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Les invariants de la chaleur en dimensions 1 et 2, et application à la hiérarchie de Korteweg-De Vries

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SOMMAIRE

La géométrie spectrale étudie les liens existant entre la géométrie d'une variété et le spectre de son opérateur de Laplace. L'asymptotique de la solution fondamentale de l'équation de la chaleur (SFEC) est une source importante d'invariants géométriques spectralement déterminés (les invariants de la chaleur a_n). En se référant à la question bien connue "Can one hear the shape of a drum ?" ([Ka]), les invariants de la chaleur nous disent qu'on peut "écouter" la dimension, le volume et la courbure d'une variété. Ceci implique que la caractéristique d'Euler d'une 2-variété (et donc sa topologie modulo orientation) est complètement déterminée par le spectre du laplacien.

Le calcul des invariants de la chaleur est un problème bien connu de la géométrie spectrale (voir [Be], [BGM], [Gi]). Aussi, même si plusieurs méthodes de calcul existent, des formules explicites pour les invariants sont très difficiles à obtenir. C'est en fait un problème de combinatoire dont la complexité croît fortement avec le rang n de l'invariant. Les méthodes actuelles ne permettent pas d'obtenir d'expressions pour les invariants d'ordre $n \geq 4$.

Nous nous proposons donc de trouver de nouvelles expressions pour les invariants de la chaleur et ce dans les deux cas suivants : pour l'opérateur de Laplace sur une 2-variété riemannienne compacte sans bord et pour l'opérateur de Schrödinger en dimension 1.

Dans le premier cas, les invariants de la chaleur nous sont donnés en terme de la courbure scalaire. Dans le deuxième, ce sont des polynômes en $u', u'', \ldots, u^{(n)}$ (u étant le potentiel de l'opérateur de Schrödinger) qui génèrent le côté droit des équations de la hiérarchie de Korteweg-De Vries (voir [GD]). Ceci nous donne une application des invariants de la chaleur à la physique mathématique.

La méthode utilisée est basée sur la programmation symbolique (en C++) d'un algorithme développé par I. Polterovich dans ([P1], [P2]).

Le mémoire suivra les étapes suivantes.

Le chapitre 1 est une courte introduction. Nous donnons une expression locale au laplacien et définissons certains concepts clefs : équation de la chaleur, solution fondamentale de la chaleur, spectre d'un opérateur, etc.

Le chapitre 2 décrit la méthode utilisée et le calcul des invariants de la chaleur pour le laplacien sur une 2-variété. Notre résultat principal est une expression explicite en terme de la courbure scalaire pour a_4.

Le chapitre 3 donne un aperçu du formalisme hamiltonien et présente une méthode de calcul de la hiérarchie de Korteweg-De Vries développée par F. Magri. Nous expliquons le lien unissant l'asymptotique de la SFEC de l'opérateur de Schrödinger à la hiérarchie. Finalement, nous trouvons une expression explicite aux 18 premières équations de la hiérarchie (voir aussi annexe D).

Le chapitre 4 décrit les programmes utilisés pour nos calculs. En annexe, nous ajoutons programmes et résultats bruts.

MOTS CLEFS

Équation de la chaleur, Équation de Korteweg-De Vries, Développement asymptotique de Minakshisundaram-Pleijel, Géométrie spectrale, Invariants de la chaleur, Laplacien, Opérateur de Schrödinger.

SUMMARY

Spectral geometry studies the relations between the geometric properties of manifolds and the spectrum of the Laplacian. Short time asymptotics of the fundamental solution of the heat equation (called the heat kernel), is an important source of spectrally determined geometric invariants. Referring to the well-known question "Can one hear the shape of a drum?" ([Ka]), heat asymptotics tells us, for instance, that we can hear the dimension, the volume and the scalar curvature. The latter implies that in dimension 2 the Euler characteristic (and hence the topology up to orientation) is determined by the spectrum of the Laplacian.

Computation of the coefficients of the heat kernel asymptotics (called heat invariants) is a long standing problem in spectral geometry (see [Be], [BGM], [Gi]). Though various methods for calculating heat invariants are known, explicit formulas for the higher heat invariants are very difficult to obtain. The reason for this is the combinatorial complexity of a_n which increases very rapidly with the growth of n. Starting with $n \geq 4$ the known methods were not able to give a satisfactory answer.

The aim of the present research is to find explicit formulas for the heat invariants in the following two cases : for the Laplacian on a 2-dimensional compact Riemannian manifold without boundary, and for the 1-dimensional Schrodinger operator.

In the first case, the heat invariants have a geometric meaning and are expressed in terms of the scalar curvature. In the second case, the heat invariants are polynomials in the derivatives of the potential, generating the the right-hand sides of the equations of the Korteweg-De Vries hierarchy (see [GD]). This provides an application of the heat invariants to mathematical physics.

Our approach is based on applying symbolic computations (in C++) to an algorithm developed by I. Polterovich in ([P1], [P2]).

The plan of the memoire is as follows.

Chapter 1 is introductory. We introduce the Laplacian on a surface and define the heat equation, the heat kernel, the spectrum of the Laplacian, etc.

In chapter 2 we describe our approach to the calculation of the heat invariants for the Laplacian on a surface. Our main result is a new explicit expression for a_4 in terms of the scalar curvature.

In chapter 3 we give a brief review of the Hamiltonian formalism and the Magri scheme for obtaining the Korteweg-De Vries hierarchy. We explain the relation between the heat asymptotics of the 1-dimensional Schrodinger operator and the Korteweg-De Vries hierarchy. Finally, we find explicit expressions for the first 18 equations of the KdV hierarchy (see also Appendix D).

In chapter 4 we describe the computer programs that were used to obtain our results. The appendices contain the programs and the details of computation.

KEY WORDS

Minakshisundaram-Pleijel asymptotic expansion, Heat equation, Heat invariant, Korteweg-De Vries equation, Laplacian, Spectral geometry, Schrödinger operator.

TABLE DES MATIÈRES

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Chapitre 1

LES INVARIANTS DE LA CHALEUR

1.1. LE LAPLACIEN

Soit $\mathbb{M}$ une d-variété riemannienne compacte et $\triangle$ l'opérateur de Laplace agissant sur $C^\infty(\mathbb{M})$. Nous nous donnons en $m \in \mathbb{M}$ une carte locale dont les coordonnées sont $(x_1, \ldots, x_n)$. Sur cette carte (g_{ij}) désignera notre métrique, (g^{ij}) son inverse et g son déterminant. Une expression sur cette carte pour le laplacien est donnée par

$$\triangle f = -\frac{1}{\sqrt{g}} \sum_{i,j=1}^{d} \frac{\partial(\sqrt{g}\, g^{ij}(\partial f/\partial x_j))}{\partial x_i} \tag{1.1.1}$$

Pour une 2-variété riemannienne (c'est sur ce type de variété que nous allons travailler) il nous est toujours possible de trouver une carte dont le sytème de coordonnées est conforme ([DFN]), c'est-à-dire dans lequel la métrique se réécrit

$$ds^2 = r(x_1, x_2)\, (dx_1^2 + dx_2^2) \tag{1.1.2}$$

Dans ces coordonnées le laplacien est alors donné par

$$\triangle = -\frac{1}{r(x_1, x_2)} \left(\frac{\partial^2}{\partial x_1^2} + \frac{\partial^2}{\partial x_2^2} \right) \tag{1.1.3}$$

Il est facile de voir que le laplacien est un opérateur différentiel elliptique, son symbole étant donné par

$$(\sigma_L \triangle)(x, \zeta) = -\sum_{i,j=1}^{d} g^{ij}\zeta_i\, \zeta_j \tag{1.1.4}$$

qui est différent de zéro pour tout $\zeta \neq 0$ ([BGM]). En coordonnées conformes pour une 2-variété riemannienne il est donné par

$$(\sigma_L \triangle)(x, \zeta) = -\frac{1}{r(x_1, x_2)} \, (\zeta_1^2 + \zeta_2^2) \qquad (1.1.5)$$

Nous définissons un produit scalaire sur $C^\infty(\mathbb{M})$ par

$$< f, h > = \int_{\mathbb{M}} f \, h \, v_g \qquad (1.1.6)$$

et sur les 1-formes par

$$< \omega, \alpha > = \int_{\mathbb{M}} (\omega, \alpha) \, v_g \qquad (1.1.7)$$

où on définit $(\cdot, \cdot)$ par l'isomorphisme canonique (donné par la métrique) entre l'espace tangent et cotangent (voir [BGM]). Sur une variété compacte nous avons

$$< \triangle f, h > \ = \ < f, \triangle h > \qquad (1.1.8)$$

$$< \triangle f, f > \ = \ ||df||^2 \qquad (1.1.9)$$

où df est la différentiel obtenue de f. De tout ceci l'on tire la proposition

Proposition 1.1.1 (voir [BGM]). *Le laplacien d'une variété riemannienne compacte $\mathbb{M}$ est un opérateur elliptique auto-adjoint défini positif sur $C^\infty(\mathbb{M})$.*

1.2. LE SPECTRE D'UNE VARIÉTÉ RIEMANIENNE

Nous travaillerons toujours sur des variétés riemanniennes compactes sans bord. Soit $\mathbb{M}$ une variété riemannienne et le laplacien $\triangle$.

Définition 1.2.1. *On appelle spectre de la variété riemannienne $\mathbb{M}$, et on note $Spec(\mathbb{M})$, l'ensemble des valeurs $\lambda \in \mathbb{R}$ pour lesquelles il existe une fonction $f \in C^\infty(\mathbb{M})$, $f \neq 0$, vérifiant l'égalité $\triangle f = \lambda f$.*

Toute fonction $f \in C^\infty(\mathbb{M})$ telle que $\triangle f = \lambda f$, avec $\lambda \in Spec(\mathbb{M})$ est dite fonction propre associée à λ. Les propriétés de $\triangle$, qui est un opérateur différentiel elliptique auto-adjoint défini positif, entraînent les conséquences suivantes.

Théorème 1.2.1 (voir [Ag]). *L'ensemble $Spec(\mathbb{M})$ forme une suite $\{ \ 0 = \lambda_0 < \lambda_1 \leq \lambda_2 \leq \dots \}$ tendant vers $+\infty$. La multiplicité de toute valeur propre λ_i est finie. L'ensemble des fonctions propres forme une base complète orthonormale pour la norme $\mathbb{L}^2(\mathbb{M})$ dans l'espace de fonctions $C^\infty(\mathbb{M})$.*

1.3. Développement asymptotique de Minakshisundaram-Pleijel

L'opérateur de la chaleur sur la d-variété riemannienne $\mathbb{M}$ est donné par

$$L = \triangle + \frac{\partial}{\partial t} \tag{1.3.1}$$

défini sur les fonctions de $\mathbb{M} \times \mathbb{R}_+^*$ dans $\mathbb{R}$ dont la variable en $\mathbb{M}$ est C^2 et la variable en $\mathbb{R}_+^*$ est C^1. L'équation de la chaleur est alors donnée par

$$Lf = 0 \tag{1.3.2}$$

c'est-à-dire

$$\triangle f = -\frac{\partial f}{\partial t} \tag{1.3.3}$$

Si on considère notre variété $\mathbb{M}$ comme un corps isotrope, dont les propriétés physiques et mécaniques sont les mêmes dans toutes les directions, et $f(m, t)$ comme la température au point m et au temps t, le passage de la chaleur à travers notre corps, en l'absence d'un puits ou d'une source de chaleur, est alors déterminé par l'équation de la chaleur (1.3.3). Nous nous intéresserons plutôt à la solution fondamentale de l'équation de la chaleur (SFEC).

Définition 1.3.1. *On appelle solution fondamentale de l'équation de la chaleur une fonction $E : \mathbb{M} \times \mathbb{M} \times \mathbb{R}_+^* \to \mathbb{R}$ satisfaisant les trois axiomes suivants :*
1) $E(m, m', t)$ est analytique en t et C^∞ en m et m'.
2) $L_2 E = 0$, où $L_2 = \triangle_2 + \partial_t$ agit sur la seconde variable.
3) $\lim_{t \to 0^+} E(m, \cdot, t) = \delta_m$, où δ_m est la delta fonction de Dirac.

$E(m, \cdot, \cdot)$ est alors la solution de l'équation de la chaleur sur $\mathbb{M}$ possèdant une température globale de 1 totalement concentrée en m au temps $t = 0$. On sait que pour $\mathbb{R}^n$ une SFEC est donnée par $E(m, m', t) = (4\pi t)^{-(\frac{d}{2})} e^{-(\frac{r^2}{4t})}$, où r est la distance euclidienne entre m et m'. Dans le cas d'une variété riemannienne compacte sans bord, la fonction précédente n'est bien sûr plus une SFEC. Soit d'autre part, $\{\varphi_i\}$ une base orthonormée de $C^\infty(\mathbb{M})$ formée des fonctions propres de $\triangle$. Définissons la fonction $\xi(m, m', t)$ par

$$\xi(m, m', t) = \sum_{i=0}^{\infty} e^{-\lambda_i t} \varphi_i(m) \varphi_i(m') \tag{1.3.4}$$

Supposons que $\xi(m, m', t)$ converge pour tout (m, m', t) et qu'en particulier toutes les opérations que nous allons faire sont légitimes. Alors, nous avons

$$\triangle_2\xi(m, m', t) \;=\; \sum_{i=0}^{\infty} e^{-\lambda_i t}\varphi_i(m)\triangle\varphi_i(m') \qquad (1.3.5)$$

$$=\; \sum_{i=0}^{\infty} \lambda_i\, e^{-\lambda_i t}\varphi_i(m)\varphi_i(m') \qquad (1.3.6)$$

et

$$\frac{\partial}{\partial t}\xi(m, m', t) \;=\; \sum_{i=0}^{\infty} -\lambda_i\, e^{-\lambda_i t}\varphi_i(m)\varphi_i(m') \qquad (1.3.7)$$

d'où nous obtenons $L_2\xi(m, m', t) \;=\; 0$. D'autre part, soit ψ une fonction de $C^{\infty}(\mathbb{M})$. En intégrant par rapport à m', où v_g est la mesure canonique associée à la métrique, on a

$$\int_{\mathbb{M}} \xi(m, m', t)\psi(m')\, v_g \;=\; \sum_{i=0}^{\infty} e^{-\lambda_i t}\varphi_i(m)\int_{\mathbb{M}} \varphi_i(m')\psi(m')\, v_g$$

$$=\; \sum_{i=0}^{\infty} e^{-\lambda_i t}\varphi_i(m) <\varphi_i, \psi> \qquad (1.3.8)$$

qui lorsque $t \to 0^+$ se résume à

$$\sum_{i=0}^{\infty} \varphi_i(m) <\varphi_i, \psi> = \psi(m) \qquad (1.3.9)$$

Donc, sous hypothèse que les dérivations, intégrations et passages à la limite soient légitimes, $\xi(m, m', t)$ est une SFEC.

Théorème 1.3.1 (voir [BGM]). *Une SFEC $E(m, m', t)$ existe et est unique. De plus, la série*

$$\xi(m, m', t) = \sum_{i=0}^{\infty} e^{-\lambda_i t}\varphi_i(m)\varphi_i(m') \qquad (1.3.10)$$

converge vers $E(m, m', t)$ sur $\mathbb{M} \times \mathbb{M} \times \mathbb{R}_+^*$.

Enfin, pour $m = m'$ on a

$$\int_{\mathbb{M}} \xi(m, m, t)\, v_g \;=\; \sum_{i=0}^{\infty} e^{-\lambda_i t}||\varphi_i(m)||^2 \qquad (1.3.11)$$

$$=\; \sum_{i=0}^{\infty} e^{-\lambda_i t} = Z(t) \qquad (1.3.12)$$

et le théorème suivant sur le développement asymptotique de $\xi(m, m, t)$.

Théorème 1.3.2 (voir [BGM]). *On a lorsque $t \to 0^+$ le développement asymptotique*

$$\xi(m, m, t) \sim (4\pi t)^{-(\frac{d}{2})}(a_0(m, m) + \ldots + a_k(m, m)t^k + \ldots) \qquad (1.3.13)$$

d'où s'il on pose $a_k = \int_{\mathbb{M}} a_k(m, m) \, v_g$ on obtient

$$Z(t) \sim (4\pi t)^{-(\frac{d}{2})}(a_0 + \ldots + a_k t^k + \ldots) \qquad (1.3.14)$$

Les $a_0, a_1, \ldots, a_k, \ldots$ sont des invariants riemanniens, les invariants de la chaleur de l'opérateur de Laplace. On sait en outre que ces invariants ne dépendent que de la courbure et de ses dérivées covariantes successives. Les invariants connus explicitement en terme de la courbure scalaire pour les 2-variétés riemanniennes ont été donnés dans [Be]. Nous avons

$$a_0 = \frac{1}{4\pi} \int_{\mathbb{M}} v_g \qquad (1.3.15)$$

nous indiquant le volume de notre variété riemannienne. Ensuite a_1, qui est aussi un invariant topologique, la caractéristique d'Euler $\frac{\chi(\mathbb{M})}{12}$ de notre variété,

$$a_1 = \frac{1}{4\pi} \frac{1}{6} \int_{\mathbb{M}} \tau \, v_g \qquad (1.3.16)$$

où τ désigne la courbure scalaire. Pour terminer,

$$a_2 = \frac{1}{4\pi} \frac{1}{360} \int_{\mathbb{M}} 6\tau^2 \, v_g \qquad (1.3.17)$$

et

$$a_3 = \frac{1}{4\pi} \frac{2}{7!} \int_{\mathbb{M}} (4\tau^3 - 9\tau \cdot \triangle(\tau)) \, v_g \qquad (1.3.18)$$

La construction d'une expression explicite en terme de courbure scalaire pour a_4 est une de nos découvertes principales. Il faut noter que nous pourrions construire ces invariants pour tout opérateur différentiel ayant les mêmes propriétés que le laplacien par le théorème (1.2.1), par exemple pour l'opérateur de Schrödinger (voir chapitre 3).

Chapitre 2

CALCUL DES INVARIANTS

2.1. LA MÉTHODE

La méthode utilisée pour le calcul des invariants est basée sur le travail et les resultats obtenus par I. Polterovich dans ([P1], [P2]). Dans les preuves nous ne faisons que remplacer les coordonnées normales utilisées par des coordonnées conformes. Le tout s'inspire du théorème d'expansion d'Agmon-Kannai ([AK]) qui décrit le comportement asymptotique des noyaus du résolvant d'opérateurs elliptiques.

Soit $\triangle$ le laplacien, qui est un opérateur elliptique auto-adjoint defini positif, et soit $\triangle_0$ l'opérateur obtenu du laplacien en fixant les coefficients de sa partie principale en un point $m \in \mathbb{M}$. Dénotons par $R_\lambda(m, m')$ le noyau du résolvant $R_\lambda = (\triangle - \lambda)^{-1}$, et par $F_\lambda(m, m')$ le noyau du résolvant $(\triangle_0 - \lambda)^{-1}$. Nous formulons alors le théorème suivant :

Théorème 2.1.1 (voir [P2]). *L'expansion asymptotique, lorsque $\lambda \to \infty$, du noyau du résolvant de l'opérateur de Laplace d'une 2-variété riemanienne $\mathbb{M}$ vérifie :*

$$\frac{d}{d\lambda} R_\lambda(m, m) \sim \frac{1}{\sqrt{g}} \sum_{l=0}^{\infty} (l+1) \, X_l \, F^{l+2}(m, m), \qquad (2.1.1)$$

où l'opérateur X_l est défini par

$$X_l = \sum_{k=0}^{l} (-1)^k \binom{l}{k} \triangle^k \triangle_0^{l-k}, \; l \geq 0. \qquad (2.1.2)$$

Nous avons la relation suivante entre les invariants de la chaleur $a_n(m)$ et la dérivée de $R_\lambda(m, m)$ en lambda.

Théorème 2.1.2 (voir [P2]). *L'expansion asymptotique , lorsque $\lambda \to \infty$, de la dérivée en λ de $R_\lambda(m,m)$ sur une 2-variété riemannienne $\mathbb{M}$ vérifie :*

$$\frac{d}{d\lambda} R_\lambda(m,m) \sim \sum_{n=0}^{\infty} \Gamma(n+1) \, a_n(m) \, (-\lambda)^{-(n+1)} \qquad (2.1.3)$$

où les $a_n(m)$ sont les invariants de la chaleur.

Nous introduisons la notation bi-indice, où $\alpha = (\alpha_1, \alpha_2)$ implique $|\alpha| = \alpha_1 + \alpha_2$ et $\alpha! = \alpha_1! \, \alpha_2!$. De plus, pour tout vecteur $x = (x_1, x_2)$, nous dénotons $x^\alpha = x_1^{\alpha_1} x_2^{\alpha_2}$ et $\frac{\partial^\alpha}{\partial x^\alpha} = \frac{\partial^{\alpha_1}}{\partial x_1^{\alpha_1}} \frac{\partial^{\alpha_2}}{\partial x_2^{\alpha_2}}$. Nous exprimons alors l'équation (2.1.1) en terme de puissance de $-\lambda$ (intégrant par rapport à x) par la formule suivante (voir [AK]) :

$$\frac{\partial^\gamma}{\partial x^\gamma} F_\lambda^{(l+2)}(x,x) = (-\lambda)^{\frac{|\gamma|}{2}-l-1} \frac{(-1)^{|\gamma|/2}}{(2\pi)^2} \int_{\mathbb{R}^2} \frac{\xi^\gamma}{(\triangle_0(\xi)^2 + 1)^{l+2}} \, d\xi \qquad (2.1.4)$$

où $\triangle_0(\xi)$ correspond au symbole de l'opérateur $\triangle_0$, et où $\gamma = (\gamma_1, \gamma_2)$ et $\alpha = (\alpha_1, \alpha_2)$ sont bi-indices.

Théorème 2.1.3. *Sur une 2-variété riemannienne compacte sans bord munie de coordonnées conformes (x_1, x_2) telles que $g_{ii}(0,0) = 1$. Les invariants de la chaleur au point $(0,0)$ sont donnés par*

$$a_n(0,0) = \qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad (2.1.5)$$

$$\frac{(-1)^n}{(4\pi)} \sum_{l=n}^{4n} \sum_{k=n}^{l} \frac{1}{k! \, 2^{(2l-2n)}} \sum_{|\alpha|=l-k} \sum_{|\beta|=k-n} \frac{(2\alpha+2\beta)!}{\alpha!(\alpha+\beta)!(2\beta)!} \triangle^k (x^{2\beta})|_{x=0}$$

où $\alpha = (\alpha_1, \alpha_2)$ et $\beta = (\beta_1, \beta_2)$ sont bi-indices.

DÉMONSTRATION. Dans les coordonnées conformes décrient ci-dessus la partie principale de l'opérateur $\triangle_0$ coincide avec celle du laplacien sur $\mathbb{R}^2$, c'est-à-dire,

$$\triangle_0 = -\left(\frac{\partial^2}{\partial x_1^2} + \frac{\partial^2}{\partial x_2^2} \right) \qquad (2.1.6)$$

Si nous nous basons sur l'équation (2.1.3) pour calculer l'invariant $a_n(m)$ nous devons regrouper tous les termes de l'équation (2.1.1) contenant l'expression $(-\lambda)^{-(n+1)}$. Alors, de l'équation (2.1.4), nous avons

$$\frac{|\gamma|}{2} - l - 1 = -(n+1) \qquad (2.1.7)$$

qui implique notamment $|\gamma| = 2l - 2n$ et $l \geq n$. De même en se basant sur certains résultats obtenus dans ([P1]) (Lemme 3.1 et Théorème 5.1) sur l'ordre de l'opérateur X_l nous avons $l \leq 4n$. De l'équation (2.1.6), nous déduisons que γ_1, γ_2 sont des multiples de 2, l'intégrale dans (2.1.4) s'annulant dans les autres cas. Posons alors $\gamma = 2\mu = (2\mu_1, 2\mu_2)$, en se rappelant que $|\mu| = l - n$, nous calculons l'intégrale (voir [GR]) :

$$\int_{\mathbb{R}^2} \frac{\xi^{2\mu}}{(\triangle_0(\xi)^2 + 1)^{l+2}} \, d\xi = \frac{\Gamma(\mu_1 + \frac{1}{2}) \, \Gamma(\mu_2 + \frac{1}{2}) \, \Gamma(n+1)}{(l+1)!} \tag{2.1.8}$$

Maintenant nous substituons (2.1.8) dans (2.1.4), intégrons par rapport $x = (x_1, x_2)$ de manière appropriée, et insérons le résultat dans (2.1.1). De l'équation (2.1.3) nous obtenons

$$a_n(0,0) = \tag{2.1.9}$$
$$\sum_{l=n}^{4n} \sum_{k=0}^{l} \frac{(-1)^{k+l-n}}{l!(2\pi)^2} \binom{l}{k} \triangle^k \triangle_0^{(l-k)} \left(\sum_{|\mu|=l-n} \frac{x^{2\mu}}{(2\mu)!} \prod_{i=1}^{2} \left(\Gamma\left(\mu_i + \frac{1}{2}\right) \right) \right) \Bigg|_{x=0}$$

Pour simplifier la formule obtenue notons tout d'abord que

$$\triangle_0^{(l-k)} = (-1)^{(l-k)} \sum_{|\beta|=l-k} \frac{(l-k)!}{\beta!} \frac{\partial^{2\beta}}{\partial x^{2\beta}} \tag{2.1.10}$$

où $\beta = (\beta_1, \beta_2)$. Nous utiliserons aussi une représentation bien connue de la fonction Gamma

$$\Gamma\left(k + \frac{1}{2}\right) = \frac{\sqrt{\pi}(2k)!}{4^k k!} \tag{2.1.11}$$

pour obtenir

$$\prod_{i=1}^{2} \Gamma\left(\mu_i + \frac{1}{2}\right) = \frac{\pi}{2^{(2l-2n)}} \frac{(2\mu)!}{\mu!} \tag{2.1.12}$$

Subtituons (2.1.10) et (2.1.12) dans (2.1.9) tout en appliquant $\triangle_0^{(l-k)}$ à $x^{2\mu}$. En posant $\alpha = \mu - \beta$, nous vérifions que tous les termes tels que $k \leq n$ s'annulent, et obtenons l'équation

$$a_n(0,0) = \tag{2.1.13}$$
$$\frac{(-1)^n}{(4\pi)} \sum_{l=n}^{4n} \sum_{k=n}^{l} \frac{1}{k!} \frac{1}{2^{(2l-2n)}} \sum_{|\alpha|=l-k} \sum_{|\beta|=k-n} \frac{(2\alpha+2\beta)!}{\alpha!(\alpha+\beta)!(2\beta)!} \triangle^k(x^{2\beta})|_{x=0}$$

d'où notre résultat pour $a_n(0,0)$. $\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\quad\square$

Afin de simplifier ce premier résultat nous aurons besoin du lemme

Lemme 2.1.1 (voir [P2]).

$$\sum_{a=0}^{u} \binom{z+a}{a} \binom{w+u-a}{u-a} = \binom{z+w+u+1}{z+w+1} \qquad (2.1.14)$$

et du théorème

Théorème 2.1.4 (voir [P2]). *Soit* $\alpha = (\alpha_1, \alpha_2)$ *et* $\beta = (\beta_1, \beta_2)$ *tel que* $|\beta| = v$. *Alors, nous avons*

$$\sum_{|\alpha|=u} \frac{(2\alpha + 2\beta)!}{\alpha!(\alpha+\beta)!(2\beta)!} = 4^u \binom{u+v}{u} \qquad (2.1.15)$$

Nous nous inspirons directement du théorème suivant pour le calcul des invariants de la chaleur.

Théorème 2.1.5. *Sur une 2-variété riemannienne compacte sans bord munie de coordonnées conformes* (x_1, x_2) *telles que* $g_{ii}(0,0) = 1$. *Les invariants de la chaleur au point* $(0,0)$ *sont donnés par*

$$a_n(0,0) = \frac{(-1)^n}{4\pi} \sum_{j=0}^{3n} \binom{3n+1}{j+1} \frac{\triangle^{(j+n)}(x_1^2 + x_2^2)^j}{4^j \, j! \, (j+n)!} \Big|_{x=0} \qquad (2.1.16)$$

DÉMONSTRATION. Nous pouvons reformuler l'équation (2.1.5) par

$$a_n(0,0) = \qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad (2.1.17)$$

$$\frac{(-4)^n}{4\pi} \sum_{k=n}^{4n} \frac{1}{k!} \triangle^k \left(\sum_{l=k}^{4n} \frac{1}{4^l} \sum_{|\beta|=k-n} \left(\sum_{|\alpha|=l-k} \frac{(2\alpha+2\beta)!\beta!}{\alpha!(\alpha+\beta)!(2\beta)!} \right) \frac{1}{\beta!} x^{2\beta} \right) \Bigg|_{x=0}$$

tout en observant que par le théorème binomial

$$\sum_{|\beta|=k-n} \frac{1}{\beta!} x^{2\beta} = \frac{1}{(k-n)!}(x_1^2 + x_2^2)^{(k-n)} \qquad (2.1.18)$$

Posons $u = l - k$ et $v = k - n$, en combinant le théorème (2.1.3), le théorème (2.1.4) et l'équation (2.1.18) nous avons

$$a_n(0,0) = \frac{(-4)^n}{4\pi} \sum_{k=n}^{4n} \left(\sum_{l=k}^{4n} \binom{m-n}{l-k} \right) \frac{\triangle^k(|x|^{(2k-2n)})|_{x=0}}{k! \, 4^k} \qquad (2.1.19)$$

où $|x|^2 = x_1^2 + x_2^2$. Dénotons $i = m - k$ et $j = k - n$, en utilisant le lemme (2.1.1) nous pouvons réécrire

$$\sum_{i=0}^{4n-k} \binom{i+k-n}{i} = \binom{3n+1}{j+1} \qquad (2.1.20)$$

Pour finalement obtenir de (2.1.19) et (2.1.20)

$$a_n(0,0) = \frac{(-1)^n}{4\pi} \sum_{j=0}^{3n} \binom{3n+1}{j+1} \frac{\triangle^{(j+n)}(x_1^2 + x_2^2)^j}{4^j \, j! \, (j+n)!}|_{x=0} \qquad (2.1.21)$$

d'où notre résultat pour $a_n(0,0)$. $\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $\square$

Remarque 2.1.1. *En coordonnées conformes, l'expression $x_1^2 + x_2^2$ ne correspond plus au carré de la distance riemannienne entre les points $(0,0)$ et (x_1, x_2). Contrairement à ce qui se passe en coordonnées normales et desquelles on déduit le théorème (1.2.1) de ([P2]).*

On peut utiliser l'expression donnée en (2.1.16) pour calculer les invariants de la chaleur de n'importe quelle 2-variété riemannnienne. En effet, il nous est toujours possible de trouver des coordonnées conformes ([DFN]), que nous pouvons renormaliser en $(0,0)$. Dans ces coordonnées, le laplacien est donné par

$$\triangle = u(x_1, x_2) \left(\frac{\partial^2}{\partial x_1^2} + \frac{\partial^2}{\partial x_2^2} \right) \qquad (2.1.22)$$

avec

$$u(x_1, x_2) = -\frac{1}{g_{ii}(x_1, x_2)} \qquad i = \{1, 2\} \qquad (2.1.23)$$

et $u(0,0) = -1$. L'invariant $a_n(m)$ est alors un polynôme s'écrivant en fonction des dérivées partielles de $u(x_1, x_2)$, chaque terme y possédant un ordre de dérivation égal à $(2n)$. Comme l'indique l'équation (2.1.16) la complexité des calculs croît fortement avec le rang n des invariants.

2.2. VÉRIFICATION DE a_1, a_2 ET a_3

Les invariants de la chaleur peuvent s'écrire en terme de courbure scalaire $\tau :$ $\mathbb{M} \rightarrow \mathbb{R}$ pour une 2-variété riemannienne ([Gi]). Or, on peut exprimer la courbure scalaire en fonction de $u(x_1, x_2)$ par

$$\tau(x_1, x_2) = \frac{u_{x_1}^2 + u_{x_2}^2 - u u_{x_1 x_1} - u u_{x_2 x_2}}{u} \qquad (2.2.1)$$

En dénotant les invariants de la chaleur, calculés à partir de l'équation (2.1.16), par $b_i(x_1, x_2)$. Nous obtenons

$$b_1(x_1, x_2) = \frac{1}{4\pi} \frac{1}{6} \tau \tag{2.2.2}$$

$$b_2(x_1, x_2) = \frac{1}{4\pi} \frac{1}{360} [6\tau^2 + 12\Delta(\tau)] \tag{2.2.3}$$

$$b_3(x_1, x_2) = \frac{1}{4\pi} \frac{2}{7!} [4\tau^3 - 9\tau \cdot \Delta\tau + 9\Delta^2(\tau) - 6\Delta(\tau^2)] \tag{}$$

Ce qui donne après intégration, le laplacien étant un opérateur auto-adjoint sur une variété riemannienne compacte,

$$b_1 = \frac{1}{4\pi} \frac{1}{6} \int_{\mathbb{M}} \tau \, v_g \tag{2.2.4}$$

$$b_2 = \frac{1}{4\pi} \frac{1}{360} \int_{\mathbb{M}} 6\tau^2 \, v_g \tag{2.2.5}$$

$$b_3 = \frac{1}{4\pi} \frac{2}{7!} \int_{\mathbb{M}} [4\tau^3 - 9\tau \cdot \Delta\tau] \, v_g \tag{2.2.6}$$

Corroborant les résultats énoncés plus haut et décrits par M. Berger ([Be]). La vérification de nos résultats a été faite avec *Mathematica*. Les programmes ont été mis en annexe.

2.3. CALCUL DE a_4

Théorème 2.3.1. *Une expression pour $a_4(m)$ où $m \in \mathbb{M}$ en terme de la courbure scalaire pour une 2-variété riemannienne compacte sans bord est donnée par*

$$a_4(m) = \frac{1}{4\pi} \frac{1}{3 \cdot 7!} [3\tau^4 + 4\tau \cdot \Delta^2(\tau) + 2\Delta(\tau) \cdot \Delta(\tau) -$$
$$9\tau^2 \cdot \Delta(\tau) + 6\Delta(\tau \cdot \Delta(\tau)) - \tag{2.3.1}$$
$$5\Delta(\tau^3) + 3\Delta^2(\tau^2) - 4\Delta^3(\tau)]$$

d'où l'on obtient

$$a_4 = \frac{1}{4\pi} \frac{1}{3 \cdot 7!} \int_{\mathbb{M}} [3\tau^4 + 6\tau \cdot \Delta^2(\tau) - 9\tau^2 \cdot \Delta(\tau)] \, v_g \tag{2.3.2}$$

DÉMONSTRATION. Soit $a_4(0,0)$ le quatrième invariant de la chaleur calculé de l'équation (2.1.16). Notre invariant est alors un polynôme s'écrivant en fonction des dérivées partielles de u que nous évaluons en $(x_1, x_2) = (0,0)$. Les invariants

en dimensions 2 sont déterminés par la courbure scalaire τ de la variété et par le laplacien $\triangle$ appliqué à cette courbure ([Gi], [OPS]). De plus, l'ordre de chaque terme est égal à $(2 \cdot 4)$ ([BGM]). Comme la courbure scalaire est déjà d'ordre 2 et que chaque application du laplacien à la courbure augmente l'ordre de dérivation de 2, nous sommes restreint dans les expressions que nous pouvons former à partir de τ et $\triangle$. Aussi, si nous construisons une expression linéaire en :

$$\tau^4, \ \tau \cdot \triangle^2(\tau), \ \triangle(\tau) \cdot \triangle(\tau), \ \tau^2 \cdot \triangle(\tau), \ \triangle(\tau \cdot \triangle(\tau)), \ \triangle(\tau^3), \ \triangle^2(\tau^2), \ \triangle^3(\tau)$$

vérifiant $a_4(0,0)$ - [combinaison linéaire $]|_{x=0} = 0$ nous solutionnons notre problème. Nous exprimons localement τ en fonction des dérivées partielles de u par

$$\tau(x_1, x_2) = \frac{u_{x_1}^2 + u_{x_2}^2 - u u_{x_1 x_1} - u u_{x_2 x_2}}{u} \qquad (2.3.3)$$

et réécrivons chacune de ces expressions

$$\tau^4(0,0) = (\ u_{x_2}(0,0)^8 + \ldots + u_{x_1 x_1}(0,0)^4\ )$$
$$\vdots$$
$$\triangle^3(\tau)(0,0) = (\ 144 u_{x_2}(0,0)^8 + \ldots + u_{8x_1}(0,0)\ )$$

(voir l'annexe E et les programmes écrits en *Mathematica* pour avoir une idée du type d'expressions générées). Le système que nous devons résoudre correspond alors à

$$c_1\ a_4(0,0) + c_2\ \tau^4(0,0) + \ldots + c_8\ \triangle^3(\tau)(0,0) = 0$$

où les $c_1, \ldots, c_8$ sont les constantes à découvrir. Cette dernière expression donne naissance au système d'équations linéaires suivant

$$\left(-\frac{47}{3024}\ c_1\ + c_2 + \ldots + 144\ c_8 \right)\ u_{x_2}(0,0)^8 = 0$$
$$\vdots$$
$$\left(-\frac{1}{3780}\ c_1\ + 0\ c_2 + \ldots +\ c_8 \right)\ u_{8x_1}(0,0) = 0$$

que nous résolvons pour obtenir

$$a_4(0,0) \; - \; \frac{1}{3 \cdot 7!} \left[\, 3\tau^4 \; + \; 4\tau \cdot \triangle^2(\tau) \; + \; 2\triangle(\tau) \cdot \triangle(\tau) \; - \right.$$

$$9\tau^2 \cdot \triangle(\tau) \; + \; 6\triangle(\tau \cdot \triangle(\tau)) \; - \; 5\triangle(\tau^3) \; + \; 3\triangle^2(\tau^2) \; - \qquad (2.3.5)$$

$$\left. 4\triangle^3(\tau) \, \right] \, \big|_{(x_1,x_2)=(0,0)} \; = 0$$

d'où notre résultat pour $a_4(m)$. Il nous suffit d'intégrer sur $\mathbb{M}$, gardant à l'esprit que le laplacien est un opérateur auto-adjoint sur une variété riemannienne compacte, pour finalement obtenir a_4. $\qquad \square$

Nous avons été en mesure de vérifier que pour $\mathbb{S}^2$ ce résultat concorde avec celui déjà trouvé ([P3]). De même, il nous a été possible de vérifier le coefficient du terme d'ordre supérieur,

$$\frac{1}{4\pi} \, \frac{1}{3 \cdot 7!} \, 6 \int_{\mathbb{M}} \tau \cdot \triangle^2(\tau) \, v_g \qquad (2.3.6)$$

qui correspond bien à la formule donnée par B. Osgood, R. Phillips et P. Sarnak ([OPS]). Le programme vérifiant l'égalité de a_4 avec l'expression donnée en terme de courbure scalaire a été mis en annexe.

Remarque 2.3.1. *Après la soumission du mémoire, nous avons appris que la même expression a été trouvée pour a_4 en dimensions 2 par P. Gilkey dans sa Thèse de doctorat (1972). La méthode utilisée est bien sûr complètement différente.*

Chapitre 3

APPLICATION DES INVARIANTS DE LA CHALEUR AU CALCUL DE LA HIÉRARCHIE DE KORTEWEG-DE VRIES

3.1. INTRODUCTION

L'équation de Korteweg-de Vries (3.1.1), qui représente la propagation d'ondes en eau peu profonde, est un système exactement intégrable ([ZF])

$$u_t = 6uu_x + u_{xxx}. \tag{3.1.1}$$

Plusieurs systèmes exactement intégrables sont connus ; on peut penser à l'équation non linéaire de Schrödinger (NLS), à l'équation de Sin(Sinh)-Gordon ou à l'équation de Landau-Lifshitz. On peut aussi penser à la hiérarchie de KdV qui est un ensemble d'équations évolutives exactement intégrables. En fait, la hiérarchie est générée par les intégrales premières de l'équation (3.1.1). Ces équations possèdent les mêmes intégrales premières que celles de l'équation de KdV et se décrivent par une expression polynomiale en $u(x,t)$ et en dérivées partielles de $u(x,t)$. On appelle équation d'ordre n, l'équation générée par la n−ième intégrale première. C'est la hiérarchie que nous allons étudier, via une méthode développée par I. Polterovich ([P1], [P2]) et qui fait intervenir la SFEC de l'opérateur de Schrödinger. Au meilleur de notre connaissance, des expressions explicites n'ont été trouvées que pour les 5 premiers membres de la hiérarchie ([GD]), alors qu'on a calculé ses 11 premières lois de conservation ([GGKM]). La complexité des calculs à effectuer croît fortement avec l'ordre de l'équation. À l'heure actuelle, nous

sommes en mesure de calculer la 18e équation. Nous commençons par faire un tour d'horizon du formalisme hamiltonien.

3.2. FORMALISME HAMILTONIEN

3.2.1. Hamiltonien sur $\mathbb{R}^{2n}$

Un système hamiltonien de n degrés de liberté est un système d'équation du premier ordre dont la dynamique est décrite par

$$\dot{p} = -\frac{\partial H}{\partial q} \tag{3.2.1}$$

$$\dot{q} = \frac{\partial H}{\partial p} \tag{3.2.2}$$

où p et q sont éléments de $\mathbb{R}^n$ et $H(p,q)$ est une fonction de $\mathbb{R}^{2n}$ dans $\mathbb{R}$. On nomme H la fonction hamiltonienne, les fonctions q coordonnées généralisées et les fonctions p moments conjugués. Les paires (p_i, q_i), $1 \leq i \leq n$, sont appelées variables conjuguées.

Exemple 3.2.1. *Avec $H(p,q) = p^2/2 + q^2/2$ nous obtenons $\dot{p} = -q$ et $\dot{q} = p$, l'oscillateur harmonique.*

Définition 3.2.1. *Une algèbre de Lie est un espace vectoriel muni d'une opération bilinéaire antisymétrique $\{,\} : L \times L \longrightarrow L$ vérifiant l'identité de Jacobi :*

$$\{\{E, F\}, G\} + \{\{F, G\}, E\} + \{\{G, E\}, F\} = 0. \tag{3.2.3}$$

Il existe une seule solution associée à notre système hamiltonien pour chaque point $(p_0, q_0) \in \mathbb{R}^{2n}$, ce point représentant les conditions initiales du système. Si $(p(t), q(t))$ est la solution de notre système hamiltonien ayant comme conditions initiales (p_0, q_0), alors, pour chaque $t \in \mathbb{R}$ nous définissons le difféomorphisme

$$\phi_t : \mathbb{R}^{2n} \longrightarrow \mathbb{R}^{2n}$$

$$(p_0, q_0) \longmapsto (p(t), q(t))$$

Ces difféomorphismes forment un groupe sous composition que l'on nomme flot hamiltonien ([Ar]).

Définition 3.2.2. *Soit H une fonction hamiltonienne et $F : \mathbb{R}^{2n} \longrightarrow \mathbb{R}$. On définit le crochet de Poisson de F par rapport à H comme la dérivée de F dans la direction du flot hamiltonien $\phi_t(x)$:*

$$\{F, H\}(x) = \frac{d}{dt} F(\phi_t(x))|_{t=0} \tag{3.2.4}$$

Le crochet définit une structure d'algèbre de Lie sur l'espace des fonctions de $\mathbb{R}^{2n}$ dans $\mathbb{R}$. Maintenant, nous pouvons calculer le crochet de Poisson des fonctions F et H dans l'espace $\mathbb{R}^{2n}$

$$\{F, H\} = \sum_{i=1}^{n} \frac{\partial H}{\partial p_i} \frac{\partial F}{\partial q_i} - \frac{\partial H}{\partial q_i} \frac{\partial F}{\partial p_i} \tag{3.2.5}$$

On remarque que $\dot{q}_i = \{q_i, H\}$ et $\dot{p}_i = \{p_i, H\}$ ce qui nous permet d'exprimer notre système d'équations à l'aide du crochet de Poisson de l'équation (3.2.5). La fonction $v(p, q)$ définie et continue sur $\mathbb{R}^{2n}$ est appelée intégrale première de notre système hamiltonien si, en portant une solution arbitraire $(p(t), q(t))$ de notre système dans $v(p, q)$, nous obtenons une grandeur constante ne dépendant que de la solution et non de la variable t. Nous avons alors :

$$\frac{d}{dt} v(p(t), q(t)) = 0 \tag{3.2.6}$$

Les intégrales premières nous permettront de trouver de nouvelles coordonnées dans lesquelles le système hamiltonien sera plus facilement résolu. Elles sont les invariants du système.

