*x`12 + g`88*x`10 + g`148*x`9 + g`230*x`6 + g`200*x`5 + g`150*x`3, g`107*x`192 + g`208*x`160 + g`167*x`144 + g`8*x`136 + g`223*x`132 + g`52*x`130 + g`235*x`129 + g`469*x`96 + g`161*x`80 + g`15*x`72 + g`121*x`68 + g`124*x`66 + g`207*x`65 + g`173*x`48 + g`149*x`40 + g`78*x`36 + g`241*x`34 + g`49*x`33 + g`221*x`24 + g`57*x`20 + g`26*x`18 + g`208*x`9 + g`33*x`6 + g`6*x`5 + g`133*x`3, g`157*x`192 + g`48*x`144 + g`83*x`136 + g`160*x`132 + g`81*x`130 + g`127*x`129 + g`182*x`129 + g`39*x`80 + g`213*x`72 + g`154*x`68 + g`12*x`66 + g`212*x`65 + g`197*x`48 + g`245*x`40 + g`182*x`36 + g`220*x`34 + g`223*x`33 + g`36*x`24 + g`227*x`20 + g`146*x`18 + g`249*x`17 + g`159*x`12 + g`107*x`10 + g`183*x`9 + g`54*x`6 + g`200*x`6 + g`54*x`3, g`22*x`192 + g`87*x`160 + g`83*x`144 + g`160*x`136 + g`215*x`132 + g`132*x`130 + g`122*x`129 + g`37*x`96 + g`78*x`80 + g`3*x`72 + g`101*x`68 + g`116*x`66 + g`244*x`65 + g`141*x`48 + g`215*x`40 + g`150*x`36 + g`15*x`34 + g`237*x`33 + g`209*x`24 + g`172*x`20 + g`36*x`18 + g`18*x`17 + g`208*x`12 + g`227*x`10 + g`51*x`9 + g`2*x`6 + g`200*x`6 + g`48*x`5 + g`156*x`3, g`239*x`192 + g`186*x`160 + g`160*x`144 + g`97*x`136 + g`109*x`132 + g`245*x`130 + g`228*x`129 + g`77*x`96 + g`96*x`80 + g`207*x`72 + g`149*x`68 + g`227*x`66 + g`20*x`65 + g`205*x`48 + g`25*x`40 + g`167*x`36 + g`127*x`34 + g`97*x`33 + g`55*x`24 + g`237*x`20 + g`42*x`18 + g`138*x`17 + g`31*x`12 + g`212*x`10 + g`124*x`9 + g`95*x`6 + g`212*x`5 + g`88*x`3, g`252*x`192 + g`121*x`160 + g`241*x`144 + g`167*x`136 + g`91*x`132 + g`219*x`130 + g`68*x`129 + g`112*x`96 + g`37*x`80 + g`207*x`72 + g`104*x`68 + g`198*x`66 + g`45*x`65 + g`240*x`48 + g`223*x`40 + g`147*x`36 + g`254*x`34 + g`206*x`33 + g`77*x`24 + g`107*x`20 + g`146*x`18 + g`68*x`17 + g`187*x`12 + g`212*x`10 + g`92*x`9 + g`127*x`6 + g`15*x`5 + g`126*x`3, g`67*x`192 + g`252*x`160 + g`2*x`144 + g`108*x`136 + g`157*x`132 + g`4*x`130 + g`8*x`129 + g`103*x`96 + g`221*x`80 + g`104*x`72 + g`73*x`68 + g`123*x`66 + g`147*x`65 + g`127*x`48 + g`211*x`40 + g`248*x`36 + g`157*x`34 + g`196*x`33 + g`70*x`24 + g`232*x`20 + g`135*x`18 + g`46*x`17 + g`201*x`12 + g`42*x`10 + g`236*x`9 + g`160*x`6 + g`138*x`5 + g`125*x`3, g`204*x`192 + g`51*x`160 + g`79*x`144 + g`13*x`136 + g`154*x`132 + g`40*x`130 + g`158*x`129 + g`75*x`96 + g`101*x`80 + g`207*x`72 + g`157*x`68 + g`25*x`66 + g`166*x`65 + g`20*x`48 + g`140*x`40 + g`197*x`36 + g`136*x`34 + g`103*x`33 + g`115*x`24 + g`14*x`20 + g`129*x`18 + g`198*x`16 + g`67*x`12 + g`53*x`10 + g`194*x`9 + g`29*x`6 + g`56*x`5 + g`6*x`3, g`186*x`192 + g`231*x`160 + g`208*x`144 + g`112*x`136 + g`149*x`132 + g`207*x`130 + g`26*x`130 + g`116*x`96 + g`2*x`80 + g`30*x`72 + g`172*x`68 + g`79*x`66 + g`127*x`65 + g`88*x`48 + g`96*x`40 + g`47*x`36 + g`108*x`34 + g`34*x`33 + g`151*x`24 + g`5*x`20 + g`202*x`18 + g`91*x`17 + g`173*x`12 + g`232*x`10 + g`102*x`9 + g`121*x`9 + g`133*x`6 + g`105*x`5 + g`253*x`3, g`224*x`192 + g`137*x`160 + g`206*x`144 + g`55*x`136 + g`218*x`132 + g`53*x`130 + g`177*x`129 + g`128*x`96 + x`80 + g`31*x`72 + g`49*x`68 + g`101*x`66 + g`171*x`65 + g`81*x`48 + g`17*x`40 + g`42*x`36 + g`43*x`34 + g`137*x`33 + g`231*x`24 + g`247*x`20 + g`4*x`18 + g`16*x`17 + g`187*x`12 + g`22*x`10 + g`107*x`9 + g`66*x`6 + g`34*x`5 + g`97*x`3, g`142*x`192 + g`181*x`160 + g`72*x`144 + g`66*x`136 + g`89*x`132 + g`84*x`130 + g`5*x`129 + g`143*x`96 + g`166*x`80 + g`65*x`72 + g`98*x`68 + g`92*x`66 + g`63*x`65 + g`30*x`48 + g`170*x`40 + g`2*x`36 + g`207*x`34 + g`252*x`33 + g`182*x`24 + g`240*x`20 + g`4*x`18 + g`65*x`17 + g`183*x`12 + g`138*x`10 + g`15*x`9 + g`23*x`6 + g`76*x`5 + g`29*x`3, g`62*x`192 + g`159*x`160 + g`118*x`144 + g`51*x`136 + g`215*x`132 + g`118*x`130 + g`12*x`129 + g`143*x`96 + g`48*x`80 + g`94*x`72 + g`136*x`68 + g`135*x`66 + g`218*x`65 + g`145*x`48 + g`201*x`40 + g`223*x`36 + g`57*x`34 + g`229*x`33 + g`119*x`24 + g`22*x`20 + g`19*x`18 + g`141*x`17 + g`147*x`12 + g`230*x`10 + g`47*x`9 + g`47*x`6 + g`139*x`5 + g`185*x`3, g`98*x`192 + g`94*x`160 + g`105*x`144 + g`245*x`136 + g`91*x`132 + g`233*x`130 + g`224*x`129 + g`42*x`96 + g`251*x`80 + x`72 + g`122*x`68 + g`129*x`66 + g`117*x`65 + g`55*x`48 + g`14*x`40 + g`133*x`36 + g`24*x`34 + g`253*x`33 + g`35*x`24 + g`200*x`20 + g`134*x`18 + g`107*x`17 + g`16*x`12 + g`223*x`10 + g`4*x`9 + g`236*x`6 + g`175*x`5 + g`68*x`3, g`2*x`192 + g`146*x`160 + g`162*x`144 + g`176*x`136 + g`104*x`132 + g`189*x`130 + g`x`129 + g`167*x`96 + g`170*x`80 + g`66*x`72 + g`184*x`68 + g`197*x`66 + g`211*x`65 + g`232*x`48 + g`85*x`40 + g`107*x`36 + g`33*x`34 + g`32*x`33 + g`204*x`24 + g`3*x`20 + g`17*x`18 + g`232*x`17 + g`177*x`12 + g`165*x`10 + g`191*x`9 + g`95*x`6 + g`214*x`5 + g`179*x`3, g`138*x`192 + g`45*x`160 + g`222*x`144 + g`15*x`136 + g`95*x`132 + g`187*x`130 + g`89*x`129 + g`40*x`96 + g`72*x`80 + g`135*x`72 + g`96*x`68 + g`102*x`66 + g`239*x`65 + g`53*x`48 + g`226*x`40 + g`175*x`36 + g`202*x`34 + g`40*x`33 + g`219*x`24 + g`222*x`20 + g`104*x`18 + g`153*x`17 + g`161*x`12 + g`225*x`10 + g`251*x`9 + g`135*x`6 + g`94*x`5 + g`187*x`3, g`241*x`192 + g`93*x`160 + g`241*x`144 + g`196*x`136 + g`179*x`132 + g`94*x`130 + g`239*x`129 + g`180*x`96 + g`135*x`80 + g`32*x`72 + g`8*x`68 + g`75*x`66 + g`177*x`65 + g`210*x`48 + g`36*x`40 + g`183*x`36 + g`31*x`34 + g`64*x`33 + g`188*x`24 + g`239*x`20 + g`160*x`18 + g`236*x`17 + g`118*x`12 + g`85*x`10 + g`111*x`9 + g`19*x`6 + g`143*x`5 + g`191*x`3, g`4*x`192 + g`153*x`160 + g`93*x`144 + g`90*x`136 + g`131*x`132 + g`92*x`130 + g`214*x`129 + g`249*x`96 + g`158*x`80 + g`68*x`72 + g`197*x`68 + g`100*x`65 + g`177*x`48 + g`123*x`40 + g`82*x`36 + g`246*x`34 + g`78*x`33 + g`157*x`24 + g`223*x`20 + g`81*x`18 + g`78*x`17 + g`46*x`12 + g`21*x`10 + g`247*x`9 + g`100*x`6 + g`95*x`5 + g`145*x`3, g`65*x`192 + g`80*x`160 + g`28*x`144 + g`191*x`136 + g`177*x`132 + g`52*x`130 + g`43*x`129 + g`48*x`96 + g`117*x`80 + g`157*x`72 + g`216*x`68 + g`209*x`66 + g`45*x`65 + g`161*x`48 + g`83*x`40 + g`209*x`36 + g`64*x`34 + g`250*x`33 + g`234*x`24 + g`103*x`18 + g`116*x`17 + g`120*x`12 + g`215*x`10 + g`132*x`9 + g`139*x`6 + g`126*x`5 + g`126*x`3, g`3*x`192 + g`84*x`160 + g`94*x`144 + g`129*x`136 + g`208*x`132 + g`152*x`130 + g`73*x`129 + g`242*x`96 + g`231*x`80 + g`216*x`72 + g`184*x`68 + g`164*x`66 + g`33*x`65 + g`80*x`48 + g`187*x`40 + g`230*x`36 + g`32*x`34 + g`181*x`33 + g`152*x`24 + g`59*x`20 + g`142*x`18 + g`188*x`17 + g`55*x`12 + g`96*x`10 + g`9*x`9 + g`198*x`6 + g`131*x`5 + g`132*x`3, g`29*x`192 + g`130*x`160 + g`214*x`144 + g`183*x`136 + g`142*x`132 + g`140*x`130 + g`206*x`129 + g`9*x`96 + g`57*x`80 + g`21*x`72 + g`114*x`68 + g`143*x`66 + g`156*x`65 + g`137*x`48 + g`105*x`40 + g`225*x`36 + g`248*x`34 + g`225*x`33 + g`16*x`24 + g`97*x`20 + g`98*x`18 + g`86*x`17 + g`121*x`12 + g`196*x`10 + g`36*x`9 + g`61*x`6 + g`77*x`5 + g`205*x`3, g`51*x`192 + g`220*x`160 + g`69*x`144 + g`10*x`136 + g`12*x`132 + x`130 + g`189*x`129 + g`72*x`96 + g`50*x`80 + g`120*x`72 + g`228*x`68 + g`137*x`66 + g`217*x`65 + g`88*x`48 + g`170*x`40 + g`77*x`36 + g`152*x`34 + g`121*x`33 + g`102*x`24 + g`27*x`20 + g`16*x`18 + g`225*x`12 + g`72*x`12 + g`245*x`10 + g`26*x`9 + g`34*x`6 + g`93*x`5 + x`3, g`12*x`192 + g`142*x`160 + g`87*x`144 + g`196*x`136 + g`138*x`132 + g`210*x`130 + g`225*x`129 + g`229*x`96 + g`38*x`80 + g`143*x`72 + x`68 + g`4*x`66 + g`140*x`65 + g`69*x`40 + g`69*x`40 + g`102*x`36 + g`42*x`33 + g`221*x`24 + g`4*x`20 + g`178*x`18 + g`126*x`17 + g`98*x`12 + g`65*x`10 + g`70*x`9 + g`132*x`6 + g`87*x`5 + g`218*x`3, g`149*x`192 + g`178*x`160 + g`228*x`144 + g`177*x`136 + g`111*x`132 + g`166*x`130 + g`161*x`129 + g`91*x`96 + g`63*x`80 + g`200*x`72 + g`207*x`68 + g`240*x`66 + g`76*x`65 + g`134*x`48 + g`114*x`40 + g`198*x`36 + g`184*x`34 + g`239*x`33 + g`177*x`24 + g`169*x`20 + x`18 + g`199*x`17 + g`83*x`12 + g`33*x`10 + g`192*x`9 + g`131*x`6 + g`19*x`5 + g`149*x`3, g`189*x`192 + g`237*x`160 + g`93*x`144 + g`42*x`136 + g`87*x`132 + g`184*x`130 + g`83*x`129 + g`28*x`96 + g`187*x`80 + g`40*x`72 + g`172*x`68 + g`236*x`66 + g`97*x`65 + g`247*x`48 + g`152*x`40 + g`246*x`36 + g`58*x`34 + g`71*x`33 + g`192*x`24 + g`172*x`20 + g`103*x`18 + g`116*x`17 + g`79*x`12 + g`79*x`12 + g`174*x`9 + g`171*x`6 + g`85*x`5 + g`171*x`3, g`99*x`192 + g`214*x`160 + g`62*x`144 + g`168*x`136 + x`132 + g`117*x`130 + g`104*x`129 + g`208*x`96 + g`121*x`80 + g`234*x`72 + g`82*x`68 + g`189*x`66 + g`49*x`65 + g`190*x`48 + g`213*x`40 + g`232*x`36 + g`10*x`34 + g`47*x`33 + g`160*x`24 + g`67*x`20 + g`70*x`18 + g`75*x`17 + g`127*x`12 + g`163*x`10 + g`171*x`9 + g`47*x`6 + g`141*x`5 + g`214*x`3, g`2*x`192 + g`97*x`160 + g`28*x`144 + g`136*x`136 + g`218*x`132 + g`9*x`130 + g`174*x`129 + g`161*x`96 + g`136*x`80 + g`248*x`72 + g`185*x`68 + g`208*x`66 + g`x`65 + g`201*x`48 + g`202*x`40 + g`145*x`36 + g`96*x`34 + g`154*x`33 + g`147*x`33 + g`192*x`24 + g`x`20 + g`45*x`18 + g`109*x`17 + g`193*x`12 + g`52*x`10 + g`242*x`9 + g`211*x`6 + g`91*x`5 + g`220*x`3, g`92*x`192 + g`241*x`160 + g`214*x`144 + g`59*x`136 + g`141*x`132 + g`219*x`130 + g`203*x`129 + g`195*x`96 + g`70*x`80 + g`133*x`72 + g`149*x`68 + g`122*x`66 + g`98*x`65 + g`117*x`48 + g`9*x`40 + g`118*x`36 + g`136*x`34 + g`240*x`33 + g`129*x`24 + g`82*x`20 + g`40*x`18 + g`23*x`17 + g`209*x`12 + g`161*x`10 + g`21*x`9 + g`185*x`6 + g`28*x`5 + g`241*x`3, g`234*x`192 + g`138*x`160 + g`179*x`144 + g`83*x`136 + g`200*x`132 + g`121*x`130 + g`247*x`129 + g`239*x`96 + g`10*x`80 + g`134*x`72 + g`232*x`68 + g`122*x`66 + g`147*x`65 + g`76*x`48 + g`129*x`40 + g`196*x`36 + g`56*x`34 + g`22*x`33 + g`116*x`24 + g`150*x`20 + g`141*x`18 + g`171*x`17 + g`141*x`12 + g`142*x`10 + g`163*x`9 + g`15*x`6 + g`82*x`5 + g`135*x`3, g`80*x`192 + g`236*x`160 + g`173*x`144 + g`12*x`136 + g`108*x`132 + g`183*x`130 + g`31*x`129 + g`48*x`96 + g`247*x`80 + g`93*x`72 + g`194*x`68 + g`43*x`66 + g`58*x`65 + g`153*x`48 + g`142*x`40 + g`65*x`36 + g`231*x`34 + g`167*x`33 + g`29*x`24 + g`94*x`20 + g`199*x`18 + g`77*x`17 + g`57*x`12 + g`112*x`10 + g`197*x`9 + g`74*x`6 + g`45*x`5 + g`79*x`3, g`125*x`192 + g`218*x`160 + g`85*x`144 + g`45*x`136 + g`144*x`132 + g`192*x`130 + g`243*x`129 + g`116*x`96 + g`65*x`80 + g`228*x`72 + g`148*x`68 + g`164*x`66 + g`12*x`65 + g`251*x`48 + g`74*x`40 + g`77*x`36 + g`21*x`34 + g`65*x`33 + g`136*x`24 + g`110*x`20 + g`107*x`18 + g`100*x`17 + g`82*x`12 + g`125*x`10 + g`81*x`9 + g`181*x`6 + g`162*x`5 + g`100*x`3, g`93*x`192 + g`55*x`160 + g`235*x`144 + g`75*x`136 + g`31*x`132 + g`128*x`130 + x`129 + g`108*x`96 + g`68*x`80 + g`245*x`72 + g`53*x`68 + g`112*x`66 + g`172*x`66 + g`170*x`48 + g`226*x`40 + g`168*x`36 + g`243*x`34 + g`230*x`33 + g`135*x`24 + g`180*x`20 + g`180*x`18 + g`37*x`17 + g`97*x`12 + g`192*x`10 + g`214*x`9 + g`25*x`6 + g`171*x`5 + g`123*x`3, g`14*x`192 + g`131*x`160 + g`144*x`144 + g`141*x`136 + g`81*x`132 + g`52*x`130 + g`227*x`129 + g`35*x`96 + g`220*x`80 + g`39*x`72 + g`74*x`68 + g`131*x`66 + g`220*x`65 + g`247*x`48 + g`19*x`40 + g`129*x`36 + g`90*x`34 + g`244*x`33 + g`217*x`24 + g`114*x`20 + g`100*x`18 + g`199*x`17 + g`75*x`12 + g`238*x`10 + g`227*x`9 + g`228*x`6 + g`20*x`5 + g`220*x`3, g`87*x`192 + g`68*x`160 + g`136*x`144 + g`151*x`136 + g`143*x`132 + g`220*x`130 + g`232*x`129 + g`237*x`96 + g`207*x`80 + g`225*x`72 + g`228*x`68 + g`232*x`66 + g`128*x`65 + g`127*x`48 + g`30*x`40 + g`252*x`36 + g`196*x`34 + g`245*x`33 + g`119*x`24 + g`76*x`20 + g`149*x`18 + g`174*x`17 + g`105*x`12 + g`144*x`10 + g`78*x`9 + g`204*x`6 + g`118*x`5 + g`52*x`3, g`69*x`192 + g`172*x`160 + g`21*x`144 + g`108*x`136 + g`217*x`132 + g`191*x`130 + g`227*x`129 + g`124*x`96 + g`154*x`80 + g`167*x`72 + g`132*x`68 + g`99*x`66 + g`89*x`65 + g`226*x`48 + g`21*x`40 + g`97*x`36 + g`119*x`34 + g`138*x`33 + g`210*x`24 + g`167*x`20 + g`64*x`18 + g`228*x`17 + g`149*x`12 + g`101*x`10 + g`74*x`9 + g`161*x`6 + g`141*x`5 + g`226*x`3, g`115*x`192 + g`170*x`160 + g`159*x`144 + g`132*x`136 + g`129*x`132 + g`79*x`130 + g`244*x`129 + g`175*x`96 + g`234*x`80 + g`214*x`72 + g`152*x`68 + g`200*x`66 + g`206*x`65 + g`33*x`48 + g`104*x`40 + g`117*x`36 + g`11*x`34 + g`192*x`33 + g`229*x`24 + g`209*x`20 + g`63*x`18 + g`198*x`17 + g`82*x`12 + g`129*x`10 + g`79*x`9 + g`90*x`6 + g`107*x`5 + g`241*x`3, g`150*x`192 + g`121*x`160 + g`223*x`144 + g`253*x`136 + g`193*x`132 + g`99*x`130 + g`17*x`129 + g`164*x`96 + g`59*x`80 + g`190*x`72 + g`81*x`68 + g`52*x`66 + g`76*x`65 + g`148*x`48 + g`18*x`40 + g`159*x`36 + g`220*x`34 + g`85*x`33 + g`63*x`24 + g`217*x`20 + g`85*x`18 + g`77*x`17 + g`52*x`12 + g`74*x`10 + g`176*x`9 + g`147*x`6 + g`51*x`5 + g`32*x`3, g`172*x`192 + g`209*x`160 + g`197*x`144 + g`81*x`136 + g`171*x`132 + g`66*x`130 + g`193*x`129 + g`129*x`96 + g`229*x`80 + g`13*x`72 + g`9*x`68 + g`253*x`66 + g`194*x`65 + g`124*x`48 + g`5*x`40 + g`62*x`36 + g`88*x`34 + g`61*x`33 + g`155*x`24 + g`197*x`20 + g`212*x`18 + g`11*x`17 + g`105*x`12 + g`23*x`10 + g`26*x`9 + g`157*x`6 + g`237*x`5 + g`149*x`3, g`134*x`192 + g`181*x`160 + g`151*x`144 + g`85*x`136 + g`207*x`132 + g`254*x`130 + g`227*x`129 + g`230*x`96 + g`29*x`80 + g`94*x`68 + g`10*x`66 + g`16*x`65 + g`124*x`48 + g`121*x`40 + g`31*x`36 + g`102*x`36 + g`230*x`33 + g`169*x`24 + g`151*x`20 + g`66*x`18 + g`213*x`17 + g`151*x`12 + g`208*x`10 + g`200*x`9 + g`251*x`6 + g`54*x`5 + g`26*x`3, g`94*x`192 + g`14*x`160 + g`59*x`144 + g`36*x`136 + g`11*x`132 + g`178*x`130 + g`18*x`129 + g`88*x`96 + g`42*x`80 + g`107*x`72 + g`79*x`68 + g`224*x`66 + g`207*x`65 + g`211*x`48 + g`119*x`40 + g`132*x`36 + g`251*x`34 + g`178*x`33 + g`118*x`24 + g`194*x`20 + g`57*x`18 + g`82*x`17 + g`241*x`12 + g`184*x`10 + g`32*x`9 + g`184*x`6 + g`66*x`5 + g`50*x`3, g`49*x`192 + g`120*x`160 + g`208*x`144 + g`193*x`136 + g`5*x`132 + g`188*x`130 + g`109*x`129 + g`2*x`96 + g`137*x`80 + g`94*x`72 + g`191*x`68 + g`63*x`66 + g`122*x`48 + g`110*x`40 + g`94*x`36 + g`207*x`34 + g`15*x`33 + g`183*x`24 + g`135*x`20 + g`193*x`18 + g`175*x`17 + g`211*x`12 + g`213*x`10 + g`213*x`9 + g`97*x`6 + g`227*x`5 + g`5*x`3, g`154*x`192 + g`104*x`160 + g`231*x`144 + g`199*x`136 + g`26*x`132 + g`85*x`130 + g`104*x`129 + g`138*x`96 + g`249*x`80 + g`98*x`72 + g`73*x`68 + g`156*x`66 + g`55*x`65 + g`51*x`48 + g`46*x`40 + g`167*x`36 + g`52*x`34 + g`184*x`33 + g`220*x`24 + g`155*x`20 + g`47*x`18 + g`66*x`17 + g`6*x`12 + g`206*x`10 + g`107*x`9 + g`167*x`6 + g`85*x`5 + g`202*x`3, g`70*x`192 + g`232*x`160 + g`55*x`144 + g`179*x`136 + g`51*x`132 + g`95*x`130 + g`200*x`129 + g`6*x`96 + g`83*x`80 + g`53*x`72 + g`239*x`68 + g`142*x`65 + g`189*x`48 + g`192*x`40 + g`232*x`36 + g`29*x`34 + g`164*x`33 + g`203*x`24 + g`105*x`20 + g`120*x`18 + g`151*x`12 + g`175*x`10 + g`219*x`9 + g`2*x`6 + g`106*x`5 + g`16*x`3, g`96*x`192 + g`160*x`160 + g`174*x`144 + g`22*x`136 + g`94*x`132 + g`104*x`130 + g`12*x`129 + g`108*x`96 + g`99*x`80 + g`104*x`72 + g`91*x`68 + g`81*x`66 + g`100*x`65 + g`208*x`48 + g`186*x`40 + g`92*x`36 + g`242*x`34 + g`237*x`33 + g`217*x`24 + g`99*x`20 + g`200*x`18 + g`179*x`17 + g`186*x`12 + g`200*x`10 + g`151*x`9 + g`210*x`6 + g`131*x`5 + g`26*x`3, g`74*x`192 + g`6*x`160 + g`34*x`144 + g`11*x`136 + g`14*x`132 + g`66*x`130 + g`59*x`129 + g`230*x`96 + g`170*x`80 + g`229*x`72 + g`8*x`68 + g`203*x`66 + g`115*x`65 + g`156*x`48 + g`132*x`40 + g`115*x`36 + g`206*x`34 + g`166*x`33 + g`38*x`24 + g`116*x`20 + g`25*x`18 + g`230*x`17 + g`57*x`12 + g`102*x`10 + g`140*x`9 + g`75*x`6 + g`106*x`5 + g`106*x`3, g`115*x`192 + g`39*x`160 + g`103*x`144 + g`112*x`136 + g`152*x`132 + g`48*x`130 + g`229*x`129 + g`51*x`96 + g`87*x`80 + g`224*x`72 + g`71*x`68 + g`144*x`66 + g`30*x`65 + g`84*x`48 + g`249*x`40 + g`28*x`36 + g`72*x`34 + g`52*x`33 + g`92*x`24 + g`153*x`20 + g`254*x`18 + g`171*x`17 + g`193*x`12 + g`19*x`10 + g`16*x`9 + g`92*x`6 + g`245*x`