Théorème 3.2.1 (voir [Ar]). *Une condition nécessaire et suffisante pour qu'une fonction F soit intégrale première du système hamiltonien H est que leur crochet de Poisson soit identiquement nul : {F,H}=0.*

Définition 3.2.3. *F, G des fonctions de $\mathbb{R}^{2n}$ dans $\mathbb{R}$ sont dites en involution si leur crochet de Poisson est identiquement nul : {F,G}= 0.*

Dans un système hamiltonien on peut toujours trouver une intégrale première, l'hamiltonien étant en involution avec lui-même par antisymétrie, nous avons $\{H, H\} = 0$. Ceci prouve qu'un système à un degré de liberté est toujours intégrable en termes d'une quadrature par le théorème de Liouville.

Théorème 3.2.2 (Liouville, voir [Ar]). *Si dans un système de n degrés de liberté on connaît n intégrales premières indépendantes en involution, alors ce système s'intègre par quadratures.*

Le théorème dit plus précisément que le système hamiltonien peut être transformé tout en conservant sa structure dans de nouvelles coordonnées, les variables action-angle, dans lesquelles il est complètement séparable. Les variables d'action s'écrivent en fonction des intégrales premières et sont constantes dans le temps alors que les variables angle changent linéairement par rapport au temps. Le mouvement est quasi périodique et se déroule sur un n-tore.

3.2.2. KdV et formalisme hamiltonien

On peut donner une structure hamiltonienne à l'équation de KdV ([Di], [GD]). L'hamiltonien que nous définissons est une fonctionnelle sur l'algèbre des polynômes en u, u_x, ..., $u_{x...x}$, ... Les fonctions u à considérer sont soit périodiques soit à décroissance rapide. Dans ce qui suit nous traitons le cas où $u \in \mathbb{S}(\mathbb{R})$, c'est-à-dire $u \in C^\infty(\mathbb{R})$ telles que $Sup_{x \in \mathbb{R}}|x^m u^{(n)}(x)| < +\infty$ pour tout $n, m \in \mathbb{N}$. Nous définissons un crochet de Poisson à l'aide de la dérivée variationnelle.

Définition 3.2.4. *La dérivée variationnelle $\delta F/\delta u$ de la fonctionnelle F est donnée par (3.2.7) où le terme principal dépend linéairement de δu et le terme secondaire est $O(\delta u^2)$:*

$$F[u + \delta u] - F[u] = \int_{-\infty}^{+\infty} \frac{\delta F}{\delta u} \delta u \, dx + O(\delta u^2) \tag{3.2.7}$$

L'équation de KdV est exceptionnelle du fait qu'elle possède une structure bi-hamiltonienne. Nous pouvons la décrire à l'aide deux hamiltoniens et crochets de Poisson distincts. Premièrement, nous posons comme hamiltonien la fonctionnelle

$$H_1[u] = \int_{-\infty}^{+\infty} \left(\frac{u_x^2}{2} + u^3 \right) dx \tag{3.2.8}$$

et

$$\{S, R\}_1 = \int_{-\infty}^{+\infty} \frac{\delta S}{\delta u} \frac{\partial}{\partial x} \frac{\delta R}{\delta u} \, dx \tag{3.2.9}$$

comme crochet de Poisson. Nous vérifions alors que la dérivée variationelle de H_1 est donnée par $\delta H_1/\delta u = 3u^2 - u_{xx}$ et qu'en calculant $\dot{u} = \{u, H_1\}_1 = 6uu_x - u_{xxx}$, nous obtenons l'équation de KdV. De la même manière en posant

$$H_2[u] = \int_{-\infty}^{+\infty} \frac{u^2}{2}\, dx \tag{3.2.10}$$

$$\{S, R\}_2 = \int_{-\infty}^{+\infty} \frac{\delta S}{\delta u}\left(\frac{-d^3}{dx^3} + 2\left(u\frac{d}{dx} + \frac{d}{dx}u\right)\right)\frac{\delta R}{\delta u}\, dx \tag{3.2.11}$$

nous obtenons de nouveau l'équation de KdV.

Remarque 3.2.1. *La différence de signe que nous obtenons n'est pas problématique. Nous pouvons procéder au changement de variable $u(x,t) = -v(-x,t)$ et retrouver l'équation initiale (3.1.1).*

Les équations de KdV d'ordre supérieur sont générées à partir des intégrales premières de (3.1.1) c'est-à-dire des fonctionnelles I_n telles que $\{I_n, H_1\}_1 = 0$ ($\{I_n, H_2\}_2 = 0$). L'équation de KdV d'ordre n est donnée par

$$\dot{u} = \frac{\partial}{\partial x}\frac{\delta I_n}{\delta u} \tag{3.2.12}$$

où l'expression $\delta I_n/\delta u$ est la dérivée variationelle de l'intégrale première I_n. Connaissant les intégrales premières de (3.1.1), nous serions à même de construire la hiérarchie.

3.3. ÉQUATION DE KDV D'ORDRE SUPÉRIEUR

Nous voulons maintenant montrer comment il est possible d'obtenir les KdV d'ordre supérieur du formalisme bi-hamiltonien développé par F. Magri ([Ma]), pour ensuite dériver les mêmes équations à l'aide d'une méthode faisant intervenir l'opérateur de Schrödinger $L = -\partial_{xx} + u(x,t)$ intimement lié à l'équation de KdV.

3.3.1. KdV d'ordre supérieur du formalisme bi-hamiltonien

L'équation de KdV (3.1.1) possède une structure bi-hamiltonienne. En effet, il est possible de l'obtenir des hamiltoniens H_1 (3.2.8) et H_2 (3.2.10).

Définition 3.3.1. *Les crochets de Poisson $\{,\}_1$ et $\{,\}_2$ sont dits compatibles si pour tout λ l'expression $\{,\}_1 + \lambda\, \{,\}_2$ est aussi un crochet de Poisson.*

Définition 3.3.2. *Un crochet de Poisson est dégénéré s'il existe un élément F, l'annulateur du crochet, tel que pour tout G le crochet de Poisson de F et G est identiquement nul : {F,G}=0.*

On peut montrer que les crochets $\{,\}_1$ et $\{,\}_2$ définis en (3.2.9) et (3.2.10) sont compatibles. Essayons de caractériser les annulateurs du crochet de Poisson $\{,\} = \{,\}_1 + \lambda \{,\}_2$. Considérons l'expansion asymptotique en λ de l'annulateur $I = \sum_{i=0}^{\infty} \lambda^i I_i$ du crochet défini ci-dessus. En évaluant $\{g, I\}$, où g est une fonctionnelle quelconque,

$$\{g, I\}_1 + \lambda\{g, I\}_2 = 0$$

$$\{g, I_0 + \lambda I_1 + \lambda^2 I_2 + \ldots\}_1 + \lambda\{g, I_0 + \lambda I_1 + \lambda^2 I_2 + \ldots\}_2 = 0$$

$$\{g, I_0\}_1 = 0$$

$$\{g, I_1\}_1 + \{g, I_0\}_2 = 0$$

$$\vdots$$

$$\{g, I_{k+1}\}_1 + \{g, I_k\}_2 = 0$$

$$\vdots$$

nous obtenons une suite récursive nous permettant de calculer chacun des termes de notre expansion asymptotique. Il nous faut tout d'abord calculer le premier terme de notre suite I_0, ce qui se fait assez facilement,

$$\int\limits_{-\infty}^{+\infty} \frac{\delta g}{\delta u} \frac{\partial}{\partial x} \frac{\delta I_0}{\delta u}\, dx = 0 \Rightarrow \frac{\partial}{\partial x} \frac{\delta I_0}{\delta u} = 0 \Rightarrow I_0 = \int\limits_{-\infty}^{+\infty} C_0\, u\, dx \qquad (3.3.1)$$

où ici C_0 est une constante arbitraire. Les termes d'ordre plus élevé sont bien sûr plus difficiles à obtenir. Mais nous pouvons expliciter I_1 et I_2, qui correspondent

aux hamiltoniens des équations (3.2.8) et (3.2.10).

$$I_1 \;\; = \;\; -\int\limits_{-\infty}^{+\infty} \frac{u^2}{2}\,dx \qquad\qquad (3.3.2)$$

$$I_2 \;\; = \;\; \int\limits_{-\infty}^{+\infty} \frac{u_x^2}{2} + u^3\,dx \qquad\qquad (3.3.3)$$

Les fonctionnelles I_n sont les intégrales premières de (3.1.1) et de la hiérarchie de KdV. Elles sont indépendantes et en involution, leur crochet de Poisson est identiquement nul pour tout i,j. En effet, soient $i,j \in \mathbb{N}$ tels que $i < j$, de la relation récursive obtenue plus haut nous avons

$$\{I_i, I_j\} = -\{I_i, I_{j-1}\} = \dots = (-1)^{(j-i)}\{I_i, I_i\} = 0 \qquad\qquad (3.3.4)$$

L'équation KdV d'ordre n est donnée par $\dot{u} = \{u, I_n\}$ ou en calculant la dérivée variationelle des I_n par l'équation (3.2.12).

3.3.2. KdV d'ordre supérieur de l'opérateur de Schrödinger

Nous pouvons retrouver les intégrales premières de l'équation de KdV (3.1.1) du problème spectral de l'opérateur de Schrödinger

$$-\psi_{xx} + (-\lambda + u(x,t))\psi = 0 \qquad\qquad (3.3.5)$$

où le potentiel $u \in \mathbb{S}(\mathbb{R})$. En fait, laissons le potentiel de l'opérateur varier comme une solution de (3.1.1) et demandons-nous comment les valeurs propres $\lambda(t)$ réagiront. On peut faire ceci en remplaçant le potentiel $u(x,t)$ de l'équation (3.3.5) dans l'équation (3.1.1). On remarque alors que le spectre de notre opérateur est constant dans le temps, c'est-à-dire que $\lambda_t = 0$. On en conclut que chacune des valeurs propres λ du problème de Schrödinger avec des conditions nulles à l'infini est intégrale première de l'équation de KdV. Pour calculer les intégrales premières de (3.1.1), il suffit de transformer notre équation spectrale (3.3.5) en équation de Riccati. Posons $\lambda = k^2$ et $\chi = -i\frac{\psi'}{\psi}$ et utilisons l'équation (3.3.5) pour obtenir

$$-i\chi' + \chi^2 = k^2 - u \qquad\qquad (3.3.6)$$

Exprimons ensuite χ asymptotiquement par

$$\chi = k + \sum_{n=1}^{\infty} \frac{\chi_n}{(2k)^n} \tag{3.3.7}$$

et évaluons (3.3.7) dans (3.3.6). Nous obtenons finalement la relation de récurrence voulue

$$\chi_{n+1} = i\chi_n' - \sum_{r=1}^{n-1} \chi_r \chi_{n-r}$$

$$\chi_1 = -u$$

$$\chi_2 = i\chi_1' = -iu_x$$

$$\chi_3 = i\chi_2' - \chi_1^2 = u_{xx} - u^2$$

$$\chi_4 = i\chi_3' - 2\chi_1\chi_2 = i(u_{xx} - u^2)_x - 2iuu_x = i(u_{xx} - 2u^2)_x$$

$$\chi_5 = i\chi_4' - 2\chi_1\chi_3 - \chi_2^2 = i\chi_4' + 2uu_x - 2u^3 + u_x^2$$

En se remémorant que $u \in \mathbb{S}(\mathbb{R})$, et en utilisant la relation décrite ci-dessus, nous intégrons

$$\int_{-\infty}^{+\infty} \chi_1\, dx = - \int_{-\infty}^{+\infty} u\, dx$$

$$\int_{-\infty}^{+\infty} \chi_2\, dx = -i \int_{-\infty}^{+\infty} u_x\, dx = 0$$

$$\int_{-\infty}^{+\infty} \chi_3\, dx = - \int_{-\infty}^{+\infty} u^2\, dx$$

$$\int_{-\infty}^{+\infty} \chi_4\, dx = i \int_{-\infty}^{+\infty} (u_{xx} - 2u^2)_x\, dx = 0$$

$$\int_{-\infty}^{+\infty} \chi_5\, dx = \int_{-\infty}^{+\infty} (2uu_{xx} - 2u^3 + u_x)^2\, dx = \int_{-\infty}^{+\infty} (-2u^3 - u_x)\, dx$$

On remarque tout d'abord que $\chi_2 = \chi_4 = 0$ puisque ce sont des dérivées totales et que $u \in \mathbb{S}(\mathbb{R})$. En fait, toutes les fonctions paires χ_{2n} sont des dérivées totales et des imaginaires purs : cela tient à ce que, comme le montre l'équation de Riccati (3.3.6)

$$\chi_{Im} = -\frac{1}{2}(ln\ \chi_{Re})' \tag{3.3.8}$$

où $\chi = \chi_{Re} + \chi_{Im}$. Par contre, on remarque que χ_3 et χ_5 correspondent à une constante près aux intégrales premières trouvées précédemment, notamment

aux hamiltoniens (3.2.8) et (3.2.10). Nous pouvons alors retrouver chacun des membres de notre hiérarchie par l'équation (3.2.12).

3.4. Asymptotique de l'opérateur de Schrödinger

Dans les cas étudiés jusqu'ici (voir section 3.2), il nous a été possible de retrouver la hiérarchie des intégrales premières de l'équation (3.1.1). Par contre, les deux méthodes utilisées étaient récursives et difficilement programmables sur un système algébrique de calcul. Elles font appel à l'opération d'intégration sur des expressions polynomiales en $u, u^{(1)}, u^{(2)}, ..., u^{(m)}$ alors qu'il est ardu de reconnaître les changements de variables appropriés dans une opération d'intégration symbolique. Par exemple, vérifier que $\int_{-\infty}^{+\infty} \chi_4 \, ds = 0$ est une opération complexe en programmation. Or, des expressions fermées seraient souhaitables. De telles expressions ont déjà été trouvées par R. Schimming ([Sc]), par I. Avramidi et R. Schimming ([AvSc]) et par I. Polterovich ([P1], [P2]).

3.4.1. La SFEC de l'opérateur de Schrödinger

La méthode utilisée pour calculer la hiérarchie est celle développée par I. Polterovich ([P1], [P2]). Elle est basée sur le théorème d'expansion d'Agmon-Kannai ([AK]). Si on considère l'opérateur de Schrödinger $L = -\partial_{xx} + u(x, t)$, la solution fondamentale de l'équation de la chaleur $H(t, x, y)$ lui étant associée possède l'expansion asymptotique suivante sur sa diagonale lorsque $t \to 0^+$:

$$H(t, x, x) \sim \frac{1}{\sqrt{4\pi t}} \sum_{n=0}^{\infty} h_n[u] t^n \qquad (3.4.1)$$

où les $h_n[u]$ sont des polynômes en $u(x)$ et en dérivées de $u(x)$. Les coefficients $h_n[u]$ sont les invariants de la chaleur de l'opérateur de Schrödinger. De ces invariants de la chaleur on génère la hiérarchie de KdV par

$$\dot{u} = \frac{\partial}{\partial x} G_n[u] \qquad (3.4.2)$$

avec

$$G_n[u] = \frac{(2n)!}{2 \cdot n!} h_n[u] \qquad (3.4.3)$$

Le calcul de la hiérarchie peut donc se réduire au calcul des invariants de la chaleur. En posant le changement de variable formel $u^{(n)} = u_n$ nous avons le

Théorème 3.4.1 (voir [P2]). *La hiérarchie de KdV est donnée par l'équation*

$$G_n[u] \; = \; \frac{(2n)!}{2 \cdot n!} \sum_{j=0}^{2n} \binom{n+\frac{1}{2}}{j+\frac{1}{2}} \frac{(-1)^j}{4^j \, j! \, (j \, + \, n)!} \; P_{nj}[u] \qquad (3.4.4)$$

où les polynômes $P_{nj}[u]$ sont obtenus de l'expression suivante $L^{j+n}(x^{2j})|_{x=0}$ après le changement de variables $u_i(0) \to u_i$, $i = 0, \ldots, 2n \, + \, 2j \, - \, 2$.

Le théorème (3.4.4) nous a permis de calculer les 18 premiers représentants de la hiérarchie.

Théorème 3.4.2. *Les 18 premières équations de la hiérarchie de Korteweg-De Vries sont données par*

$$G_1[u] = u_0$$

$$G_2[u] = u_2 \; + \; 3u_0^2$$

$$G_3[u] = u_4 \; + \; 10u_0u_2 \; + \; 5u_1^2 \; + \; 10u_0^3$$

$$G_4[u] = u_6 \; + \; 14u_0u_4 \; + \; 28u_1u_3 \; +$$
$$70u_0^2u_2 \; + \; 21u_2^2 \; + \; 70u_0u_1^2 \; + \; 35u_0^4$$

$$G_5[u] = u_8 \; + \; 18u_0u_6 \; + \; 54u_1u_5 \; + \; 114u_2u_4 \; +$$
$$126u_0^2u_4^1 \; + \; 504u_0u_1u_3 \; + 69u_3^2 \; + \; 462u_1^2u_2^1 \; +$$
$$420u_0^3u2^1 \; + \; 378u_0u_2^2 + \; 630u_0^2u_1^2 \; + \; 126u_0^5$$

$$\vdots$$

$$G_{18}[u] = u_{34} \; + \ldots\ldots\ldots\ldots\ldots + \; 4537567650 \, u_0^{18}$$

(3.4.5)

DÉMONSTRATION. Les équations ont été déduites du théorème (3.4.4). On peut trouver les 18 équations en annexe. □

Les 5 premiers représentants de la hiérarchie concordent, à une constante près, à ceux trouvés dans la littérature ([GD]). On remarque aussi qu'en substituant $G_2[u]$ dans (3.4.2), on obtient l'équation de KdV (3.1.1).

Chapitre 4

LES PROGRAMMES

4.1. LES TYPES DE PROGRAMMES

La découverte de nouveaux invariants de la chaleur pour les deux opérateurs elliptiques que nous avons vus, le laplacien sur une 2-variété riemannienne et l'opérateur de Schrödinger, est un problème de complexité calculatoire important. En effet, la complexité des calculs à effectuer croît fortement avec le rang n de notre invariant. Dans le cas du laplacien, c'est aussi un problème d'analyse des résultats difficile et qui a comme objectif la recherche d'une expression de type géométrique (en terme de courbure scalaire et de dérivées de la courbure scalaire). Nous avons eu recours à différents outils pour calculer les invariants et les analyser. Aussi, un programme assez général (pouvant s'adapter à différents opérateurs elliptiques de dimensions 1 et 2) a été conçu en $C++$. Il est à vrai dire difficile de calculer les invariants sur un système algébrique de calcul (SAC) connu comme *Mathematica*. Par exemple, nous ne pouvons obtenir que a_1 et $G_7[u]$ dans un temps raisonnable, c'est-à-dire quelques heures, sur *Mathematica*. Par contre, pour analyser les invariants de la chaleur de l'opérateur de Laplace nous avons su utiliser *Mathematica* de manière efficace.

4.2. PROGRAMME : LES INVARIANTS DE LA CHALEUR

Le calcul des invariants de la chaleur se résume aux équations (2.1.16) ou (3.4.4). Les deux programmes utilisés pour calculer les invariants ont la même base, c'est-à-dire qu'ils utilisent tous deux les mêmes classes d'objets et de fonctions. Leurs

seules différences résidant au niveau de la dimension et des fonctions caractérisant leur opérateur réciproque. En fait, ce que nous avons programmé s'apparente à une opération de dérivation sur des polynômes en x (en x, y) et en dérivée (en dérivée partielle) de u.

4.2.1. La bibliothèque CLN 1.5

Notre programme fait appel à la bibliothèque CLN 1.5 qui possède une classe de nombre rationnel exacte `Cl_Ra`. Cette classe fut nécessaire aux calculs de nos invariants a_n et $G_n[u]$ afin de palier au manque de précision obtenu avec des variables en point flottant normalement utilisées en $C + +$. Dans les deux cas, les constantes sont cruciales puisque un manque de précision peut transformer un invariant en expression inutile.

4.2.2. Simplification en x, y

Si on analyse bien les équations (2.1.16) et (3.4.4), on remarque que la plupart des termes dans notre polynôme disparaissent lors de l'évaluation en $(x, y) = 0$ et ne contribuent pas à l'invariant. Notre programme élimine donc les termes ne contribuant plus à l'invariant a_n ou $G_n[u]$. Ceci se fait assez facilement en évaluant les puissance n, m des variables x, y dans notre terme, et en les comparant au nombre d'itérations de l'opérateur qu'il nous reste à calculer sur ce terme. Par exemple, pour l'opérateur de Schrödinger, nous exclurions le terme $x^{10} u_0^1 \ldots u_m^1$ des calculs alors qu'il nous reste 4 itérations de l'opérateur à calculer.

4.2.3. L'ordre des termes

Tout d'abord, sur notre terme $C_0 \, u_{0j}^{i_{0j}} \ldots u_{mn}^{i_{mn}}$, le premier chiffre signifiant l'ordre de dérivation en x et le second en y, les dérivées partielles en u sont ordonnées par rapport à l'ordre de dérivation en x et ensuite par rapport à l'ordre de dérivation en y, sans prendre en compte la puissance à laquelle est composée la fonction dérivée. Les termes de l'invariant sont alors ordonnés de la façon suivante. Nous regardons tout d'abord s'il possède des termes $C_0 \, u_{0j}^{i_{0j}} \ldots u_{mn}^{i_{mn}}$ dont l'exposant $i_{0j} \neq 0$. S'il en possède plusieurs, nous comparons l'exposant de nos termes pour u_{01}. S'ils sont égaux nous comparons de la même manière u_{02} et ainsi de suite

pour tous les u_{ij}. Cet ordre est utilisé dans le programme afin d'améliorer les calculs.

4.2.4. Algorithme de tri rapide

Les programmes font une utilisation abondante de la classe *vector* et font appel à une fonction d'insertion, basée sur l'ordre des termes, copiée d'un algorithme de tri rapide (quicksort) habituellement utilisé pour ordonner les éléments d'un tableau.

4.3. PROGRAMME : VÉRIFICATION ET ANALYSE DES a_n

Le programme de vérification a été écrit pour *Mathematica*. Le programme prépare tout d'abord les données nécessaires : l'invariant calculé a_{ic}, la courbure scalaire τ en fonction de u, etc. Ensuite, il vérifie que C_i $a_{ic}(x, y)$ - { expression en terme de courbure scalaire et de ses dérivées } $= 0$ où C_i est une constante. Le programme a été mis en annexe.

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Annexe   A

PROGRAMME : INVARIANTS DE LA CHALEUR POUR LE LAPLACIEN

```cpp
#include <iostream.h>
#include <stdio.h>
#include <stdlib.h>
#include <vector.h>
#include <math.h>
#include <cln/rational.h>
#include <cln/rational_io.h>

using namespace cln;

/*-------Fonctions generales ------*/

cl_RA factorial(int n)
{
  cl_RA r = 1;

  for(int i= 2;i<=n;i++) r = r * i;

  return r;
}

cl_RA power(int x, int n)
{
  cl_RA  r = 1;

  for(int i = 1;i<=n;i++) r = x * r;

  return r;
}

cl_RA  combinatoire(int n, int j)
{ cl_RA  p = 1;
  cl_RA  q = 1;

  p = power(-1,j) * factorial(2 * (n+1)) * 4 * (j+1);

  q = factorial(2*(j+1)) * factorial(n-j) *
      power(4,n+1) * factorial(n+1) * factorial(n+j);

  return (p/q);
}

/*--------------- u_var ---------------*/

class u_var
{

 public:

  int xordre;
  int yordre;
  int puissance;

  u_var();

  u_var(int xordre1, int yordre1, int puissance1);

  u_var(const u_var &);

  ~u_var();

  bool operator==(u_var a);

  bool operator!=(u_var a);

  void operator=(u_var a);

  bool operator<(const u_var a);

  friend ostream& operator<<(ostream& os, const u_var p);
};

u_var::u_var()
{
  xordre    = 0;
  yordre    = 0;
  puissance = 1;
}

u_var::u_var(int xordre1, int yordre1, int puissance1)
{
  xordre     = xordre1;
  yordre     = yordre1;
  puissance  = puissance1;
}
```

```
u_var::u_var(const u_var& a)
{
  xordre    = a.xordre;
  yordre    = a.yordre;
  puissance = a.puissance;
}

u_var::~u_var()
{

}

bool u_var::operator==(u_var a)
{
  return (xordre == a.xordre && yordre == a.yordre);
}

bool u_var::operator!=(u_var a)
{
  return !(*this == a);
}

void u_var::operator=(u_var a)
{
  xordre    = a.xordre;
  yordre    = a.yordre;
  puissance = a.puissance;
}

bool u_var::operator<(const u_var a)
{
  return((xordre < a.xordre) ||
         (xordre == a.xordre  && yordre < a.yordre) ||
         (*this == a  && puissance < a.puissance));
}

ostream& operator<<(ostream& os, const u_var p)
{
  os<<" u["<<p.xordre<<","<<p.yordre<<"]"<<"^"<<p.puissance<<" ";

  return os;
}
/*--------- class xuterme ------------*/

class xuterme
{
 public:

  cl_RA           aconst;

  int             px;                    //puissance en x.

  int             py;                    //puissance en y.

  vector<u_var>  pu;                     //P[u] - polynome en uu'u''.....

  xuterme();

  xuterme(const xuterme &);

  xuterme(int constante, int puissance_x, int puissance_y, u_var u);

  xuterme(int puissance_x, int puissance_y);

  ~xuterme();

  bool operator==(const xuterme a);

  void operator=(xuterme a);

  void u_inserer(u_var a);

  void u_star();

  void derive_pu_x(int i);

  void derive_pu_y(int i);

  friend ostream& operator<<(ostream& os, const xuterme p);

};
```

```cpp
xuterme::xuterme()
{
  aconst  = 1;
  px      = 0;
  py      = 0;
}

xuterme::xuterme(const xuterme& a)
{
  aconst  = a.aconst;
  px      = a.px;
  py      = a.py;
  pu      = a.pu;
}

xuterme::xuterme(int puissance_x,int puissance_y)
{
  aconst  = 1;
  px      = puissance_x;
  py      = puissance_y;
}

xuterme::xuterme(int constante, int puissance_x, int puissance_y, u_var u)
{
  aconst     = constante;
  px         = puissance_x;
  py         = puissance_y;
  pu.insert(pu.begin(),u);
}

xuterme::~xuterme()
{
  pu.clear();
}

bool pu_equal(const vector<u_var> a, const vector<u_var> b)
{
  bool eq =1;
  int  i= 0;

  while(i<a.size() && eq)
  {
    if(a[i].xordre != b[i].xordre ||
       a[i].yordre != b[i].yordre ||
       a[i].puissance != b[i].puissance)
       eq = 0;
    i++;
  }
  return eq;
}

bool xuterme::operator==(const xuterme a)
{
  return (px == a.px && py == a.py && pu.size() == a.pu.size()
          && pu_equal(pu,a.pu));
}

void xuterme::u_star()
{
  u_var a;

  if(!pu.empty() &&  pu[0] == a) pu[0].puissance++;
  else pu.insert(pu.begin(),a);
}

void xuterme::u_inserer(u_var a)
{
  int i = 0;

  vector<u_var>::iterator n = pu.begin();
  while(pu[i]<a && i<pu.size()) i++;

  if(i<pu.size() &&  pu[i] == a) pu[i].puissance++;
  else pu.insert(n+i,a);
}

void xuterme::derive_pu_x(int i)
{
  vector<u_var>::iterator n;
  n = pu.begin();
  u_var a;

  if(i<pu.size())
  {
```

```
      a = pu[i];
      a.puissance = 1;
      a.xordre++;
      aconst = aconst * pu[i].puissance;
      pu[i].puissance--;

      if(pu[i].puissance == 0) pu.erase(n+i);

      u_inserer(a);
    }
}

void xuterme::derive_pu_y(int i)
{
    vector<u_var>::iterator n;
    n = pu.begin();
    u_var a;

    if(i<pu.size())
    {
      a = pu[i];
      a.puissance = 1;
      a.yordre++;
      aconst = aconst * pu[i].puissance;
      pu[i].puissance--;

      if(pu[i].puissance == 0) pu.erase(n+i);

      u_inserer(a);
    }
}

bool compare_pu(vector<u_var> a, vector<u_var> b)
{
    int  size;
    int  i=0;
    bool eq=0;
    bool quit = 1;

    if(a.size() < b.size())  size = a.size();
    else                     size = b.size();

    while(i<size && quit)
    {
      if(a[i] != b[i] || a[i].puissance!=b[i].puissance)
      {
        quit = 0;
        if(a[i]<b[i]) eq = 1;
      }
      i++;
    }

    if(quit && a.size()<b.size()) eq = 1;

    return eq;
}

bool operator<(const xuterme& a, const xuterme& b)
{
    return ((a.px < b.px) || (a.px == b.px && a.py < b.py) ||
            (a.px == b.px && a.py == b.py && compare_pu(a.pu,b.pu)));

}

void xuterme::operator=(xuterme p)
{
    aconst  = p.aconst;
    px      = p.px;
    py      = p.py;
    pu      = p.pu;
}

ostream& operator<<(ostream& os,const xuterme p)
{
    int size = p.pu.size();

    os<<p.aconst<<" ";

    if(p.px >0 ) os<<"x^"<<p.px<<" ";

    if(p.py >0 ) os<<"y^"<<p.py;

    for(int i=0;i<size;i++)
    {
      os<<p.pu[i];
```

```
    }
    return os;
}

/*--------Construction du laplacien-------------*/

void rapide_inserer(vector<xuterme>& a, xuterme b,
                    vector<xuterme>::iterator debut,
                    vector<xuterme>::iterator fin)
{

  vector<xuterme>::iterator c;

  if(a.size()!= 0)
  {
    c = debut + (fin - debut)/2;
  }

  if(a.size() == 0)
  {
    a.insert(debut,b);
  }
  else if(b < *debut)
  {
    a.insert(debut,b);
  }
  else if( *fin < b)
  {
    a.insert(fin + 1,b);
  }
  else if(b == *c)
  {
    if(c->aconst + b.aconst == 0) a.erase(c);
    else  c->aconst = c->aconst + b.aconst;
  }
  else if(*c < b)
  {
    rapide_inserer(a,b,c+1,fin);
  }
  else if( b < *c)
  {
    rapide_inserer(a,b,debut,c - 1);
  }
}

void quick_insert(vector<xuterme>& a, xuterme b)
{
  rapide_inserer(a,b,a.begin(),a.end() - 1);
}

void  diff_x(vector<xuterme>& polynome, const xuterme& a)
{
  int i=0;
  u_var c;
  xuterme b = a;

  if(b.px > 0 )
  {
    b.aconst = b.aconst * b.px;
    b.px--;
    quick_insert(polynome,b);
  }

  while(i<a.pu.size())
  {
    b = a;
    b.derive_pu_x(i);
    quick_insert(polynome,b);
    i++;
  }
}

void  diff_y(vector<xuterme>& polynome, const xuterme& a)
{
  int i=0;
  u_var c;
  xuterme b = a;

  if(b.py > 0 )
  {
    b.aconst = b.aconst * b.py;
    b.py--;
    quick_insert(polynome,b);
  }
```

```
   while(i<a.pu.size())
   {
     b = a;
     b.derive_pu_y(i);
     quick_insert(polynome,b);
     i++;
   }
}

ostream& operator<<(ostream& out, const vector<xuterme>& a)
{
  int size = a.size();
  int i    = 0;

  while(i < (size - 1))
  {
    out<<a[i]<<" + ";
    i++;
  }

  if(size) out<<a[i];

  return out;
}

void diff_polynome_x(int binsert,
                     vector<xuterme>& derive,
                     vector<xuterme>& polynome)
{
  int size = polynome.size();
  int i=0;

  while(i<size)
  {
    if(!(polynome[i].py > binsert || polynome[i].px > binsert))
      diff_x(derive, polynome[i]);
    i++;
  }
}

void diff_polynome_y(int binsert,
                     vector<xuterme>& derive,
                     vector<xuterme>& polynome)
{
  int size = polynome.size();
  int i=0;

  while(i<size)
  {
    if(!(polynome[i].py > binsert || polynome[i].px > binsert))
      diff_y(derive, polynome[i]);
    i++;
  }
}

void u_star_polynome(vector<xuterme>& polynome)
{
  int size = polynome.size();
  int i=0;

  while(i<size)
  {
    polynome[i].u_star();
    i++;
  }
}

void distance_n(vector<xuterme>& a, int n)
{
 a.clear();

 for(int k=0;k<(n + 1);k++)
 {
   xuterme alpha(2 * (n-k),2 * k);
   alpha.aconst = alpha.aconst * (factorial(n) /
                                  (factorial(n-k) * factorial(k)));
   a.insert(a.end(),alpha);
 }
}

void const_star(vector<xuterme>& a, cl_RA b)
{
  for(int i=0;i<a.size();i++) a[i].aconst = a[i].aconst * b;
}
```

```
void evaluate_zero(vector<xuterme>& a)
{
  vector<xuterme>::iterator n;

  if(a.size())
  {
    n = a.end() - 1;
    while(n->py > 0 || n->px >0) n = a.erase(n) - 1;
  }
}

void add(vector<xuterme>& a,const vector<xuterme>& b)
{
  int i=0;
  while(i<b.size())
  {
    quick_insert(a,b[i]);
    i++;
  }
}

void u_egal_1(vector<xuterme>& polynome)
{
  vector<xuterme> b;
  u_var    u;
  int i = 0;

  b=polynome;

  polynome.clear();

  while(i<b.size())
  {
    if(!b[i].pu.empty() && b[i].pu[0] == u)
    {

      b[i].aconst = b[i].aconst * power(-1,b[i].pu[0].puissance);

      b[i].pu.erase(b[i].pu.begin());

      quick_insert(polynome,b[i]);
    }
    i++;
  }
}

void laplacien(int binsert,vector<xuterme>& polynome, vector<xuterme> b)
{
  vector<xuterme> partial_x, partial_y, partial_x2, partial_y2;
  int i=0;

  polynome.clear();

  diff_polynome_x(binsert,partial_x, b);
  diff_polynome_y(binsert,partial_y, b);
  diff_polynome_x(binsert,partial_x2,partial_x);
  diff_polynome_y(binsert,partial_y2,partial_y);

  polynome = partial_x2;

  while(i < partial_y2.size())
  {
    quick_insert(polynome,partial_y2[i]);
    i++;
  }

  partial_x.clear();
  partial_x2.clear();
  partial_y.clear();
  partial_y2.clear();

  u_star_polynome(polynome);
}

void calcul_pnj(vector<xuterme>& resultat, int n, int j)
{
  vector<xuterme> temp;

  resultat.clear();
  distance_n(temp,j);

  for(int i = 0; i < (n + j); i++)
  {
    resultat.clear();
    laplacien((n+j-i) * 2,resultat,temp);
```

```
      temp.clear();
      temp = resultat;
   }
}

int  main(int argc, char* argv[])
{
  int n = atoi(argv[1]);

  cl_RA constante;

  vector<xuterme> pnj[(3 * n)+1 + 2];

  vector<xuterme> resultat;

  for(int j = 0 ;j <= (3 * n);j++)
  {
   cout<<"Calcule de Pnj["<<j<<"]"<<endl;

   calcul_pnj(pnj[j],n,j);

   evaluate_zero(pnj[j]);

   u_egal_1(pnj[j]);
  }

  constante = (factorial((3*n)+1)) /
               (factorial(3*n) * factorial(n));

  const_star(pnj[0],constante);

  resultat = pnj[0];

  for(int k = 1;k <= (3 * n); k++)
  {
     constante = (factorial((3*n)+1)) /
                  (factorial(k+1) * factorial((3*n) - k)  *
                   power(4,k) * factorial(k) * factorial(n+k));

     const_star(pnj[k],constante);

     add(resultat,pnj[k]);
  }

  cout<<"-------------- a"<<n<<"---------------"<<endl;

  cout<<endl;

  cout<<"Nombre de termes:"<<resultat.size()<<endl;

  cout<<endl;

  cout<<"1/4Pi * "<<power(-1,n)<<" *  [ "<<resultat<<" ]" <<endl;

  cout<<endl;

  cout<<"FIN"<<endl;

  return 0;
}
```

Annexe B

RÉSULTATS : INVARIANTS DE LA CHALEUR POUR LE LAPLACIEN

Wed Jun 4 22:21:56 EDT 2003
-------------- a1 ---------------

Nombre de termes:4

1/4Pi * -1 * [1/6 u[0,1]^2 + 1/6 u[0,2]^1 + 1/6 u[1,0]^2 + 1/6 u[2,0]^1]

FIN
Wed Jun 4 22:21:56 EDT 2003
-------------- a2 ---------------

Nombre de termes:17

1/4Pi * 1 * [-1/15 u[0,1]^1 u[0,3]^1 + -4/15 u[0,1]^1 u[1,0]^1 u[1,1]^1 + -1/15 u[0,1]^1 u[2,1]^1 + -2/15 u[0,1]^2 u[0,2]^1 + -1/10 u[0,1]^2
u[1,0]^2 + -1/20 u[0,1]^4 + 1/30 u[0,2]^1 u[2,0]^1 + -1/20 u[0,2]^2 + -1/30 u[0,4]^1 + -1/15 u[1,0]^1 u[1,2]^1 + -1/15 u[1,0]^1 u[3,0]^1 +
-2/15 u[1,0]^2 u[2,0]^1 + -1/20 u[1,0]^4 + -2/15 u[1,1]^2 + -1/20 u[2,0]^2 + -1/15 u[2,2]^1 + -1/30 u[4,0]^1]

FIN
Wed Jun 4 22:22:10 EDT 2003
-------------- a3 ---------------

Nombre de termes:74

1/4Pi * -1 * [1/14 u[0,1]^1 u[0,2]^1 u[0,3]^1 + 19/105 u[0,1]^1 u[0,2]^1 u[1,0]^1 u[1,1]^1 + 1/70 u[0,1]^1 u[0,2]^1 u[2,1]^1 + 1/105
u[0,1]^1 u[0,3]^1 u[1,0]^2 + -1/105 u[0,1]^1 u[0,3]^1 u[2,0]^1 + 19/105 u[0,1]^1 u[1,0]^1 u[1,1]^1 u[2,0]^1 + 1/35 u[0,1]^1 u[1,0]^1
u[1,3]^1 + 1/35 u[0,1]^1 u[1,0]^1 u[3,1]^1 + 2/21 u[0,1]^1 u[1,0]^2 u[2,1]^1 + 19/105 u[0,1]^1 u[1,0]^3 u[1,1]^1 + 29/210 u[0,1]^1 u[1,1]^1
u[1,2]^1 + 1/42 u[0,1]^1 u[1,1]^1 u[3,0]^1 + 1/21 u[0,1]^1 u[2,0]^1 u[2,1]^1 + 13/140 u[0,1]^2 u[0,2]^1 u[1,0]^2 + -1/210 u[0,1]^2 u[0,2]^1
u[2,0]^1 + 43/420 u[0,1]^2 u[0,2]^2 + 1/105 u[0,1]^2 u[0,4]^1 + 2/21 u[0,1]^2 u[1,0]^1 u[1,2]^1 + 1/105 u[0,1]^2 u[1,0]^1 u[3,0]^1 + 13/140
u[0,1]^2 u[1,0]^2 u[2,0]^1 + 29/420 u[0,1]^2 u[1,0]^4 + 5/42 u[0,1]^2 u[1,1]^2 + 1/84 u[0,1]^2 u[2,0]^2 + 1/210 u[0,1]^2 u[2,2]^1 + -1/210
u[0,1]^2 u[4,0]^1 + 4/105 u[0,1]^3 u[0,3]^1 + 19/105 u[0,1]^3 u[1,0]^1 u[1,1]^1 + 1/105 u[0,1]^3 u[2,1]^1 + 11/120 u[0,1]^4 u[0,2]^1 +
29/420 u[0,1]^4 u[1,0]^2 + 1/840 u[0,1]^4 u[2,0]^1 + 29/1260 u[0,1]^6 + 1/60 u[0,2]^1 u[0,4]^1 + 1/21 u[0,2]^1 u[1,0]^1 u[1,2]^1 + -1/105
u[0,2]^1 u[1,0]^1 u[3,0]^1 + -1/210 u[0,2]^1 u[1,0]^2 u[2,0]^1 + 1/840 u[0,2]^1 u[1,0]^4 + 1/15 u[0,2]^1 u[1,1]^2 + -1/210 u[0,2]^1 u[2,0]^2
+ 1/210 u[0,2]^1 u[2,2]^1 + -1/84 u[0,2]^1 u[4,0]^1 + 1/84 u[0,2]^2 u[1,0]^2 + -1/210 u[0,2]^2 u[2,0]^1 + 13/630 u[0,2]^3 + 1/42 u[0,3]^1
u[1,0]^1 u[1,1]^1 + 1/210 u[0,3]^1 u[2,1]^1 + 1/60 u[0,3]^2 + -1/210 u[0,4]^1 u[1,0]^2 + -1/84 u[0,4]^1 u[2,0]^1 + 1/280 u[0,6]^1 + 29/210
u[1,0]^1 u[1,1]^1 u[2,1]^1 + 1/70 u[1,0]^1 u[1,2]^1 u[2,0]^1 + 1/14 u[1,0]^1 u[2,0]^1 u[3,0]^1 + 5/42 u[1,0]^2 u[1,1]^2 + 43/420 u[1,0]^2
u[2,0]^2 + 1/210 u[1,0]^2 u[2,2]^1 + 1/105 u[1,0]^2 u[4,0]^1 + 1/105 u[1,0]^3 u[1,2]^1 + 4/105 u[1,0]^3 u[3,0]^1 + 11/120 u[1,0]^4 u[2,0]^1
+ 29/1260 u[1,0]^6 + 2/35 u[1,1]^1 u[1,3]^1 + 2/35 u[1,1]^1 u[3,1]^1 + 1/15 u[1,1]^2 u[2,0]^1 + 1/210 u[1,2]^1 u[3,0]^1 + 19/420 u[1,2]^2
+ 1/210 u[2,0]^1 u[2,2]^1 + 1/60 u[2,0]^1 u[4,0]^1 + 13/630 u[2,0]^3 + 19/420 u[2,1]^2 + 3/280 u[2,4]^1 + 1/60 u[3,0]^2 + 3/280 u[4,2]^1 +
1/280 u[6,0]^1]

FIN
Wed Jun 4 23:15:51 EDT 2003

Thu Jun 5 19:13:24 EDT 2003
-------------- a4 ---------------

Nombre de termes:302

1/4Pi * 1 * [-1/30 u[0,1]^1 u[0,2]^1 u[0,3]^1 u[1,0]^2 + 13/1890 u[0,1]^1 u[0,2]^1 u[0,3]^1 u[2,0]^1 + -1/210 u[0,1]^1 u[0,2]^1 u[0,5]^1 +
-128/945 u[0,1]^1 u[0,2]^1 u[1,0]^1 u[1,1]^1 u[2,0]^1 + -34/945 u[0,1]^1 u[0,2]^1 u[1,0]^1 u[1,3]^1 + -2/189 u[0,1]^1 u[0,2]^1 u[1,0]^1
u[3,1]^1 + -131/1890 u[0,1]^1 u[0,2]^1 u[1,0]^2 u[2,1]^1 + -58/315 u[0,1]^1 u[0,2]^1 u[1,0]^3 u[1,1]^1 + -317/1890 u[0,1]^1 u[0,2]^1
u[1,1]^1 u[1,2]^1 + -17/1890 u[0,1]^1 u[0,2]^1 u[1,1]^1 u[3,0]^1 + -47/1890 u[0,1]^1 u[0,2]^1 u[2,0]^1 u[2,1]^1 + -1/189 u[0,1]^1 u[0,2]^1
u[2,3]^1 + -1/1890 u[0,1]^1 u[0,2]^1 u[4,1]^1 + -47/630 u[0,1]^1 u[0,2]^2 u[0,3]^1 + -52/315 u[0,1]^1 u[0,2]^2 u[1,0]^1 u[1,1]^1 + -1/90
u[0,1]^1 u[0,2]^2 u[2,1]^1 + -1/126 u[0,1]^1 u[0,3]^1 u[0,4]^1 + -34/945 u[0,1]^1 u[0,3]^1 u[1,0]^1 u[1,2]^1 + -19/1890 u[0,1]^1 u[0,3]^1
u[1,0]^2 u[2,0]^1 + -1/126 u[0,1]^1 u[0,3]^1 u[1,0]^4 + -7/135 u[0,1]^1 u[0,3]^1 u[1,1]^2 + -2/945 u[0,1]^1 u[0,3]^1 u[2,0]^2 + -1/315
u[0,1]^1 u[0,3]^1 u[2,2]^1 + 1/1890 u[0,1]^1 u[0,3]^1 u[4,0]^1 + -2/189 u[0,1]^1 u[0,4]^1 u[1,0]^1 u[1,1]^1 + -1/1890 u[0,1]^1 u[0,4]^1
u[2,1]^1 + -1/3780 u[0,1]^1 u[0,5]^1 u[1,0]^2 + -1/945 u[0,1]^1 u[0,5]^1 u[2,0]^1 + 1/945 u[0,1]^1 u[0,7]^1 + -52/315 u[0,1]^1 u[1,0]^1
u[1,1]^1 u[2,0]^2 + -68/945 u[0,1]^1 u[1,0]^1 u[1,1]^1 u[2,2]^1 + -2/189 u[0,1]^1 u[1,0]^1 u[1,1]^1 u[4,0]^1 + -184/945 u[0,1]^1 u[1,0]^1
u[1,1]^3 + -68/945 u[0,1]^1 u[1,0]^1 u[1,2]^1 u[2,1]^1 + -2/189 u[0,1]^1 u[1,0]^1 u[1,3]^1 u[2,0]^1 + -2/945 u[0,1]^1 u[1,0]^1 u[1,5]^1 +
-34/945 u[0,1]^1 u[1,0]^1 u[2,0]^1 u[3,1]^1 + -34/945 u[0,1]^1 u[1,0]^1 u[2,1]^1 u[3,0]^1 + -4/945 u[0,1]^1 u[1,0]^1 u[3,3]^1 + -2/945
u[0,1]^1 u[1,0]^1 u[5,1]^1 + -62/315 u[0,1]^1 u[1,0]^2 u[1,1]^1 u[1,2]^1 + -86/945 u[0,1]^1 u[1,0]^2 u[1,1]^1 u[3,0]^1 + -41/270 u[0,1]^1
u[1,0]^2 u[2,0]^1 u[2,1]^1 + -13/1890 u[0,1]^1 u[1,0]^2 u[2,3]^1 + -5/756 u[0,1]^1 u[1,0]^2 u[4,1]^1 + -38/105 u[0,1]^1 u[1,0]^3 u[1,1]^1
u[2,0]^1 + -2/189 u[0,1]^1 u[1,0]^3 u[1,3]^1 + -26/945 u[0,1]^1 u[1,0]^3 u[3,1]^1 + -53/630 u[0,1]^1 u[1,0]^4 u[2,1]^1 + -10/63 u[0,1]^1
u[1,0]^5 u[1,1]^1 + -137/1890 u[0,1]^1 u[1,1]^1 u[1,2]^1 u[2,0]^1 + -1/126 u[0,1]^1 u[1,1]^1 u[1,4]^1 + -11/270 u[0,1]^1 u[1,1]^1 u[2,0]^1
u[3,0]^1 + -1/135 u[0,1]^1 u[1,1]^1 u[3,2]^1 + 1/1890 u[0,1]^1 u[1,1]^1 u[5,0]^1 + -109/945 u[0,1]^1 u[1,1]^2 u[2,1]^1 + -19/945 u[0,1]^1
u[1,2]^1 u[1,3]^1 + -1/135 u[0,1]^1 u[1,2]^1 u[3,1]^1 + -1/945 u[0,1]^1 u[1,3]^1 u[3,0]^1 + -2/315 u[0,1]^1 u[2,0]^1 u[2,3]^1 + -1/189
u[0,1]^1 u[2,0]^1 u[4,1]^1 + -32/945 u[0,1]^1 u[2,0]^2 u[2,1]^1 + -1/63 u[0,1]^1 u[2,1]^1 u[2,2]^1 + -1/378 u[0,1]^1 u[2,1]^1 u[4,0]^1 +
1/315 u[0,1]^1 u[2,5]^1 + -1/189 u[0,1]^1 u[3,0]^1 u[3,1]^1 + 1/315 u[0,1]^1 u[4,3]^1 + 1/945 u[0,1]^1 u[6,1]^1 + -31/1260 u[0,1]^2
u[0,2]^1 u[0,4]^1 + -41/270 u[0,1]^2 u[0,2]^1 u[1,0]^1 u[1,2]^1 + -19/1890 u[0,1]^2 u[0,2]^1 u[1,0]^1 u[3,0]^1 + -31/315 u[0,1]^2 u[0,2]^1
u[1,0]^2 u[2,0]^1 + -11/126 u[0,1]^2 u[0,2]^1 u[1,0]^4 + -62/315 u[0,1]^2 u[0,2]^1 u[1,1]^2 + -5/378 u[0,1]^2 u[0,2]^1 u[2,0]^2 + -11/945
u[0,1]^2 u[0,2]^1 u[2,2]^1 + 1/3780 u[0,1]^2 u[0,2]^1 u[4,0]^1 + -23/210 u[0,1]^2 u[0,2]^2 u[1,0]^2 + 1/630 u[0,1]^2 u[0,2]^2 u[2,0]^1 +
-5/54 u[0,1]^2 u[0,2]^3 + -86/945 u[0,1]^2 u[0,3]^1 u[1,0]^1 u[1,1]^1 + -1/180 u[0,1]^2 u[0,3]^1 u[2,1]^1 + -47/2520 u[0,1]^2 u[0,3]^2 +
-1/189 u[0,1]^2 u[0,4]^1 u[1,0]^2 + 1/3780 u[0,1]^2 u[0,4]^1 u[2,0]^1 + -1/1260 u[0,1]^2 u[0,6]^1 + -62/315 u[0,1]^2 u[1,0]^1 u[1,1]^1
u[2,1]^1 + -131/1890 u[0,1]^2 u[1,0]^1 u[1,2]^1 u[2,0]^1 + -5/756 u[0,1]^2 u[1,0]^1 u[1,4]^1 + -1/30 u[0,1]^2 u[1,0]^1 u[2,0]^1 u[3,0]^1 +

-13/1890 u[0,1]^2 u[1,0]^1 u[3,2]^1 + -1/3780 u[0,1]^2 u[1,0]^1 u[5,0]^1 + -122/315 u[0,1]^2 u[1,0]^2 u[1,1]^2 + -23/210 u[0,1]^2 u[1,0]^2 u[2,0]^2 + -34/945 u[0,1]^2 u[1,0]^2 u[2,2]^1 + -1/189 u[0,1]^2 u[1,0]^2 u[4,0]^1 + -29/315 u[0,1]^2 u[1,0]^3 u[1,2]^1 + -13/315 u[0,1]^2 u[1,0]^3 u[3,0]^1 + -1/6 u[0,1]^2 u[1,0]^4 u[2,0]^1 + -47/756 u[0,1]^2 u[1,0]^6 + -37/945 u[0,1]^2 u[1,1]^1 u[1,3]^1 + -13/945 u[0,1]^2 u[1,1]^1 u[3,1]^1 + -94/945 u[0,1]^2 u[1,1]^2 u[2,0]^1 + -1/180 u[0,1]^2 u[1,2]^1 u[3,0]^1 + -7/216 u[0,1]^2 u[1,2]^2 + -13/945 u[0,1]^2 u[2,0]^1 u[2,2]^1 + -1/756 u[0,1]^2 u[2,0]^1 u[4,0]^1 + -19/1890 u[0,1]^2 u[2,0]^3 + -109/7560 u[0,1]^2 u[2,1]^2 + -1/756 u[0,1]^2 u[2,4]^1 + -1/1512 u[0,1]^2 u[3,0]^2 + -1/3780 u[0,1]^2 u[4,2]^1 + 1/3780 u[0,1]^2 u[6,0]^1 + -13/126 u[0,1]^3 u[0,2]^1 u[0,3]^1 + -38/105 u[0,1]^3 u[0,2]^1 u[1,0]^1 u[1,1]^1 + -13/630 u[0,1]^3 u[0,2]^1 u[2,1]^1 + -13/315 u[0,1]^3 u[0,3]^1 u[1,0]^2 + 1/1890 u[0,1]^3 u[0,3]^1 u[2,0]^1 + -1/420 u[0,1]^3 u[0,5]^1 + -58/315 u[0,1]^3 u[1,0]^1 u[1,1]^1 u[2,0]^1 + -26/945 u[0,1]^3 u[1,0]^1 u[1,3]^1 + -2/189 u[0,1]^3 u[1,0]^1 u[3,1]^1 + -29/315 u[0,1]^3 u[1,0]^2 u[2,1]^1 + -20/63 u[0,1]^3 u[1,0]^3 u[1,1]^1 + -22/189 u[0,1]^3 u[1,1]^1 u[1,2]^1 + -2/189 u[0,1]^3 u[1,1]^1 u[3,0]^1 + -43/1890 u[0,1]^3 u[2,0]^1 u[2,1]^1 + -1/378 u[0,1]^3 u[2,3]^1 + -1/3780 u[0,1]^3 u[4,1]^1 + -1/6 u[0,1]^4 u[0,2]^1 u[1,0]^2 + -1/210 u[0,1]^4 u[0,2]^1 u[2,0]^1 + -61/420 u[0,1]^4 u[0,2]^2 + -1/105 u[0,1]^4 u[0,4]^1 + -53/630 u[0,1]^4 u[1,0]^1 u[1,2]^1 + -1/126 u[0,1]^4 u[1,0]^1 u[3,0]^1 + -11/126 u[0,1]^4 u[1,0]^2 u[2,0]^1 + -47/504 u[0,1]^4 u[1,0]^4 + -11/105 u[0,1]^4 u[1,1]^2 + -11/1260 u[0,1]^4 u[2,0]^2 + -1/189 u[0,1]^4 u[2,2]^1 + -1/30 u[0,1]^5 u[0,3]^1 + -10/63 u[0,1]^5 u[1,0]^1 u[1,1]^1 + -1/126 u[0,1]^5 u[2,1]^1 + -31/378 u[0,1]^6 u[0,2]^1 + -47/756 u[0,1]^6 u[1,0]^2 + -1/378 u[0,1]^6 u[2,0]^1 + -47/3024 u[0,1]^8 + -11/270 u[0,2]^1 u[0,3]^1 u[1,0]^1 u[1,1]^1 + -1/378 u[0,2]^1 u[0,3]^1 u[2,1]^1 + -5/252 u[0,2]^1 u[0,3]^2 + -1/756 u[0,2]^1 u[0,4]^1 u[1,0]^2 + 1/378 u[0,2]^1 u[0,4]^1 u[2,0]^1 + -1/3780 u[0,2]^1 u[0,6]^1 + -137/1890 u[0,2]^1 u[1,0]^1 u[1,1]^1 u[2,1]^1 + -47/1890 u[0,2]^1 u[1,0]^1 u[1,2]^1 u[2,0]^1 + -1/189 u[0,2]^1 u[1,0]^1 u[1,4]^1 + 13/1890 u[0,2]^1 u[1,0]^1 u[2,0]^1 u[3,0]^1 + -2/315 u[0,2]^1 u[1,0]^1 u[3,2]^1 + -1/945 u[0,2]^1 u[1,0]^1 u[5,0]^1 + -94/945 u[0,2]^1 u[1,0]^2 u[1,1]^2 + 1/630 u[0,2]^1 u[1,0]^2 u[2,0]^2 + -13/945 u[0,2]^1 u[1,0]^2 u[2,2]^1 + 1/3780 u[0,2]^1 u[1,0]^2 u[4,0]^1 + -43/1890 u[0,2]^1 u[1,0]^3 u[1,2]^1 + 1/1890 u[0,2]^1 u[1,0]^3 u[3,0]^1 + -1/210 u[0,2]^1 u[1,0]^4 u[2,0]^1 + -1/378 u[0,2]^1 u[1,0]^6 + -38/945 u[0,2]^1 u[1,1]^1 u[1,3]^1 + -2/315 u[0,2]^1 u[1,1]^1 u[3,1]^1 + -34/945 u[0,2]^1 u[1,1]^2 u[2,0]^1 + -1/270 u[0,2]^1 u[1,2]^1 u[3,0]^1 + -25/756 u[0,2]^1 u[1,2]^2 + -11/945 u[0,2]^1 u[2,0]^1 u[2,2]^1 + 1/378 u[0,2]^1 u[2,0]^1 u[4,0]^1 + 1/540 u[0,2]^1 u[2,0]^3 + -31/3780 u[0,2]^1 u[2,1]^2 + 1/756 u[0,2]^1 u[2,4]^1 + 1/252 u[0,2]^1 u[3,0]^2 + 13/3780 u[0,2]^1 u[4,2]^1 + 1/540 u[0,2]^1 u[6,0]^1 + -1/84 u[0,2]^2 u[0,4]^1 + -32/945 u[0,2]^2 u[1,0]^1 u[1,2]^1 + -2/945 u[0,2]^2 u[1,0]^1 u[3,0]^1 + -5/378 u[0,2]^2 u[1,0]^2 u[2,0]^1 + -11/1260 u[0,2]^2 u[1,0]^4 + -1/21 u[0,2]^2 u[1,1]^2 + -23/7560 u[0,2]^2 u[2,0]^2 + -1/270 u[0,2]^2 u[2,2]^1 + -1/3780 u[0,2]^2 u[4,0]^1 + -19/1890 u[0,2]^3 u[1,0]^2 + 1/540 u[0,2]^3 u[2,0]^1 + -173/15120 u[0,2]^4 + -17/3780 u[0,3]^1 u[0,5]^1 + -17/1890 u[0,3]^1 u[1,0]^1 u[1,1]^1 u[2,0]^1 + -1/189 u[0,3]^1 u[1,0]^1 u[1,3]^1 + -1/945 u[0,3]^1 u[1,0]^1 u[3,1]^1 + -1/180 u[0,3]^1 u[1,0]^2 u[2,1]^1 + -2/189 u[0,3]^1 u[1,0]^3 u[1,1]^1 + -1/21 u[0,3]^1 u[1,1]^1 u[1,2]^1 + 1/945 u[0,3]^1 u[1,1]^1 u[3,0]^1 + -1/270 u[0,3]^1 u[2,0]^1 u[2,1]^1 + -1/378 u[0,3]^1 u[2,3]^1 + 1/540 u[0,3]^1 u[4,1]^1 + -1/1512 u[0,3]^2 u[1,0]^2 + 1/252 u[0,3]^2 u[2,0]^1 + -1/378 u[0,4]^1 u[1,0]^1 u[1,2]^1 + 1/1890 u[0,4]^1 u[1,0]^1 u[3,0]^1 + 1/3780 u[0,4]^1 u[1,0]^2 u[2,0]^1 + -2/315 u[0,4]^1 u[1,1]^2 + -1/3780 u[0,4]^1 u[2,0]^2 + 1/420 u[0,4]^1 u[4,0]^1 + -5/1512 u[0,4]^2 + 1/1890 u[0,5]^1 u[1,0]^1 u[1,1]^1 + 1/540 u[0,5]^1 u[2,1]^1 + 1/3780 u[0,6]^1 u[1,0]^2 + 1/540 u[0,6]^1 u[2,0]^1 + -1/3780 u[0,8]^1 + -317/1890 u[1,0]^1 u[1,1]^1 u[2,0]^1 u[2,1]^1 + -1/135 u[1,0]^1 u[1,1]^1 u[2,3]^1 + -1/126 u[1,0]^1 u[1,1]^1 u[4,1]^1 + -109/945 u[1,0]^1 u[1,1]^2 u[1,2]^1 + -7/135 u[1,0]^1 u[1,1]^2 u[3,0]^1 + -1/90 u[1,0]^1 u[1,2]^1 u[2,0]^2 + -1/63 u[1,0]^1 u[1,2]^1 u[2,2]^1 + -1/1890 u[1,0]^1 u[1,2]^1 u[4,0]^1 + -1/135 u[1,0]^1 u[1,3]^1 u[2,1]^1 + -1/1890 u[1,0]^1 u[1,4]^1 u[2,0]^1 + 1/945 u[1,0]^1 u[1,6]^1 + -1/189 u[1,0]^1 u[2,0]^1 u[3,2]^1 + -1/210 u[1,0]^1 u[2,0]^1 u[5,0]^1 + -47/630 u[1,0]^1 u[2,0]^2 u[3,0]^1 + -19/945 u[1,0]^1 u[2,1]^1 u[3,1]^1 + -1/315 u[1,0]^1 u[2,2]^1 u[3,0]^1 + -1/126 u[1,0]^1 u[3,0]^1 u[4,0]^1 + 1/315 u[1,0]^1 u[3,4]^1 + 1/315 u[1,0]^1 u[5,2]^1 + 1/945 u[1,0]^1 u[7,0]^1 + -13/945 u[1,0]^2 u[1,1]^1 u[1,3]^1 + -37/945 u[1,0]^2 u[1,1]^1 u[3,1]^1 + -62/315 u[1,0]^2 u[1,1]^2 u[2,0]^1 + -1/180 u[1,0]^2 u[1,2]^1 u[3,0]^1 + -109/7560 u[1,0]^2 u[1,2]^2 + -11/945 u[1,0]^2 u[2,0]^1 u[2,2]^1 + -31/1260 u[1,0]^2 u[2,0]^1 u[4,0]^1 + -5/54 u[1,0]^2 u[2,0]^3 + -7/216 u[1,0]^2 u[2,1]^2 + -1/3780 u[1,0]^2 u[2,4]^1 + -47/2520 u[1,0]^2 u[3,0]^2 + -1/756 u[1,0]^2 u[4,2]^1 + -1/1260 u[1,0]^2 u[6,0]^1 + -22/189 u[1,0]^3 u[1,1]^1 u[2,1]^1 + -13/630 u[1,0]^3 u[1,2]^1 u[2,0]^1 + -1/3780 u[1,0]^3 u[1,4]^1 + -13/126 u[1,0]^3 u[2,0]^1 u[3,0]^1 + -1/378 u[1,0]^3 u[3,2]^1 + -1/420 u[1,0]^3 u[5,0]^1 + -11/105 u[1,0]^4 u[1,1]^2 + -61/420 u[1,0]^4 u[2,0]^2 + -1/189 u[1,0]^4 u[2,2]^1 + -1/105 u[1,0]^4 u[4,0]^1 + -1/126 u[1,0]^5 u[1,2]^1 + -1/30 u[1,0]^5 u[3,0]^1 + -31/378 u[1,0]^6 u[2,0]^1 + -47/3024 u[1,0]^8 + -13/135 u[1,1]^1 u[1,2]^1 u[2,1]^1 + -2/315 u[1,1]^1 u[1,3]^1 u[2,0]^1 + -4/945 u[1,1]^1 u[1,5]^1 + -38/945 u[1,1]^1 u[2,0]^1 u[3,1]^1 + -1/21 u[1,1]^1 u[2,1]^1 u[3,0]^1 + -8/945 u[1,1]^1 u[3,3]^1 + -4/945 u[1,1]^1 u[5,1]^1 + -1/21 u[1,1]^2 u[2,0]^2 + -44/945 u[1,1]^2 u[2,2]^1 + -2/315 u[1,1]^2 u[4,0]^1 + -4/135 u[1,1]^4 + -13/756 u[1,2]^1 u[1,4]^1 + -1/378 u[1,2]^1 u[2,0]^1 u[3,0]^1 + -29/1890 u[1,2]^1 u[3,2]^1 + 1/540 u[1,2]^1 u[5,0]^1 + -31/3780 u[1,2]^2 u[2,0]^1 + -1/105 u[1,3]^1 u[3,1]^1 + -5/378 u[1,3]^2 + 1/540 u[1,4]^1 u[3,0]^1 + -25/756 u[2,0]^1 u[2,1]^2 + 13/3780 u[2,0]^1 u[2,4]^1 + -5/252 u[2,0]^1 u[3,0]^2 + 1/756 u[2,0]^1 u[4,2]^1 + -1/3780 u[2,0]^1 u[6,0]^1 + -1/270 u[2,0]^2 u[2,2]^1 + -1/84 u[2,0]^2 u[4,0]^1 + -173/15120 u[2,0]^4 + -29/1890 u[2,1]^1 u[2,3]^1 + -13/756 u[2,1]^1 u[4,1]^1 + -4/315 u[2,2]^2 + -1/945 u[2,6]^1 + -1/378 u[3,0]^1 u[3,2]^1 + -17/3780 u[3,0]^1 u[5,0]^1 + -5/378 u[3,1]^2 + -5/1512 u[4,0]^2 + -1/630 u[4,4]^1 + -1/945 u[6,2]^1 + -1/3780 u[8,0]^1]

FIN
Wed Jun 11 03:50:51 EDT 2003

Annexe   C

PROGRAMME : HIÉRARCHIE DE KORTEWEG-DE VRIES

```cpp
#include <iostream.h>
#include <stdio.h>
#include <stdlib.h>
#include <vector.h>
#include <math.h>
#include <cln/rational.h>
#include <cln/rational_io.h>

using namespace cln;

/*--------Fonctions generales ------*/

cl_RA factorial(int n)
{
  cl_RA r = 1;

  for(int i= 2;i<=n;i++) r = r * i;

  return r;
}

cl_RA power(int x, int n)
{
  cl_RA  r = 1;

  for(int i = 1;i<=n;i++) r = x * r;

  return r;
}

cl_RA  combinatoire(int n, int j)
{
  cl_RA  p = 1;
  cl_RA  q = 1;

  p = power(-1,j) * factorial(2 * (n+1)) * 4 * (j+1);

  q = factorial(2*(j+1)) * factorial(n-j) *
      power(4,n+1) * factorial(n+1) * factorial(n+j);

  return (p/q);
}

/*--------------- u_var ---------------*/

class u_var
{
 public:

  int ordre;
  int puissance;

  u_var();

  u_var(int ordre1, int puissance1);

  u_var(const u_var &);

  ~u_var();

  bool operator==(u_var a);

  bool operator!=(u_var a);

  void operator=(u_var a);

  bool operator<(const u_var a);

  friend ostream& operator<<(ostream& os, const u_var p);
};

u_var::u_var()
{
  ordre = 0;
  puissance = 1;
}

u_var::u_var(int ordre1, int puissance1)
{
  ordre     = ordre1;
  puissance = puissance1;
}

u_var::u_var(const u_var& a)
```

```
{
  ordre    = a.ordre;
  puissance = a.puissance;
}

u_var::~u_var()
{

}

bool u_var::operator==(u_var a)
{
  return (ordre == a.ordre);
}

bool u_var::operator!=(u_var a)
{
  return !(*this == a);
}

void u_var::operator=(u_var a)
{
  ordre = a.ordre;
  puissance = a.puissance;
}

bool u_var::operator<(const u_var a)
{
  return((ordre < a.ordre) || (ordre == a.ordre && puissance < a.puissance));
}

ostream& operator<<(ostream& os, const u_var p)
{
  os<<" u["<<p.ordre<<"]"<<"^"<<p.puissance<<" ";

  return os;
}

/*--------- class xuterme ---------------*/

class xuterme
{
 public:

  cl_RA      aconst;

  long int      px;              //puissance de x.

  vector<u_var>  pu;              //P[u] - polynome en uu'u''.....

  xuterme();

  xuterme(const xuterme &);

  xuterme(int constante, int puissance_x, u_var u);

  xuterme(int puissance_x);

  ~xuterme();

  bool operator==(const xuterme a);

  void operator=(xuterme a);

  void u_inserer(u_var a);

  void u_star();

  void derive_pu(int i);

  friend ostream& operator<<(ostream& os, const xuterme p);
};

xuterme::xuterme()
{
  aconst  =  1;
  px       =  0;
}

xuterme::xuterme(const xuterme& a)
{
  aconst  = a.aconst;
  px       = a.px;
  pu       = a.pu;
```

```
}

xuterme::xuterme(int puissance_x)
{
  aconst   =  1;
  px       =  puissance_x;
}

xuterme::xuterme(int constante, int puissance_x, u_var u)
{
  aconst    =   constante;
  px        =   puissance_x;
  pu.insert(pu.begin(),u);
}

xuterme::~xuterme()
{
  pu.clear();
}

bool pu_equal(const vector<u_var> a, const vector<u_var> b)
{
  bool eq =1;
  int  i=0;

  while(i<a.size() && eq)
  {
    if(a[i].ordre != b[i].ordre || a[i].puissance != b[i].puissance)
      eq = 0;
    i++;
  }
  return eq;
}

bool xuterme::operator==(const xuterme a)
{
  return (px == a.px && pu.size() == a.pu.size() && pu_equal(pu,a.pu));
}

void xuterme::u_star()
{
  u_var a;

  if(!pu.empty() &&  pu[0].ordre == a.ordre) pu[0].puissance++;
  else pu.insert(pu.begin(),a);
}

void xuterme::u_inserer(u_var a)
{
  int i = 0;

  vector<u_var>::iterator n = pu.begin();
  while(pu[i]<a && i<pu.size()) i++;

  if(i<pu.size() &&  pu[i] == a) pu[i].puissance++;
  else pu.insert(n+i,a);
}

void xuterme::derive_pu(int i)
{
  vector<u_var>::iterator n;
  n = pu.begin();
  u_var a;

  if(i<pu.size())
  {
    a = pu[i];
    a.puissance = 1;
    a.ordre++;
    aconst = aconst * pu[i].puissance;
    pu[i].puissance--;

    if(pu[i].puissance == 0) pu.erase(n+i);

    u_inserer(a);
  }
}

bool compare_pu(vector<u_var> a,vector<u_var> b)
{
  int size;
  int i=0;
  bool eq=0;
  bool quit = 1;
```

```
        if(a.size() < b.size())  size = a.size();
        else                     size = b.size();

      while(i<size && quit)
      {
        if(a[i].ordre!=b[i].ordre ||
           a[i].puissance!=b[i].puissance)
        {
          quit = 0;
          if(a[i]<b[i]) eq = 1;
        }
        i++;
      }

      if(quit  && a.size()<b.size()) eq = 1;

      return eq;
}

bool operator<(const xuterme& a, const xuterme& b)
{
  return ( (a.px < b.px) ||
           (a.px == b.px && compare_pu(a.pu,b.pu)));

}

void xuterme::operator=(xuterme p)
{
  aconst  = p.aconst;
  px      = p.px;
  pu      = p.pu;
}

ostream& operator<<(ostream& os,const xuterme p)
{
  int size = p.pu.size();
  char out[100];

  os<<p.aconst<<" ";

  if(p.px >0 ) os<<"x^"<<p.px<<" ";

  for(int i=0;i<size;i++)
  {
    os<<p.pu[i];
  }
  return os;
}

/*------------------ end -------------*/

void quick_insert(vector<xuterme>& a, xuterme b)
{
  int i = 0;
  vector<xuterme>::iterator n = a.begin();
  while(i<a.size()&& a[i]<b)i++;

  if(i<a.size() && !a.empty() && a[i] == b)
  {
    a[i].aconst = a[i].aconst + b.aconst;
  }
  else a.insert(n+i,b);
}

void  diff(vector<xuterme>& polynome, const xuterme& a)
{
  int i=0;
  u_var c;
  xuterme b = a;

  if(b.px > 0 )
  {
    b.aconst = b.aconst * b.px;
    b.px--;
    quick_insert(polynome,b);
  }

  while(i<a.pu.size())
  {
    b = a;
    b.derive_pu(i);
    quick_insert(polynome,b);
    i++;
```

```
      }
}

ostream& operator<<(ostream& out, const vector<xuterme>& a)
{
  int size = a.size();
  int i    = 0;

  while(i < (size - 1))
  {
    out<<a[i]<<" + ";
    i++;
  }

  if(size) out<<a[i];

  return out;
}

void diff_polynome(int binsert,
                   vector<xuterme>& derive,
                   vector<xuterme>& polynome)
{
  int size = polynome.size();
  int i=0;

  while(i<size)
  {
    if(polynome[i].px <= binsert) diff(derive, polynome[i]);
    i++;
  }
}

void u_star_polynome(vector<xuterme>& polynome)
{
  int size = polynome.size();
  int i=0;

  while(i<size)
  {
    polynome[i].u_star();
    i++;
  }
}

void const_star(vector<xuterme>& a, cl_RA b)
{
  for(int i=0;i<a.size();i++) a[i].aconst = a[i].aconst * b;
}

void sturm_liouville(int binsert,vector<xuterme>& polynome)
{
 vector<xuterme> ustar_pol;
 vector<xuterme> diff_pol;
 vector<xuterme> resultat;
 int size = polynome.size();
 int i = 0;

 ustar_pol = polynome;

 diff_pol  = polynome;

 polynome.clear();

 u_star_polynome(ustar_pol);

 diff_polynome(binsert,resultat,diff_pol);

 diff_polynome(binsert,polynome,resultat);

 while(i<size)
 {
   if(ustar_pol[i].px <= binsert) quick_insert(polynome,ustar_pol[i]);

   i++;
 }
}

void evaluate_zero(vector<xuterme>& a)
{
  vector<xuterme>::iterator n = a.end() - 1;
  while(n->px > 0) n = a.erase(n) - 1;
}

void add(vector<xuterme>& a,const vector<xuterme>& b)
{
```

```cpp
    if(a.size() == b.size())
    {
      for(int i=0;i<a.size();i++)
      {
        if(a[i] == b[i]) a[i].aconst = a[i].aconst + b[i].aconst;
        else cout<<"ERREURR!ERREUR!"<<endl;
      }
    }
}

int  main( int argc, char* argv[])
{

  /*---------------- G(n-1)-----------*/

  int n = atoi(argv[1]) + 1;

  int mul = 0;
  int binsert = 0;
  int m       = n;

  vector<xuterme> p[n];

  for(int i=0;i<n;i++)
  {
    xuterme allo(2*i);

    m = n+i-1;

    vector<xuterme> alpha;

    alpha.insert(alpha.begin(),allo);

    for(int j=0;j<m;j++)
    {
     binsert = 2 * (m - j);
     sturm_liouville(binsert,alpha);
    }

    evaluate_zero(alpha);

    p[i] = alpha;
  }

  for(int k=0;k<n;k++)
  {
    const_star(p[k], factorial(2*(n-1))/(2*factorial(n-1)) *
                                    combinatoire(n-1,k));
  }

  for(int h = 1;h<n;h++)
  {
    add(p[0],p[h]);
  }
  cout<<"-------------------"<<"G"<<(n-1)<<"------------------------"<<endl;

  cout<<endl;

  cout<<"Size:"<<p[0].size()<<endl;

  cout<<endl;

  cout<<p[0]<<endl;

  cout<<endl;

  cout<<"FIN"<<endl;

  return 0;
}
```

Annexe   D

RÉSULTATS : HIÉRARCHIE DE
KORTEWEG-DE VRIES

Mon May 5 21:44:06 EDT 2003
--------------------G1----------------------

Size:1

1 u[0]^1

FIN
Mon May 5 21:44:07 EDT 2003
--------------------G2----------------------

Size:2

3 u[0]^2 + 1 u[2]^1

FIN
Mon May 5 21:44:07 EDT 2003
--------------------G3----------------------

Size:4

10 u[0]^1 u[2]^1 + 10 u[0]^3 + 5 u[1]^2 + 1 u[4]^1

FIN
Mon May 5 21:44:07 EDT 2003
--------------------G4----------------------

Size:7

70 u[0]^1 u[1]^2 + 14 u[0]^1 u[4]^1 + 70 u[0]^2 u[2]^1 + 35 u[0]^4 + 28 u[1]^1 u[3]^1 + 21 u[2]^2 + 1 u[6]^1

FIN
Mon May 5 21:44:07 EDT 2003
--------------------G5----------------------

Size:12

504 u[0]^1 u[1]^1 u[3]^1 + 378 u[0]^1 u[2]^2 + 18 u[0]^1 u[6]^1 + 630 u[0]^2 u[1]^2 + 126 u[0]^2 u[4]^1 + 420 u[0]^3 u[2]^1 + 126
u[0]^5 + 54 u[1]^1 u[5]^1 + 462 u[1]^2 u[2]^1 + 114 u[2]^1 u[4]^1 + 69 u[3]^2 + 1 u[8]^1

FIN
Mon May 5 21:44:07 EDT 2003
--------------------G6----------------------

Size:21

1188 u[0]^1 u[1]^1 u[5]^1 + 10164 u[0]^1 u[1]^2 u[2]^1 + 2508 u[0]^1 u[2]^1 u[4]^1 + 1518 u[0]^1 u[3]^2 + 22 u[0]^1 u[8]^1 + 5544
u[0]^2 u[1]^1 u[3]^1 + 4158 u[0]^2 u[2]^2 + 198 u[0]^2 u[6]^1 + 4620 u[0]^3 u[1]^2 + 924 u[0]^3 u[4]^1 + 2310 u[0]^4 u[2]^1 + 462
u[0]^6 + 5676 u[1]^1 u[2]^1 u[3]^1 + 88 u[1]^1 u[7]^1 + 1650 u[1]^2 u[4]^1 + 1155 u[1]^4 + 242 u[2]^1 u[6]^1 + 1342 u[2]^3 + 418
u[3]^1 u[5]^1 + 253 u[4]^2 + 1 u[10]^1

FIN
Mon May 5 21:44:07 EDT 2003
--------------------G7----------------------

Size:34

147576 u[0]^1 u[1]^1 u[2]^1 u[3]^1 + 2288 u[0]^1 u[1]^1 u[7]^1 + 42900 u[0]^1 u[1]^2 u[4]^1 + 30030 u[0]^1 u[1]^4 + 6292 u[0]^1
u[2]^1 u[6]^1 + 34892 u[0]^1 u[2]^3 + 10868 u[0]^1 u[3]^1 u[5]^1 + 6578 u[0]^1 u[4]^2 + 26 u[0]^1 u[10]^1 + 15444 u[0]^2 u[1]^1
u[5]^1 + 132132 u[0]^2 u[1]^2 u[2]^1 + 32604 u[0]^2 u[2]^1 u[4]^1 + 19734 u[0]^2 u[3]^2 + 286 u[0]^2 u[8]^1 + 48048 u[0]^3 u[1]^1
u[3]^1 + 36036 u[0]^3 u[2]^2 + 1716 u[0]^3 u[6]^1 + 30030 u[0]^4 u[1]^2 + 6006 u[0]^4 u[4]^1 + 12012 u[0]^5 u[2]^1 + 1716 u[0]^7 +
20592 u[1]^1 u[2]^1 u[5]^1 + 30888 u[1]^1 u[3]^1 u[4]^1 + 130 u[1]^1 u[9]^1 + 71214 u[1]^2 u[2]^2 + 4290 u[1]^2 u[6]^1 + 34320 u[1]^3
u[3]^1 + 26598 u[2]^1 u[3]^2 + 442 u[2]^1 u[8]^1 + 21450 u[2]^2 u[4]^1 + 988 u[3]^1 u[7]^1 + 1586 u[4]^1 u[6]^1 + 923 u[5]^2 + 1
u[12]^1

FIN
Mon May 5 21:44:08 EDT 2003
--------------------G8----------------------

Size:55

617760 u[0]^1 u[1]^1 u[2]^1 u[5]^1 + 926640 u[0]^1 u[1]^1 u[3]^1 u[4]^1 + 3900 u[0]^1 u[1]^1 u[9]^1 + 2136420 u[0]^1 u[1]^2 u[2]^2 +
128700 u[0]^1 u[1]^2 u[6]^1 + 1029600 u[0]^1 u[1]^3 u[3]^1 + 797940 u[0]^1 u[2]^1 u[3]^2 + 13260 u[0]^1 u[2]^1 u[8]^1 + 643500
u[0]^1 u[2]^2 u[4]^1 + 29640 u[0]^1 u[3]^1 u[7]^1 + 47580 u[0]^1 u[4]^1 u[6]^1 + 27690 u[0]^1 u[5]^2 + 30 u[0]^1 u[12]^1 + 2213640

u[0]^2 u[1]^1 u[2]^1 u[3]^1 + 34320 u[0]^2 u[1]^1 u[7]^1 + 643500 u[0]^2 u[1]^2 u[4]^1 + 450450 u[0]^2 u[1]^4 + 94380 u[0]^2 u[2]^1 u[6]^1 + 523380 u[0]^2 u[2]^3 + 163020 u[0]^2 u[2]^1 u[3]^1 u[5]^1 + 98670 u[0]^2 u[4]^2 + 390 u[0]^2 u[10]^1 + 154440 u[0]^3 u[1]^1 u[5]^1 + 1321320 u[0]^3 u[1]^2 u[2]^1 + 326040 u[0]^3 u[2]^1 u[4]^1 + 197340 u[0]^3 u[3]^2 + 2860 u[0]^3 u[8]^1 + 360360 u[0]^4 u[1]^1 u[3]^1 + 270270 u[0]^4 u[2]^2 + 12870 u[0]^4 u[6]^1 + 180180 u[0]^5 u[1]^2 + 36036 u[0]^5 u[4]^1 + 60060 u[0]^6 u[2]^1 + 6435 u[0]^8 + 56680 u[1]^1 u[2]^1 u[7]^1 + 1558128 u[1]^1 u[2]^2 u[3]^1 + 113568 u[1]^1 u[3]^1 u[6]^1 + 159484 u[1]^1 u[4]^1 u[5]^1 + 180 u[1]^1 u[11]^1 + 904332 u[1]^2 u[2]^1 u[4]^1 + 565422 u[1]^2 u[3]^2 + 9230 u[1]^2 u[8]^1 + 145860 u[1]^3 u[5]^1 + 510510 u[1]^4 u[2]^1 + 273780 u[2]^1 u[3]^1 u[5]^1 + 165178 u[2]^1 u[4]^2 + 730 u[2]^1 u[10]^1 + 78026 u[2]^2 u[6]^1 + 180323 u[2]^4 + 2000 u[3]^1 u[9]^1 + 206414 u[3]^2 u[4]^1 + 4006 u[4]^1 u[8]^1 + 6004 u[5]^1 u[7]^1 + 3433 u[6]^2 + 1 u[14]^1

FIN
Mon May 5 21:44:10 EDT 2003
---------------------G9------------------------

Size:88

1927120 u[0]^1 u[1]^1 u[2]^1 u[7]^1 + 52976352 u[0]^1 u[1]^1 u[2]^2 u[3]^1 + 3861312 u[0]^1 u[1]^1 u[3]^1 u[6]^1 + 5422456 u[0]^1 u[1]^1 u[4]^1 u[5]^1 + 6120 u[0]^1 u[1]^1 u[11]^1 + 30747288 u[0]^1 u[1]^2 u[2]^1 u[4]^1 + 19224348 u[0]^1 u[1]^2 u[3]^2 + 313820 u[0]^1 u[1]^2 u[8]^1 + 4959240 u[0]^1 u[1]^3 u[5]^1 + 17357340 u[0]^1 u[1]^4 u[2]^1 + 9308520 u[0]^1 u[2]^1 u[3]^1 u[5]^1 + 5616052 u[0]^1 u[2]^1 u[4]^2 + 24820 u[0]^1 u[2]^1 u[10]^1 + 2652884 u[0]^1 u[2]^2 u[6]^1 + 6130982 u[0]^1 u[2]^4 + 68000 u[0]^1 u[3]^1 u[9]^1 + 7018076 u[0]^1 u[3]^2 u[4]^1 + 136204 u[0]^1 u[4]^1 u[8]^1 + 204136 u[0]^1 u[5]^1 u[7]^1 + 116722 u[0]^1 u[6]^2 + 34 u[0]^1 u[14]^1 + 10501920 u[0]^2 u[1]^1 u[2]^1 u[5]^1 + 15752880 u[0]^2 u[1]^1 u[3]^1 u[4]^1 + 66300 u[0]^2 u[1]^1 u[9]^1 + 36319140 u[0]^2 u[1]^2 u[2]^2 + 2187900 u[0]^2 u[1]^2 u[6]^1 + 17503200 u[0]^2 u[1]^3 u[3]^1 + 13564980 u[0]^2 u[2]^1 u[3]^2 + 225420 u[0]^2 u[2]^1 u[8]^1 + 10939500 u[0]^2 u[2]^2 u[4]^1 + 503880 u[0]^2 u[3]^1 u[7]^1 + 808860 u[0]^2 u[4]^1 u[6]^1 + 470730 u[0]^2 u[5]^2 + 510 u[0]^2 u[12]^1 + 25087920 u[0]^3 u[1]^1 u[2]^1 u[3]^1 + 388960 u[0]^3 u[1]^1 u[7]^1 + 7293000 u[0]^3 u[1]^2 u[4]^1 + 5105100 u[0]^3 u[1]^4 + 1069640 u[0]^3 u[2]^1 u[6]^1 + 5931640 u[0]^3 u[2]^3 + 1847560 u[0]^3 u[3]^1 u[5]^1 + 1118260 u[0]^3 u[4]^2 + 4420 u[0]^3 u[10]^1 + 1312740 u[0]^4 u[1]^1 u[5]^1 + 11231220 u[0]^4 u[1]^2 u[2]^1 + 2771340 u[0]^4 u[2]^1 u[4]^1 + 1677390 u[0]^4 u[3]^2 + 24310 u[0]^4 u[8]^1 + 2450448 u[0]^5 u[1]^1 u[3]^1 + 1837836 u[0]^5 u[2]^2 + 87516 u[0]^5 u[6]^1 + 1021020 u[0]^6 u[1]^2 + 204204 u[0]^6 u[4]^1 + 291720 u[0]^7 u[2]^1 + 24310 u[0]^9 + 27632072 u[1]^1 u[2]^1 u[3]^1 u[4]^1 + 130900 u[1]^1 u[2]^1 u[9]^1 + 9141444 u[1]^1 u[2]^2 u[5]^1 + 328168 u[1]^1 u[3]^1 u[8]^1 + 5779592 u[1]^1 u[3]^3 + 592688 u[1]^1 u[4]^1 u[7]^1 + 791044 u[1]^1 u[5]^1 u[6]^1 + 238 u[1]^1 u[13]^1 + 3786172 u[1]^2 u[2]^1 u[6]^1 + 17629612 u[1]^2 u[2]^3 + 6668012 u[1]^2 u[3]^1 u[5]^1 + 4015570 u[1]^2 u[4]^2 + 17510 u[1]^2 u[10]^1 + 25613016 u[1]^3 u[2]^1 u[3]^1 + 459680 u[1]^3 u[7]^1 + 3719430 u[1]^4 u[4]^1 + 850850 u[1]^6 + 1013880 u[2]^1 u[3]^1 u[7]^1 + 1631524 u[2]^1 u[4]^1 u[6]^1 + 952306 u[2]^1 u[5]^2 + 1122 u[2]^1 u[12]^1 + 11914994 u[2]^2 u[3]^2 + 224026 u[2]^2 u[8]^1 + 6339164 u[2]^3 u[4]^1 + 2878508 u[3]^1 u[4]^1 u[5]^1 + 3638 u[3]^1 u[11]^1 + 1022414 u[3]^2 u[6]^1 + 8738 u[4]^1 u[10]^1 + 578510 u[4]^3 + 16014 u[5]^1 u[9]^1 + 22882 u[6]^1 u[8]^1 + 12869 u[7]^2 + 1 u[16]^1

FIN
Mon May 5 21:44:18 EDT 2003
---------------------G10------------------------

Size:137

1050018736 u[0]^1 u[1]^1 u[2]^1 u[3]^1 u[4]^1 + 4974200 u[0]^1 u[1]^1 u[2]^1 u[9]^1 + 347374872 u[0]^1 u[1]^1 u[2]^2 u[5]^1 + 12470384 u[0]^1 u[1]^1 u[3]^1 u[8]^1 + 219624496 u[0]^1 u[1]^1 u[3]^3 + 22522144 u[0]^1 u[1]^1 u[4]^1 u[7]^1 + 30059672 u[0]^1 u[1]^1 u[5]^1 u[6]^1 + 9044 u[0]^1 u[1]^1 u[13]^1 + 143874536 u[0]^1 u[1]^2 u[2]^1 u[6]^1 + 669925256 u[0]^1 u[1]^2 u[2]^3 + 253384456 u[0]^1 u[1]^2 u[3]^1 u[5]^1 + 152591660 u[0]^1 u[1]^2 u[4]^2 + 665380 u[0]^1 u[1]^2 u[10]^1 + 973294608 u[0]^1 u[1]^3 u[2]^1 u[3]^1 + 17467840 u[0]^1 u[1]^3 u[7]^1 + 141338340 u[0]^1 u[1]^4 u[4]^1 + 32332300 u[0]^1 u[1]^6 + 38527440 u[0]^1 u[2]^1 u[3]^1 u[7]^1 + 61997912 u[0]^1 u[2]^1 u[4]^1 u[6]^1 + 36187628 u[0]^1 u[2]^1 u[5]^2 + 42636 u[0]^1 u[2]^1 u[12]^1 + 452769772 u[0]^1 u[2]^2 u[3]^2 + 8512988 u[0]^1 u[2]^2 u[8]^1 + 240888232 u[0]^1 u[2]^3 u[4]^1 + 109383304 u[0]^1 u[3]^1 u[4]^1 u[5]^1 + 138244 u[0]^1 u[3]^1 u[11]^1 + 38851732 u[0]^1 u[3]^2 u[6]^1 + 332044 u[0]^1 u[4]^1 u[10]^1 + 21983380 u[0]^1 u[4]^3 + 608532 u[0]^1 u[5]^1 u[9]^1 + 869516 u[0]^1 u[6]^1 u[8]^1 + 489022 u[0]^1 u[7]^2 + 38 u[0]^1 u[16]^1 + 36615280 u[0]^2 u[1]^1 u[2]^1 u[7]^1 + 1006550688 u[0]^2 u[1]^1 u[2]^2 u[3]^1 + 73364928 u[0]^2 u[1]^1 u[3]^1 u[6]^1 + 103026664 u[0]^2 u[1]^1 u[4]^1 u[5]^1 + 116280 u[0]^2 u[1]^1 u[11]^1 + 584198472 u[0]^2 u[1]^2 u[2]^1 u[4]^1 + 365262612 u[0]^2 u[1]^2 u[3]^2 + 5962580 u[0]^2 u[1]^2 u[8]^1 + 94225560 u[0]^2 u[1]^3 u[5]^1 + 329789460 u[0]^2 u[1]^4 u[2]^1 + 176861880 u[0]^2 u[2]^1 u[3]^1 u[5]^1 + 106704988 u[0]^2 u[2]^1 u[4]^2 + 471580 u[0]^2 u[2]^1 u[10]^1 + 50404796 u[0]^2 u[2]^2 u[6]^1 + 116488658 u[0]^2 u[2]^4 + 1292000 u[0]^2 u[3]^1 u[9]^1 + 133343444 u[0]^2 u[3]^2 u[4]^1 + 2587876 u[0]^2 u[4]^1 u[8]^1 + 3878584 u[0]^2 u[5]^1 u[7]^1 + 2217718 u[0]^2 u[6]^2 + 646 u[0]^2 u[14]^1 + 133024320 u[0]^3 u[1]^1 u[2]^1 u[5]^1 + 199536480 u[0]^3 u[1]^1 u[3]^1 u[4]^1 + 839800 u[0]^3 u[1]^1 u[9]^1 + 460042440 u[0]^3 u[1]^2 u[2]^2 + 27713400 u[0]^3 u[1]^2 u[6]^1 + 221707200 u[0]^3 u[1]^3 u[3]^1 + 171823080 u[0]^3 u[2]^1 u[3]^2 + 2855320 u[0]^3 u[2]^1 u[8]^1 + 138567000 u[0]^3 u[2]^2 u[4]^1 + 6382480 u[0]^3 u[3]^1 u[7]^1 + 10245560 u[0]^3 u[4]^1 u[6]^1 + 5962580 u[0]^3 u[5]^2 + 6460 u[0]^3 u[12]^1 + 238335240 u[0]^4 u[1]^1 u[2]^1 u[3]^1 + 3695120 u[0]^4 u[1]^1 u[7]^1 + 69283500 u[0]^4 u[1]^2 u[4]^1 + 48498450 u[0]^4 u[1]^4 + 10161580 u[0]^4 u[2]^1 u[6]^1 + 56350580 u[0]^4 u[2]^3 + 17551820 u[0]^4 u[3]^1 u[5]^1 + 10623470 u[0]^4 u[4]^2 + 41990 u[0]^4 u[10]^1 + 9976824 u[0]^5 u[1]^1 u[5]^1 + 85357272 u[0]^5 u[1]^2 u[2]^1 + 21062184 u[0]^5 u[2]^1 u[4]^1 + 12748164 u[0]^5 u[3]^2 + 184756 u[0]^5 u[8]^1 + 15519504 u[0]^6 u[1]^1 u[3]^1 + 11639628 u[0]^6 u[2]^2 + 554268 u[0]^6 u[6]^1 + 5542680 u[0]^7 u[1]^2 + 1108536 u[0]^7 u[4]^1 + 1385670 u[0]^8 u[2]^1 + 92378 u[0]^10 + 153461176 u[1]^1 u[2]^1 u[3]^1 u[6]^1 + 216099920 u[1]^1 u[2]^1 u[4]^1 u[5]^1 + 267444 u[1]^1 u[2]^1 u[11]^1 + 37964128 u[1]^1 u[2]^2 u[7]^1 + 606436376 u[1]^1 u[2]^3 u[3]^1 + 163735160 u[1]^1 u[3]^1 u[4]^2 + 804916 u[1]^1 u[3]^1 u[10]^1 + 135808580 u[1]^1 u[3]^2 u[5]^1 + 1776500 u[1]^1 u[4]^1 u[9]^1 + 2965140 u[1]^1 u[5]^1 u[8]^1 + 3815276 u[1]^1 u[6]^1 u[7]^1 + 304 u[1]^1 u[15]^1 + 662047932 u[1]^2 u[2]^1 u[3]^2 + 12262372 u[1]^2 u[2]^1 u[8]^1 + 526604988 u[1]^2 u[2]^2 u[4]^1 + 27806424 u[1]^2 u[3]^1 u[7]^1 + 44722580 u[1]^2 u[4]^1 u[6]^1 + 26119718 u[1]^2 u[5]^2 + 30362 u[1]^2 u[12]^1 + 169102128 u[1]^3 u[2]^1 u[5]^1 + 255971040 u[1]^3 u[3]^1 u[4]^1 + 1195100 u[1]^3 u[9]^1 + 247480662 u[1]^4 u[2]^2 + 17509830 u[1]^4 u[6]^1 + 72054840 u[1]^5 u[3]^1 + 3029740 u[2]^1 u[3]^1 u[9]^1 + 281969956 u[2]^1 u[3]^2 u[4]^1 + 6094364 u[2]^1 u[4]^1 u[8]^1 + 9164156 u[2]^1 u[5]^1 u[7]^1 + 5242290 u[2]^1 u[6]^2 + 1634 u[2]^1 u[14]^1 + 185917508 u[2]^2 u[3]^1 u[5]^1 + 112152706 u[2]^2 u[4]^2 + 547162 u[2]^2 u[10]^1 + 35014492 u[2]^3 u[6]^1 + 41796846 u[2]^5 + 13861868 u[3]^1 u[4]^1 u[7]^1 + 18536324 u[3]^1 u[5]^1 u[6]^1 + 6118 u[3]^1 u[13]^1 + 3823674 u[3]^2 u[8]^1 + 29561283 u[3]^4 + 13058890 u[4]^1 u[5]^2 + 17138 u[4]^1 u[12]^1 + 11172570 u[4]^2 u[6]^1 + 37126 u[5]^1 u[11]^1 + 63650 u[6]^1 u[10]^1 + 87514 u[7]^1 u[9]^1 + 48621 u[8]^2 + 1 u[18]^1

FIN
Mon May 5 21:44:44 EDT 2003
---------------------G11------------------------

Size:210

6445369392 u[0]^1 u[1]^1 u[2]^1 u[3]^1 u[6]^1 +9076196640 u[0]^1 u[1]^1 u[2]^1 u[4]^1 u[5]^1 + 11232648 u[0]^1 u[1]^1 u[2]^1
u[11]^1 + 1594493376 u[0]^1 u[1]^1 u[2]^2 u[7]^1 + 25470327792 u[0]^1 u[1]^1 u[2]^3 u[3]^1 + 6876876720 u[0]^1 u[1]^1 u[3]^1 u[4]^2
+ 33806472 u[0]^1 u[1]^1 u[3]^1 u[10]^1 +5703960360 u[0]^1 u[1]^1 u[3]^2 u[5]^1 + 74613000 u[0]^1 u[1]^1 u[4]^1 u[9]^1 + 124535880
u[0]^1 u[1]^1 u[5]^1 u[8]^1 + 160241592 u[0]^1 u[1]^1 u[6]^1 u[7]^1 + 12768 u[0]^1 u[1]^1 u[15]^1 + 27806013144 u[0]^1 u[1]^2 u[2]^1
u[3]^2 + 515019624 u[0]^1 u[1]^2 u[2]^1 u[8]^1 + 22117409496 u[0]^1 u[1]^2 u[2]^2 u[4]^1 + 1167869808 u[0]^1 u[1]^2 u[3]^1 u[7]^1 +
1878348360 u[0]^1 u[1]^2 u[4]^1 u[6]^1 + 1097028156 u[0]^1 u[1]^2 u[5]^2 + 1275204 u[0]^1 u[1]^2 u[12]^1 + 7102289376 u[0]^1 u[1]^3
u[2]^1 u[5]^1 + 10750783680 u[0]^1 u[1]^3 u[3]^1 u[4]^1 + 50194200 u[0]^1 u[1]^3 u[9]^1 + 10394187804 u[0]^1 u[1]^4 u[2]^2 +
735412860 u[0]^1 u[1]^4 u[6]^1 + 3026303280 u[0]^1 u[1]^5 u[3]^1 + 127249080 u[0]^1 u[2]^1 u[3]^1 u[9]^1 + 11842738152 u[0]^1
u[2]^1 u[3]^2 u[4]^1 + 255963288 u[0]^1 u[2]^1 u[4]^1 u[8]^1 + 384894552 u[0]^1 u[2]^1 u[5]^1 u[7]^1 + 220176180 u[0]^1 u[2]^1 u[6]^2
+ 68628 u[0]^1 u[2]^1 u[14]^1 + 7808535336 u[0]^1 u[2]^2 u[3]^1 u[5]^1 + 4710413652 u[0]^1 u[2]^2 u[4]^2 + 22980804 u[0]^1 u[2]^2
u[10]^1 + 1470608664 u[0]^1 u[2]^3 u[6]^1 + 1755467532 u[0]^1 u[2]^5 + 582198456 u[0]^1 u[3]^1 u[4]^1 u[7]^1 + 778525608 u[0]^1
u[3]^1 u[5]^1 u[6]^1 + 256956 u[0]^1 u[3]^1 u[13]^1 + 160594308 u[0]^1 u[3]^2 u[8]^1 + 1241573886 u[0]^1 u[3]^4 + 548473380 u[0]^1
u[4]^1 u[5]^2 + 719796 u[0]^1 u[4]^1 u[12]^1 + 469247940 u[0]^1 u[4]^2 u[6]^1 + 1559292 u[0]^1 u[5]^1 u[11]^1 + 2673300 u[0]^1
u[6]^1 u[10]^1 + 3675588 u[0]^1 u[7]^1 u[9]^1 + 2042082 u[0]^1 u[8]^2 + 42 u[0]^1 u[18]^1 + 22050393456 u[0]^2 u[1]^1 u[2]^1 u[3]^1
u[4]^1 + 104458200 u[0]^2 u[1]^1 u[2]^1 u[9]^1 + 7294872312 u[0]^2 u[1]^1 u[2]^2 u[5]^1 + 261878064 u[0]^2 u[1]^1 u[3]^1 u[8]^1 +
4612114416 u[0]^2 u[1]^1 u[3]^3 + 472965024 u[0]^2 u[1]^1 u[4]^1 u[7]^1 + 631253112 u[0]^2 u[1]^1 u[5]^1 u[6]^1 + 189924 u[0]^2
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+ 3204424860 u[0]^2 u[1]^2 u[4]^2 + 13972980 u[0]^2 u[1]^2 u[10]^1 + 20439186768 u[0]^2 u[1]^3 u[2]^1 u[3]^1 + 366824640 u[0]^2
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+ 18259836 u[0]^2 u[6]^1 u[8]^1 + 10269462 u[0]^2 u[7]^2 + 798 u[0]^2 u[16]^1 + 512613920 u[0]^3 u[1]^1 u[2]^1 u[7]^1 + 14091709632
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u[3]^2 + 29980860 u[0]^4 u[2]^1 u[8]^1 + 1454953500 u[0]^4 u[2]^2 u[4]^1 + 67016040 u[0]^4 u[3]^1 u[7]^1 + 107578380 u[0]^4 u[4]^1
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u[5]^1 u[7]^1 + 159746110 u[1]^2 u[6]^2 + 49210 u[1]^2 u[14]^1 + 779628976 u[1]^3 u[2]^1 u[7]^1 + 18923918832 u[1]^3 u[2]^2 u[3]^1
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u[13]^1 + 106170898 u[5]^2 u[6]^1 + 155042 u[6]^1 u[12]^1 + 251938 u[7]^1 u[11]^1 + 335922 u[8]^1 u[10]^1 + 184755 u[9]^2 + 1
u[20]^1

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29233293296 u[0]^1 u[1]^1 u[2]^1 u[3]^1 u[8]^1 + 461084272624 u[0]^1 u[1]^1 u[2]^1 u[3]^3 + 53009659216 u[0]^1 u[1]^1 u[2]^1 u[4]^1
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u[3]^1 u[4]^1 u[6]^1 + 62864079136 u[0]^1 u[1]^1 u[3]^1 u[5]^2 + 80610768 u[0]^1 u[1]^1 u[3]^1 u[12]^1 + 33332318336 u[0]^1 u[1]^1
u[3]^2 u[7]^1 + 210214480 u[0]^1 u[1]^1 u[4]^1 u[11]^1 + 75809379080 u[0]^1 u[1]^1 u[4]^2 u[5]^1 + 421107184 u[0]^1 u[1]^1 u[5]^1
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$527738686992 \ u[0]^\wedge1 \ u[1]^\wedge2 \ u[2]^\wedge1 \ u[3]^\wedge1 \ u[5]^\wedge1 + 318188527400 \ u[0]^\wedge1 \ u[1]^\wedge2 \ u[2]^\wedge1 \ u[4]^\wedge2 + 1532216392 \ u[0]^\wedge1 \ u[1]^\wedge2 \ u[2]^\wedge1$
$u[10]^\wedge1 + 148815172424 \ u[0]^\wedge1 \ u[1]^\wedge2 \ u[2]^\wedge2 \ u[6]^\wedge1 + 299131032564 \ u[0]^\wedge1 \ u[1]^\wedge2 \ u[2]^\wedge4 + 4247605040 \ u[0]^\wedge1 \ u[1]^\wedge2 \ u[3]^\wedge1 \ u[9]^\wedge1 +$
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$7348321060 \ u[0]^\wedge1 \ u[1]^\wedge2 \ u[6]^\wedge2 + 2263660 \ u[0]^\wedge1 \ u[1]^\wedge2 \ u[14]^\wedge1 + 35862932896 \ u[0]^\wedge1 \ u[1]^\wedge3 \ u[2]^\wedge1 \ u[7]^\wedge1 + 870500266272 \ u[0]^\wedge1$
$u[1]^\wedge3 \ u[2]^\wedge2 \ u[3]^\wedge1 + 72577169760 \ u[0]^\wedge1 \ u[1]^\wedge3 \ u[3]^\wedge1 \ u[6]^\wedge1 + 102205804720 \ u[0]^\wedge1 \ u[1]^\wedge3 \ u[4]^\wedge1 \ u[5]^\wedge1 + 124807200 \ u[0]^\wedge1 \ u[1]^\wedge3$
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$u[0]^\wedge1 \ u[3]^\wedge1 \ u[6]^\wedge1 \ u[7]^\wedge1 + 445648 \ u[0]^\wedge1 \ u[3]^\wedge1 \ u[15]^\wedge1 + 98985333220 \ u[0]^\wedge1 \ u[3]^\wedge2 \ u[4]^\wedge2 + 541745404 \ u[0]^\wedge1 \ u[3]^\wedge2 \ u[10]^\wedge1 +$
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$u[14]^\wedge1 + 2421740380 \ u[0]^\wedge1 \ u[4]^\wedge2 \ u[8]^\wedge1 + 3565828 \ u[0]^\wedge1 \ u[5]^\wedge1 \ u[13]^\wedge1 + 4883861308 \ u[0]^\wedge1 \ u[5]^\wedge2 \ u[6]^\wedge1 + 7131932 \ u[0]^\wedge1 \ u[6]^\wedge1$
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$u[11]^\wedge1 + 36673347648 \ u[0]^\wedge2 \ u[1]^\wedge1 \ u[2]^\wedge2 \ u[7]^\wedge1 + 585817539216 \ u[0]^\wedge2 \ u[1]^\wedge1 \ u[2]^\wedge3 \ u[3]^\wedge1 + 158168164560 \ u[0]^\wedge2 \ u[1]^\wedge1 \ u[3]^\wedge1$
$u[4]^\wedge2 + 777548856 \ u[0]^\wedge2 \ u[1]^\wedge1 \ u[3]^\wedge1 \ u[10]^\wedge1 + 131191088280 \ u[0]^\wedge2 \ u[1]^\wedge1 \ u[3]^\wedge2 \ u[5]^\wedge1 + 1716099000 \ u[0]^\wedge2 \ u[1]^\wedge1 \ u[4]^\wedge1 \ u[9]^\wedge1$
$+ 2864325240 \ u[0]^\wedge2 \ u[1]^\wedge1 \ u[5]^\wedge1 \ u[8]^\wedge1 + 3685556616 \ u[0]^\wedge2 \ u[1]^\wedge1 \ u[6]^\wedge1 \ u[7]^\wedge1 + 293664 \ u[0]^\wedge2 \ u[1]^\wedge1 \ u[15]^\wedge1 + 639538302312$
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$u[3]^\wedge1 \ u[9]^\wedge1 + 272382977496 \ u[0]^\wedge2 \ u[2]^\wedge1 \ u[3]^\wedge2 \ u[4]^\wedge1 + 5887155624 \ u[0]^\wedge2 \ u[2]^\wedge1 \ u[4]^\wedge1 \ u[8]^\wedge1 + 8852574696 \ u[0]^\wedge2 \ u[2]^\wedge1 \ u[5]^\wedge1$
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$u[2]^\wedge1 \ u[5]^\wedge2 + 13728792 \ u[0]^\wedge3 \ u[2]^\wedge1 \ u[12]^\wedge1 + 145791866584 \ u[0]^\wedge3 \ u[2]^\wedge2 \ u[3]^\wedge2 + 2741182136 \ u[0]^\wedge3 \ u[2]^\wedge2 \ u[8]^\wedge1 + 77566010704$
$u[0]^\wedge3 \ u[2]^\wedge3 \ u[4]^\wedge1 + 35221423888 \ u[0]^\wedge3 \ u[3]^\wedge1 \ u[4]^\wedge1 \ u[5]^\wedge1 + 44514568 \ u[0]^\wedge3 \ u[3]^\wedge1 \ u[11]^\wedge1 + 12510257704 \ u[0]^\wedge3 \ u[3]^\wedge2 \ u[6]^\wedge1 +$
$106918168 \ u[0]^\wedge3 \ u[4]^\wedge1 \ u[10]^\wedge1 + 7078648360 \ u[0]^\wedge3 \ u[4]^\wedge3 + 195947304 \ u[0]^\wedge3 \ u[5]^\wedge1 \ u[9]^\wedge1 + 279984152 \ u[0]^\wedge3 \ u[6]^\wedge1 \ u[8]^\wedge1 +$
$157465084 \ u[0]^\wedge3 \ u[7]^\wedge2 + 12236 \ u[0]^\wedge3 \ u[16]^\wedge1 + 5895060080 \ u[0]^\wedge4 \ u[1]^\wedge1 \ u[2]^\wedge1 \ u[7]^\wedge1 + 162054660768 \ u[0]^\wedge4 \ u[1]^\wedge1 \ u[2]^\wedge2 \ u[3]^\wedge1$
$+ 11811753408 \ u[0]^\wedge4 \ u[1]^\wedge1 \ u[3]^\wedge1 \ u[6]^\wedge1 + 16587292904 \ u[0]^\wedge4 \ u[1]^\wedge1 \ u[4]^\wedge1 \ u[5]^\wedge1 + 18721080 \ u[0]^\wedge4 \ u[1]^\wedge1 \ u[11]^\wedge1 + 94055953992$
$u[0]^\wedge4 \ u[1]^\wedge2 \ u[2]^\wedge1 \ u[4]^\wedge1 + 58807280532 \ u[0]^\wedge4 \ u[1]^\wedge2 \ u[3]^\wedge2 + 959975380 \ u[0]^\wedge4 \ u[1]^\wedge2 \ u[8]^\wedge1 + 15170315160 \ u[0]^\wedge4 \ u[1]^\wedge3 \ u[5]^\wedge1 +$
$53096103060 \ u[0]^\wedge4 \ u[1]^\wedge4 \ u[2]^\wedge1 + 28474762680 \ u[0]^\wedge4 \ u[2]^\wedge1 \ u[3]^\wedge1 \ u[5]^\wedge1 + 17179503068 \ u[0]^\wedge4 \ u[2]^\wedge1 \ u[4]^\wedge2 + 75924380 \ u[0]^\wedge4$
$u[2]^\wedge1 \ u[10]^\wedge1 + 8115172156 \ u[0]^\wedge4 \ u[2]^\wedge2 \ u[6]^\wedge1 + 18754673938 \ u[0]^\wedge4 \ u[2]^\wedge4 + 208012000 \ u[0]^\wedge4 \ u[3]^\wedge1 \ u[9]^\wedge1 + 21468294484 \ u[0]^\wedge4$
$u[3]^\wedge2 \ u[4]^\wedge1 + 416648036 \ u[0]^\wedge4 \ u[4]^\wedge1 \ u[8]^\wedge1 + 624452024 \ u[0]^\wedge4 \ u[5]^\wedge1 \ u[7]^\wedge1 + 357052598 \ u[0]^\wedge4 \ u[6]^\wedge2 + 104006 \ u[0]^\wedge4 \ u[14]^\wedge1 +$
$12850149312 \ u[0]^\wedge5 \ u[1]^\wedge1 \ u[2]^\wedge1 \ u[5]^\wedge1 + 19275223968 \ u[0]^\wedge5 \ u[1]^\wedge1 \ u[3]^\wedge1 \ u[4]^\wedge1 + 81124680 \ u[0]^\wedge5 \ u[1]^\wedge1 \ u[9]^\wedge1 + 44440099704$
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$+ 575985228 \ u[0]^\wedge5 \ u[5]^\wedge2 + 624036 \ u[0]^\wedge5 \ u[12]^\wedge1 + 15348789456 \ u[0]^\wedge6 \ u[1]^\wedge1 \ u[2]^\wedge1 \ u[3]^\wedge1 + 237965728 \ u[0]^\wedge6 \ u[1]^\wedge1 \ u[7]^\wedge1 +$
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$u[3]^\wedge1 + 401567166 \ u[0]^\wedge8 \ u[2]^\wedge2 + 19122246 \ u[0]^\wedge8 \ u[6]^\wedge1 + 148728580 \ u[0]^\wedge9 \ u[1]^\wedge2 + 29745716 \ u[0]^\wedge9 \ u[4]^\wedge1 + 29745716 \ u[0]^\wedge10$
$u[2]^\wedge1 + 1352078 \ u[0]^\wedge12 + 399755381480 \ u[1]^\wedge1 \ u[2]^\wedge1 \ u[3]^\wedge1 \ u[4]^\wedge2 + 2146530016 \ u[1]^\wedge1 \ u[2]^\wedge1 \ u[3]^\wedge1 \ u[10]^\wedge1 + 331220716928 \ u[1]^\wedge1$
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$u[4]^\wedge1 \ u[13]^\wedge1 + 10978314000 \ u[1]^\wedge1 \ u[4]^\wedge2 \ u[7]^\wedge1 + 24496012 \ u[1]^\wedge1 \ u[5]^\wedge1 \ u[12]^\wedge1 + 5733228492 \ u[1]^\wedge1 \ u[5]^\wedge3 + 45543220 \ u[1]^\wedge1$
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$u[3]^\wedge1 \ u[4]^\wedge1 \ u[5]^\wedge1 + 260565620 \ u[1]^\wedge2 \ u[3]^\wedge1 \ u[11]^\wedge1 + 68123484260 \ u[1]^\wedge2 \ u[3]^\wedge2 \ u[6]^\wedge1 + 628781820 \ u[1]^\wedge2 \ u[4]^\wedge1 \ u[10]^\wedge1 +$
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$u[1]^\wedge2 \ u[16]^\wedge1 + 545736122960 \ u[1]^\wedge3 \ u[2]^\wedge1 \ u[3]^\wedge1 \ u[4]^\wedge1 + 2835203560 \ u[1]^\wedge3 \ u[2]^\wedge1 \ u[9]^\wedge1 + 179440482024 \ u[1]^\wedge3 \ u[2]^\wedge2 \ u[5]^\wedge1 +$
$7175819680 \ u[1]^\wedge3 \ u[3]^\wedge1 \ u[8]^\wedge1 + 114710891840 \ u[1]^\wedge3 \ u[3]^\wedge3 + 13012636400 \ u[1]^\wedge3 \ u[4]^\wedge1 \ u[7]^\wedge1 + 17405552680 \ u[1]^\wedge3 \ u[5]^\wedge1 \ u[6]^\wedge1$
$+ 5567380 \ u[1]^\wedge3 \ u[13]^\wedge1 + 36919009820 \ u[1]^\wedge4 \ u[2]^\wedge1 \ u[6]^\wedge1 + 150186120084 \ u[1]^\wedge4 \ u[2]^\wedge3 + 65534329180 \ u[1]^\wedge4 \ u[3]^\wedge1 \ u[5]^\wedge1 +$
$39511507950 \ u[1]^\wedge4 \ u[4]^\wedge2 + 187730830 \ u[1]^\wedge4 \ u[10]^\wedge1 + 131178607560 \ u[1]^\wedge5 \ u[2]^\wedge1 \ u[3]^\wedge1 + 2666713840 \ u[1]^\wedge5 \ u[7]^\wedge1 + 12641929300$
$u[1]^\wedge6 \ u[4]^\wedge1 + 1301375075 \ u[1]^\wedge8 + 37643358296 \ u[2]^\wedge1 \ u[3]^\wedge1 \ u[4]^\wedge1 \ u[7]^\wedge1 + 50423374352 \ u[2]^\wedge1 \ u[3]^\wedge1 \ u[5]^\wedge1 \ u[6]^\wedge1 + 17793076$
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$257528608 \ u[2]^\wedge1 \ u[7]^\wedge1 \ u[9]^\wedge1 + 143129322 \ u[2]^\wedge1 \ u[8]^\wedge2 + 3082 \ u[2]^\wedge1 \ u[18]^\wedge1 + 4071896080 \ u[2]^\wedge2 \ u[3]^\wedge1 \ u[9]^\wedge1 + 345101743996$
$u[2]^\wedge2 \ u[3]^\wedge2 \ u[4]^\wedge1 + 8221967964 \ u[2]^\wedge2 \ u[4]^\wedge1 \ u[8]^\wedge1 + 12393575208 \ u[2]^\wedge2 \ u[5]^\wedge1 \ u[7]^\wedge1 + 7093783418 \ u[2]^\wedge2 \ u[6]^\wedge2 + 2356074$

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u[13]^1 + 994842 u[8]^1 u[12]^1 + 1293290 u[9]^1 u[11]^1 + 705433 u[10]^2 + 1 u[22]^1

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19987769074000 u[0]^1 u[1]^1 u[2]^1 u[3]^1 u[4]^2 + 107326500800 u[0]^1 u[1]^1 u[2]^1 u[3]^1 u[10]^1 + 16561035846400 u[0]^1 u[1]^1
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u[4]^3 + 4955789649600 u[0]^1 u[1]^1 u[3]^1 u[5]^1 u[9]^1 + 7102717804800 u[0]^1 u[1]^1 u[3]^1 u[6]^1 u[8]^1 + 3999396541680 u[0]^1 u[1]^1 u[3]^1 u[7]^2 + 348207120 u[0]^1 u[1]^1 u[3]^1 u[16]^1 + 372289094362800 u[0]^1 u[1]^1 u[3]^2 u[4]^1 u[5]^1 + 554673573360 u[0]^1 u[1]^1 u[3]^2 u[11]^1 + 87811040731680 u[0]^1 u[1]^1 u[3]^3 u[6]^1 + 10020325987440 u[0]^1 u[1]^1 u[4]^1 u[5]^1 u[8]^1 + 12921493915440 u[0]^1 u[1]^1 u[4]^1 u[6]^1 u[7]^1 + 1186954560 u[0]^1 u[1]^1 u[4]^1 u[15]^1 + 2987477364600 u[0]^1 u[1]^1 u[4]^2 u[9]^1 + 8656827113880 u[0]^1 u[1]^1 u[5]^1 u[6]^2 + 3170304360 u[0]^1 u[1]^1 u[5]^1 u[14]^1 + 7560052360560 u[0]^1 u[1]^1 u[5]^2 u[7]^1 + 6801142320 u[0]^1 u[1]^1 u[6]^1 u[13]^1 + 11910780000 u[0]^1 u[1]^1 u[7]^1 u[12]^1 + 17212331520 u[0]^1 u[1]^1 u[8]^1 u[11]^1 + 20659278960 u[0]^1 u[1]^1 u[9]^1 u[10]^1 + 29700 u[0]^1 u[1]^1 u[21]^1 + 16239789630000 u[0]^1 u[1]^2 u[2]^1 u[3]^1 u[9]^1 + 1393533238641840 u[0]^1 u[1]^2 u[2]^1 u[3]^2 u[4]^1 + 32791364531280 u[0]^1 u[1]^2 u[2]^1 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u[5]^1 u[6]^1 + 14149485000 u[0]^2 u[1]^1 u[4]^1 u[13]^1 + 14820723900000 u[0]^2 u[1]^1 u[4]^2 u[7]^1 + 33069616200 u[0]^2 u[1]^1 u[5]^1 u[12]^1 + 7739858464200 u[0]^2 u[1]^1 u[5]^3 + 61483347000 u[0]^2 u[1]^1 u[6]^1 u[11]^1 + 92285443800 u[0]^2 u[1]^1 u[7]^1 u[10]^1 + 112828869000 u[0]^2 u[1]^1 u[8]^1 u[9]^1 + 621000 u[0]^2 u[1]^1 u[19]^1 + 90483633165600 u[0]^2 u[1]^2 u[2]^1 u[3]^1 u[7]^1 + 146002359870000 u[0]^2 u[1]^2 u[2]^1 u[4]^1 u[6]^1 + 85376268469800 u[0]^2 u[1]^2 u[2]^1 u[5]^2 + 107387418600 u[0]^2 u[1]^2 u[2]^1 u[12]^1 + 955725883536600 u[0]^2 u[1]^2 u[2]^2 u[3]^2 + 19807531133400 u[0]^2 u[1]^2 u[2]^2 u[8]^1 + 505116053686800 u[0]^2 u[1]^2 u[2]^3 u[4]^1 + 259529930874000 u[0]^2 u[1]^2 u[3]^1 u[4]^1 u[5]^1 + 351763587000 u[0]^2 u[1]^2 u[3]^1 u[11]^1 + 91966703751000 u[0]^2 u[1]^2 u[3]^2 u[6]^1 + 848855457000 u[0]^2 u[1]^2 u[4]^1 u[10]^1 + 52186682025000 u[0]^2 u[1]^2 u[4]^3 + 1561113891000 u[0]^2 u[1]^2 u[5]^1 u[9]^1 + 2234058057000 u[0]^2 u[1]^2 u[6]^1 u[8]^1 + 1257328577700 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1128611880 u[3]^1 u[4]^1 u[15]^1 + 2648848935000

u[3]^1 u[4]^2 u[9]^1 + 7705173385500 u[3]^1 u[5]^1 u[6]^2 + 3024114180 u[3]^1 u[5]^1 u[14]^1 + 6725765770560 u[3]^1 u[5]^2 u[7]^1 + 6502577760 u[3]^1 u[6]^1 u[13]^1 + 11406408000 u[3]^1 u[7]^1 u[12]^1 + 16500420660 u[3]^1 u[8]^1 u[11]^1 + 19814702280 u[3]^1 u[9]^1 u[10]^1 + 29898 u[3]^1 u[21]^1 + 1187967395820 u[3]^2 u[4]^1 u[10]^1 + 60580866339660 u[3]^2 u[4]^3 + 2195471941860 u[3]^2 u[5]^1 u[9]^1 + 3150556917420 u[3]^2 u[6]^1 u[8]^1 + 1774751262510 u[3]^2 u[7]^2 + 164843190 u[3]^2 u[16]^1 + 100284217869720 u[3]^3 u[4]^1 u[5]^1 + 162917954820 u[3]^3 u[11]^1 + 17717623299630 u[3]^4 u[6]^1 + 9160124400 u[4]^1 u[5]^1 u[13]^1 + 10890460695300 u[4]^1 u[5]^2 u[6]^1 + 18398519940 u[4]^1 u[6]^1 u[12]^1 + 29982492900 u[4]^1 u[7]^1 u[11]^1 + 40041906540 u[4]^1 u[8]^1 u[10]^1 + 22034727570 u[4]^1 u[9]^2 + 131562 u[4]^1 u[20]^1 + 8117550418560 u[4]^2 u[5]^1 u[7]^1 + 4650008552010 u[4]^2 u[6]^2 + 1821072570 u[4]^2 u[14]^1 + 1790302915140 u[4]^3 u[8]^1 + 40158050760 u[5]^1 u[6]^1 u[11]^1 + 60418677120 u[5]^1 u[7]^1 u[10]^1 + 73952960220 u[5]^1 u[8]^1 u[9]^1 + 460458 u[5]^1 u[19]^1 + 10760279790 u[5]^2 u[12]^1 + 1062789168675 u[5]^4 + 95400300420 u[6]^1 u[7]^1 u[9]^1 + 53049674970 u[6]^1 u[8]^2 + 1315602 u[6]^1 u[18]^1 + 34592324370 u[6]^2 u[10]^1 + 3124548 u[7]^1 u[17]^1 + 59763930510 u[7]^2 u[8]^1 + 6249102 u[8]^1 u[16]^1 + 10623468 u[9]^1 u[15]^1 + 15452322 u[10]^1 u[14]^1 + 19315398 u[11]^1 u[13]^1 + 10400601 u[12]^2 + 1 u[26]^1

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u[0]^1 u[2]^1 u[4]^1 u[7]^2 + 15231782520 u[0]^1 u[2]^1 u[4]^1 u[16]^1 + 54710149804200 u[0]^1 u[2]^1 u[4]^2 u[10]^1 + 1391045802313500 u[0]^1 u[2]^1 u[4]^4 + 438248584064640 u[0]^1 u[2]^1 u[5]^1 u[6]^1 u[7]^1 + 43298375760 u[0]^1 u[2]^1 u[5]^1 u[15]^1 + 169798537560360 u[0]^1 u[2]^1 u[5]^2 u[8]^1 + 99200458920 u[0]^1 u[2]^1 u[6]^1 u[14]^1 + 83668109708280 u[0]^1 u[2]^1 u[6]^3 + 186304712760 u[0]^1 u[2]^1 u[7]^1 u[13]^1 + 290121499560 u[0]^1 u[2]^1 u[8]^1 u[12]^1 + 377390562720 u[0]^1 u[2]^1 u[9]^1 u[11]^1 + 205890940980 u[0]^1 u[2]^1 u[10]^2 + 301716 u[0]^1 u[2]^1 u[22]^1 + 4776334844815440 u[0]^1 u[2]^2 u[3]^1 u[4]^1 u[7]^1 + 6406788184715760 u[0]^1 u[2]^2 u[3]^1 u[5]^1 u[6]^1 + 2407233495240 u[0]^1 u[2]^2 u[3]^1 u[13]^1 + 1309412573737320 u[0]^1 u[2]^2 u[3]^2 u[8]^1 + 8401737155072940 u[0]^1 u[2]^2 u[3]^4 + 4530542574337560 u[0]^1 u[2]^2 u[4]^1 u[5]^2 + 6804990955080 u[0]^1 u[2]^2 u[4]^1 u[12]^1 + 3868563385515240 u[0]^1 u[2]^2 u[4]^2 u[6]^1 + 14836941083160 u[0]^1 u[2]^2 u[5]^1 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u[13]^1 + 688327985276640 u[0]^2 u[3]^1 u[4]^2 u[7]^1 + 1668710338200 u[0]^2 u[3]^1 u[5]^1 u[12]^1 + 360161073981720 u[0]^2 u[3]^1 u[5]^3 + 3109272579360 u[0]^2 u[3]^1 u[6]^1 u[11]^1 + 4673429146800 u[0]^2 u[3]^1 u[7]^1 u[10]^1 + 5717582322480 u[0]^2 u[3]^1 u[8]^1 u[9]^1 + 33277500 u[0]^2 u[3]^1 u[19]^1 + 377784387474840 u[0]^2 u[3]^2 u[4]^1 u[8]^1 + 570396993888960 u[0]^2 u[3]^2 u[5]^1 u[7]^1 + 326634359441940 u[0]^2 u[3]^2 u[6]^2 + 117779940540 u[0]^2 u[3]^2 u[14]^1 + 62205974643600 u[0]^2 u[3]^3 u[9]^1 + 2365760432631780 u[0]^2 u[3]^4 u[4]^1 + 4381062396480 u[0]^2 u[4]^1 u[5]^1 u[11]^1 + 7539854683320 u[0]^2 u[4]^1 u[6]^1 u[10]^1 + 10390286066760 u[0]^2 u[4]^1 u[7]^1 u[9]^1 + 5776576564860 u[0]^2 u[4]^1 u[8]^2 + 133125660 u[0]^2 u[4]^1 u[18]^1 + 652103163797580 u[0]^2 u[4]^2 u[5]^2 + 1005080489100 u[0]^2 u[4]^2 u[12]^1 + 371319581487240 u[0]^2 u[4]^3 u[6]^1 + 13916472038640 u[0]^2 u[5]^1 u[6]^1 u[9]^1 + 17429987598480 u[0]^2 u[5]^1 u[7]^1 u[8]^1 + 421551540 u[0]^2 u[5]^1 u[17]^1 + 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+ 475236557128800 u[0]^3 u[1]^1 u[3]^1 u[5]^1 u[7]^1 + 271992184128000 u[0]^3 u[1]^1 u[3]^1 u[6]^2 + 90933444000 u[0]^3 u[1]^1 u[3]^1 u[14]^1 + 78109199082000 u[0]^3 u[1]^1 u[3]^2 u[9]^1 + 4386335671800000 u[0]^3 u[1]^1 u[3]^3 u[4]^1 + 767424768624000 u[0]^3 u[1]^1 u[4]^1 u[5]^1 u[6]^1 + 273556710000 u[0]^3 u[1]^1 u[4]^1 u[13]^1 + 286533995400000 u[0]^3 u[1]^1 u[4]^2 u[7]^1 + 639345913200 u[0]^3 u[1]^1 u[5]^1 u[12]^1 + 149637263641200 u[0]^3 u[1]^1 u[5]^3 + 1188678042000 u[0]^3 u[1]^1 u[6]^1 u[11]^1 + 1784185246800 u[0]^3 u[1]^1 u[7]^1 u[10]^1 + 2181358134000 u[0]^3 u[1]^1 u[8]^1 u[9]^1 + 12006000 u[0]^3 u[1]^1 u[19]^1 + 1749350241201600 u[0]^3 u[1]^2 u[2]^1 u[3]^1 u[7]^1 + 2822712290820000 u[0]^3 u[1]^2 u[2]^1 u[4]^1 u[6]^1 + 1650607857082800 u[0]^3 u[1]^2 u[2]^1 u[5]^2 + 2076156759600 u[0]^3 u[1]^2 u[2]^1 u[12]^1 + 18477367081707600 u[0]^3 u[1]^2 u[2]^2 u[3]^2 + 382945601912400 u[0]^3 u[1]^2 u[2]^2 u[8]^1 + 9765577037944800 u[0]^3 u[1]^2 u[2]^3 u[4]^1 + 5017578663564000 u[0]^3 u[1]^2 u[3]^1 u[4]^1 u[5]^1 + 6800762682000 u[0]^3 u[1]^2 u[3]^1 u[11]^1 + 1778022939186000 u[0]^3 u[1]^2 u[3]^2 u[6]^1 + 16411205502000 u[0]^3 u[1]^2 u[4]^1 u[10]^1 + 1008942519150000 u[0]^3 u[1]^2 u[4]^3 + 30181535226000 u[0]^3 u[1]^2 u[5]^1 u[9]^1 + 43191789102000 u[0]^3 u[1]^2 u[6]^1 u[8]^1 + 24308352502200 u[0]^3 u[1]^2 u[7]^2 + 1974987000 u[0]^3 u[1]^2 u[16]^1 + 14243712809256000 u[0]^3 u[1]^3 u[2]^1 u[3]^1 u[4]^1 + 73998812916000 u[0]^3 u[1]^3 u[2]^1 u[9]^1 + 4683396580826400 u[0]^3 u[1]^3 u[2]^2 u[5]^1 + 187288893648000 u[0]^3 u[1]^3 u[3]^1 u[8]^1 + 2993954277024000 u[0]^3 u[1]^3 u[3]^3 + 339629810040000 u[0]^3 u[1]^3 u[4]^1 u[7]^1 + 454284924948000 u[0]^3 u[1]^3 u[5]^1 u[6]^1 + 145308618000 u[0]^3 u[1]^3 u[13]^1 + 963586156302000 u[0]^3 u[1]^4 u[2]^1 u[6]^1 + 3919857734192400 u[0]^3 u[1]^4 u[2]^3 + 1710445991598000 u[0]^3 u[1]^4 u[3]^1 u[5]^1 + 1031250357495000 u[0]^3 u[1]^4 u[4]^2 + 4899774663000 u[0]^3 u[1]^4 u[10]^1 + 3423761657316000 u[0]^3 u[1]^5 u[2]^1 u[3]^1 + 69601231224000 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$u[0]^5 u[1]^1 u[2]^1 u[11]^1 + 95717437361280 u[0]^5 u[1]^1 u[2]^2 u[7]^1 + 1528983777353760 u[0]^5 u[1]^1 u[2]^3 u[3]^1 + 412818909501600 u[0]^5 u[1]^1 u[3]^1 u[4]^2 + 2029402514160 u[0]^5 u[1]^1 u[3]^1 u[10]^1 + 342408740410800 u[0]^5 u[1]^1 u[3]^2 u[5]^1 + 4479018390000 u[0]^5 u[1]^1 u[4]^1 u[9]^1 + 7475888876400 u[0]^5 u[1]^1 u[5]^1 u[8]^1 + 9619302767760 u[0]^5 u[1]^1 u[6]^1 u[7]^1 + 766463040 u[0]^5 u[1]^1 u[15]^1 + 1669194969034320 u[0]^5 u[1]^2 u[2]^1 u[3]^2 + 30916628028720 u[0]^5 u[1]^2 u[2]^1 u[8]^1 + 1327708092044880 u[0]^5 u[1]^2 u[2]^2 u[4]^1 + 70107224574240 u[0]^5 u[1]^2 u[3]^1 u[7]^1 + 112757252050800 u[0]^5 u[1]^2 u[4]^1 u[6]^1 + 65854600204680 u[0]^5 u[1]^2 u[5]^2 + 76550496120 u[0]^5 u[1]^2 u[12]^1 + 426350431241280 u[0]^5 u[1]^3 u[2]^1 u[5]^1 + 645369544310400 u[0]^5 u[1]^3 u[3]^1 u[4]^1 + 3013157826000 u[0]^5 u[1]^3 u[9]^1 + 623963093874120 u[0]^5 u[1]^4 u[2]^2 + 44146833985800 u[0]^5 u[1]^4 u[6]^1 + 181668985898400 u[0]^5 u[1]^5 u[3]^1 + 7638762272400 u[0]^5 u[2]^1 u[3]^1 u[9]^1 + 710919571264560 u[0]^5 u[2]^1 u[3]^2 u[4]^1 + 15365476178640 u[0]^5 u[2]^1 u[4]^1 u[8]^1 + 23105219956560$

$u[0]^5 u[2]^1 u[5]^1 u[7]^1 + 13217176085400 u[0]^5 u[2]^1 u[6]^2 + 4119738840 u[0]^5 u[2]^1 u[14]^1 + 468746376220080 u[0]^5 u[2]^2 u[3]^1 u[5]^1 + 282766131529560 u[0]^5 u[2]^2 u[4]^2 + 1379537664120 u[0]^5 u[2]^2 u[10]^1 + 88280638099920 u[0]^5 u[2]^3 u[6]^1 + 105380715945960 u[0]^5 u[3]^1 u[4]^1 u[7]^1 + 46734892248240 u[0]^5 u[3]^1 u[5]^1 u[6]^1 + 15425068680 u[0]^5 u[3]^1 u[13]^1 + 9640476309240 u[0]^5 u[3]^2 u[8]^1 + 74531680376580 u[0]^5 u[3]^4 + 32924857001400 u[0]^5 u[4]^1 u[5]^2 + 43209353880 u[0]^5 u[4]^1 u[12]^1 + 28168953838200 u[0]^5 u[4]^2 u[6]^1 + 93604298760 u[0]^5 u[5]^1 u[11]^1 + 160478199000 u[0]^5 u[6]^1 u[10]^1 + 220645547640 u[0]^5 u[7]^1 u[9]^1 + 122586182460 u[0]^5 u[8]^2 + 2521260 u[0]^5 u[18]^1 + 441228373054560 u[0]^6 u[1]^1 u[2]^1 u[3]^1 u[4]^1 + 2090208582000 u[0]^6 u[1]^1 u[2]^1 u[9]^1 + 145970394963120 u[0]^6 u[1]^1 u[2]^2 u[5]^1 + 5240180060640 u[0]^6 u[1]^1 u[3]^1 u[8]^1 + 92288409464160 u[0]^6 u[1]^1 u[3]^3 + 9464030130240 u[0]^6 u[1]^1 u[4]^1 u[7]^1 + 12631374771120 u[0]^6 u[1]^1 u[5]^1 u[6]^1 + 3800379240 u[0]^6 u[1]^1 u[13]^1 + 60457518772560 u[0]^6 u[1]^2 u[2]^1 u[6]^1 + 281509291823760 u[0]^6 u[1]^2 u[2]^3 + 106474682255760 u[0]^6 u[1]^2 u[3]^1 u[5]^1 + 64120541448600 u[0]^6 u[1]^2 u[4]^2 + 279599329800 u[0]^6 u[1]^2 u[10]^1 + 408988127227680 u[0]^6 u[1]^3 u[2]^1 u[3]^1 + 7340161046400 u[0]^6 u[1]^3 u[7]^1 + 59391783851400 u[0]^6 u[1]^4 u[4]^1 + 13586355783000 u[0]^6 u[1]^6 + 16189615562400 u[0]^6 u[2]^1 u[3]^1 u[7]^1 + 26052142601520 u[0]^6 u[2]^1 u[4]^1 u[6]^1 + 15206403161880 u[0]^6 u[2]^1 u[5]^2 + 17916073560 u[0]^6 u[2]^1 u[12]^1 + 190258385892120 u[0]^6 u[2]^2 u[3]^2 + 3577242687480 u[0]^6 u[2]^2 u[8]^1 + 101223643968720 u[0]^6 u[2]^3 u[4]^1 + 45963958173840 u[0]^6 u[3]^1 u[4]^1 u[5]^1 + 58091511240 u[0]^6 u[3]^1 u[11]^1 + 16325886303720 u[0]^6 u[3]^2 u[6]^1 + 139528209240 u[0]^6 u[4]^1 u[10]^1 + 9237636109800 u[0]^6 u[4]^3 + 255711231720 u[0]^6 u[5]^1 u[9]^1 + 365379318360 u[0]^6 u[6]^1 u[8]^1 + 205491934620 u[0]^6 u[7]^2 + 15967980 u[0]^6 u[16]^1 + 4396030516800 u[0]^7 u[1]^1 u[2]^1 u[7]^1 + 120846475601280 u[0]^7 u[1]^1 u[2]^2 u[3]^1 + 8808193255680 u[0]^7 u[1]^1 u[3]^1 u[6]^1 + 12369381279840 u[0]^7 u[1]^1 u[4]^1 u[5]^1 + 13960576800 u[0]^7 u[1]^1 u[11]^1 + 70138868548320 u[0]^7 u[1]^2 u[2]^1 u[4]^1 + 43853429196720 u[0]^7 u[1]^2 u[3]^2 + 715867354800 u[0]^7 u[1]^2 u[8]^1 + 11312720733600 u[0]^7 u[1]^3 u[5]^1 + 39594522567600 u[0]^7 u[1]^4 u[2]^1 + 21234037312800 u[0]^7 u[2]^1 u[3]^1 u[5]^1 + 12811000859280 u[0]^7 u[2]^1 u[4]^2 + 56617894800 u[0]^7 u[2]^1 u[10]^1 + 6051599807760 u[0]^7 u[2]^2 u[6]^1 + 13985628279480 u[0]^7 u[2]^4 + 155117520000 u[0]^7 u[3]^1 u[9]^1 + 16009213886640 u[0]^7 u[3]^2 u[4]^1 + 310700392560 u[0]^7 u[4]^1 u[8]^1 + 465662795040 u[0]^7 u[5]^1 u[7]^1 + 266259223080 u[0]^7 u[6]^2 + 77558760 u[0]^7 u[14]^1 + 5989087447200 u[0]^8 u[1]^1 u[2]^1 u[5]^1 + 8983631170800 u[0]^8 u[1]^1 u[3]^1 u[4]^1 + 37809895500 u[0]^8 u[1]^1 u[9]^1 + 20712260754900 u[0]^8 u[1]^2 u[2]^2 + 1247726551500 u[0]^8 u[1]^2 u[6]^1 + 9981812412000 u[0]^8 u[1]^3 u[3]^1 + 7735904619300 u[0]^8 u[2]^1 u[3]^2 + 128553644700 u[0]^8 u[2]^1 u[8]^1 + 6238632757500 u[0]^8 u[2]^2 u[4]^1 + 287355205800 u[0]^8 u[3]^1 u[7]^1 + 461280725100 u[0]^8 u[4]^1 u[6]^1 + 268450258050 u[0]^8 u[5]^2 + 290845350 u[0]^8 u[12]^1 + 4769088152400 u[0]^9 u[1]^1 u[2]^1 u[3]^1 + 73939351200 u[0]^9 u[1]^1 u[7]^1 + 1386362835000 u[0]^9 u[1]^2 u[4]^1 + 970453984500 u[0]^9 u[1]^4 + 203333215800 u[0]^9 u[2]^1 u[6]^1 + 1127575105800 u[0]^9 u[2]^3 + 351211918200 u[0]^9 u[3]^1 u[5]^1 + 212575634700 u[0]^9 u[4]^2 + 840219900 u[0]^9 u[10]^1 + 99818124120 u[0]^{10} u[1]^1 u[5]^1 + 853999506360 u[0]^{10} u[1]^2 u[2]^1 + 210727150920 u[0]^{10} u[2]^1 u[4]^1 + 127545380820 u[0]^{10} u[3]^2 + 1848483780 u[0]^{10} u[8]^1 + 84694165920 u[0]^{11} u[1]^1 u[3]^1 + 63520624440 u[0]^{11} u[2]^2 + 3024791640 u[0]^{11} u[6]^1 + 17644617900 u[0]^{12} u[1]^2 + 3528923580 u[0]^{12} u[4]^1 + 2714556600 u[0]^{13} u[2]^1 + 77558760 u[0]^{15} + 277725472539600 u[1]^1 u[2]^1 u[3]^1 u[4]^1 u[10]^1 + 14396480767382160 u[1]^1 u[2]^1 u[3]^1 u[4]^3 + 513323549027760 u[1]^1 u[2]^1 u[3]^1 u[5]^1 u[9]^1 + 736649702220720 u[1]^1 u[2]^1 u[3]^1 u[6]^1 u[8]^1 + 414966530375400 u[1]^1 u[2]^1 u[3]^1 u[7]^2 + 37971731160 u[1]^1 u[2]^1 u[3]^1 u[16]^1 + 35738608805575680 u[1]^1 u[2]^1 u[3]^2 u[4]^1 u[5]^1 + 57111650434440 u[1]^1 u[2]^1 u[3]^2 u[11]^1 + 8415638761802640 u[1]^1 u[2]^1 u[3]^3 u[6]^1 + 1041002598298560 u[1]^1 u[2]^1 u[4]^1 u[5]^1 u[8]^1 + 1343654292520560 u[1]^1 u[2]^1 u[4]^1 u[6]^1 u[7]^1 + 130011512400 u[1]^1 u[2]^1 u[4]^1 u[15]^1 + 309740802204600 u[1]^1 u[2]^1 u[4]^2 u[9]^1 + 901307511581520 u[1]^1 u[2]^1 u[5]^1 u[6]^2 + 348354507600 u[1]^1 u[2]^1 u[5]^1 u[14]^1 + 786713694987360 u[1]^1 u[2]^1 u[5]^2 u[7]^1 + 748960867200 u[1]^1 u[2]^1 u[6]^1 u[13]^1 + 1313626933920 u[1]^1 u[2]^1 u[7]^1 u[12]^1 + 1900111894200 u[1]^1 u[2]^1 u[8]^1 u[11]^1 + 2281661043000 u[1]^1 u[2]^1 u[9]^1 u[10]^1 + 3399264 u[1]^1 u[2]^1 u[21]^1 + 19980280802707440 u[1]^1 u[2]^2 u[3]^1 u[4]^1 u[6]^1 + 11702119854419280 u[1]^1 u[2]^2 u[3]^1 u[5]^2 + 17232956172000 u[1]^1 u[2]^2 u[3]^1 u[12]^1 + 6163228834700160 u[1]^1 u[2]^2 u[3]^2 u[7]^1 + 45326592290160 u[1]^1 u[2]^2 u[4]^1 u[11]^1 + 14139025626623400 u[1]^1 u[2]^2 u[4]^2 u[5]^1 + 91327460749920 u[1]^1 u[2]^2 u[5]^1 u[10]^1 + 144161115255360 u[1]^1 u[2]^2 u[6]^1 u[9]^1 + 180583698726000 u[1]^1 u[2]^2 u[7]^1 u[8]^1 + 4177038780 u[1]^1 u[2]^2 u[17]^1 + 1782926255538960 u[1]^1 u[2]^3 u[3]^1 u[8]^1 + 23261783679780240 u[1]^1 u[2]^3 u[3]^3 + 3253135399142160 u[1]^1 u[2]^3 u[4]^1 u[7]^1 + 4364343456707760 u[1]^1 u[2]^3 u[5]^1 u[6]^1 + 1613136885360 u[1]^1 u[2]^3 u[13]^1 + 27575233680236880 u[1]^1 u[2]^4 u[3]^1 u[4]^1 + 174217072803900 u[1]^1 u[2]^4 u[9]^1 + 3606976489671360 u[1]^1 u[2]^5 u[5]^1 + 2396329384789440 u[1]^1 u[3]^1 u[4]^1 u[5]^1 u[7]^1 + 1372806398889360 u[1]^1 u[3]^1 u[4]^1 u[6]^2 + 527669838720 u[1]^1 u[3]^1 u[4]^1 u[14]^1 + 792508050717360 u[1]^1 u[3]^1 u[4]^2 u[8]^1 + 1327361857080 u[1]^1 u[3]^1 u[5]^1 u[13]^1 + 1607895229041600 u[1]^1 u[3]^1 u[5]^2 u[6]^1 + 2666143292400 u[1]^1 u[3]^1 u[6]^1 u[12]^1 + 4344700259280 u[1]^1 u[3]^1 u[7]^1 u[11]^1 + 5802226011000 u[1]^1 u[3]^1 u[8]^1 u[10]^1 + 3192883668360 u[1]^1 u[3]^1 u[9]^2 + 18752328 u[1]^1 u[3]^1 u[20]^1 + 390590179491000 u[1]^1 u[3]^2 u[4]^1 u[9]^1 + 656473887867480 u[1]^1 u[3]^2 u[5]^1 u[8]^1 + 847393779307080 u[1]^1 u[3]^2 u[6]^1 u[7]^1 + 81713462400 u[1]^1 u[3]^2 u[15]^1 + 9100161487320240 u[1]^1 u[3]^3 u[4]^2 + 58352452125240 u[1]^1 u[3]^3 u[10]^1 + 3764709758532180 u[1]^1 u[3]^4 u[5]^1 + 3759648335160 u[1]^1 u[4]^1 u[5]^1 u[12]^1 + 758131144534200 u[1]^1 u[4]^1 u[5]^3 + 7016830122600 u[1]^1 u[4]^1 u[6]^1 u[11]^1 + 10557738766920 u[1]^1 u[4]^1 u[7]^1 u[10]^1 + 12923067414120 u[1]^1 u[4]^1 u[8]^1 u[9]^1 + 78936840 u[1]^1 u[4]^1 u[19]^1 + 1941666308540280 u[1]^1 u[4]^2 u[5]^1 u[6]^1 + 799820247660 u[1]^1 u[4]^2 u[13]^1 + 482248673274720 u[1]^1 u[4]^3 u[7]^1 + 14149618247400 u[1]^1 u[5]^1 u[6]^1 u[10]^1 + 19513904747640 u[1]^1 u[5]^1 u[7]^1 u[9]^1 + 10851602152140 u[1]^1 u[5]^1 u[8]^2 + 263513952 u[1]^1 u[5]^1 u[18]^1 + 4105385103240 u[1]^1 u[5]^2 u[4]^1 u[6]^1 + 28006925511480 u[1]^1 u[6]^1 u[7]^1 u[8]^1 + 716015916 u[1]^1 u[6]^1 u[17]^1 + 11175023197500 u[1]^1 u[6]^2 u[9]^1 + 1612267296 u[1]^1 u[7]^1 u[16]^1 + 5259225884880 u[1]^1 u[7]^3 + 3047061552 u[1]^1 u[8]^1 u[15]^1 + 4877138220 u[1]^1 u[9]^1 u[14]^1 + 6652223928 u[1]^1 u[10]^1 u[13]^1 + 7761819144 u[1]^1 u[11]^1 u[12]^1 + 754 u[1]^1 u[25]^1 + 7151155649009040 u[1]^2 u[2]^1 u[3]^1 u[4]^1 u[7]^1 + 9592718392935360 u[1]^2 u[2]^1 u[3]^1 u[5]^1 u[6]^1 + 3566592885240 u[1]^2 u[2]^1 u[3]^1 u[13]^1 + 1960243922785320 u[1]^2 u[2]^1 u[3]^2 u[8]^1 + 12721839110324820 u[1]^2 u[2]^1 u[3]^4 + 6784386797909880 u[1]^2 u[2]^1 u[4]^1 u[5]^2 + 10082023372440 u[1]^2 u[2]^1 u[4]^1 u[12]^1 + 5792726888066040 u[1]^2 u[2]^1 u[4]^2 u[6]^1 + 21980100718080 u[1]^2 u[2]^1 u[5]^1 u[11]^1 + 37829396365560 u[1]^2 u[2]^1 u[6]^1 u[10]^1 + 52129845016560 u[1]^2 u[2]^1 u[7]^1 u[9]^1 + 28981547652060 u[1]^2 u[2]^1 u[8]^2 + 646606620 u[1]^2 u[2]^1 u[18]^1 + 766615302493200 u[1]^2 u[2]^2 u[3]^1 u[9]^1 + 60337888359005880 u[1]^2 u[2]^2 u[3]^2 u[4]^1 + 1553160341434680 u[1]^2 u[2]^2$

u[4]^1 u[8]^1 + 2345819786451360 u[1]^2 u[2]^2 u[5]^1 u[7]^1 + 1343411639294580 u[1]^2 u[2]^2 u[6]^2 + 468838261980 u[1]^2 u[2]^2
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u[14]^1 + 62010818914500 u[1]^2 u[6]^3 + 136730590260 u[1]^2 u[7]^1 u[13]^1 + 212898342060 u[1]^2 u[8]^1 u[12]^1 + 276919825500
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u[2]^1 u[3]^1 u[4]^2 u[7]^1 + 6407694827160 u[2]^1 u[3]^1 u[5]^1 u[12]^1 + 1303256676526920 u[2]^1 u[3]^1 u[5]^3 + 11961072309120
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+ 40138356867120 u[2]^1 u[4]^1 u[7]^1 u[9]^1 + 22321760539140 u[2]^1 u[4]^1 u[8]^2 + 536099220 u[2]^1 u[4]^1 u[18]^1 +
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u[13]^2 + 1 u[28]^1

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u[1]^4 u[6]^1 u[8]^1 + 1797754511921940 u[0]^1 u[1]^4 u[7]^2 + 152540432100 u[0]^1 u[1]^4 u[16]^1 + 527450590805853600 u[0]^1 u[1]^5 u[2]^1 u[3]^1 u[4]^1 + 2980746339555600 u[0]^1 u[1]^5 u[2]^1 u[9]^1 + 172720801097447760 u[0]^1 u[1]^5 u[2]^2 u[5]^1 + 7596708544044000 u[0]^1 u[1]^5 u[3]^1 u[8]^1 + 111173953563583200 u[0]^1 u[1]^5 u[3]^3 + 13824781083273600 u[0]^1 u[1]^5 u[4]^1 u[7]^1 + 18523293547064400 u[0]^1 u[1]^5 u[5]^1 u[6]^1 + 6279038350200 u[0]^1 u[1]^5 u[13]^1 + 23534693575654800 u[0]^1 u[1]^6 u[2]^1 u[6]^1 + 85180446884092560 u[0]^1 u[1]^6 u[2]^3 + 42001389864632400 u[0]^1 u[1]^6 u[3]^1 u[5]^1 + 25356355856007000 u[0]^1 u[1]^6 u[4]^2 + 130337093178600 u[0]^1 u[1]^6 u[10]^1 + 53092372947213600 u[0]^1 u[1]^7 u[2]^1 u[3]^1 + 1204597159180800 u[0]^1 u[1]^7 u[7]^1 + 3820677336976500 u[0]^1 u[1]^8 u[4]^1 + 210588514636500 u[0]^1 u[1]^10 + 413827680546735840 u[0]^1 u[2]^1 u[3]^1 u[4]^1 u[5]^1 u[6]^1 + 168978591865440 u[0]^1 u[2]^1 u[3]^1 u[4]^1 u[13]^1 + 154137272035197120 u[0]^1 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u[4]^1 u[6]^1 u[9]^1 + 3256180152277920 u[0]^2 u[1]^1 u[4]^1 u[7]^1 u[8]^1 + 77136681240 u[0]^2 u[1]^1 u[4]^1 u[17]^1 + 408920981511600 u[0]^2 u[1]^1 u[4]^2 u[11]^1 + 82918697245468080 u[0]^2 u[1]^1 u[4]^3 u[5]^1 + 4363897171596720 u[0]^2 u[1]^1 u[5]^1 u[6]^1 u[8]^1 + 2457983736959640 u[0]^2 u[1]^1 u[5]^1 u[7]^2 + 231769284120 u[0]^2 u[1]^1 u[5]^1 u[16]^1 + 1521020136163080 u[0]^2 u[1]^1 u[5]^2 u[9]^1 + 563488956720 u[0]^2 u[1]^1 u[6]^1 u[15]^1 + 2815054154385360 u[0]^2 u[1]^1 u[6]^2 u[7]^1 + 1127839874640 u[0]^2 u[1]^1 u[7]^1 u[14]^1 + 1880714221080 u[0]^2 u[1]^1 u[8]^1 u[13]^1 + 2633853844440 u[0]^2 u[1]^1 u[9]^1 u[12]^1 + 3113222508120 u[0]^2 u[1]^1 u[10]^1 u[11]^1 + 1165104 u[0]^2 u[1]^1 u[23]^1 + 1368634604084945280 u[0]^2 u[1]^2 u[2]^1 u[3]^1 u[4]^1 u[5]^1 + 2003380037904240 u[0]^2 u[1]^2 u[2]^1 u[3]^1 u[11]^1 + 484034464003379760 u[0]^2 u[1]^2 u[2]^1 u[3]^2 u[6]^1 + 4855102755968880 u[0]^2 u[1]^2 u[2]^1 u[4]^1 u[10]^1 + 275488869715939440 u[0]^2 u[1]^2 u[2]^1 u[4]^3 + 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u[1]^3 u[3]^2 u[7]^1 + 390751382052000 u[0]^2 u[1]^3 u[4]^1 u[11]^1 + 132232069587697200 u[0]^2 u[1]^3 u[4]^2 u[5]^1 + 785169987199200 u[0]^2 u[1]^3 u[5]^1 u[10]^1 + 1237296924892800 u[0]^2 u[1]^3 u[6]^1 u[9]^1 + 1548639178382880 u[0]^2 u[1]^3 u[7]^1 u[8]^1 + 33831707400 u[0]^2 u[1]^3 u[17]^1 + 413680503716856720 u[0]^2 u[1]^4 u[2]^1 u[3]^1 u[5]^1 + 249715325694414600 u[0]^2 u[1]^4 u[2]^1 u[4]^2 + 1299577525230600 u[0]^2 u[1]^4 u[2]^1 u[10]^1 + 115982478871826760 u[0]^2 u[1]^4 u[2]^2 u[6]^1 + 207498981868633260 u[0]^2 u[1]^4 u[2]^4 + 3631105421388000 u[0]^2 u[1]^4 u[3]^1 u[9]^1 + 315468976192666200 u[0]^2 u[1]^4 u[3]^2 u[4]^1 + 7332417739481400 u[0]^2 u[1]^4 u[4]^1 u[8]^1 + 11053719869886000 u[0]^2 u[1]^4 u[5]^1 u[7]^1 + 6326452780067700 u[0]^2 u[1]^4 u[6]^2 + 2055453012900 u[0]^2 u[1]^4 u[14]^1 + 16643435134788000 u[0]^2 u[1]^5 u[2]^1 u[7]^1 + 362302137949265280 u[0]^2 u[1]^5 u[2]^2 u[3]^1 + 33908146960680000 u[0]^2 u[1]^5 u[3]^1 u[6]^1 + 47871316550026800 u[0]^2 u[1]^5 u[4]^1 u[5]^1 + 62875837407600 u[0]^2 u[1]^5 u[11]^1 + 69604700427334800 u[0]^2 u[1]^6 u[2]^1 u[4]^1 + 43966037148157800 u[0]^2 u[1]^6 u[3]^2 + 887487181429800 u[0]^2 u[1]^6 u[8]^1 + 4758753447630000 u[0]^2 u[1]^7 u[5]^1 + 6107066924458500 u[0]^2 u[1]^8 u[2]^1 + 1395975359180160 u[0]^2 u[2]^1 u[3]^1 u[4]^1 u[11]^1 + 428347076942178480 u[0]^2 u[2]^1 u[3]^1 u[4]^2 u[5]^1 + 2812465516393200 u[0]^2 u[2]^1 u[3]^1 u[5]^1 u[10]^1 + 4439507740067760 u[0]^2 u[2]^1 u[3]^1 u[6]^1 u[9]^1 + 5561224332314880 u[0]^2 u[2]^1 u[3]^1 u[7]^1 u[8]^1 + 130535339400 u[0]^2 u[2]^1 u[3]^1 u[17]^1 + 302768191214346480 u[0]^2 u[2]^1 u[3]^2 u[4]^1 u[6]^1 + 177303808958518920 u[0]^2 u[2]^1 u[3]^2 u[5]^2 + 265452263081640 u[0]^2 u[2]^1 u[3]^2 u[12]^1 + 62287949969179200 u[0]^2 u[2]^1 u[3]^3 u[7]^1 + 6267617793015120 u[0]^2 u[2]^1 u[4]^1 u[5]^1 u[9]^1 + 8993370616169040 u[0]^2 u[2]^1 u[4]^1 u[6]^1 u[8]^1 + 5065927880411160 u[0]^2 u[2]^1 u[4]^1 u[7]^2 + 472185258120 u[0]^2 u[2]^1 u[4]^1 u[16]^1 + 1696014643930200 u[0]^2 u[2]^1 u[4]^2 u[10]^1 + 43122419871718500 u[0]^2 u[2]^1 u[4]^4 + 13585706106003840 u[0]^2 u[2]^1 u[5]^1 u[6]^1 u[7]^1 + 1342249648560 u[0]^2 u[2]^1 u[5]^1 u[15]^1 + 5263754664371160 u[0]^2 u[2]^1 u[5]^2 u[8]^1 + 3075214226520 u[0]^2 u[2]^1 u[6]^1 u[14]^1 + 2593711400956680 u[0]^2 u[2]^1 u[6]^3 + 5775446095560 u[0]^2 u[2]^1 u[7]^1 u[13]^1 + 8993766486360 u[0]^2 u[2]^1 u[8]^1 u[12]^1 + 11699107444320 u[0]^2 u[2]^1 u[9]^1 u[11]^1 + 6382619170380 u[0]^2 u[2]^1 u[10]^2 + 9353196 u[0]^2 u[2]^1 u[22]^1 + 148066380189278640 u[0]^2 u[2]^2 u[3]^1 u[4]^1 u[7]^1 + 198610433726188560 u[0]^2 u[2]^2 u[3]^1 u[5]^1 u[6]^1 + 74624238352440 u[0]^2 u[2]^2 u[3]^1 u[13]^1 + 40591789785856920 u[0]^2 u[2]^2 u[3]^2 u[8]^1 + 260453851807261140 u[0]^2 u[2]^2 u[3]^4 + 140446819804464360 u[0]^2 u[2]^2 u[4]^1 u[5]^2 + 210954719607480 u[0]^2 u[2]^2 u[4]^1 u[12]^1 + 1199254649950972440 u[0]^2 u[2]^2 u[4]^2 u[6]^1 + 459945173577960 u[0]^2 u[2]^2 u[5]^1 u[11]^1 + 791682192634680 u[0]^2 u[2]^2 u[6]^1 u[10]^1 + 1091026583791560 u[0]^2 u[2]^2 u[7]^1 u[9]^1 + 606571484535180 u[0]^2 u[2]^2 u[8]^2 + 13652591580 u[0]^2 u[2]^2 u[18]^1 + 10589824212373200 u[0]^2 u[2]^3 u[3]^1 u[9]^1 + 824000347361502480 u[0]^2 u[2]^3 u[3]^2 u[4]^1 + 21453427151139120 u[0]^2 u[2]^3 u[4]^1 u[8]^1 + 32401025373758640 u[0]^2 u[2]^3 u[5]^1 u[7]^1 + 18555832888204200 u[0]^2 u[2]^3 u[6]^2 + 6542789199720 u[0]^2 u[2]^3 u[14]^1 + 269745618860566920 u[0]^2 u[2]^4 u[3]^1 u[5]^1 + 162972016029091860 u[0]^2 u[2]^4 u[4]^2 + 943272777528420 u[0]^2 u[2]^4 u[10]^1 + 30183751647016680 u[0]^2 u[2]^5 u[6]^1 + 13480752887059560 u[0]^2 u[2]^7 + 16004309092908720 u[0]^2 u[3]^1 u[4]^1 u[5]^1 u[8]^1 + 20656425346187520 u[0]^2 u[3]^1 u[4]^1 u[6]^1 u[7]^1 + 2029244160240 u[0]^2 u[3]^1 u[4]^1 u[15]^1 + 4762630385130000 u[0]^2 u[3]^1 u[4]^2 u[9]^1 + 13853901747129000 u[0]^2 u[3]^1 u[5]^1 u[6]^2 + 5437357295640 u[0]^2 u[3]^1 u[5]^1 u[14]^1 + 12092926855466880 u[0]^2 u[3]^1 u[5]^2 u[7]^1 + 11691634812480 u[0]^2 u[3]^1 u[6]^1 u[13]^1 + 20508721584000 u[0]^2 u[3]^1 u[7]^1 u[12]^1 + 29667756346680 u[0]^2 u[3]^1 u[8]^1 u[11]^1 + 35626834699440 u[0]^2 u[3]^1 u[9]^1 u[10]^1 + 53756604 u[0]^2 u[3]^1 u[21]^1 + 2135965377684360 u[0]^2 u[3]^2 u[4]^1 u[10]^1 + 108924397678708680 u[0]^2 u[3]^2 u[4]^3 + 3947458551464280 u[0]^2 u[3]^2 u[5]^1 u[9]^1 + 5664701337521160 u[0]^2 u[3]^2 u[6]^1 u[8]^1 + 3191002769992980 u[0]^2 u[3]^2 u[7]^2 + 296388055620 u[0]^2 u[3]^2 u[16]^1 + 180311023729756560 u[0]^2 u[3]^3 u[4]^1 u[5]^1 + 292926482766360 u[0]^2 u[3]^3 u[11]^1 + 31856286692734740 u[0]^2 u[3]^4 u[6]^1 + 16469903671200 u[0]^2 u[4]^1 u[5]^1 u[13]^1 + 19581048330149400 u[0]^2 u[4]^1 u[5]^2 u[6]^1 + 33080538852120 u[0]^2 u[4]^1 u[6]^1 u[12]^1 + 53908522234200 u[0]^2 u[4]^1 u[7]^1 u[11]^1 + 71995347958920 u[0]^2 u[4]^1 u[8]^1 u[10]^1 + 39618440170860 u[0]^2 u[4]^1 u[9]^2 + 236548476 u[0]^2 u[4]^1 u[20]^1 + 14595355652570880 u[0]^2 u[4]^2 u[5]^1 u[7]^1 + 8360715376513980 u[0]^2 u[4]^2 u[6]^2 + 3274288480860 u[0]^2 u[4]^2 u[14]^1 + 3218964641421720 u[0]^2 u[4]^3 u[8]^1 + 72204175266480 u[0]^2 u[5]^1 u[6]^1 u[11]^1 + 108632781461760 u[0]^2 u[5]^1 u[7]^1 u[10]^1 + 132967422475560 u[0]^2 u[5]^1 u[8]^1 u[9]^1 + 827903484 u[0]^2 u[5]^1 u[19]^1 + 19346983062420 u[0]^2 u[5]^2 u[12]^1 + 1910894925277650 u[0]^2 u[5]^4 + 171529740155160 u[0]^2 u[6]^1 u[7]^1 u[9]^1 + 95383315596060 u[0]^2 u[6]^1 u[8]^2 + 2365452396 u[0]^2 u[6]^1 u[18]^1 + 62196999217260 u[0]^2 u[6]^2 u[10]^1 + 5617937304 u[0]^2 u[7]^1 u[17]^1 + 107455547056980 u[0]^2 u[7]^2 u[8]^1 + 11235885396 u[0]^2 u[8]^1 u[16]^1 + 19100995464 u[0]^2 u[9]^1 u[15]^1 + 27783274956 u[0]^2 u[10]^1 u[14]^1 + 34729085604 u[0]^2 u[11]^1 u[13]^1 + 18700280598 u[0]^2 u[12]^2 + 1798 u[0]^2 u[26]^1 + 250337057933738880 u[0]^3 u[1]^1 u[2]^1 u[3]^1 u[4]^1 u[6]^1 + 146504828672673120 u[0]^3 u[1]^1 u[2]^1 u[3]^1 u[5]^2 + 20180142276240 u[0]^3 u[1]^1 u[2]^1 u[3]^1 u[12]^1 + 77396084059478400 u[0]^3 u[1]^1 u[2]^1 u[3]^2 u[7]^1 + 528690570298560 u[0]^3 u[1]^1 u[2]^1 u[4]^1 u[11]^1 + 176854436596704960 u[0]^3 u[1]^1 u[2]^1 u[4]^2 u[5]^1 + 1062417442449600 u[0]^3 u[1]^1 u[2]^1 u[5]^1 u[10]^1 + 1674346369527360 u[0]^3 u[1]^1 u[2]^1 u[6]^1 u[9]^1 + 2095762930266240 u[0]^3 u[1]^1 u[2]^1 u[7]^1 u[8]^1 + 46225501200 u[0]^3 u[1]^1 u[2]^1 u[17]^1 + 3374091140452920 u[0]^3 u[1]^1 u[2]^2 u[3]^1 u[8]^1 + 481840966652244480 u[0]^3 u[1]^1 u[2]^2 u[3]^3 + 61389868247766720 u[0]^3 u[1]^1 u[2]^2 u[4]^1

$u[7]^1 + 82246620644062560\ u[0]^3\ u[1]^1\ u[2]^2\ u[5]^1\ u[6]^1 + 28513362996720\ u[0]^3\ u[1]^1\ u[2]^2\ u[13]^1 + 762961264066399680$
$u[0]^3\ u[1]^1\ u[2]^3\ u[3]^1\ u[4]^1 + 4418959167396000\ u[0]^3\ u[1]^1\ u[2]^3\ u[9]^1 + 125097951946074480\ u[0]^3\ u[1]^1\ u[2]^4\ u[5]^1$
$+ 1610734243999680\ u[0]^3\ u[1]^1\ u[3]^1\ u[4]^1\ u[10]^1 + 89801678418569280\ u[0]^3\ u[1]^1\ u[3]^1\ u[4]^3 + 2970169929993600\ u[0]^3$
$u[1]^1\ u[3]^1\ u[5]^1\ u[9]^1 + 4256895537676800\ u[0]^3\ u[1]^1\ u[3]^1\ u[6]^1\ u[8]^1 + 2396971660646880\ u[0]^3\ u[1]^1\ u[3]^1\ u[7]^2 +$
$208692133920\ u[0]^3\ u[1]^1\ u[3]^1\ u[16]^1 + 223125263888104800\ u[0]^3\ u[1]^1\ u[3]^2\ u[4]^1\ u[5]^1 + 332434361633760\ u[0]^3\ u[1]^1$
$u[3]^2\ u[11]^1 + 52628083745186880\ u[0]^3\ u[1]^1\ u[3]^3\ u[6]^1 + 6005515375139040\ u[0]^3\ u[1]^1\ u[4]^1\ u[5]^1\ u[8]^1 +$
$7744282019987040\ u[0]^3\ u[1]^1\ u[4]^1\ u[6]^1\ u[7]^1 + 711381432960\ u[0]^3\ u[1]^1\ u[4]^1\ u[15]^1 + 1790494767183600\ u[0]^3\ u[1]^1$
$u[4]^2\ u[9]^1 + 5188325050252080\ u[0]^3\ u[1]^1\ u[5]^1\ u[6]^2 + 1900069079760\ u[0]^3\ u[1]^1\ u[5]^1\ u[14]^1 + 4530991381428960$
$u[0]^3\ u[1]^1\ u[5]^2\ u[7]^1 + 4076151297120\ u[0]^3\ u[1]^1\ u[6]^1\ u[13]^1 + 7138527480000\ u[0]^3\ u[1]^1\ u[7]^1\ u[12]^1 +$
$10315924024320\ u[0]^3\ u[1]^1\ u[8]^1\ u[11]^1 + 12381794523360\ u[0]^3\ u[1]^1\ u[9]^1\ u[10]^1 + 17800200\ u[0]^3\ u[1]^1\ u[21]^1 +$
$97330472515580000\ u[0]^3\ u[1]^2\ u[2]^1\ u[3]^1\ u[9]^1 + 835190921026009440\ u[0]^3\ u[1]^2\ u[2]^1\ u[3]^2\ u[4]^1 + 19652957809080480$
$u[0]^3\ u[1]^2\ u[2]^1\ u[4]^1\ u[8]^1 + 29626390261674720\ u[0]^3\ u[1]^2\ u[2]^1\ u[5]^1\ u[7]^1 + 16956556720219440\ u[0]^3\ u[1]^2\ u[2]^1$
$u[6]^2 + 5570239888080\ u[0]^3\ u[1]^2\ u[2]^1\ u[14]^1 + 547996595672112480\ u[0]^3\ u[1]^2\ u[2]^2\ u[3]^1\ u[5]^1 + 330773129684565840$
$u[0]^3\ u[1]^2\ u[2]^2\ u[4]^2 + 1742885627310000\ u[0]^3\ u[1]^2\ u[2]^2\ u[10]^1 + 102509759624539680\ u[0]^3\ u[1]^2\ u[2]^3\ u[6]^1 +$
$108797459621318640\ u[0]^3\ u[1]^2\ u[2]^5 + 45028995771382560\ u[0]^3\ u[1]^2\ u[3]^1\ u[4]^1\ u[7]^1 + 60319867649554080\ u[0]^3\ u[1]^2$
$u[3]^1\ u[5]^1\ u[6]^1 + 21046359040560\ u[0]^3\ u[1]^2\ u[3]^1\ u[13]^1 + 12378622114108080\ u[0]^3\ u[1]^2\ u[3]^2\ u[8]^1 +$
$87890712752518920\ u[0]^3\ u[1]^2\ u[3]^4 + 42586445781439920\ u[0]^3\ u[1]^2\ u[4]^1\ u[5]^2 + 59238716716080\ u[0]^3\ u[1]^2\ u[4]^1$
$u[12]^1 + 36390217208396400\ u[0]^3\ u[1]^2\ u[4]^2\ u[6]^1 + 128767497973200\ u[0]^3\ u[1]^2\ u[5]^1\ u[11]^1 + 221200188822000\ u[0]^3$
$u[1]^2\ u[6]^1\ u[10]^1 + 304493510029680\ u[0]^3\ u[1]^2\ u[7]^1\ u[9]^1 + 169224927538680\ u[0]^3\ u[1]^2\ u[8]^2 + 3610204200\ u[0]^3$
$u[1]^2\ u[18]^1 + 149902005486450240\ u[0]^3\ u[1]^3\ u[2]^1\ u[3]^1\ u[6]^1 + 211599993482219520\ u[0]^3\ u[1]^3\ u[2]^1\ u[4]^1\ u[5]^1 +$
$281381995087200\ u[0]^3\ u[1]^3\ u[2]^1\ u[11]^1 + 36817279875417600\ u[0]^3\ u[1]^3\ u[2]^2\ u[7]^1 + 527780761859759040\ u[0]^3\ u[1]^3$
$u[2]^3\ u[3]^1 + 161113395389875200\ u[0]^3\ u[1]^3\ u[3]^1\ u[4]^2 + 854391223720800\ u[0]^3\ u[1]^3\ u[3]^1\ u[10]^1 + 133487673344471520$
$u[0]^3\ u[1]^3\ u[3]^2\ u[5]^1 + 1894223526444000\ u[0]^3\ u[1]^3\ u[4]^1\ u[9]^1 + 3170708957397600\ u[0]^3\ u[1]^3\ u[5]^1\ u[8]^1 +$
$4084843328964000\ u[0]^3\ u[1]^3\ u[6]^1\ u[7]^1 + 341815622400\ u[0]^3\ u[1]^3\ u[15]^1 + 288313897688310960\ u[0]^3\ u[1]^4\ u[2]^1\ u[3]^2$
$+ 5896815014840400\ u[0]^3\ u[1]^4\ u[2]^1\ u[8]^1 + 228373901530782480\ u[0]^3\ u[1]^4\ u[2]^2\ u[4]^1 + 13480213517589600\ u[0]^3\ u[1]^4$
$u[3]^1\ u[7]^1 + 21753508048765200\ u[0]^3\ u[1]^4\ u[4]^1\ u[6]^1 + 12721614000586200\ u[0]^3\ u[1]^4\ u[5]^2 + 15805585643400\ u[0]^3$
$u[1]^4\ u[12]^1 + 43769423752588800\ u[0]^3\ u[1]^5\ u[2]^1\ u[5]^1 + 66614036968497600\ u[0]^3\ u[1]^5\ u[3]^1\ u[4]^1 + 341485791166800$
$u[0]^3\ u[1]^5\ u[9]^1 + 37039511317208400\ u[0]^3\ u[1]^6\ u[2]^2 + 2998309201398000\ u[0]^3\ u[1]^6\ u[6]^1 + 7701522820992000\ u[0]^3$
$u[1]^7\ u[3]^1 + 6125108324450400\ u[0]^3\ u[2]^1\ u[3]^1\ u[4]^1\ u[9]^1 + 10275535441720800\ u[0]^3\ u[2]^1\ u[3]^1\ u[5]^1\ u[8]^1 +$
$13252518400206240\ u[0]^3\ u[2]^1\ u[3]^1\ u[6]^1\ u[7]^1 + 1205584891200\ u[0]^3\ u[2]^1\ u[3]^1\ u[15]^1 + 232329228300229680\ u[0]^3$
$u[2]^1\ u[3]^2\ u[4]^2 + 1376628848038800\ u[0]^3\ u[2]^1\ u[3]^2\ u[10]^1 + 128239052956336800\ u[0]^3\ u[2]^1\ u[3]^3\ u[5]^1 +$
$18712684755184320\ u[0]^3\ u[2]^1\ u[4]^1\ u[5]^1\ u[7]^1 + 10715277979589040\ u[0]^3\ u[2]^1\ u[4]^1\ u[6]^2 + 3877448635440\ u[0]^3\ u[2]^1$
$u[4]^1\ u[14]^1 + 6197937576718320\ u[0]^3\ u[2]^1\ u[4]^2\ u[8]^1 + 9726113426400\ u[0]^3\ u[2]^1\ u[5]^1\ u[13]^1 + 12542164215493680$
$u[0]^3\ u[2]^1\ u[5]^2\ u[6]^1 + 19497588882480\ u[0]^3\ u[2]^1\ u[6]^1\ u[12]^1 + 31731193828080\ u[0]^3\ u[2]^1\ u[7]^1\ u[11]^1 +$
$42344568903600\ u[0]^3\ u[2]^1\ u[8]^1\ u[10]^1 + 23295873555720\ u[0]^3\ u[2]^1\ u[9]^2 + 131074200\ u[0]^3\ u[2]^1\ u[20]^1 +$
$304795018771751520\ u[0]^3\ u[2]^2\ u[3]^1\ u[4]^1\ u[5]^1 + 451322613972720\ u[0]^3\ u[2]^2\ u[3]^1\ u[11]^1 + 107808033778670160\ u[0]^3$
$u[2]^2\ u[3]^2\ u[6]^1 + 1093771864946160\ u[0]^3\ u[2]^2\ u[4]^1\ u[10]^1 + 61349581718568720\ u[0]^3\ u[2]^2\ u[4]^3 + 2017174352734800$
$u[0]^3\ u[2]^2\ u[5]^1\ u[9]^1 + 2891280894148080\ u[0]^3\ u[2]^2\ u[6]^1\ u[8]^1 + 1628038235591640\ u[0]^3\ u[2]^2\ u[7]^2 + 140887288440$
$u[0]^3\ u[2]^2\ u[16]^1 + 35213218360575200\ u[0]^3\ u[2]^3\ u[3]^1\ u[7]^1 + 56968404060166560\ u[0]^3\ u[2]^3\ u[4]^1\ u[6]^1 +$
$33341040765768240\ u[0]^3\ u[2]^3\ u[5]^2 + 45635913913680\ u[0]^3\ u[2]^3\ u[12]^1 + 165255519699976680\ u[0]^3\ u[2]^4\ u[3]^2 +$
$3835766788371720\ u[0]^3\ u[2]^4\ u[8]^1 + 52329380734720080\ u[0]^3\ u[2]^5\ u[4]^1 + 38147282229060000\ u[0]^3\ u[3]^1\ u[4]^1\ u[5]^1$
$u[6]^1 + 14708909819520\ u[0]^3\ u[3]^1\ u[4]^1\ u[13]^1 + 14225445029050560\ u[0]^3\ u[3]^1\ u[4]^2\ u[7]^1 + 34486680322800\ u[0]^3$
$u[3]^1\ u[5]^1\ u[12]^1 + 7443328862288880\ u[0]^3\ u[3]^1\ u[5]^3 + 64258299973440\ u[0]^3\ u[3]^1\ u[6]^1\ u[11]^1 + 96584202367200$
$u[0]^3\ u[3]^1\ u[7]^1\ u[10]^1 + 118163367997920\ u[0]^3\ u[3]^1\ u[8]^1\ u[9]^1 + 687735000\ u[0]^3\ u[3]^1\ u[19]^1 + 7807544007813360$
$u[0]^3\ u[3]^2\ u[4]^1\ u[8]^1 + 11788204540371840\ u[0]^3\ u[3]^2\ u[5]^1\ u[7]^1 + 6750443428466760\ u[0]^3\ u[3]^2\ u[6]^2 +$
$2434118771160\ u[0]^3\ u[3]^2\ u[14]^1 + 1285590142634400\ u[0]^3\ u[3]^3\ u[9]^1 + 48892382274390120\ u[0]^3\ u[3]^4\ u[4]^1 +$
$90541956193920\ u[0]^3\ u[4]^1\ u[5]^1\ u[11]^1 + 155823663455280\ u[0]^3\ u[4]^1\ u[6]^1\ u[10]^1 + 214732578713040\ u[0]^3\ u[4]^1\ u[7]^1$
$u[9]^1 + 119382582340440\ u[0]^3\ u[4]^1\ u[8]^2 + 2751263640\ u[0]^3\ u[4]^1\ u[18]^1 + 13476798718483320\ u[0]^3\ u[4]^2\ u[5]^2 +$
$20771663441400\ u[0]^3\ u[4]^2\ u[12]^1 + 7673938017402960\ u[0]^3\ u[4]^3\ u[6]^1 + 287607088798560\ u[0]^3\ u[5]^1\ u[6]^1\ u[9]^1 +$
$360219743701920\ u[0]^3\ u[5]^1\ u[7]^1\ u[8]^1 + 8712065160\ u[0]^3\ u[5]^1\ u[17]^1 + 91135228121640\ u[0]^3\ u[5]^2\ u[10]^1 +$
$232303144805640\ u[0]^3\ u[6]^1\ u[7]^2 + 22402684440\ u[0]^3\ u[6]^1\ u[16]^1 + 206233346660760\ u[0]^3\ u[6]^2\ u[8]^1 + 47605502160$
$u[0]^3\ u[7]^1\ u[15]^1 + 84632183640\ u[0]^3\ u[8]^1\ u[14]^1 + 126948113640\ u[0]^3\ u[9]^1\ u[13]^1 + 161570473560\ u[0]^3\ u[10]^1$
$u[12]^1 + 87517272420\ u[0]^3\ u[11]^2 + 32364\ u[0]^3\ u[24]^1 + 161721039577734000\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^1\ u[4]^2 +$
$868378717972800\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^1\ u[10]^1 + 133995341033222400\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^2\ u[5]^1 + 1925225131500000$
$u[0]^4\ u[1]^1\ u[2]^1\ u[4]^1\ u[9]^1 + 3222616845571200\ u[0]^4\ u[1]^1\ u[2]^1\ u[5]^1\ u[8]^1 + 4151889957124800\ u[0]^4\ u[1]^1\ u[2]^1$
$u[6]^1\ u[7]^1 + 351194709600\ u[0]^4\ u[1]^1\ u[2]^1\ u[15]^1 + 75304312987824000\ u[0]^4\ u[1]^1\ u[2]^2\ u[3]^1\ u[6]^1 +$
$106286568912493200\ u[0]^4\ u[1]^1\ u[2]^2\ u[4]^1\ u[5]^1 + 143096733410400\ u[0]^4\ u[1]^1\ u[2]^2\ u[11]^1 + 12341382567480000\ u[0]^4$
$u[1]^1\ u[2]^3\ u[7]^1 + 131078682592002000\ u[0]^4\ u[1]^1\ u[2]^4\ u[3]^1 + 4887278578080000\ u[0]^4\ u[1]^1\ u[3]^1\ u[4]^1\ u[8]^1 +$
$7366166635496400\ u[0]^4\ u[1]^1\ u[3]^1\ u[5]^1\ u[7]^1 + 4215878853984000\ u[0]^4\ u[1]^1\ u[3]^1\ u[6]^2 + 1409468382000\ u[0]^4\ u[1]^1$
$u[3]^1\ u[14]^1 + 1210692585771000\ u[0]^4\ u[1]^1\ u[3]^2\ u[9]^1 + 67988202912900000\ u[0]^4\ u[1]^1\ u[3]^3\ u[4]^1 + 11895083913672000$
$u[0]^4\ u[1]^1\ u[4]^1\ u[5]^1\ u[6]^1 + 4240129005000\ u[0]^4\ u[1]^1\ u[4]^1\ u[13]^1 + 4441276928700000\ u[0]^4\ u[1]^1\ u[4]^2\ u[7]^1 +$
$9909861654600\ u[0]^4\ u[1]^1\ u[5]^1\ u[12]^1 + 2319377586438600\ u[0]^4\ u[1]^1\ u[5]^3 + 18424509651000\ u[0]^4\ u[1]^1\ u[6]^1\ u[11]^1 +$
$27654871325400\ u[0]^4\ u[1]^1\ u[7]^1\ u[10]^1 + 33811051077000\ u[0]^4\ u[1]^1\ u[8]^1\ u[9]^1 + 186093000\ u[0]^4\ u[1]^1\ u[19]^1 +$
$27114928738624800\ u[0]^4\ u[1]^2\ u[2]^1\ u[3]^1\ u[7]^1 + 437520405077100000\ u[0]^4\ u[1]^2\ u[2]^1\ u[4]^1\ u[6]^1 + 25584421784783400$
$u[0]^4\ u[1]^2\ u[2]^1\ u[5]^2 + 32180429773800\ u[0]^4\ u[1]^2\ u[2]^1\ u[12]^1 + 286399189766467800\ u[0]^4\ u[1]^2\ u[2]^2\ u[3]^2 +$
$5935656829642200\ u[0]^4\ u[1]^2\ u[2]^2\ u[8]^1 + 151366444088144400\ u[0]^4\ u[1]^2\ u[2]^3\ u[4]^1 + 77772469285242000\ u[0]^4\ u[1]^2$
$u[3]^1\ u[4]^1\ u[5]^1 + 105411821571000\ u[0]^4\ u[1]^2\ u[3]^1\ u[11]^1 + 27559355557383000\ u[0]^4\ u[1]^2\ u[3]^2\ u[6]^1 +$
$254373685281000\ u[0]^4\ u[1]^2\ u[4]^1\ u[10]^1 + 15638609046825000\ u[0]^4\ u[1]^2\ u[4]^3 + 467813796003000\ u[0]^4\ u[1]^2\ u[5]^1$
$u[9]^1 + 669472731081000\ u[0]^4\ u[1]^2\ u[6]^1\ u[8]^1 + 376779463784100\ u[0]^4\ u[1]^2\ u[7]^2 + 30612298500\ u[0]^4\ u[1]^2\ u[16]^1 +$
$220777548543468000\ u[0]^4\ u[1]^3\ u[2]^1\ u[3]^1\ u[4]^1 + 1146981600198000\ u[0]^4\ u[1]^3\ u[2]^1\ u[9]^1 + 72592647002809200\ u[0]^4$
$u[1]^3\ u[2]^2\ u[5]^1 + 2902977851544000\ u[0]^4\ u[1]^3\ u[3]^1\ u[8]^1 + 46406291293872000\ u[0]^4\ u[1]^3\ u[3]^3 + 5264262055620000$
$u[0]^4\ u[1]^3\ u[4]^1\ u[7]^1 + 7041416336694000\ u[0]^4\ u[1]^3\ u[5]^1\ u[6]^1 + 2252283579000\ u[0]^4\ u[1]^3\ u[13]^1 +$
$14935585422681000\ u[0]^4\ u[1]^4\ u[2]^1\ u[6]^1 + 60757794879982200\ u[0]^4\ u[1]^4\ u[2]^3 + 26511912869769000\ u[0]^4\ u[1]^4\ u[3]^1$
$u[5]^1 + 15984380541172500\ u[0]^4\ u[1]^4\ u[4]^2 + 75946507276500\ u[0]^4\ u[1]^4\ u[10]^1 + 53068305688398000\ u[0]^4\ u[1]^5\ u[2]^1$

$u[3]^1 + 1078819083972000\ u[0]^4\ u[1]^5\ u[7]^1 + 5114292498315000\ u[0]^4\ u[1]^6\ u[4]^1 + 526471286591250\ u[0]^4\ u[1]^8 + 152286205986468 00\ u[0]^4\ u[2]^1\ u[3]^1\ u[4]^1\ u[7]^1 + 20398776094101600\ u[0]^4\ u[2]^1\ u[3]^1\ u[5]^1\ u[6]^1 + 7198188895800\ u[0]^4\ u[2]^1\ u[3]^1\ u[13]^1 + 4186695340319400\ u[0]^4\ u[2]^1\ u[3]^2\ u[8]^1 + 29359813725177300\ u[0]^4\ u[2]^1\ u[3]^4 + 14400130282507800\ u[0]^4\ u[2]^1\ u[4]^1\ u[5]^2 + 20262661867800\ u[0]^4\ u[2]^1\ u[4]^1\ u[12]^1 + 12306268865403000\ u[0]^4\ u[2]^1\ u[4]^2\ u[6]^1 + 44048883034800\ u[0]^4\ u[2]^1\ u[5]^1\ u[11]^1 + 75678924151800\ u[0]^4\ u[2]^1\ u[6]^1\ u[10]^1 + 104183198366400\ u[0]^4\ u[2]^1\ u[7]^1\ u[9]^1 + 57902967215100\ u[0]^4\ u[2]^1\ u[8]^2 + 1246823100\ u[0]^4\ u[2]^1\ u[18]^1 + 1647285559164000\ u[0]^4\ u[2]^2\ u[3]^1\ u[9]^1 + 139610910533581800\ u[0]^4\ u[2]^2\ u[3]^2\ u[4]^1 + 3326197139836200\ u[0]^4\ u[2]^2\ u[4]^1\ u[8]^1 + 5013820850396400\ u[0]^4\ u[2]^2\ u[5]^1\ u[7]^1 + 2869790081751900\ u[0]^4\ u[2]^2\ u[6]^2 + 953149736700\ u[0]^4\ u[2]^2\ u[14]^1 + 61120859457150000\ u[0]^4\ u[2]^3\ u[3]^1\ u[5]^1 + 36896225773840200\ u[0]^4\ u[2]^3\ u[4]^2 + 196814227134600\ u[0]^4\ u[2]^3\ u[10]^1 + 8584239427726500\ u[0]^4\ u[2]^4\ u[6]^1 + 6008670064615500\ u[0]^4\ u[2]^6 + 66633203952000\ u[0]^4\ u[3]^1\ u[4]^1\ u[11]^1 + 21896195340357000\ u[0]^4\ u[3]^1\ u[4]^2\ u[5]^1 + 133890452170200\ u[0]^4\ u[3]^1\ u[5]^1\ u[10]^1 + 211013644095000\ u[0]^4\ u[3]^1\ u[6]^1\ u[9]^1 + 264129387494400\ u[0]^4\ u[3]^1\ u[7]^1\ u[8]^1 + 5917757400\ u[0]^4\ u[3]^1\ u[17]^1 + 15502991167773000\ u[0]^4\ u[3]^2\ u[4]^1\ u[6]^1 + 9071466706019700\ u[0]^4\ u[3]^2\ u[5]^2 + 12720554498700\ u[0]^4\ u[3]^2\ u[12]^1 + 3196675630245600\ u[0]^4\ u[3]^3\ u[7]^1 + 297379591488000\ u[0]^4\ u[4]^1\ u[5]^1\ u[9]^1 + 426166554789000\ u[0]^4\ u[4]^1\ u[6]^1\ u[8]^1 + 239955702092100\ u[0]^4\ u[4]^1\ u[7]^2 + 21307648500\ u[0]^4\ u[4]^1\ u[16]^1 + 80661545617500\ u[0]^4\ u[4]^2\ u[10]^1 + 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+ 5872218805281600\ u[0]^5\ u[1]^3\ u[3]^1\ u[6]^1 + 8269471659895200\ u[0]^5\ u[1]^3\ u[4]^1\ u[5]^1 + 100981550552000\ u[0]^5\ u[1]^3\ u[11]^1 + 20380592351574000\ u[0]^5\ u[1]^4\ u[2]^1\ u[4]^1 + 12828942915024600\ u[0]^5\ u[1]^4\ u[3]^2 + 234192941551800\ u[0]^5\ u[1]^4\ u[8]^1 + 1962575559781200\ u[0]^5\ u[1]^5\ u[5]^1 + 3874828669311600\ u[0]^5\ u[1]^6\ u[2]^1 + 21083630401647360\ u[0]^5\ u[2]^1\ u[3]^1\ u[4]^1\ u[5]^1 + 28934171375760\ u[0]^5\ u[2]^1\ u[3]^1\ u[11]^1 + 7471761044075280\ u[0]^5\ u[2]^1\ u[3]^2\ u[6]^1 + 69830266804560\ u[0]^5\ u[2]^1\ u[4]^1\ u[10]^1 + 4240093200706800\ u[0]^5\ u[2]^1\ u[4]^3 + 128422734637680\ u[0]^5\ u[2]^1\ u[5]^1\ u[9]^1 + 183803028866640\ u[0]^5\ u[2]^1\ u[6]^1\ u[8]^1 + 103443106505400\ u[0]^5\ u[2]^1\ u[7]^2 + 8493284520\ u[0]^5\ u[2]^1\ u[16]^1 + 3679496777134080\ u[0]^5\ u[2]^2\ u[3]^1\ u[7]^1 + 5937553839353040\ u[0]^5\ u[2]^2\ u[4]^1\ u[6]^1 + 3471289743002760\ u[0]^5\ u[2]^2\ u[5]^2 + 4420415903400\ u[0]^5\ u[2]^2\ u[12]^1 + 25595056099043280\ u[0]^5\ u[2]^3\ u[3]^2 + 537611109459120\ u[0]^5\ u[2]^3\ u[8]^1 + 10160780724316440\ u[0]^5\ u[2]^4\ u[4]^1 + 194290396650000\ u[0]^5\ u[3]^1\ u[4]^1\ u[9]^1 + 325169782199280\ u[0]^5\ u[3]^1\ u[5]^1\ u[8]^1 + 418927008584880\ u[0]^5\ u[3]^1\ u[6]^1\ u[7]^1 + 36057379680\ u[0]^5\ u[3]^1\ u[15]^1 + 8008903310830200\ u[0]^5\ u[3]^2\ u[4]^2 + 43832620637640\ u[0]^5\ u[3]^2\ u[10]^1 + 4424822034804720\ u[0]^5\ u[3]^3\ u[5]^1 + 590419062480240\ u[0]^5\ u[4]^1\ u[5]^1\ u[7]^1 + 337899816275400\ u[0]^5\ u[4]^1\ u[6]^2 + 115414878600\ u[0]^5\ u[4]^1\ u[14]^1 + 195943014145800\ u[0]^5\ u[4]^2\ u[8]^1 + 288511143480\ u[0]^5\ u[5]^1\ u[13]^1 + 395153218430280\ u[0]^5\ u[5]^2\ u[6]^1 + 577044618120\ u[0]^5\ u[6]^1\ u[12]^1 + 937677964680\ u[0]^5\ u[7]^1\ u[11]^1 + 1250254654920\ u[0]^5\ u[8]^1\ u[10]^1 + 687632244300\ u[0]^5\ u[9]^2 + 3721860\ u[0]^5\ u[20]^1 + 3998127087551520\ u[0]^6\ u[1]^1\ u[2]^1\ u[3]^1\ u[6]^1 + 5630055537758400\ u[0]^6\ u[1]^1\ u[2]^1\ u[4]^1\ u[5]^1 + 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Size:2167

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$u[11]^1\ u[14]^1\ +2277724272120\ u[0]^1\ u[1]^1\ u[12]^1\ u[13]^1\ +57288\ u[0]^1\ u[1]^1\ u[27]^1\ +3256187163021540000\ u[0]^1\ u[1]^2$
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$u[1]^2\ u[4]^1\ u[18]^1\ +7241588293668026760\ u[0]^1\ u[1]^2\ u[4]^2\ u[5]^2\ +11727531974501640\ u[0]^1\ u[1]^2\ u[4]^2\ u[12]^1\ +$
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$u[0]^1\ u[1]^2\ u[5]^1\ u[7]^1\ u[8]^1\ +5125015783800\ u[0]^1\ u[1]^2\ u[5]^1\ u[17]^1\ +51698672314751880\ u[0]^1\ u[1]^2\ u[5]^2\ u[10]^1\ +$
$132146620592686920\ u[0]^1\ u[1]^2\ u[6]^1\ u[7]^2\ +13206534426360\ u[0]^1\ u[1]^2\ u[6]^1\ u[16]^1\ +117274695224999400\ u[0]^1\ u[1]^2$
$u[6]^2\ u[8]^1\ +28106152675920\ u[0]^1\ u[1]^2\ u[7]^1\ u[15]^1\ +50019256207800\ u[0]^1\ u[1]^2\ u[8]^1\ u[14]^1\ +75081368201400\ u[0]^1$
$u[1]^2\ u[9]^1\ u[13]^1\ +95596326543960\ u[0]^1\ u[1]^2\ u[10]^1\ u[12]^1\ +51788081662020\ u[0]^1\ u[1]^2\ u[11]^2\ +19580220\ u[0]^1$
$u[1]^2\ u[24]^1\ +41176840916987677440\ u[0]^1\ u[1]^3\ u[2]^1\ u[3]^1\ u[4]^1\ u[6]^1\ +24117716660564040480\ u[0]^1\ u[1]^3\ u[2]^1\ u[3]^1$
$u[5]^2\ +35140284524141280\ u[0]^1\ u[1]^3\ u[2]^1\ u[3]^1\ u[12]^1\ +12699873663946888320\ u[0]^1\ u[1]^3\ u[2]^1\ u[3]^2\ u[7]^1\ +$
$92427893222385600\ u[0]^1\ u[1]^3\ u[2]^1\ u[4]^1\ u[11]^1\ +29142958950437650560\ u[0]^1\ u[1]^3\ u[2]^1\ u[4]^2\ u[5]^1\ +$
$186220559933052480\ u[0]^1\ u[1]^3\ u[2]^1\ u[5]^1\ u[10]^1\ +293930201712628800\ u[0]^1\ u[1]^3\ u[2]^1\ u[6]^1\ u[9]^1\ +$
$368178007452583680\ u[0]^1\ u[1]^3\ u[2]^1\ u[7]^1\ u[8]^1\ +8439623066160\ u[0]^1\ u[1]^3\ u[2]^1\ u[17]^1\ +5507469244549293120\ u[0]^1$
$u[1]^3\ u[2]^2\ u[3]^1\ u[8]^1\ +72672309608557095360\ u[0]^1\ u[1]^3\ u[2]^2\ u[3]^3\ +10050166833536142720\ u[0]^1\ u[1]^3\ u[2]^2\ u[4]^1$
$u[7]^1\ +13483691691128540640\ u[0]^1\ u[1]^3\ u[2]^2\ u[5]^1\ u[6]^1\ +4931878266619920\ u[0]^1\ u[1]^3\ u[2]^2\ u[13]^1\ +$
$114805764664097791680\ u[0]^1\ u[1]^3\ u[2]^3\ u[4]^1\ +717123510975405600\ u[0]^1\ u[1]^3\ u[2]^3\ u[9]^1\ +18760114980349752240$
$u[0]^1\ u[1]^3\ u[2]^4\ u[5]^1\ +283306004956972800\ u[0]^1\ u[1]^3\ u[3]^1\ u[4]^1\ u[10]^1\ +14845374294881011200\ u[0]^1\ u[1]^3\ u[3]^1$
$u[4]^3\ +523624497436814400\ u[0]^1\ u[1]^3\ u[3]^1\ u[5]^1\ u[9]^1\ +751400224948296000\ u[0]^1\ u[1]^3\ u[3]^1\ u[6]^1\ u[8]^1\ +$
$423269500113884160\ u[0]^1\ u[1]^3\ u[3]^1\ u[7]^2\ +38373671160000\ u[0]^1\ u[1]^3\ u[3]^1\ u[16]^1\ +36849380689514495520\ u[0]^1\ u[1]^3$
$u[3]^2\ u[4]^1\ u[5]^1\ +58256813824387200\ u[0]^1\ u[1]^3\ u[3]^2\ u[11]^1\ +8675938127021489280\ u[0]^1\ u[1]^3\ u[3]^3\ u[6]^1\ +$
$1061996827756154400\ u[0]^1\ u[1]^3\ u[4]^1\ u[5]^1\ u[8]^1\ +1370727051612098400\ u[0]^1\ u[1]^3\ u[4]^1\ u[6]^1\ u[7]^1\ +131377010529600$
$u[0]^1\ u[1]^3\ u[4]^1\ u[15]^1\ +315987039118278000\ u[0]^1\ u[1]^3\ u[4]^2\ u[9]^1\ +919504533565530000\ u[0]^1\ u[1]^3\ u[5]^1\ u[6]^2\ +$
$351961538979600\ u[0]^1\ u[1]^3\ u[5]^1\ u[14]^1\ +802599991829871840\ u[0]^1\ u[1]^3\ u[5]^2\ u[7]^1\ +756596148184800\ u[0]^1\ u[1]^3$
$u[6]^1\ u[13]^1\ +1326848296720320\ u[0]^1\ u[1]^3\ u[7]^1\ u[12]^1\ +1919063556669600\ u[0]^1\ u[1]^3\ u[8]^1\ u[11]^1\ +2304313641273600$
$u[0]^1\ u[1]^3\ u[9]^1\ u[10]^1\ +3406958280\ u[0]^1\ u[1]^3\ u[21]^1\ +788449080516094800\ u[0]^1\ u[1]^4\ u[2]^1\ u[3]^1\ u[9]^1\ +$
$6276980175821129 0160\ u[0]^1\ u[1]^4\ u[2]^1\ u[3]^2\ u[4]^1\ +1597547340964040400\ u[0]^1\ u[1]^4\ u[2]^1\ u[4]^1\ u[8]^1\ +$
$2412916984878737040\ u[0]^1\ u[1]^4\ u[2]^1\ u[5]^1\ u[7]^1\ +1381829122202463000\ u[0]^1\ u[1]^4\ u[2]^1\ u[6]^2\ +477307218742200\ u[0]^1$
$u[1]^4\ u[2]^1\ u[14]^1\ +41045437263852085680\ u[0]^1\ u[1]^4\ u[2]^2\ u[3]^1\ u[5]^1\ +24801830048264579640\ u[0]^1\ u[1]^4\ u[2]^2\ u[4]^2$
$+\ 140295916380379320\ u[0]^1\ u[1]^4\ u[2]^2\ u[10]^1\ +7643997339869301840\ u[0]^1\ u[1]^4\ u[2]^3\ u[6]^1\ +7322418771860962440\ u[0]^1$
$u[1]^4\ u[2]^5\ +3679987209082707600\ u[0]^1\ u[1]^4\ u[3]^1\ u[4]^1\ u[7]^1\ +4936617607143538800\ u[0]^1\ u[1]^4\ u[3]^1\ u[5]^1\ u[6]^1\ +$
$1816264144233000\ u[0]^1\ u[1]^4\ u[3]^1\ u[13]^1\ +1008616093544763000\ u[0]^1\ u[1]^4\ u[3]^2\ u[8]^1\ +6620532890570135460\ u[0]^1$
$u[1]^4\ u[3]^4\ +3491907971835195000\ u[0]^1\ u[1]^4\ u[4]^1\ u[5]^2\ +5134109318573400\ u[0]^1\ u[1]^4\ u[4]^1\ u[12]^1\ +$
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$u[1]^4\ u[6]^1\ u[10]^1\ +26539611026326200\ u[0]^1\ u[1]^4\ u[7]^1\ u[9]^1\ +14754322968947100\ u[0]^1\ u[1]^4\ u[8]^2\ +326304366300$
$u[0]^1\ u[1]^4\ u[18]^1\ +6697541982173565600\ u[0]^1\ u[1]^5\ u[2]^1\ u[3]^1\ u[6]^1\ +9474026618046830400\ u[0]^1\ u[1]^5\ u[2]^1\ u[4]^1$
$u[5]^1\ +13471469007519600\ u[0]^1\ u[1]^5\ u[2]^1\ u[11]^1\ +1636327593804562560\ u[0]^1\ u[1]^5\ u[2]^2\ u[7]^1\ +21295630233805007520$
$u[0]^1\ u[1]^5\ u[2]^3\ u[3]^1\ +7238755110420424800\ u[0]^1\ u[1]^5\ u[3]^1\ u[4]^2\ +41185199613452400\ u[0]^1\ u[1]^5\ u[3]^1\ u[10]^1\ +$
$5990807984954958000\ u[0]^1\ u[1]^5\ u[3]^2\ u[5]^1\ +91668088232146800\ u[0]^1\ u[1]^5\ u[4]^1\ u[9]^1\ +1538043479909 24400\ u[0]^1$
$u[1]^5\ u[5]^1\ u[8]^1\ +198360903597555600\ u[0]^1\ u[1]^5\ u[6]^1\ u[7]^1\ +17401333118400\ u[0]^1\ u[1]^5\ u[15]^1\ +7746826129770222000$
$u[0]^1\ u[1]^6\ u[2]^1\ u[3]^2\ +173378245573486800\ u[0]^1\ u[1]^6\ u[2]^1\ u[8]^1\ +6120857992710582000\ u[0]^1\ u[1]^6\ u[2]^2\ u[4]^1\ +$
$398748179827087200\ u[0]^1\ u[1]^6\ u[3]^1\ u[7]^1\ +645331185800730000\ u[0]^1\ u[1]^6\ u[4]^1\ u[6]^1\ +377758659804233400\ u[0]^1$
$u[1]^6\ u[5]^2\ +499689368224200\ u[0]^1\ u[1]^6\ u[12]^1\ +8335639550955502400\ u[0]^1\ u[1]^7\ u[2]^1\ u[5]^1\ +1273544125387776000$
$u[0]^1\ u[1]^7\ u[3]^1\ u[4]^1\ +7109642496726000\ u[0]^1\ u[1]^7\ u[9]^1\ +467199644943131100\ u[0]^1\ u[1]^8\ u[2]^2\ +42536565797071500$
$u[0]^1\ u[1]^8\ u[6]^1\ +75450856386906000\ u[0]^1\ u[1]^9\ u[3]^1\ +4188344491576428480\ u[0]^1\ u[2]^1\ u[3]^1\ u[4]^1\ u[5]^1\ u[8]^1\ +$
$5410139584654696320\ u[0]^1\ u[2]^1\ u[3]^1\ u[4]^1\ u[6]^1\ u[7]^1\ +557969070684960\ u[0]^1\ u[2]^1\ u[3]^1\ u[4]^1\ u[15]^1\ +$
$1244234247679407600\ u[0]^1\ u[2]^1\ u[3]^1\ u[4]^2\ u[9]^1\ +3632341123898490960\ u[0]^1\ u[2]^1\ u[3]^1\ u[5]^1\ u[6]^2\ +$
$1499187433653360\ u[0]^1\ u[2]^1\ u[3]^1\ u[5]^1\ u[14]^1\ +3169234057832615520\ u[0]^1\ u[2]^1\ u[3]^1\ u[5]^2\ u[7]^1\ +3229817909361120$
$u[0]^1\ u[2]^1\ u[3]^1\ u[6]^1\ u[13]^1\ +5673006788613120\ u[0]^1\ u[2]^1\ u[3]^1\ u[7]^1\ u[12]^1\ +8213278563871920\ u[0]^1\ u[2]^1\ u[3]^1$
$u[8]^1\ u[11]^1\ +9866914281599760\ u[0]^1\ u[2]^1\ u[3]^1\ u[9]^1\ u[10]^1\ +15405717096\ u[0]^1\ u[2]^1\ u[3]^1\ u[21]^1\ +$
$556435409247962640\ u[0]^1\ u[2]^1\ u[3]^2\ u[4]^1\ u[10]^1\ +26545849931070985680\ u[0]^1\ u[2]^1\ u[3]^2\ u[4]^3\ +1030410243975586320$
$u[0]^1\ u[2]^1\ u[3]^2\ u[5]^1\ u[9]^1\ +1480299147107565840\ u[0]^1\ u[2]^1\ u[3]^2\ u[6]^1\ u[8]^1\ +834171893994799800\ u[0]^1\ u[2]^1$
$u[3]^2\ u[7]^2\ +81182571873480\ u[0]^1\ u[2]^1\ u[3]^2\ u[16]^1\ +43909689499281714240\ u[0]^1\ u[2]^1\ u[3]^3\ u[4]^1\ u[5]^1\ +$

$76072006527002640 \ u[0]^1 \ u[2]^1 \ u[3]^3 \ u[11]^1 + 7746720872093204760 \ u[0]^1 \ u[2]^1 \ u[3]^4 \ u[6]^1 + 4557052235458800 \ u[0]^1 \ u[2]^1 \ u[4]^1 \ u[5]^1 \ u[13]^1 + 5141183977098172080 \ u[0]^1 \ u[2]^1 \ u[4]^1 \ u[5]^2 \ u[6]^1 + 9169222199250960 \ u[0]^1 \ u[2]^1 \ u[4]^1 \ u[6]^1 \ u[12]^1 + 14959667729785680 \ u[0]^1 \ u[2]^1 \ u[4]^1 \ u[7]^1 \ u[11]^1 + 19991923752152880 \ u[0]^1 \ u[2]^1 \ u[4]^1 \ u[8]^1 \ u[10]^1 + 11003749882689960 \ u[0]^1 \ u[2]^1 \ u[4]^1 \ u[9]^2 + 68077220904 \ u[0]^1 \ u[2]^1 \ u[4]^1 \ u[20]^1 + 3828131755050105360 \ u[0]^1 \ u[2]^1 \ u[4]^2 \ u[5]^1 \ u[7]^1 + 2193841062734979240 \ u[0]^1 \ u[2]^1 \ u[4]^2 \ u[6]^2 + 903625191417960 \ u[0]^1 \ u[2]^1 \ u[4]^2 \ u[14]^1 + 843091301312813520 \ u[0]^1 \ u[2]^1 \ u[4]^3 \ u[8]^1 + 20058819609383280 \ u[0]^1 \ u[2]^1 \ u[5]^1 \ u[6]^1 \ u[11]^1 + 30208953834393840 \ u[0]^1 \ u[2]^1 \ u[5]^1 \ u[7]^1 \ u[10]^1 + 36993537302412240 \ u[0]^1 \ u[2]^1 \ u[5]^1 \ u[8]^1 \ u[9]^1 + 238997589336 \ u[0]^1 \ u[2]^1 \ u[5]^1 \ u[19]^1 + 5366095302328200 \ u[0]^1 \ u[2]^1 \ u[5]^2 \ u[12]^1 + 502027110959697180 \ u[0]^1 \ u[2]^1 \ u[5]^4 + 47759375881451520 \ u[0]^1 \ u[2]^1 \ u[6]^1 \ u[7]^1 \ u[9]^1 + 26564651087432040 \ u[0]^1 \ u[2]^1 \ u[6]^1 \ u[8]^2 + 684391345704 \ u[0]^1 \ u[2]^1 \ u[6]^1 \ u[18]^1 + 17303626684947240 \ u[0]^1 \ u[2]^1 \ u[6]^2 \ u[10]^1 + 1628150117616 \ u[0]^1 \ u[2]^1 \ u[7]^1 \ u[17]^1 + 29936852739632520 \ u[0]^1 \ u[2]^1 \ u[7]^2 \ u[8]^1 + 3260329488504 \ u[0]^1 \ u[2]^1 \ u[8]^1 \ u[16]^1 + 5547490714656 \ u[0]^1 \ u[2]^1 \ u[9]^1 \ u[15]^1 + 8073923653224 \ u[0]^1 \ u[2]^1 \ u[10]^1 \ u[14]^1 + 10095908179896 \ u[0]^1 \ u[2]^1 \ u[11]^1 \ u[13]^1 + 5436876355812 \ u[0]^1 \ u[2]^1 \ u[12]^2 + 536052 \ u[0]^1 \ u[2]^1 \ u[26]^1 + 180968556967086240 \ u[0]^1 \ u[2]^2 \ u[3]^1 \ u[4]^1 \ u[11]^1 + 52079688301375159920 \ u[0]^1 \ u[2]^2 \ u[3]^1 \ u[4]^2 \ u[5]^1 + 3654279045273780000 \ u[0]^1 \ u[2]^2 \ u[3]^1 \ u[5]^1 \ u[10]^1 + 577628023838952240 \ u[0]^1 \ u[2]^2 \ u[3]^1 \ u[6]^1 \ u[9]^1 + 724052807434994400 \ u[0]^1 \ u[2]^2 \ u[3]^1 \ u[7]^1 \ u[8]^1 + 17773044014880 \ u[0]^1 \ u[2]^2 \ u[3]^1 \ u[17]^1 + 36758754300172299120 \ u[0]^1 \ u[2]^2 \ u[3]^2 \ u[4]^1 \ u[6]^1 + 21540227424158325960 \ u[0]^1 \ u[2]^2 \ u[3]^2 \ u[5]^2 + 34295352508909800 \ u[0]^1 \ u[2]^2 \ u[3]^2 \ u[12]^1 + 7547643398514431520 \ u[0]^1 \ u[2]^2 \ u[3]^3 \ u[7]^1 + 816717311481978720 \ u[0]^1 \ u[2]^2 \ u[4]^1 \ u[5]^1 \ u[9]^1 + 1173204830511275760 \ u[0]^1 \ u[2]^2 \ u[4]^1 \ u[6]^1 \ u[8]^1 + 661101169041122040 \ u[0]^1 \ u[2]^2 \ u[4]^1 \ u[7]^2 + 64551382208280 \ u[0]^1 \ u[2]^2 \ u[4]^1 \ u[16]^1 + 220556137604485320 \ u[0]^1 \ u[2]^2 \ u[4]^2 \ u[10]^1 + 5246981777572446780 \ u[0]^1 \ u[2]^2 \ u[4]^4 + 1774867470012735120 \ u[0]^1 \ u[2]^2 \ u[5]^1 \ u[6]^1 \ u[7]^1 + 184031924551200 \ u[0]^1 \ u[2]^2 \ u[5]^1 \ u[15]^1 + 687110752138025160 \ u[0]^1 \ u[2]^2 \ u[5]^2 \ u[8]^1 + 422508882957480 \ u[0]^1 \ u[2]^2 \ u[6]^1 \ u[14]^1 + 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1231713319320 \ u[0]^1 \ u[2]^3 \ u[18]^1 + 636262848527644800 \ u[0]^1 \ u[2]^4 \ u[3]^1 \ u[9]^1 + 45764515562274032040 \ u[0]^1 \ u[2]^4 \ u[3]^2 \ u[4]^1 + 1292614843673541960 \ u[0]^1 \ u[2]^4 \ u[4]^1 \ u[8]^1 + 1955371869306385200 \ u[0]^1 \ u[2]^4 \ u[5]^1 \ u[7]^1 + 1120377350918178540 \ u[0]^1 \ u[2]^4 \ u[6]^2 + 418008189608460 \ u[0]^1 \ u[2]^4 \ u[14]^1 + 11957249700807087600 \ u[0]^1 \ u[2]^5 \ u[3]^1 \ u[5]^1 + 7229933565106051800 \ u[0]^1 \ u[2]^5 \ u[6]^2 + 45119170953160920 \ u[0]^1 \ u[2]^5 \ u[10]^1 + 1111461242762213640 \ u[0]^1 \ u[2]^6 \ u[6]^1 + 336538221856639110 \ u[0]^1 \ u[2]^8 + 16297408566972720 \ u[0]^1 \ u[3]^1 \ u[4]^1 \ u[5]^1 \ u[12]^1 + 3063859041548091600 \ u[0]^1 \ u[3]^1 \ u[4]^1 \ u[5]^3 + 30466770863181840 \ u[0]^1 \ u[3]^1 \ u[4]^1 \ u[6]^1 \ u[11]^1 + 45889084694779920 \ u[0]^1 \ u[3]^1 \ u[4]^1 \ u[7]^1 \ u[10]^1 + 56198363587272720 \ u[0]^1 \ u[3]^1 \ u[4]^1 \ u[8]^1 \ u[9]^1 + 361077057000 \ u[0]^1 \ u[3]^1 \ u[4]^1 \ u[19]^1 + 7843206775732740720 \ u[0]^1 \ u[3]^1 \ u[4]^2 \ u[5]^1 \ u[6]^1 + 3458893670777160 \ u[0]^1 \ u[3]^1 \ u[4]^2 \ u[13]^1 + 1946307278256271920 \ u[0]^1 \ u[3]^1 \ u[4]^3 \ u[7]^1 + 61557437063144880 \ u[0]^1 \ u[3]^1 \ u[5]^1 \ u[6]^1 \ u[10]^1 + 84964935367548720 \ u[0]^1 \ u[3]^1 \ u[5]^1 \ u[7]^1 \ u[9]^1 + 47261392804798920 \ u[0]^1 \ u[3]^1 \ u[5]^1 \ u[8]^2 + 1209078585000 \ u[0]^1 \ u[3]^1 \ u[5]^1 \ u[18]^1 + 17834635245188520 \ u[0]^1 \ u[3]^1 \ u[5]^2 \ u[11]^1 + 122064695512982640 \ u[0]^1 \ u[3]^1 \ u[6]^1 \ u[7]^1 \ u[8]^1 + 3293001399600 \ u[0]^1 \ u[3]^1 \ u[6]^1 \ u[17]^1 + 48676134206391120 \ u[0]^1 \ u[3]^1 \ u[6]^2 \ u[9]^1 + 7428158741520 \ u[0]^1 \ u[3]^1 \ u[7]^1 \ u[16]^1 + 22929063197348880 \ u[0]^1 \ u[3]^1 \ u[7]^3 + 14057287865280 \ u[0]^1 \ u[3]^1 \ u[8]^1 \ u[15]^1 + 22521347046000 \ u[0]^1 \ u[3]^1 \ u[9]^1 \ u[14]^1 + 30736783713240 \ u[0]^1 \ u[3]^1 \ u[10]^1 \ u[13]^1 + 35874284557320 \ u[0]^1 \ u[3]^1 \ u[11]^1 \ u[12]^1 + 3617328 \ u[0]^1 \ u[3]^1 \ u[25]^1 + 4833059663605813200 \ u[0]^1 \ u[3]^2 \ u[4]^1 \ u[5]^1 \ u[7]^1 + 2769861707445614760 \ u[0]^1 \ u[3]^2 \ u[4]^1 \ u[6]^2 + 1137307249429560 \ u[0]^1 \ u[3]^2 \ u[4]^1 \ u[14]^1 + 1596401269166693880 \ u[0]^1 \ u[3]^2 \ u[4]^2 \ u[8]^1 + 2868270325434360 \ u[0]^1 \ u[3]^2 \ u[5]^1 \ u[13]^1 + 3245752957579913880 \ u[0]^1 \ u[3]^2 \ u[5]^2 \ u[6]^1 + 5771842452513720 \ u[0]^1 \ u[3]^2 \ u[6]^1 \ u[12]^1 + 9417399013523160 \ u[0]^1 \ u[3]^2 \ u[7]^1 \ u[11]^1 + 12585705647514120 \ u[0]^1 \ u[3]^2 \ u[8]^1 \ u[10]^1 + 6927365759115780 \ u[0]^1 \ u[3]^2 \ u[9]^2 + 42718699980 \ u[0]^1 \ u[3]^2 \ u[20]^1 + 5234137596230004000 \ u[0]^1 \ u[3]^3 \ u[4]^1 \ u[9]^1 + 881093855533407120 \ u[0]^1 \ u[3]^3 \ u[5]^1 \ u[8]^1 + 1138198246407929520 \ u[0]^1 \ u[3]^3 \ u[6]^1 \ u[7]^1 + 117010283987520 \ u[0]^1 \ u[3]^3 \ u[15]^1 + 8395417281620312460 \ u[0]^1 \ u[3]^4 \ u[4]^2 + 58503207466243980 \ u[0]^1 \ u[3]^4 \ u[4]^1 \ u[10]^1 + 2777100732239978040 \ u[0]^1 \ u[3]^5 \ u[5]^1 + 137561459848773840 \ u[0]^1 \ u[4]^1 \ u[5]^1 \ u[6]^1 \ u[9]^1 + 172494309172608720 \ u[0]^1 \ u[4]^1 \ u[5]^1 \ u[7]^1 \ u[8]^1 + 4636400293800 \ u[0]^1 \ u[4]^1 \ u[5]^1 \ u[17]^1 + 43483926822157800 \ u[0]^1 \ u[4]^1 \ u[5]^2 \ u[10]^1 + 111397979757790440 \ u[0]^1 \ u[4]^1 \ u[6]^1 \ u[7]^2 + 11974703625720 \ u[0]^1 \ u[4]^1 \ u[6]^1 \ u[16]^1 + 98833126585331160 \ u[0]^1 \ u[4]^1 \ u[6]^2 \ u[8]^1 + 25529865649200 \ u[0]^1 \ u[4]^1 \ u[7]^1 \ u[15]^1 + 45494573529240 \ u[0]^1 \ u[4]^1 \ u[8]^1 \ u[14]^1 + 68352166353240 \ u[0]^1 \ u[4]^1 \ u[9]^1 \ u[13]^1 + 87075264002760 \ u[0]^1 \ u[4]^1 \ u[10]^1 \ u[12]^1 + 47180264929380 \ u[0]^1 \ u[4]^1 \ u[11]^2 + 18810924 \ u[0]^1 \ u[4]^1 \ u[24]^1 + 21515643880691400 \ u[0]^1 \ u[4]^2 \ u[5]^1 \ u[11]^1 + 37134994890165480 \ u[0]^1 \ u[4]^2 \ u[6]^1 \ u[10]^1 + 51258484589997960 \ u[0]^1 \ u[4]^2 \ u[7]^1 \ u[9]^1 + 28512809460826020 \ u[0]^1 \ u[4]^2 \ u[8]^2 + 727816357620 \ u[0]^1 \ u[4]^2 \ u[18]^1 + 1851148948855452840 \ u[0]^1 \ u[4]^3 \ u[5]^2 + 3276341932537080 \ u[0]^1 \ u[4]^3 \ u[12]^1 + 789756664800907980 \ u[0]^1 \ u[4]^4 \ u[6]^1 + 34187769007920 \ u[0]^1 \ u[5]^1 \ u[6]^1 \ u[15]^1 + 149519537810010720 \ u[0]^1 \ u[5]^1 \ u[6]^2 \ u[7]^1 + 68638041125280 \ u[0]^1 \ u[5]^1 \ u[7]^1 \ u[14]^1 + 114707561114520 \ u[0]^1 \ u[5]^1 \ u[8]^1 \ u[13]^1 + 160869823705800 \ u[0]^1 \ u[5]^1 \ u[9]^1 \ u[12]^1 + 190280239756200 \ u[0]^1 \ u[5]^1 \ u[10]^1 \ u[11]^1 + 78378168 \ u[0]^1 \ u[5]^1 \ u[23]^1 + 115751530772424360 \ u[0]^1 \ u[5]^2 \ u[6]^1 \ u[8]^1 + 65235004679685060 \ u[0]^1 \ u[5]^2 \ u[7]^2 + 7002322776900 \ u[0]^1 \ u[5]^2 \ u[16]^1 + 26849829124043640 \ u[0]^1 \ u[5]^3 \ u[9]^1 + 147980528003880 \ u[0]^1 \ u[6]^1 \ u[7]^1 \ u[13]^1 + 230849401824360 \ u[0]^1 \ u[6]^1 \ u[8]^1 \ u[12]^1 + 300602540038680 \ u[0]^1 \ u[6]^1 \ u[9]^1 \ u[11]^1 + 164054384506980 \ u[0]^1 \ u[6]^1 \ u[10]^2 + 268725732 \ u[0]^1 \ u[6]^1 \ u[22]^1 + 39296712991140 \ u[0]^1 \ u[6]^2 \ u[14]^1 + 14279521403367990 \ u[0]^1 \ u[6]^4 + 376730292997080 \ u[0]^1 \ u[7]^1 \ u[8]^1 \ u[11]^1 + 452691250961400 \ u[0]^1 \ u[7]^1 \ u[9]^1 \ u[10]^1 + 772585968 \ u[0]^1 \ u[7]^1 \ u[21]^1 + 130044621059100 \ u[0]^1 \ u[7]^2 \ u[12]^1 + 277181120539620 \ u[0]^1 \ u[8]^1 \ u[9]^2 + 1888543932 \ u[0]^1 \ u[8]^1 \ u[20]^1 + 251777536629300 \ u[0]^1 \ u[8]^2 \ u[10]^1 + 3965941848 \ u[0]^1 \ u[9]^1 \ u[19]^1 + 7210803732 \ u[0]^1 \ u[10]^1 \ u[18]^1 + 11417105568 \ u[0]^1 \ u[11]^1 \ u[17]^1 + 15808300332 \ u[0]^1 \ u[12]^1 \ u[16]^1 + 19195792968 \ u[0]^1 \ u[13]^1 \ u[15]^1 + 10237756386 \ u[0]^1 \ u[14]^2 + 66 \ u[0]^1 \ u[30]^1 + 568226316816021600 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[4]^1 \ u[10]^1 + 29455199650063899360 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[4]^3 + 1050259981310796960 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[5]^1 \ u[9]^1 + 1507185290743593120 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[6]^1 \ u[8]^1 + 849021521148068400 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[7]^2 + 77690161953360 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[16]^1 + 7312119361620784128 0 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[3]^2 \ u[4]^1 \ u[5]^1 + 116850436788864240 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[3]^2 \ u[11]^1 + 17218369069066482014 40 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[3]^3 \ u[6]^1 + 2129891316118853760 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[4]^1 \ u[5]^1 \ u[8]^1 + 2749116682497065760 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[4]^1 \ u[6]^1 \ u[7]^1 + 266003554370400 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[4]^1 \ u[15]^1 + 6337296813106116 00 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[4]^2 \ u[9]^1 + 1844075168695789920 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[5]^1 \ u[6]^2 + 712733322549600 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[5]^1 \ u[14]^1 + 1609616219944138560 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[5]^2 \ u[7]^1 + 1532373934291200 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[6]^1 \ u[13]^1 + 2687680706800320 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[7]^1 \ u[12]^1 + 3887628935533200 \ u[0]^2 \ u[1]^1 \ u[2]^1 \ u[8]^1 \ u[11]^1$

$+ 4668278493978000 \, u[0]^2 \, u[1]^1 \, u[2]^1 \, u[9]^1 \, u[10]^1 + 6954894144 \, u[0]^2 \, u[1]^1 \, u[2]^1 \, u[21]^1 + 40879654522339422240 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[3]^1 \, u[4]^1 \, u[6]^1 + 23942537222141846880 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[3]^1 \, u[5]^2 + 35258628327912000 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[3]^1 \, u[12]^1 + 12609966195796527360 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[3]^2 \, u[7]^1 + 92738207825667360 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[4]^1 \, u[11]^1 + 28928446432071476400 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[4]^2 \, u[5]^1 + 186855984694336320 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[5]^1 \, u[10]^1 + 294953641812466560 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[6]^1 \, u[9]^1 + 369474247593396000 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[7]^1 \, u[8]^1 + 8546221343880 \, u[0]^2 \, u[1]^1 \, u[2]^2 \, u[17]^1 + 3647867118832712160 \, u[0]^2 \, u[1]^1 \, u[2]^3 \, u[3]^1 \, u[8]^1 + 47593609408830371040 \, u[0]^2 \, u[1]^1 \, u[2]^3 \, u[3]^3 + 6655915026644859360 \, u[0]^2 \, u[1]^1 \, u[2]^3 \, u[4]^1 \, u[7]^1 + 8929446712424076960 \, u[0]^2 \, u[1]^1 \, u[2]^3 \, u[5]^1 \, u[6]^1 + 3300478067446560 \, u[0]^2 \, u[1]^1 \, u[2]^3 \, u[13]^1 + 56418928109764656480 \, u[0]^2 \, u[1]^1 \, u[2]^4 \, u[3]^1 \, u[4]^1 + 356448130956779400 \, u[0]^2 \, u[1]^1 \, u[2]^4 \, u[9]^1 + 7379873897867602560 \, u[0]^2 \, u[1]^1 \, u[2]^5 \, u[5]^1 + 4902889921279194240 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[4]^1 \, u[5]^1 \, u[7]^1 + 2808761892127630560 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[4]^1 \, u[6]^2 + 1079612490021120 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[4]^1 \, u[14]^1 + 1621471471767718560 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[4]^2 \, u[8]^1 + 2715782359585360 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[5]^1 \, u[13]^1 + 3289753638619113600 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[5]^2 \, u[6]^1 + 5454929176250400 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[6]^1 \, u[12]^1 + 8889256730486880 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[7]^1 \, u[11]^1 + 11871354418506000 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[8]^1 \, u[10]^1 + 6532639985464560 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[9]^2 + 38367263088 \, u[0]^2 \, u[1]^1 \, u[3]^1 \, u[20]^1 + 799147507238586000 \, u[0]^2 \, u[1]^1 \, u[3]^2 \, u[4]^1 \, u[9]^1 + 1343145574576864080 \, u[0]^2 \, u[1]^1 \, u[3]^2 \, u[5]^1 \, u[8]^1 + 1733767672462285680 \, u[0]^2 \, u[1]^1 \, u[3]^2 \, u[6]^1 \, u[7]^1 + 167185744070400 \, u[0]^2 \, u[1]^1 \, u[3]^2 \, u[15]^1 + 18618930403057211040 \, u[0]^2 \, u[1]^1 \, u[3]^3 \, u[4]^2 + 119389117048241040 \, u[0]^2 \, u[1]^1 \, u[3]^3 \, u[10]^1 + 7702596165956840280 \, u[0]^2 \, u[1]^1 \, u[3]^4 \, u[5]^1 + 7692240493737360 \, u[0]^2 \, u[1]^1 \, u[4]^1 \, u[5]^1$

$u[12]^1 + 1551136321716973200 \, u[0]^2 \, u[1]^1 \, u[4]^1 \, u[5]^3 + 14356434430839600 \, u[0]^2 \, u[1]^1 \, u[4]^1 \, u[6]^1 \, u[11]^1 + 21601133517118320 \, u[0]^2 \, u[1]^1 \, u[4]^1 \, u[7]^1 \, u[10]^1 + 26440595929289520 \, u[0]^2 \, u[1]^1 \, u[4]^1 \, u[8]^1 \, u[9]^1 + 161504774640 \, u[0]^2 \, u[1]^1 \, u[4]^1 \, u[19]^1 + 3972649267273412880 \, u[0]^2 \, u[1]^1 \, u[4]^2 \, u[5]^1 \, u[6]^1 + 1636432226712360 \, u[0]^2 \, u[1]^1 \, u[4]^2 \, u[13]^1 + 986680785520077120 \, u[0]^2 \, u[1]^1 \, u[4]^3 \, u[7]^1 + 28950118934180400 \, u[0]^2 \, u[1]^1 \, u[5]^1 \, u[6]^1 \, u[10]^1 + 39925449113671440 \, u[0]^2 \, u[1]^1 \, u[5]^1 \, u[7]^1 \, u[9]^1 + 22202378003278440 \, u[0]^2 \, u[1]^1 \, u[5]^1 \, u[8]^2 + 539149545792 \, u[0]^2 \, u[1]^1 \, u[5]^1 \, u[18]^1 + 8399617921229040 \, u[0]^2 \, u[1]^1 \, u[5]^2 \, u[11]^1 + 57302169596488080 \, u[0]^2 \, u[1]^1 \, u[6]^1 \, u[7]^1 \, u[8]^1 + 1464968564136 \, u[0]^2 \, u[1]^1 \, u[6]^1 \, u[17]^1 + 22864097462085000 \, u[0]^2 \, u[1]^1 \, u[6]^2 \, u[9]^1 + 3298698887616 \, u[0]^2 \, u[1]^1 \, u[7]^1 \, u[16]^1 + 10760376160464480 \, u[0]^2 \, u[1]^1 \, u[7]^3 + 6234287935392 \, u[0]^2 \, u[1]^1 \, u[8]^1 \, u[15]^1 + 9978624798120 \, u[0]^2 \, u[1]^1 \, u[9]^1 \, u[14]^1 + 13610450156688 \, u[0]^2 \, u[1]^1 \, u[10]^1 \, u[13]^1 + 15880681968624 \, u[0]^2 \, u[1]^1 \, u[11]^1 \, u[12]^1 + 1542684 \, u[0]^2 \, u[1]^1 \, u[25]^1 + 14631264457872495840 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[3]^1 \, u[4]^1 \, u[7]^1 + 19626701831945746560 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[3]^1 \, u[5]^1 \, u[6]^1 + 7297249043201040 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[3]^1 \, u[13]^1 + 4010659066018764720 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[3]^2 \, u[8]^1 + 26028882819724581720 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[3]^4 + 13880855388523614480 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[4]^1 \, u[5]^2 + 20627819820012240 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[4]^1 \, u[12]^1 + 11851919212983117840 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[4]^2 \, u[6]^1 + 44971286069191680 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[5]^1 \, u[11]^1 + 77398944963935760 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[6]^1 \, u[10]^1 + 106657662903881760 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[7]^1 \, u[9]^1 + 59296246496114760 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[8]^2 + 1322957144520 \, u[0]^2 \, u[1]^2 \, u[2]^1 \, u[18]^1 + 1568494908901087200 \, u[0]^2 \, u[1]^2 \, u[2]^2 \, u[3]^1 \, u[9]^1 + 123451319582526030480 \, u[0]^2 \, u[1]^2 \, u[2]^2 \, u[3]^2 \, u[4]^1 + 3177766058575355280 \, u[0]^2 \, u[1]^2 \, u[2]^2 \, u[4]^1 \, u[8]^1 + 4799547283079482560 \, u[0]^2 \, u[1]^2 \, u[2]^2 \, u[5]^1 \, u[7]^1 + 2748620213996710680 \, u[0]^2 \, u[1]^2 \, u[2]^2 \, u[6]^2 + 959243084011080 \, u[0]^2 \, u[1]^2 \, u[2]^2 \, u[14]^1 + 53848907491996314720 \, u[0]^2 \, u[1]^2 \, u[2]^3 \, u[3]^1 \, u[5]^1 + 32535271155709262160 \, u[0]^2 \, u[1]^2 \, u[2]^3 \, u[4]^2 + 186166560940169040 \, u[0]^2 \, u[1]^2 \, u[2]^3 \, u[10]^1 + 7526234507837280840 \, u[0]^2 \, u[1]^2 \, u[2]^4 \, u[6]^1 + 4755455937440710920 \, u[0]^2 \, u[1]^2 \, u[2]^6 + 68287272377702400 \, u[0]^2 \, u[1]^2 \, u[3]^1 \, u[4]^1 \, u[11]^1 + 21180788064794136240 \, u[0]^2 \, u[1]^2 \, u[3]^1 \, u[4]^2 \, u[5]^1 + 13757062762106136 0 \, u[0]^2 \, u[1]^2 \, u[3]^1 \, u[5]^1 \, u[10]^1 + 217140926357876400 \, u[0]^2 \, u[1]^2 \, u[3]^1 \, u[6]^1 \, u[9]^1 + 271994598015940800 \, u[0]^2 \, u[1]^2 \, u[3]^1 \, u[7]^1 \, u[8]^1 + 6326817647040 \, u[0]^2 \, u[1]^2 \, u[3]^1 \, u[17]^1 + 14969140377141844080 \, u[0]^2 \, u[1]^2 \, u[3]^2 \, u[4]^1 \, u[6]^1 + 8766534449607980760 \, u[0]^2 \, u[1]^2 \, u[3]^2 \, u[5]^2 + 12985198284465000 \, u[0]^2 \, u[1]^2 \, u[3]^2 \, u[12]^1 + 3079176374093497920 \, u[0]^2 \, u[1]^2 \, u[3]^3 \, u[7]^1 + 306595958373302400 \, u[0]^2 \, u[1]^2 \, u[4]^1 \, u[5]^1 \, u[9]^1 + 439911646606753200 \, u[0]^2 \, u[1]^2 \, u[4]^1 \, u[6]^1 \, u[8]^1 + 247797274060991160 \, u[0]^2 \, u[1]^2 \, u[4]^1 \, u[7]^2 + 22883278512600 \, u[0]^2 \, u[1]^2 \, u[4]^1 \, u[16]^1 + 82966611461243400 \, u[0]^2 \, u[1]^2 \, u[4]^2 \, u[10]^1 + 2132466877960085700 \, u[0]^2 \, u[1]^2 \, u[4]^4 + 664565142625536240 \, u[0]^2 \, u[1]^2 \, u[5]^1 \, u[6]^1 \, u[7]^1 + 65037744192960 \, u[0]^2 \, u[1]^2 \, u[5]^1 \, u[15]^1 + 257489992488156120 \, u[0]^2 \, u[1]^2 \, u[5]^2 \, u[8]^1 + 148979610509400 \, u[0]^2 \, u[1]^2 \, u[6]^1 \, u[14]^1 + 126874135499067000 \, u[0]^2 \, u[1]^2 \, u[6]^3 + 279750787671960 \, u[0]^2 \, u[1]^2 \, u[7]^1 \, u[13]^1 + 435590007854760 \, u[0]^2 \, u[1]^2 \, u[8]^1 \, u[12]^1 + 566577962973000 \, u[0]^2 \, u[1]^2 \, u[9]^1 \, u[11]^1 + 309097605387780 \, u[0]^2 \, u[1]^2 \, u[10]^2 + 449633052 \, u[0]^2 \, u[1]^2 \, u[22]^1 + 47506219054487629920 \, u[0]^2 \, u[1]^3 \, u[2]^1 \, u[3]^1 \, u[4]^2 + 273423991271238720 \, u[0]^2 \, u[1]^3 \, u[2]^1 \, u[3]^1 \, u[10]^1 + 39320330132367915840 \, u[0]^2 \, u[1]^3 \, u[2]^1 \, u[3]^2 \, u[5]^1 + 6085344448860848000 \, u[0]^2 \, u[1]^3 \, u[2]^1 \, u[4]^1 \, u[9]^1 + 1021031041987598400 \, 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\, u[1]^3 \, u[4]^1 \, u[13]^1 + 1416739407398251200 \, u[0]^2 \, u[1]^3 \, u[4]^2 \, u[7]^1 + 3343236775156080 \, u[0]^2 \, u[1]^3 \, u[5]^1 \, u[12]^1 + 741587163676579440 \, u[0]^2 \, u[1]^3 \, u[5]^3 + 6228102686295600 \, u[0]^2 \, u[1]^3 \, u[6]^1 \, u[11]^1 + 9359666638732080 \, u[0]^2 \, u[1]^3 \, u[7]^1 \, u[10]^1 + 11449755399891600 \, u[0]^2 \, u[1]^3 \, u[8]^1 \, u[9]^1 + 65148732000 \, u[0]^2 \, u[1]^3 \, u[19]^1 + 3933222211498963680 \, u[0]^2 \, u[1]^4 \, u[2]^1 \, u[3]^1 \, u[7]^1 + 6364560877444875600 \, u[0]^2 \, u[1]^4 \, u[2]^1 \, u[4]^1 \, u[6]^1 + 3725460162271865160 \, u[0]^2 \, u[1]^4 \, u[2]^1 \, u[5]^2 + 4984290325392840 \, u[0]^2 \, u[1]^4 \, u[2]^1 \, u[12]^1 + 3777166644911736 5160 \, u[0]^2 \, u[1]^4 \, u[2]^2 \, u[3]^2 + 8556264423665 12520 \, u[0]^2 \, u[1]^4 \, u[2]^2 \, u[8]^1 + 19906082608562005680 \, u[0]^2 \, u[1]^4 \, u[2]^3 \, u[4]^1 + 11367922292617215600 \, u[0]^2 \, u[1]^4 \, u[3]^1 \, u[4]^1 \, u[5]^1 + 16449544800869400 \, u[0]^2 \, u[1]^4 \, u[3]^1 \, u[11]^1 + 4019816891686246200 \, u[0]^2 \, u[1]^4 \, u[3]^2 \, u[6]^1 + 39865576001387400 \, u[0]^2 \, u[1]^4 \, u[4]^1 \, u[10]^1 + 2288428093638106200 \, u[0]^2 \, u[1]^4 \, u[4]^3 + 73517108679847800 \, u[0]^2 \, u[1]^4 \, u[5]^1 \, u[9]^1 + 105361403357291400 \, u[0]^2 \, u[1]^4 \, u[6]^1 \, u[8]^1 + 59325898893424020 \, u[0]^2 \, u[1]^4 \, u[7]^2 + 5033834259300 \, u[0]^2 \, u[1]^4 \, u[16]^1 + 1740586949659316800 \, u[0]^2 \, u[1]^5 \, u[2]^1 \, u[3]^1 \, u[4]^1 + 9836462920533 4800 \, u[0]^2 \, u[1]^5 \, u[2]^1 \, u[9]^1 + 5699786436215776080 \, u[0]^2 \, u[1]^5 \, u[2]^2 \, u[5]^1 + 250691381953452000 \, u[0]^2 \, u[1]^5 \, u[3]^1 \, u[8]^1 + 3668740467598245600 \, u[0]^2 \, u[1]^5 \, u[3]^3 + 456217775748028800 \, u[0]^2 \, u[1]^5 \, u[4]^1 \, u[7]^1 + 611268687053125200 \, u[0]^2 \, u[1]^5 \, u[6]^1 \, u[6]^1 + 207208265556600 \, u[0]^2 \, u[1]^5 \, u[13]^1 + 776644887996608400 \, u[0]^2 \, u[1]^6 \, u[2]^1 \, u[6]^1 + 2810954747175054480 \, u[0]^2 \, u[1]^6 \, u[2]^3 + 1386045865532869200 \, u[0]^2 \, u[1]^6 \, u[3]^1 \, u[5]^1 + 836759743248231000 \, u[0]^2 \, u[1]^6 \, u[4]^2 + 4301124074893800 \, u[0]^2 \, u[1]^6 \, u[10]^1 + 1752048307258048800 \, u[0]^2 \, u[1]^7 \, u[2]^1 \, u[3]^1 + 39751706252966400 \, u[0]^2 \, u[1]^7 \, u[7]^1 + 126082352120224500 \, u[0]^2 \, u[1]^8 \, u[4]^1 + 6949420983004500 \, u[0]^2 \, u[1]^{10} + 13656313458042282720 \, u[0]^2 \, u[2]^1 \, u[3]^1 \, u[4]^1 \, u[5]^1 \, u[6]^1 + 5576293531559520 \, u[0]^2 \, u[2]^1 \, u[3]^1 \, u[4]^1 \, u[13]^1 + 5086529977161504960 \, u[0]^2 \, u[2]^1 \, u[3]^1 \, u[4]^2 \, u[7]^1 + 13110143616369360 \, u[0]^2 \, u[2]^1 \, u[3]^1 \, u[5]^1 \, u[12]^1 + 2666463160174078320 \, u[0]^2 \, u[2]^1 \, u[3]^1 \, u[5]^3 + 24472353944459520 \, u[0]^2 \, u[2]^1 \, u[3]^1 \, u[6]^1 \, u[11]^1 + 36825077697708960 \, u[0]^2 \, u[2]^1 \, u[3]^1 \, u[7]^1 \, u[10]^1 + 45076944019306320 \, u[0]^2 \, u[2]^1 \, u[3]^1 \, u[8]^1 \, u[9]^1 +$

$272973187080 \ u[0]^2 \ u[2]^1 \ u[3]^1 \ u[19]^1 \ + 2784809427905442960 \ u[0]^2 \ u[2]^1 \ u[3]^2 \ u[4]^1 \ u[8]^1 \ + 4211427861973466640 \ u[0]^2 \ u[2]^1 \ u[3]^2 \ u[5]^1 \ u[7]^1 \ + 2412844539506553240 \ u[0]^2 \ u[2]^1 \ u[3]^2 \ u[6]^2 \ + 919180501394760 \ u[0]^2 \ u[2]^1 \ u[3]^2 \ u[14]^1 \ + 457236448904466000 \ u[0]^2 \ u[2]^1 \ u[3]^3 \ u[9]^1 \ + 16102824790210594920 \ u[0]^2 \ u[2]^1 \ u[3]^4 \ u[4]^1 \ + 34540019721828720 \ u[0]^2 \ u[2]^1 \ u[4]^1 \ u[5]^1 \ u[11]^1 \ + 59539428560026800 \ u[0]^2 \ u[2]^1 \ u[4]^1 \ u[6]^1 \ u[10]^1 \ + 82123078150127520 \ u[0]^2 \ u[2]^1 \ u[4]^1 \ u[7]^1 \ u[9]^1 \ + 45670322063080440 \ u[0]^2 \ u[2]^1 \ u[4]^1 \ u[8]^2 \ + 1096859004120 \ u[0]^2 \ u[2]^1 \ u[4]^1 \ u[18]^1 \ + 4831905516861657960 \ u[0]^2 \ u[2]^1 \ u[4]^2 \ u[5]^2 \ + 7903945951343640 \ u[0]^2 \ u[2]^1 \ u[4]^2 \ u[12]^1 \ + 2749483723382914320 \ u[0]^2 \ u[2]^1 \ u[4]^3 \ u[6]^1 \ + 110123731354673520 \ u[0]^2 \ u[2]^1 \ u[5]^1 \ u[6]^1 \ u[9]^1 \ + 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\ + 6712376373178003440 \ u[0]^2 \ u[2]^3 \ u[4]^3 \ + 2380563982714183 \dots \ u[0]^2 \ u[2]^3 \ u[5]^1 \ u[9]^1 \ + 341649473522757840 \ u[0]^2 \ u[2]^3 \ u[6]^1 \ u[8]^1 \ + 192459831422348840 \ u[0]^2 \ u[2]^3 \ u[7]^2 \ + 17512381446120 \ u[0]^2 \ u[2]^3 \ u[16]^1 \ + 2870957469208807440 \ u[0]^2 \ u[2]^4 \ u[3]^1 \ u[7]^1 \ + 4654954177084296360 \ u[0]^2 \ u[2]^4 \ u[4]^1 \ u[6]^1 \ + 2726505307747989900 \ u[0]^2 \ u[2]^4 \ u[5]^2 \ + 3991914577448820 \ u[0]^2 \ u[2]^4 \ u[12]^1 \ + 9797248197296322840 \ u[0]^2 \ u[2]^5 \ u[3]^2 \ + 249022901242728360 \ u[0]^2 \ u[2]^5 \ u[8]^1 \ + 2580367166559392760 \ u[0]^2 \ u[2]^6 \ u[4]^1 \ + 105895720964032560 \ u[0]^2 \ u[3]^1 \ u[4]^1 \ u[5]^1 \ u[10]^1 \ + 167358623628525120 \ u[0]^2 \ u[3]^1 \ u[4]^1 \ u[6]^1 \ u[9]^1 \ + 209769134142641040 \ u[0]^2 \ u[3]^1 \ u[4]^1 \ u[7]^1 \ u[8]^1 \ + 5266025408160 \ u[0]^2 \ u[3]^1 \ u[4]^1 \ u[17]^1 \ + 2623181404061196 \dots \ u[0]^2 \ u[3]^1 \ u[4]^2 \ u[11]^1 \ + 4915459826006011920 \ u[0]^2 \ 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u[0]^2 \ u[4]^2 \ u[6]^1 \ u[8]^1 \ + 95676801125338620 \ u[0]^2 \ u[4]^2 \ u[7]^2 \ + 9556263432540 \ u[0]^2 \ u[4]^2 \ u[16]^1 \ + 21293987075313480 \ u[0]^2 \ u[4]^3 \ u[10]^1 \ + 296990113497917796 \ u[0]^2 \ u[4]^5 \ + 315040714447536 \ u[0]^2 \ u[5]^1 \ u[6]^1 \ u[13]^1 \ + 553285174473504 \ u[0]^2 \ u[5]^1 \ u[7]^1 \ u[12]^1 \ + 801001763862696 \ u[0]^2 \ u[5]^1 \ u[8]^1 \ u[11]^1 \ + 962261533701864 \ u[0]^2 \ u[5]^1 \ u[9]^1 \ u[10]^1 \ + 1541615988 \ u[0]^2 \ u[5]^1 \ u[21]^1 \ + 172294815266309340 \ u[0]^2 \ u[5]^2 \ u[6]^2 \ + 73137487748292 \ u[0]^2 \ u[5]^2 \ u[14]^1 \ + 100238450484949920 \ u[0]^2 \ u[5]^3 \ u[7]^1 \ + 1033360686015768 \ u[0]^2 \ u[6]^1 \ u[7]^1 \ u[11]^1 \ + 1380785300051256 \ u[0]^2 \ u[6]^1 \ u[8]^1 \ u[10]^1 \ + 759967447324140 \ u[0]^2 \ u[6]^1 \ u[9]^2 \ + 4845095772 \ u[0]^2 \ u[6]^1 \ u[20]^1 \ + 316777724536284 \ u[0]^2 \ u[6]^2 \ u[12]^1 \ + 1904694754624200 \ u[0]^2 \ u[7]^1 \ u[8]^1 \ u[9]^1 \ + 12718361568 \ u[0]^2 \ u[7]^1 \ u[19]^1 \ + 777822869952612 \ u[0]^2 \ u[7]^2 \ u[10]^1 \ + 28263038892 \ u[0]^2 \ u[8]^1 \ u[18]^1 \ + 353093837588580 \ u[0]^2 \ u[8]^3 \ + 53699762028 \ u[0]^2 \ u[9]^1 \ u[17]^1 \ + 87872348652 \ u[0]^2 \ u[10]^1 \ u[16]^1 \ + 124485817368 \ u[0]^2 \ u[11]^1 \ u[15]^1 \ + 153213322812 \ u[0]^2 \ u[12]^1 \ u[14]^1 \ + 82078561554 \ u[0]^2 \ u[13]^2 \ + 2046 \ u[0]^2 \ u[28]^1 \ + 2078620139795200320 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[4]^1 \ u[8]^1 \ + 3138927793321362240 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[5]^1 \ u[7]^1 \ + 1797546709282785120 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[6]^2 \ + 637639148884320 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[3]^1 \ u[14]^1 \ + 513194795705671200 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[3]^2 \ u[9]^1 \ + 26473639410560738880 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[3]^3 \ u[4]^1 \ + 5080975988025780480 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[4]^1 \ u[5]^1 \ u[6]^1 \ + 1927001619940320 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[4]^1 \ u[13]^1 \ + 1894424775810716160 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[4]^2 \ u[7]^1 \ + 4518142002190080 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[5]^1 \ u[12]^1 \ + 991536073192938240 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[5]^3 \ + 8417932069963680 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[6]^1 \ u[11]^1 \ + 12651761901350880 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[7]^1 \ u[10]^1 \ + 15477786218236320 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[8]^1 \ u[9]^1 \ + 88822998000 \ u[0]^3 \ u[1]^1 \ u[2]^1 \ u[19]^1 \ + 31422132908268791040 \ u[0]^3 \ u[1]^1 \ u[2]^2 \ u[3]^1 \ u[4]^2 \ + 182951918477396640 \ u[0]^3 \ u[1]^1 \ u[2]^2 \ u[3]^1 \ u[10]^1 \ + 26009870589143733600 \ u[0]^3 \ u[1]^1 \ u[2]^2 \ u[3]^2 \ u[5]^1 \ + 407157992275300000 \ u[0]^3 \ u[1]^1 \ u[2]^2 \ u[4]^1 \ u[9]^1 \ + 6831533332926244 \dots \ u[0]^3 \ u[1]^1 \ u[2]^2 \ u[5]^1 \ u[8]^1 \ + 881104159065255840 \ u[0]^3 \ u[1]^1 \ u[2]^2 \ u[6]^1 \ u[7]^1 \ + 78870322333440 \ u[0]^3 \ u[1]^1 \ u[2]^2 \ u[15]^1 \ + 9705825329400509760 \ u[0]^3 \ u[1]^1 \ u[2]^3 \ u[3]^1 \ u[6]^1 \ + 13725417955824643200 \ u[0]^3 \ u[1]^1 \ u[2]^3 \ u[4]^1 \ u[5]^1 \ + 19968998568409440 \ u[0]^3 \ u[1]^1 \ u[2]^3 \ u[11]^1 \ + 1187248831839723840 \ u[0]^3 \ u[1]^1 \ u[2]^4 \ u[7]^1 \ + 9062070563053838880 \ u[0]^3 \ u[1]^1 \ u[2]^5 \ u[3]^1 \ + 4531820861429854080 \ u[0]^3 \ u[1]^1 \ u[3]^1 \ u[4]^1 \ u[5]^2 \ + 6847052187666240 \ u[0]^3 \ u[1]^1 \ u[3]^1 \ u[4]^1 \ u[12]^1 \ + 3869901731248407360 \ u[0]^3 \ u[1]^1 \ u[3]^1 \ u[4]^2 \ u[6]^1 \ + 14926664414566080 \ u[0]^3 \ u[1]^1 \ u[3]^1 \ u[5]^1 \ u[11]^1 \ + 25690787146886400 \ u[0]^3 \ u[1]^1 \ u[3]^1 \ u[6]^1 \ u[10]^1 \ + 35403909316744320 \ u[0]^3 \ u[1]^1 \ u[3]^1 \ u[7]^1 \ u[9]^1 \ + 19683101838042720 \ u[0]^3 \ u[1]^1 \ u[3]^1 \ u[8]^2 \ + 445510525680 \ u[0]^3 \ u[1]^1 \ u[3]^1 \ u[18]^1 \ + 2389709637246898560 \ u[0]^3 \ u[1]^1 \ u[3]^2 \ u[4]^1 \ u[7]^1 \ + 3205089690628367520 \ u[0]^3 \ u[1]^1 \ u[3]^2 \ u[5]^1 \ u[6]^1 \ + 1211429685256560 \ u[0]^3 \ u[1]^1 \ u[3]^2 \ u[13]^1 \ + 436889404872909120 \ u[0]^3 \ u[1]^1 \ u[3]^3 \ u[8]^1 \ + 1673205971168017440 \ u[0]^3 \ u[1]^1 \ u[4]^1 \ u[5]^1 \ u[7]^1 \ + 57191004824606400 \ u[0]^3 \ u[1]^1 \ u[4]^1 \ u[6]^1 \ u[9]^1 \ + 71635963350114240 \ u[0]^3 \ u[1]^1 \ u[4]^1 \ u[7]^1 \ u[8]^1 \ + 1697006987280 \ u[0]^3 \ u[1]^1 \ u[4]^1 \ u[17]^1 \ + 8996261593255200 \ u[0]^3 \ u[1]^1 \ u[4]^2 \ u[11]^1 \ + 1824211339400297760 \ u[0]^3 \ u[1]^1 \ u[4]^3 \ u[5]^1 \ + 96005737775127840 \ u[0]^3 \ u[1]^1 \ u[5]^1 \ u[6]^1 \ u[8]^1 \ + 54075642213112080 \ u[0]^3 \ u[1]^1 \ u[5]^1 \ u[7]^2 \ + 5098924250640 \ u[0]^3 \ u[1]^1 \ u[5]^1 \ u[16]^1 \ + 33462442995587760 \ u[0]^3 \ u[1]^1 \ u[5]^2 \ u[9]^1 \ + 12396757047840 \ u[0]^3 \ u[1]^1 \ u[6]^1 \ u[15]^1 \ + 61931191396477920 \ u[0]^3 \ u[1]^1 \ u[6]^2 \ u[7]^1 \ + 24812477242080 \ u[0]^3 \ u[1]^1 \ u[7]^1 \ u[14]^1 \ + 41375712863760 \ u[0]^3 \ u[1]^1 \ u[8]^1 \ u[13]^1 \ + 57944784577680 \ u[0]^3 \ u[1]^1 \ u[9]^1 \ u[12]^1 \ + 68490895178640 \ u[0]^3 \ u[1]^1 \ u[10]^1 \ u[11]^1 \ + 25632288 \ u[0]^3 \ u[1]^1 \ u[23]^1 \ + 30109961289868796160 \ u[0]^3 \ u[1]^2 \ u[2]^1 \ u[3]^1 \ u[4]^1 \ u[5]^1 \ + 44074360833893280 \ u[0]^3 \ u[1]^2 \ u[2]^1 \ u[3]^1 \ u[11]^1 \ + 10648758208074354720 \ u[0]^3 \ u[1]^2 \ u[2]^1 \ u[3]^2 \ u[6]^1 \ + 106812260631315360 \ u[0]^3 \ u[1]^2 \ u[2]^1 \ u[4]^1 \ u[10]^1 \ +$

$$
\begin{aligned}
& 6060755133750667680\ u[0]^3\ u[1]^2\ u[2]^1\ u[4]^3 + 196982816107920480\ u[0]^3\ u[1]^2\ u[2]^1\ u[5]^1\ u[9]^1 + 282322669804227360 \\
& u[0]^3\ u[1]^2\ u[2]^1\ u[6]^1\ u[8]^1 + 158970406507553520\ u[0]^3\ u[1]^2\ u[2]^1\ u[7]^2 + 13622201136720\ u[0]^3\ u[1]^2\ u[2]^1\ u[16]^1 + \\
& 5213249611470743040\ u[0]^3\ u[1]^2\ u[2]^2\ u[3]^1\ u[7]^1 + 8434723469161286880\ u[0]^3\ u[1]^2\ u[2]^2\ u[4]^1\ u[6]^1 + \\
& 4936944010692553200\ u[0]^3\ u[1]^2\ u[2]^2\ u[5]^2 + 6680839324206960\ u[0]^3\ u[1]^2\ u[2]^2\ u[12]^1 + 32995446232881892320\ u[0]^3 \\
& u[1]^2\ u[2]^3\ u[3]^2 + 756564518658162720\ u[0]^3\ u[1]^2\ u[2]^3\ u[8]^1 + 13049477141417552880\ u[0]^3\ u[1]^2\ u[2]^4\ u[4]^1 + \\
& 2992739683355076000\ u[0]^3\ u[1]^2\ u[3]^1\ u[4]^1\ u[9]^1 + 502064747796918240\ u[0]^3\ u[1]^2\ u[3]^1\ u[5]^1\ u[8]^1 + \\
& 647501506891446240\ u[0]^3\ u[1]^2\ u[3]^1\ u[6]^1\ u[7]^1 + 58310350845120\ u[0]^3\ u[1]^2\ u[3]^1\ u[15]^1 + 11483782337919410640\ u[0]^3 \\
& u[1]^2\ u[3]^2\ u[4]^2 + 67259951613542160\ u[0]^3\ u[1]^2\ u[3]^2\ u[10]^1 + 6338331047076351840\ u[0]^3\ u[1]^2\ u[3]^3\ u[5]^1 + \\
& 914395007874147360\ u[0]^3\ u[1]^2\ u[4]^1\ u[5]^1\ u[7]^1 + 523591153069762800\ u[0]^3\ u[1]^2\ u[4]^1\ u[6]^2 + 187519588938000\ u[0]^3 \\
& u[1]^2\ u[4]^1\ u[14]^1 + 302850426773017200\ u[0]^3\ u[1]^2\ u[4]^2\ u[8]^1 + 470304844344720\ u[0]^3\ u[1]^2\ u[5]^1\ u[13]^1 + \\
& 612901754839115280\ u[0]^3\ u[1]^2\ u[5]^2\ u[6]^1 + 942646394693520\ u[0]^3\ u[1]^2\ u[6]^1\ u[12]^1 + 1533918343723920\ u[0]^3\ u[1]^2 \\
& u[7]^1\ u[11]^1 + 2046813876130320\ u[0]^3\ u[1]^2\ u[8]^1\ u[10]^1 + 1126028458863000\ u[0]^3\ u[1]^2\ u[9]^2 + 6283470600\ u[0]^3\ u[1]^2 \\
& u[20]^1 + 1108922444676192960\ u[0]^3\ u[1]^3\ u[2]^1\ u[3]^1\ u[8]^1 + 1603160225331480 2880\ u[0]^3\ u[1]^3\ u[2]^1\ u[3]^3 + \\
& 2017821742650711360\ u[0]^3\ u[1]^3\ u[2]^1\ u[4]^1\ u[7]^1 + 2703492600793174080\ u[0]^3\ u[1]^3\ u[2]^1\ u[5]^1\ u[6]^1 + 926778036159360 \\
& u[0]^3\ u[1]^3\ u[2]^1\ u[13]^1 + 38051391549986432640\ u[0]^3\ u[1]^3\ u[2]^2\ u[3]^1\ u[4]^1 + 217693567707660000\ u[0]^3\ u[1]^3\ u[2]^2 \\
& u[9]^1 + 8312489704308430080\ u[0]^3\ u[1]^3\ u[2]^3\ u[5]^1 + 4117278469735252800\ u[0]^3\ u[1]^3\ u[3]^1\ u[4]^1\ u[6]^1 + \\
& 2409709549574543040\ u[0]^3\ u[1]^3\ u[3]^1\ u[5]^2 + 3281398175468160\ u[0]^3\ u[1]^3\ u[3]^1\ u[12]^1 + 1272778005577224960\ u[0]^3 \\
& u[1]^3\ u[3]^2\ u[7]^1 + 8596530405144000\ u[0]^3\ u[1]^3\ u[4]^1\ u[11]^1 + 2909105530929338400\ u[0]^3\ u[1]^3\ u[4]^2\ u[5]^1 + \\
& 17273739718382400\ u[0]^3\ u[1]^3\ u[5]^1\ u[10]^1 + 27220532347641600\ u[0]^3\ u[1]^3\ u[6]^1\ u[9]^1 + 34070061924423360\ u[0]^3\ u[1]^3 \\
& u[7]^1\ u[8]^1 + 744297562800\ u[0]^3\ u[1]^3\ u[17]^1 + 9100971081770847840\ u[0]^3\ u[1]^4\ u[2]^1\ u[3]^1\ u[5]^1 + 5493737165277121200 \\
& u[0]^3\ u[1]^4\ u[2]^1\ u[4]^2 + 28590705555073200\ u[0]^3\ u[1]^4\ u[2]^1\ u[10]^1 + 2551614535180188720\ u[0]^3\ u[1]^4\ u[2]^2\ u[6]^1 + \\
& 4564977601109931720\ u[0]^3\ u[1]^4\ u[2]^4 + 79884319270536000\ u[0]^3\ u[1]^4\ u[3]^1\ u[9]^1 + 6940317476238656400\ u[0]^3\ u[1]^4 \\
& u[3]^2\ u[4]^1 + 161313190268590800\ u[0]^3\ u[1]^4\ u[4]^1\ u[8]^1 + 243181837137492000\ u[0]^3\ u[1]^4\ u[5]^1\ u[7]^1 + \\
& 139181961181289400\ u[0]^3\ u[1]^4\ u[6]^2 + 45219966283800\ u[0]^3\ u[1]^4\ u[14]^1 + 366155572965336000\ u[0]^3\ u[1]^5\ u[2]^1\ u[7]^1 + \\
& 7970647034883836160\ u[0]^3\ u[1]^5\ u[2]^2\ u[3]^1 + 745979233134960000\ u[0]^3\ u[1]^5\ u[3]^1\ u[6]^1 + 1053168964100589600\ u[0]^3 \\
& u[1]^5\ u[4]^1\ u[5]^1 + 1383268422967200\ u[0]^3\ u[1]^5\ u[11]^1 + 1531303409401365600\ u[0]^3\ u[1]^6\ u[2]^1\ u[4]^1 + \\
& 967252817259471600\ u[0]^3\ u[1]^6\ u[3]^2 + 19524717991455600\ u[0]^3\ u[1]^6\ u[8]^1 + 104692575847860000\ u[0]^3\ u[1]^7\ u[5]^1 + \\
& 134355472338087000\ u[0]^3\ u[1]^8\ u[2]^1 + 30711457901963520\ u[0]^3\ u[2]^1\ u[3]^1\ u[4]^1\ u[11]^1 + 9423635692727926560\ u[0]^3 \\
& u[2]^1\ u[3]^1\ u[4]^2\ u[5]^1 + 61874241360650400\ u[0]^3\ u[2]^1\ u[3]^1\ u[5]^1\ u[10]^1 + 97669170281490720\ u[0]^3\ u[2]^1\ u[3]^1\ u[6]^1 \\
& u[9]^1 + 122346935310927360\ u[0]^3\ u[2]^1\ u[3]^1\ u[7]^1\ u[8]^1 + 2871777466800\ u[0]^3\ u[2]^1\ u[3]^1\ u[17]^1 + 66609002067156 22560 \\
& u[0]^3\ u[2]^1\ u[3]^2\ u[4]^1\ u[6]^1 + 3900683797087416240\ u[0]^3\ u[2]^1\ u[3]^2\ u[5]^2 + 5839949787796080\ u[0]^3\ u[2]^1\ u[3]^2 \\
& u[12]^1 + 1370334899321942400\ u[0]^3\ u[2]^1\ u[3]^3\ u[7]^1 + 137887591446332640\ u[0]^3\ u[2]^1\ u[4]^1\ u[5]^1\ u[9]^1 + \\
& 197854153555718880\ u[0]^3\ u[2]^1\ u[4]^1\ u[6]^1\ u[8]^1 + 111450413369045520\ u[0]^3\ u[2]^1\ u[4]^1\ u[7]^2 + 10388075678640\ u[0]^3 \\
& u[2]^1\ u[4]^1\ u[16]^1 + 37312322166464400\ u[0]^3\ u[2]^1\ u[4]^2\ u[10]^1 + 948693237177807000\ u[0]^3\ u[2]^1\ u[4]^4 + \\
& 298885534332084480\ u[0]^3\ u[2]^1\ u[5]^1\ u[6]^1\ u[7]^1 + 29529492268320\ u[0]^3\ u[2]^1\ u[5]^1\ u[15]^1 + 115802602616165520\ u[0]^3 \\
& u[2]^1\ u[5]^2\ u[8]^1 + 67654712983440\ u[0]^3\ u[2]^1\ u[6]^1\ u[14]^1 + 57061650821046960\ u[0]^3\ u[2]^1\ u[6]^3 + 127059814102320 \\
& u[0]^3\ u[2]^1\ u[7]^1\ u[13]^1 + 197862862699920\ u[0]^3\ u[2]^1\ u[8]^1\ u[12]^1 + 257380363775040\ u[0]^3\ u[2]^1\ u[9]^1\ u[11]^1 + \\
& 140417621748360\ u[0]^3\ u[2]^1\ u[10]^2 + 205770312\ u[0]^3\ u[2]^1\ u[22]^1 + 3257460364164130080\ u[0]^3\ u[2]^2\ u[3]^1\ u[4]^1\ u[7]^1 + \\
& 4369429541976148320\ u[0]^3\ u[2]^2\ u[3]^1\ u[5]^1\ u[6]^1 + 1641733243753680\ u[0]^3\ u[2]^2\ u[3]^1\ u[13]^1 + 893019375288852240 \\
& u[0]^3\ u[2]^2\ u[3]^2\ u[8]^1 + 5729984739759745080\ u[0]^3\ u[2]^2\ u[3]^4 + 3089830035698215920\ u[0]^3\ u[2]^2\ u[4]^1\ u[5]^2 + \\
& 4641003831364560\ u[0]^3\ u[2]^2\ u[4]^1\ u[12]^1 + 2638360228921393680\ u[0]^3\ u[2]^2\ u[4]^2\ u[6]^1 + 10118793818715120\ u[0]^3\ u[2]^2 \\
& u[5]^1\ u[11]^1 + 17417008237962960\ u[0]^3\ u[2]^2\ u[6]^1\ u[10]^1 + 24002584843414320\ u[0]^3\ u[2]^2\ u[7]^1\ u[9]^1 + \\
& 133445722659773960\ u[0]^3\ u[2]^2\ u[8]^2 + 300357014760\ u[0]^3\ u[2]^2\ u[18]^1 + 232976132672210400\ u[0]^3\ u[2]^3\ u[3]^1\ u[9]^1 + \\
& 18128007641953054560\ u[0]^3\ u[2]^3\ u[3]^2\ u[4]^1 + 471975397325060640\ u[0]^3\ u[2]^3\ u[4]^1\ u[8]^1 + 7128225582226900 80\ u[0]^3 \\
& u[2]^3\ u[5]^1\ u[7]^1 + 408228323540492400\ u[0]^3\ u[2]^3\ u[6]^2 + 143941362393840\ u[0]^3\ u[2]^3\ u[14]^1 + 5934403614932472240 \\
& u[0]^3\ u[2]^4\ u[3]^1\ u[5]^1 + 3585384352640020920\ u[0]^3\ u[2]^4\ u[4]^2 + 20752001105625240\ u[0]^3\ u[2]^4\ u[10]^1 + \\
& 664042536234366960\ u[0]^3\ u[2]^5\ u[6]^1 + 296576563515310320\ u[0]^3\ u[2]^7 + 352094800043991840\ u[0]^3\ u[3]^1\ u[4]^1\ u[5]^1 \\
& u[8]^1 + 454441357616125440\ u[0]^3\ u[3]^1\ u[4]^1\ u[6]^1\ u[7]^1 + 44643371525280\ u[0]^3\ u[3]^1\ u[4]^1\ u[15]^1 + 104777868472860000 \\
& u[0]^3\ u[3]^1\ u[4]^2\ u[9]^1 + 304785838436838000\ u[0]^3\ u[3]^1\ u[5]^1\ u[6]^2 + 119621860504080\ u[0]^3\ u[3]^1\ u[5]^1\ u[14]^1 + \\
& 266044390820271360\ u[0]^3\ u[3]^1\ u[5]^2\ u[7]^1 + 257215965874560\ u[0]^3\ u[3]^1\ u[6]^1\ u[13]^1 + 451191874848000\ u[0]^3\ u[3]^1 \\
& u[7]^1\ u[12]^1 + 652690639626960\ u[0]^3\ u[3]^1\ u[8]^1\ u[11]^1 + 783790363387680\ u[0]^3\ u[3]^1\ u[9]^1\ u[10]^1 + 1182645288\ u[0]^3 \\
& u[3]^1\ u[21]^1 + 46991238309055920\ u[0]^3\ u[3]^2\ u[4]^1\ u[10]^1 + 2396336748931590960\ u[0]^3\ u[3]^2\ u[4]^3 + 86844088132214160 \\
& u[0]^3\ u[3]^2\ u[5]^1\ u[9]^1 + 124623429425465520\ u[0]^3\ u[3]^2\ u[6]^1\ u[8]^1 + 70202060939845560\ u[0]^3\ u[3]^2\ u[7]^2 + \\
& 6520537223640\ u[0]^3\ u[3]^2\ u[16]^1 + 3966842522054644320\ u[0]^3\ u[3]^3\ u[4]^1\ u[5]^1 + 6444382620859920\ u[0]^3\ u[3]^3\ u[11]^1 + \\
& 700838307240164280\ u[0]^3\ u[3]^4\ u[6]^1 + 362337880766400\ u[0]^3\ u[4]^1\ u[5]^1\ u[13]^1 + 430783063263286800\ u[0]^3\ u[4]^1\ u[5]^2 \\
& u[6]^1 + 727771854746640\ u[0]^3\ u[4]^1\ u[6]^1\ u[12]^1 + 1185987489152400\ u[0]^3\ u[4]^1\ u[7]^1\ u[11]^1 + 1583897655096240\ u[0]^3 \\
& u[4]^1\ u[8]^1\ u[10]^1 + 871605683758920\ u[0]^3\ u[4]^1\ u[9]^2 + 5204066472\ u[0]^3\ u[4]^1\ u[20]^1 + 321097824356559360\ u[0]^3\ u[4]^2 \\
& u[5]^1\ u[7]^1 + 183935738283307560\ u[0]^3\ u[4]^2\ u[6]^2 + 72034346578920\ u[0]^3\ u[4]^2\ u[14]^1 + 708172221112777 840\ u[0]^3\ u[4]^3 \\
& u[8]^1 + 1588491855862560\ u[0]^3\ u[5]^1\ u[6]^1\ u[11]^1 + 2389921192158720\ u[0]^3\ u[5]^1\ u[7]^1\ u[10]^1 + 2925283294462320\ u[0]^3 \\
& u[5]^1\ u[8]^1\ u[9]^1 + 18213876648\ u[0]^3\ u[5]^1\ u[19]^1 + 425633627373240\ u[0]^3\ u[5]^2\ u[12]^1 + 42039688356108300\ u[0]^3\ u[5]^4 \\
& + 3773654283413520\ u[0]^3\ u[6]^1\ u[7]^1\ u[9]^1 + 2098432943113320\ u[0]^3\ u[6]^1\ u[8]^2 + 52039952712\ u[0]^3\ u[6]^1\ u[18]^1 + \\
& 1368333982779720\ u[0]^3\ u[6]^2\ u[10]^1 + 123594620688\ u[0]^3\ u[7]^1\ u[17]^1 + 2364022035253560\ u[0]^3\ u[7]^2\ u[8]^1 + \\
& 247189478712\ u[0]^3\ u[8]^1\ u[16]^1 + 420221900208\ u[0]^3\ u[9]^1\ u[15]^1 + 611232049032\ u[0]^3\ u[10]^1\ u[14]^1 + 764039883288 \\
& u[0]^3\ u[11]^1\ u[13]^1 + 411406173156\ u[0]^3\ u[12]^2 + 39556\ u[0]^3\ u[26]^1 + 4130561455906691520\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^1 \\
& u[4]^1\ u[6]^1 + 2417329673099106480\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^1\ u[5]^2 + 3329723475642960\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^1\ u[12]^1 + \\
& 1277035386981393000\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^2\ u[7]^1 + 8723394409926240\ u[0]^4\ u[1]^1\ u[2]^1\ u[4]^1\ u[11]^1 + \\
& 2918098203845631840\ u[0]^4\ u[1]^1\ u[2]^1\ u[4]^2\ u[5]^1 + 17529887800418400\ u[0]^4\ u[1]^1\ u[2]^1\ u[5]^1\ u[10]^1 + \\
& 27626715097201440\ u[0]^4\ u[1]^1\ u[2]^1\ u[6]^1\ u[9]^1 + 34580088349392960\ u[0]^4\ u[1]^1\ u[2]^1\ u[7]^1\ u[8]^1 + 762720769800\ u[0]^4 \\
& u[1]^1\ u[2]^1\ u[17]^1 + 556725038174743680\ u[0]^4\ u[1]^1\ u[2]^2\ u[3]^1\ u[8]^1 + 7950375949762033920\ u[0]^4\ u[1]^1\ u[2]^2\ u[3]^3 + \\
& 1012932826088150880\ u[0]^4\ u[1]^1\ u[2]^2\ u[4]^1\ u[7]^1 + 1357069240627032240\ u[0]^4\ u[1]^1\ u[2]^2\ u[5]^1\ u[6]^1 + 470470489445880 \\
& u[0]^4\ u[1]^1\ u[2]^2\ u[13]^1 + 12588860857095594720\ u[0]^4\ u[1]^1\ u[2]^3\ u[3]^1\ u[4]^1 + 72912826262034000\ u[0]^4\ u[1]^1\ u[2]^3 \\
& u[9]^1 + 2064116207110228920\ u[0]^4\ u[1]^1\ u[2]^4\ u[5]^1 + 26577115025994720\ u[0]^4\ u[1]^1\ u[3]^1\ u[4]^1\ u[10]^1 + \\
& 1481727693906393120\ u[0]^4\ u[1]^1\ u[3]^1\ u[4]^3 + 49007803844894400\ u[0]^4\ u[1]^1\ u[3]^1\ u[5]^1\ u[9]^1 + 70238776371667200\ u[0]^4 \\
& u[1]^1\ u[3]^1\ u[6]^1\ u[8]^1 + 39550032400673520\ u[0]^4\ u[1]^1\ u[3]^1\ u[7]^2 + 3443420209680\ u[0]^4\ u[1]^1\ u[3]^1\ u[16]^1 +
\end{aligned}
$$

3681566854153729200 u[0]^4 u[1]^1 u[3]^2 u[4]^1 u[5]^1 +5485166966957040 u[0]^4 u[1]^1 u[3]^2 u[11]^1 +868363381795583520 u[0]^4 u[1]^1 u[3]^3 u[6]^1 +99091003689794160 u[0]^4 u[1]^1 u[4]^1 u[5]^1 u[8]^1 +127780653329786160 u[0]^4 u[1]^1 u[4]^1 u[6]^1 u[7]^1 +11737793643840 u[0]^4 u[1]^1 u[4]^1 u[15]^1 +29543163658529400 u[0]^4 u[1]^1 u[4]^2 u[9]^1 +85607363329159320 u[0]^4 u[1]^1 u[5]^1 u[6]^2 +31351139816040 u[0]^4 u[1]^1 u[5]^1 u[14]^1 +74761357793577840 u[0]^4 u[1]^1 u[5]^2 u[7]^1 + 67256496402480 u[0]^4 u[1]^1 u[6]^1 u[13]^1 +117785703420000 u[0]^4 u[1]^1 u[7]^1 u[12]^1 +170212746401280 u[0]^4 u[1]^1 u[8]^1 u[11]^1 +204299609635440 u[0]^4 u[1]^1 u[9]^1 u[10]^1 +293703300 u[0]^4 u[1]^1 u[21]^1 +160595279651070000 u[0]^4 u[1]^2 u[2]^1 u[3]^1 u[9]^1 +13780650196929155760 u[0]^4 u[1]^2 u[2]^1 u[3]^2 u[4]^1 +324273803849827920 u[0]^4 u[1]^2 u[2]^1 u[4]^1 u[8]^1 + 488835439317632880 u[0]^4 u[1]^2 u[2]^1 u[5]^1 u[7]^1 +279783185883620760 u[0]^4 u[1]^2 u[2]^1 u[6]^2 +91908958153320 u[0]^4 u[1]^2 u[2]^1 u[14]^1 +9041943828589855920 u[0]^4 u[1]^2 u[2]^2 u[3]^1 u[5]^1 +5457756639795336360 u[0]^4 u[1]^2 u[2]^2 u[4]^2 + 28757612850615000 u[0]^4 u[1]^2 u[2]^2 u[10]^1 +1691411033804904720 u[0]^4 u[1]^2 u[2]^3 u[6]^1 +1795158083751757560 u[0]^4 u[1]^2 u[2]^5 +742978430227812240 u[0]^4 u[1]^2 u[3]^1 u[4]^1 u[7]^1 +995277816217642320 u[0]^4 u[1]^2 u[3]^1 u[5]^1 u[6]^1 +347264924169240 u[0]^4 u[1]^2 u[3]^1 u[13]^1 +204247264882783320 u[0]^4 u[1]^2 u[3]^2 u[8]^1 +1450196760416562180 u[0]^4 u[1]^2 u[3]^4 +702676355393758680 u[0]^4 u[1]^2 u[4]^1 u[5]^2 +977438825815320 u[0]^4 u[1]^2 u[4]^1 u[12]^1 + 600438583938540600 u[0]^4 u[1]^2 u[4]^2 u[6]^1 +2124663716557800 u[0]^4 u[1]^2 u[5]^1 u[11]^1 +3649803115563000 u[0]^4 u[1]^2 u[6]^1 u[10]^1 +5024142915489720 u[0]^4 u[1]^2 u[7]^1 u[9]^1 +2792211304388220 u[0]^4 u[1]^2 u[8]^2 +59568369300 u[0]^4 u[1]^2 u[18]^1 +2473383090526428960 u[0]^4 u[1]^3 u[2]^1 u[3]^1 u[6]^1 +3491399892456622080 u[0]^4 u[1]^3 u[2]^1 u[4]^1 u[5]^1 + 4642802918938800 u[0]^4 u[1]^3 u[2]^1 u[11]^1 +607485117944390400 u[0]^4 u[1]^3 u[2]^2 u[7]^1 +8708382570686024160 u[0]^4 u[1]^3 u[2]^3 u[3]^1 +2658371023932940800 u[0]^4 u[1]^3 u[3]^1 u[4]^2 +14097455191393200 u[0]^4 u[1]^3 u[3]^1 u[10]^1 + 2202546610183780080 u[0]^4 u[1]^3 u[3]^2 u[5]^1 +31254688186326000 u[0]^4 u[1]^3 u[4]^1 u[9]^1 +52316697797060400 u[0]^4 u[1]^3 u[5]^1 u[8]^1 +67399914927906000 u[0]^4 u[1]^3 u[6]^1 u[7]^1 +5639957769600 u[0]^4 u[1]^3 u[15]^1 +4757179311857130840 u[0]^4 u[1]^4 u[2]^1 u[3]^2 +97297447744866600 u[0]^4 u[1]^4 u[2]^1 u[8]^1 +3768169375257910920 u[0]^4 u[1]^4 u[2]^2 u[4]^1 + 222423523040228400 u[0]^4 u[1]^4 u[3]^1 u[7]^1 +358932882804625800 u[0]^4 u[1]^4 u[4]^1 u[6]^1 +209906631009672300 u[0]^4 u[1]^4 u[5]^2 +260792163116100 u[0]^4 u[1]^4 u[12]^1 +722195491917715200 u[0]^4 u[1]^5 u[2]^1 u[5]^1 +1099131609980210400 u[0]^4 u[1]^5 u[3]^1 u[4]^1 +5634515554252200 u[0]^4 u[1]^5 u[9]^1 +611151936733938600 u[0]^4 u[1]^6 u[2]^2 +49472101823067000 u[0]^4 u[1]^6 u[6]^1 +127075126546368000 u[0]^4 u[1]^7 u[3]^1 +101064287353431600 u[0]^4 u[2]^1 u[3]^1 u[4]^1 u[9]^1 + 169546334788393200 u[0]^4 u[2]^1 u[3]^1 u[5]^1 u[8]^1 +218666553603402960 u[0]^4 u[2]^1 u[3]^1 u[6]^1 u[7]^1 +19892150704800 u[0]^4 u[2]^1 u[3]^1 u[15]^1 +3833432266953789720 u[0]^4 u[2]^1 u[3]^2 u[4]^2 +22714375992640200 u[0]^4 u[2]^1 u[3]^2 u[10]^1 + 2115944373779557200 u[0]^4 u[2]^1 u[3]^3 u[5]^1 +308759298460541280 u[0]^4 u[2]^1 u[4]^1 u[5]^1 u[7]^1 +176802086663219160 u[0]^4 u[2]^1 u[4]^1 u[6]^2 +63977902484760 u[0]^4 u[2]^1 u[4]^1 u[14]^1 +102265970015852280 u[0]^4 u[2]^1 u[4]^2 u[8]^1 + 160480871535600 u[0]^4 u[2]^1 u[5]^1 u[13]^1 +206945709555645720 u[0]^4 u[2]^1 u[5]^2 u[6]^1 +321710216560920 u[0]^4 u[2]^1 u[6]^1 u[12]^1 +523564698163320 u[0]^4 u[2]^1 u[7]^1 u[11]^1 +69685386909400 u[0]^4 u[2]^1 u[8]^1 u[10]^1 +384381913669380 u[0]^4 u[2]^1 u[9]^2 +2162724300 u[0]^4 u[2]^1 u[20]^1 +5029117809733900080 u[0]^4 u[2]^2 u[3]^1 u[4]^1 u[5]^1 + 7446823130549880 u[0]^4 u[2]^2 u[3]^1 u[11]^1 +1778832557348057640 u[0]^4 u[2]^2 u[3]^2 u[6]^1 +18047235771611640 u[0]^4 u[2]^2 u[4]^1 u[10]^1 +1012268098356383880 u[0]^4 u[2]^2 u[4]^3 +33283376820124200 u[0]^4 u[2]^2 u[5]^1 u[9]^1 +47706134753443320 u[0]^4 u[2]^2 u[6]^1 u[8]^1 +26862630887262060 u[0]^4 u[2]^2 u[7]^2 +2324640259260 u[0]^4 u[2]^2 u[16]^1 +581018102951140800 u[0]^4 u[2]^3 u[3]^1 u[7]^1 +939978666992748240 u[0]^4 u[2]^3 u[4]^1 u[6]^1 +550127172635175960 u[0]^4 u[2]^3 u[5]^2 + 752992579575720 u[0]^4 u[2]^3 u[12]^1 +2726716075049615220 u[0]^4 u[2]^4 u[3]^2 +63290152008133380 u[0]^4 u[2]^4 u[8]^1 + 863434782122881320 u[0]^4 u[2]^5 u[4]^1 +629430156779490000 u[0]^4 u[3]^1 u[4]^1 u[5]^1 u[6]^1 +242697012022080 u[0]^4 u[3]^1 u[4]^1 u[13]^1 +234719842979334240 u[0]^4 u[3]^1 u[4]^2 u[7]^1 +569030225326200 u[0]^4 u[3]^1 u[5]^1 u[12]^1 + 122814926227766520 u[0]^4 u[3]^1 u[5]^3 +1060261949561760 u[0]^4 u[3]^1 u[6]^1 u[11]^1 +1593639339058800 u[0]^4 u[3]^1 u[7]^1 u[10]^1 +1949695571965680 u[0]^4 u[3]^1 u[8]^1 u[9]^1 +11347627500 u[0]^4 u[3]^1 u[19]^1 +128824476128920440 u[0]^4 u[3]^2 u[4]^1 u[8]^1 +194505374916135360 u[0]^4 u[3]^2 u[5]^1 u[7]^1 +111382316569701540 u[0]^4 u[3]^2 u[6]^2 +40162959724140 u[0]^4 u[3]^2 u[14]^1 +21212237353467600 u[0]^4 u[3]^3 u[9]^1 +806724307527436980 u[0]^4 u[3]^4 u[4]^1 +1493942277199680 u[0]^4 u[4]^1 u[5]^1 u[11]^1 +2571090447012120 u[0]^4 u[4]^1 u[6]^1 u[10]^1 +3543087548765160 u[0]^4 u[4]^1 u[7]^1 u[9]^1 +1969812608617260 u[0]^4 u[4]^1 u[8]^2 +45395850060 u[0]^4 u[4]^1 u[18]^1 +222367178854974780 u[0]^4 u[4]^2 u[5]^2 +342732446783100 u[0]^4 u[4]^2 u[12]^1 +126619977287148840 u[0]^4 u[4]^3 u[6]^1 +4745516965176240 u[0]^4 u[5]^1 u[6]^1 u[9]^1 +5943625771081680 u[0]^4 u[5]^1 u[7]^1 u[8]^1 +143749075140 u[0]^4 u[5]^1 u[17]^1 +1503731264007060 u[0]^4 u[5]^2 u[10]^1 +3833001889293060 u[0]^4 u[6]^1 u[7]^2 +369644293260 u[0]^4 u[6]^1 u[16]^1 +3402850219902540 u[0]^4 u[6]^2 u[8]^1 +785490785640 u[0]^4 u[7]^1 u[15]^1 + 1396431030060 u[0]^4 u[8]^1 u[14]^1 +2094643875060 u[0]^4 u[9]^1 u[13]^1 +2665912813740 u[0]^4 u[10]^1 u[12]^1 +1444034994930 u[0]^4 u[11]^2 +534006 u[0]^4 u[24]^1 +2134717722426088800 u[0]^5 u[1]^1 u[2]^1 u[3]^1 u[4]^2 +11462599077240960 u[0]^5 u[1]^1 u[2]^1 u[3]^1 u[10]^1 +1768738501638535680 u[0]^5 u[1]^1 u[2]^1 u[3]^2 u[5]^1 +25412971735800000 u[0]^5 u[1]^1 u[2]^1 u[4]^1 u[9]^1 +42538542361539840 u[0]^5 u[1]^1 u[2]^1 u[5]^1 u[8]^1 +54804947434047360 u[0]^5 u[1]^1 u[2]^1 u[6]^1 u[7]^1 + 4635770166720 u[0]^5 u[1]^1 u[2]^1 u[15]^1 +994016931439276800 u[0]^5 u[1]^1 u[2]^2 u[3]^1 u[6]^1 +1402982709644910240 u[0]^5 u[1]^1 u[2]^2 u[4]^1 u[5]^1 +1888876881017280 u[0]^5 u[1]^1 u[2]^2 u[11]^1 +162906249890736000 u[0]^5 u[1]^1 u[2]^3 u[7]^1 + 1730238610214426400 u[0]^5 u[1]^1 u[2]^4 u[3]^1 +64512077230656000 u[0]^5 u[1]^1 u[3]^1 u[4]^1 u[8]^1 +97233399588552480 u[0]^5 u[1]^1 u[3]^1 u[5]^1 u[7]^1 +55649600872588800 u[0]^5 u[1]^1 u[3]^1 u[6]^2 +18604982642400 u[0]^5 u[1]^1 u[3]^1 u[14]^1 + 15981142132177200 u[0]^5 u[1]^1 u[3]^2 u[9]^1 +897444278450280000 u[0]^5 u[1]^1 u[3]^3 u[4]^1 +157015107660470400 u[0]^5 u[1]^1 u[4]^1 u[6]^1 u[13]^1 +55969702866000 u[0]^5 u[1]^1 u[4]^1 u[13]^1 +58624855458840000 u[0]^5 u[1]^1 u[4]^2 u[7]^1 + 130810173840720 u[0]^5 u[1]^1 u[5]^1 u[12]^1 +30615784140989520 u[0]^5 u[1]^1 u[5]^3 +243203527393200 u[0]^5 u[1]^1 u[6]^1 u[11]^1 +365044301495280 u[0]^5 u[1]^1 u[7]^1 u[10]^1 +446305874216400 u[0]^5 u[1]^1 u[8]^1 u[9]^1 +2456427600 u[0]^5 u[1]^1 u[19]^1 +357917059349847360 u[0]^5 u[1]^2 u[2]^1 u[3]^1 u[7]^1 +577526934701772000 u[0]^5 u[1]^2 u[2]^1 u[4]^1 u[6]^1 + 337714367559140880 u[0]^5 u[1]^2 u[2]^1 u[5]^2 +424781673014160 u[0]^5 u[1]^2 u[2]^1 u[12]^1 +3780469304917374960 u[0]^5 u[1]^2 u[2]^2 u[3]^2 +78350670151277040 u[0]^5 u[1]^2 u[2]^2 u[8]^1 +1998037061963506080 u[0]^5 u[1]^2 u[2]^3 u[4]^1 + 1026596594565194400 u[0]^5 u[1]^2 u[3]^1 u[4]^1 u[5]^1 +1391436044737200 u[0]^5 u[1]^2 u[3]^1 u[11]^1 +363783493357455600 u[0]^5 u[1]^2 u[3]^2 u[6]^1 +3357732645709200 u[0]^5 u[1]^2 u[4]^1 u[10]^1 +206429639418090000 u[0]^5 u[1]^2 u[4]^3 + 6175142107239600 u[0]^5 u[1]^2 u[5]^1 u[9]^1 +8837040050269200 u[0]^5 u[1]^2 u[6]^1 u[8]^1 +4973488921950120 u[0]^5 u[1]^2 u[7]^2 +404082340200 u[0]^5 u[1]^2 u[16]^1 +2914263640773777600 u[0]^5 u[1]^3 u[2]^1 u[3]^1 u[4]^1 +15140157122613600 u[0]^5 u[1]^3 u[2]^1 u[9]^1 +958222940437081440 u[0]^5 u[1]^3 u[2]^2 u[5]^1 +38319307640380800 u[0]^5 u[1]^3 u[3]^1 u[8]^1 + 612563045079110400 u[0]^5 u[1]^3 u[3]^3 +69488259134184000 u[0]^5 u[1]^3 u[4]^1 u[7]^1 +92946695644360800 u[0]^5 u[1]^3 u[5]^1 u[6]^1 +29730143242800 u[0]^5 u[1]^3 u[13]^1 +197149727579389200 u[0]^5 u[1]^4 u[2]^1 u[6]^1 +802002892415765040 u[0]^5 u[1]^4 u[2]^3 +3499572498809950800 u[0]^5 u[1]^4 u[3]^1 u[5]^1 +210993823143477000 u[0]^5 u[1]^4 u[4]^2 +1002493896049800 u[0]^5 u[1]^4 u[10]^1 +700501635086853600 u[0]^5 u[1]^5 u[2]^1 u[3]^1 +14240411908430400 u[0]^5 u[1]^5 u[7]^1 +67508660977758000 u[0]^5 u[1]^6 u[4]^1 +6949420983004500 u[0]^5 u[1]^8 +2010177791902137760 u[0]^5 u[2]^1 u[3]^1 u[4]^1 u[7]^1 +269263844442141120 u[0]^5 u[2]^1 u[3]^1 u[5]^1 u[6]^1 +95016093424560 u[0]^5 u[2]^1 u[3]^1 u[13]^1 +55264378492216080 u[0]^5 u[2]^1 u[3]^2 u[8]^1 +

$387549541172340360 \; u[0]^5 \; u[2]^1 \; u[3]^4 + 190081719729102960 \; u[0]^5 \; u[2]^1 \; u[4]^1 \; u[5]^2 + 267467136654960 \; u[0]^5 \; u[2]^1 \; u[4]^1 \; u[12]^1 + 162442749023319600 \; u[0]^5 \; u[2]^1 \; u[4]^2 \; u[6]^1 + 581445256059360 \; u[0]^5 \; u[2]^1 \; u[5]^1 \; u[11]^1 + 998961798803760 \; u[0]^5 \; u[2]^1 \; u[6]^1 \; u[10]^1 + 1375218218436480 \; u[0]^5 \; u[2]^1 \; u[7]^1 \; u[9]^1 + 764319167239320 \; u[0]^5 \; u[2]^1 \; u[8]^2 + 16458064920 \; u[0]^5 \; u[2]^1 \; u[18]^1 + 21744169380964800 \; u[0]^5 \; u[2]^2 \; u[3]^1 \; u[9]^1 + 1842864019043279760 \; u[0]^5 \; u[2]^2 \; u[3]^2 \; u[4]^1 + 43905802245837840 \; u[0]^5 \; u[2]^2 \; u[4]^1 \; u[8]^1 + 66182435225232480 \; u[0]^5 \; u[2]^2 \; u[5]^1 \; u[7]^1 + 378812229079125080 \; u[0]^5 \; u[2]^2 \; u[6]^2 + 12581576524440 \; u[0]^5 \; u[2]^2 \; u[14]^1 + 806795344834380000 \; u[0]^5 \; u[2]^3 \; u[3]^1 \; u[5]^1 + 487030180214690640 \; u[0]^5 \; u[2]^3 \; u[4]^2 + 2597947798176720 \; u[0]^5 \; u[2]^3 \; u[10]^1 + 113311960445989800 \; u[0]^5 \; u[2]^4 \; u[6]^1 + 79314444852924600 \; u[0]^5 \; u[2]^6 + 879558292166400 \; u[0]^5 \; u[3]^1 \; u[4]^1 \; u[11]^1 + 289029778492712400 \; u[0]^5 \; u[3]^1 \; u[4]^2 \; u[5]^1 + 1767353968646640 \; u[0]^5 \; u[3]^1 \; u[5]^1 \; u[10]^1 + 2785380102054000 \; u[0]^5 \; u[3]^1 \; u[6]^1 \; u[9]^1 + 3486507914926080 \; u[0]^5 \; u[3]^1 \; u[7]^1 \; u[8]^1 + 78114397680 \; u[0]^5 \; u[3]^1 \; u[17]^1 + 204639483414603600 \; u[0]^5 \; u[3]^2 \; u[4]^1 \; u[6]^1 + 119743360519460040 \; u[0]^5 \; u[3]^2 \; u[5]^2 + 167911319382840 \; u[0]^5 \; u[3]^2 \; u[12]^1 + 42196118319241920 \; u[0]^5 \; u[3]^3 \; u[7]^1 + 3925410607641600 \; u[0]^5 \; u[4]^1 \; u[5]^1 \; u[9]^1 + 5625398523214800 \; u[0]^5 \; u[4]^1 \; u[6]^1 \; u[8]^1 + 3167415267615720 \; u[0]^5 \; u[4]^1 \; u[7]^2 + 281260960200 \; u[0]^5 \; u[4]^1 \; u[16]^1 + 1064732402151000 \; u[0]^5 \; u[4]^2 \; u[10]^1 + 29072194637102100 \; u[0]^5 \; u[4]^4 + 8483333144718960 \; u[0]^5 \; u[5]^1 \; u[6]^1 \; u[7]^1 + 796865113440 \; u[0]^5 \; u[5]^1 \; u[15]^1 + 3289927137738120 \; u[0]^5 \; u[5]^2 \; u[8]^1 + 1821441065400 \; u[0]^5 \; u[6]^1 \; u[14]^1 + 1618767365193000 \; u[0]^5 \; u[6]^3 + 3415171292280 \; u[0]^5 \; u[7]^1 \; u[13]^1 + 5312515970520 \; u[0]^5 \; u[8]^1 \; u[12]^1 + 6906246197400 \; u[0]^5 \; u[9]^1 \; u[11]^1 + 3767054545980 \; u[0]^5 \; u[10]^2 + 5340060 \; u[0]^5 \; u[22]^1 + 26017923366372960 \; u[0]^6 \; u[1]^1 \; u[2]^1 \; u[3]^1 \; u[8]^1 + 410369613478086240 \; u[0]^6 \; u[1]^1 \; u[2]^1 \; u[3]^3 + 47179126798832160 \; u[0]^6 \; u[1]^1 \; u[2]^1 \; u[4]^1 \; u[7]^1 + 63102025231233120 \; u[0]^6 \; u[1]^1 \; u[2]^1 \; u[5]^1 \; u[6]^1 + 20429944587360 \; u[0]^6 \; u[1]^1 \; u[2]^1 \; u[13]^1 + 977173870294005120 \; u[0]^6 \; u[1]^1 \; u[2]^2 \; u[3]^1 \; u[4]^1 + 5144839403734800 \; u[0]^6 \; u[1]^1 \; u[2]^2 \; u[9]^1 + 214417377486227520 \; u[0]^6 \; u[1]^1 \; u[2]^3 \; u[5]^1 + 95696181607514400 \; u[0]^6 \; u[1]^1 \; u[3]^1 \; u[4]^1 \; u[6]^1 + 55949659071831360 \; u[0]^6 \; u[1]^1 \; 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u[0]^7 \; u[18]^1 + 32241187545343920 \; u[0]^8 \; u[1]^1 \; u[2]^1 \; u[3]^1 \; u[4]^1 + 152734527099000 \; u[0]^8 \; u[1]^1 \; u[2]^1 \; u[9]^1 + 10666265289090840 \; u[0]^8 \; u[1]^1 \; u[2]^2 \; u[5]^1 + 382907443002480 \; u[0]^8 \; u[1]^1 \; u[3]^1 \; u[8]^1 + 6743645920131120 \; u[0]^8 \; u[1]^1 \; u[3]^3 + 691550201659680 \; u[0]^8 \; u[1]^1 \; u[4]^1 \; u[7]^1 + 922992599346840 \; u[0]^8 \; u[1]^1 \; u[5]^1 \; u[6]^1 + 277699140180 \; u[0]^8 \; u[1]^1 \; u[13]^1 + 4417717264594920 \; u[0]^8 \; u[1]^2 \; u[2]^1 \; u[6]^1 + 20570286109693320 \; u[0]^8 \; u[1]^2 \; u[2]^3 + 7780257139117320 \; u[0]^8 \; u[1]^2 \; u[3]^1 \; u[5]^1 + 4685379564422700 \; u[0]^8 \; u[1]^2 \; u[4]^2 + 20430722456100 \; u[0]^8 \; u[1]^2 \; u[10]^1 + 29885346725279760 \; u[0]^8 \; u[1]^3 \; u[2]^1 \; u[3]^1 + 536356053604800 \; u[0]^8 \; u[1]^3 \; u[7]^1 + 4339842491427300 \; u[0]^8 \; u[1]^4 \; u[4]^1 + 992774426143500 \; u[0]^8 \; u[1]^6 + 1182998337166800 \; u[0]^8 \; u[2]^1 \; u[3]^1 \; u[7]^1 + 1903667277239640 \; 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u[0]^9 u[3]^2 u[4]^1 + 17658138977160 u[0]^9 u[4]^1 u[8]^1 + 26465168851440 u[0]^9 u[5]^1 u[7]^1 + 15132399178380 u[0]^9 u[6]^2 + 4407922860 u[0]^9 u[14]^1 + 272303842599360 u[0]^10 u[1]^1 u[2]^1 u[5]^1 + 408455763899040 u[0]^10 u[1]^1 u[3]^1 u[4]^1 + 1719089915400 u[0]^10 u[1]^1 u[9]^1 + 941717455656120 u[0]^10 u[1]^2 u[2]^2 + 56729967208200 u[0]^10 u[1]^2 u[6]^1 + 453839737665600 u[0]^10 u[1]^3 u[3]^1 + 351725796690840 u[0]^10 u[2]^1 u[3]^2 + 5844905712360 u[0]^10 u[2]^1 u[8]^1 + 283649836041000 u[0]^10 u[2]^2 u[4]^1 + 13065083357040 u[0]^10 u[3]^1 u[7]^1 + 20972896967880 u[0]^10 u[4]^1 u[6]^1 + 12205538399340 u[0]^10 u[5]^2 + 13223768580 u[0]^10 u[12]^1 + 177410079269280 u[0]^11 u[1]^1 u[2]^1 u[3]^1 + 2750543864640 u[0]^11 u[1]^1 u[7]^1 + 51572697462000 u[0]^11 u[1]^2 u[4]^1 + 36100888223400 u[0]^11 u[1]^4 + 7563995627760 u[0]^11 u[2]^1 u[6]^1 + 41945793935760 u[0]^11 u[2]^3 + 13065083357040 u[0]^11 u[3]^1 u[5]^1 + 7907813610840 u[0]^11 u[4]^2 + 31256180280 u[0]^11 u[10]^1 + 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$77908926170787600\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 1\ u[5]^\wedge 1\ u[14]^\wedge 1\ +166207019582751470400\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 1\ u[5]^\wedge 2\ u[7]^\wedge 1\ +$
$1678228346792592200\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 1\ u[6]^\wedge 1\ u[13]^\wedge 1\ +294739489781990400\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 1\ u[7]^\wedge 1\ u[12]^\wedge 1\ +$
$426685495691137200\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 1\ u[8]^\wedge 1\ u[11]^\wedge 1\ +512572835560245600\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 1\ u[9]^\wedge 1\ u[10]^\wedge 1\ +794500060200$
$u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 1\ u[21]^\wedge 1\ +2917816504519043400 0\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 2\ u[4]^\wedge 1\ u[10]^\wedge 1\ +1406149547647003042800\ u[0]^\wedge 1\ u[1]^\wedge 2$
$u[3]^\wedge 2\ u[4]^\wedge 3\ +54031482902649663600\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 2\ u[5]^\wedge 1\ u[9]^\wedge 1\ +77619760339555870800\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 2\ u[6]^\wedge 1\ u[8]^\wedge 1\ +$
$43739438343120933000\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 2\ u[7]^\wedge 2\ +4219591398006600\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 2\ u[16]^\wedge 1\ +232569189784499263920 0\ u[0]^\wedge 1$
$u[1]^\wedge 2\ u[3]^\wedge 3\ u[4]^\wedge 1\ u[5]^\wedge 1\ +3988810754396722800\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 3\ u[11]^\wedge 1\ +410249025221120555400\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[3]^\wedge 4\ u[6]^\wedge 1$
$+236815913963529600\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[4]^\wedge 1\ u[5]^\wedge 1\ u[13]^\wedge 1\ +26966136476478604400 0\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[4]^\wedge 1\ u[5]^\wedge 2\ u[6]^\wedge 1\ +$
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$u[1]^\wedge 2\ u[4]^\wedge 1\ u[20]^\wedge 1\ +2007818905893360840 00\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[4]^\wedge 2\ u[5]^\wedge 1\ u[7]^\wedge 1\ +115064843088091365000\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[4]^\wedge 2$
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$u[1]^\wedge 2\ u[6]^\wedge 1\ u[8]^\wedge 2\ +35276359225800\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[6]^\wedge 1\ u[18]^\wedge 1\ +898996396201894200\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[6]^\wedge 2\ u[10]^\wedge 1\ +$
$83906333557200\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[7]^\wedge 1\ u[17]^\wedge 1\ +1555222542763617000\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[7]^\wedge 2\ u[8]^\wedge 1\ +167994974065800\ u[0]^\wedge 1\ u[1]^\wedge 2$
$u[8]^\wedge 1\ u[16]^\wedge 1\ +285812224294800\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[9]^\wedge 1\ u[15]^\wedge 1\ +415942199740200\ u[0]^\wedge 1\ u[1]^\wedge 2\ u[10]^\wedge 1\ u[14]^\wedge 1\ +520082728330200$
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$u[0]^\wedge 1\ u[1]^\wedge 3\ u[2]^\wedge 1\ u[3]^\wedge 1\ u[6]^\wedge 2\ +129020893535872800\ u[0]^\wedge 1\ u[1]^\wedge 3\ u[2]^\wedge 1\ u[3]^\wedge 1\ u[14]^\wedge 1\ +98631614442256308000\ u[0]^\wedge 1\ u[1]^\wedge 3$

u[2]^1 u[3]^2 u[9]^1 +4755856558877487201600 u[0]^1 u[1]^3 u[2]^1 u[3]^3 u[4]^1 +983154611395282502400 u[0]^1 u[1]^3 u[2]^1 u[4]^1 u[5]^1 u[6]^1 +391446219661912800 u[0]^1 u[1]^3 u[2]^1 u[4]^1 u[13]^1 +366120505636542854400 u[0]^1 u[1]^3 u[2]^1 u[4]^2 u[7]^1 +920256676449969600 u[0]^1 u[1]^3 u[2]^1 u[5]^1 u[12]^1 +191996820457837012800 u[0]^1 u[1]^3 u[2]^1 u[5]^3 + 1717557532915140000 u[0]^1 u[1]^3 u[2]^1 u[6]^1 u[11]^1 + 2584173809782908000 u[0]^1 u[1]^3 u[2]^1 u[7]^1 u[10]^1 + 3163004711799760800 u[0]^1 u[1]^3 u[2]^1 u[8]^1 u[9]^1 + 18748772658000 u[0]^1 u[1]^3 u[2]^1 u[19]^1 + 563382216016755236400 u[0]^1 u[1]^3 u[2]^2 u[3]^1 u[4]^2 + 34972594895265098400 u[0]^1 u[1]^3 u[2]^2 u[3]^1 u[10]^1 + 46590422548479046776000 u[0]^1 u[1]^3 u[2]^2 u[3]^2 u[5]^1 + 78089889987437580000 u[0]^1 u[1]^3 u[2]^2 u[4]^1 u[9]^1 + 131285870576250213600 u[0]^1 u[1]^3 u[2]^2 u[5]^1 u[8]^1 + 169482117129493341600 u[0]^1 u[1]^3 u[2]^2 u[6]^1 u[7]^1 + 15857196811948800 u[0]^1 u[1]^3 u[2]^2 u[15]^1 + 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1812770445578400 u[0]^3 u[1]^1 u[2]^1 u[3]^1 u[16]^1 + 17061611843781829 63200 u[0]^3 u[1]^1 u[2]^1 u[3]^2 u[4]^1 u[5]^1 + 2726510191740165600 u[0]^3 u[1]^1 u[2]^1 u[3]^2 u[11]^1 + 40176259448845803 3600 u[0]^3 u[1]^1 u[2]^1 u[3]^3 u[6]^1 + 49697464042773254400 u[0]^3 u[1]^1 u[2]^1 u[4]^1 u[5]^1 u[8]^1 + 64146055924931534400 u[0]^3 u[1]^1 u[2]^1 u[4]^1 u[6]^1 u[7]^1 + 6206749601976000 u[0]^3 u[1]^1 u[2]^1 u[4]^1 u[15]^1 + 14787025897247604000 u[0]^3 u[1]^1 u[2]^1 u[4]^2 u[9]^1 + 43028420602901764800 u[0]^3 u[1]^1 u[2]^1 u[5]^1 u[6]^2 + 16630444192824000 u[0]^3 u[1]^1 u[2]^1 u[5]^1 u[14]^1 + 37557711798696566400 u[0]^3 u[1]^1 u[2]^1 u[5]^2 u[7]^1 + 3575539180012800 0 u[0]^3 u[1]^1 u[2]^1 u[6]^1 u[13]^1 + 62712549825340800 u[0]^3 u[1]^1 u[2]^1 u[7]^1 u[12]^1 + 90711341829108000 u[0]^3 u[1]^1 u[2]^1 u[8]^1 u[11]^1 + 108926498192820000 u[0]^3 u[1]^1 u[2]^1 u[9]^1 u[10]^1 + 162280863360 u[0]^3 u[1]^1 u[2]^1 u[21]^1 + 953858605521253185600 u[0]^3 u[1]^1 u[2]^2 u[3]^1 u[4]^1 u[6]^1 + 558659201849976427200 u[0]^3 u[1]^1 u[2]^2 u[3]^1 u[5]^2 + 822701327651280000 u[0]^3 u[1]^1 u[2]^2 u[3]^1 u[12]^1 + 294232544568585638400 u[0]^3 u[1]^1 u[2]^2 u[3]^2 u[7]^1 + 2163891515932238400 u[0]^3 u[1]^1 u[2]^2 u[4]^1 u[11]^1 + 674997083415001116000 u[0]^3 u[1]^1 u[2]^2 u[4]^2 u[5]^1 + 4359972976201180800 u[0]^3 u[1]^1 u[2]^2 u[5]^1 u[10]^1 +

$6882251642290886400\ u[0]^3\ u[1]^1\ u[2]^2\ u[6]^1\ u[9]^1 + 8621065777179240000\ u[0]^3\ u[1]^1\ u[2]^2\ u[7]^1\ u[8]^1 + 199411831357200\ u[0]^3\ u[1]^1\ u[2]^2\ u[17]^1 + 85116899439429950400\ u[0]^3\ u[1]^1\ u[2]^3\ u[3]^1\ u[8]^1 + 1110517552872708657600\ u[0]^3\ u[1]^1\ u[2]^3\ u[3]^3 + 155304683955046718400\ u[0]^3\ u[1]^1\ u[2]^3\ u[4]^1\ u[7]^1 + 208353756623228462400\ u[0]^3\ u[1]^1\ u[2]^3\ u[5]^1\ u[6]^1 + 77011154907086400\ u[0]^3\ u[1]^1\ u[2]^3\ u[13]^1 + 1316441655894508651200\ u[0]^3\ u[1]^1\ u[2]^4\ u[3]^1\ u[4]^1 + 83171230556658186000\ u[0]^3\ u[1]^1\ u[2]^4\ u[9]^1 + 172197057616910726400\ u[0]^3\ u[1]^1\ u[2]^5\ u[5]^1 + 114400764829847865600\ u[0]^3\ u[1]^1\ u[3]^1\ u[4]^1\ u[5]^1\ u[7]^1 + 65537777482978046400\ u[0]^3\ u[1]^1\ u[3]^1\ u[4]^1\ u[6]^2 + 25190958100492800\ u[0]^3\ u[1]^1\ u[3]^1\ u[4]^1\ u[14]^1 + 37834334341246766400\ u[0]^3\ u[1]^1\ u[3]^1\ u[4]^2\ u[8]^1 + 63368255056999200\ u[0]^3\ u[1]^1\ u[3]^1\ u[5]^1\ u[13]^1 + 76760918234445984000\ u[0]^3\ u[1]^1\ u[3]^1\ u[5]^2\ u[6]^1 + 127281680779176000\ u[0]^3\ u[1]^1\ u[3]^1\ u[6]^1\ u[12]^1 + 2074159903780027200\ u[0]^3\ u[1]^1\ u[3]^1\ u[7]^1\ u[11]^1 + 276998269765140000\ u[0]^3\ u[1]^1\ u[3]^1\ u[8]^1\ u[10]^1 + 1524282663275064400\ u[0]^3\ u[1]^1\ u[3]^1\ u[9]^2 + 895236138720\ u[0]^3\ u[1]^1\ u[3]^1\ u[20]^1 + 18646775168900340000\ u[0]^3\ u[1]^1\ u[3]^2\ u[4]^1\ u[9]^2 + 31340063406793495200\ u[0]^3\ u[1]^1\ u[3]^2\ u[5]^1\ u[8]^1 + 40454579024119999200\ u[0]^3\ u[1]^1\ u[3]^2\ u[6]^1\ u[7]^1 + 3901000694976000\ u[0]^3\ u[1]^1\ u[3]^2\ u[15]^1 + 434441709404668257600\ u[0]^3\ u[1]^1\ u[3]^3\ u[4]^2 + 2785746064458957600\ u[0]^3\ u[1]^1\ u[3]^3\ u[10]^1 + 179727243872326273200\ u[0]^3\ u[1]^1\ u[3]^4\ u[5]^1 + 179485611520538400\ u[0]^3\ u[1]^1\ u[4]^1\ u[5]^1\ u[12]^1 + 36193180840062708000\ u[0]^3\ u[1]^1\ u[4]^1\ u[5]^3 + 334983470052924000\ u[0]^3\ u[1]^1\ u[4]^1\ u[6]^1\ u[11]^1 + 504026448732760800\ u[0]^3\ u[1]^1\ u[4]^1\ u[7]^1\ u[10]^1 + 616947238350088800\ u[0]^3\ u[1]^1\ u[4]^1$

$u[8]^1\ u[9]^1 + 3768444741600\ u[0]^3\ u[1]^1\ u[4]^1\ u[19]^1 + 92695149569712967200\ u[0]^3\ u[1]^1\ u[4]^2\ u[5]^1\ u[6]^1 + 38183418623288400\ u[0]^3\ u[1]^1\ u[4]^2\ u[13]^1 + 23022551662135132800\ u[0]^3\ u[1]^1\ u[4]^3\ u[7]^1 + 675502775130876000\ u[0]^3\ u[1]^1\ u[5]^1\ u[6]^1\ u[10]^1 + 931593812652333600\ u[0]^3\ u[1]^1\ u[5]^1\ u[7]^1\ u[9]^1 + 518055486743163600\ u[0]^3\ u[1]^1\ u[5]^1\ u[8]^2 + 12580156068480\ u[0]^3\ u[1]^1\ u[5]^1\ u[18]^1 + 195991084828677600\ u[0]^3\ u[1]^1\ u[5]^2\ u[11]^1 + 1337050623918055200\ u[0]^3\ u[1]^1\ u[6]^1\ u[7]^1\ u[8]^1 + 34182599829840\ u[0]^3\ u[1]^1\ u[6]^1\ u[17]^1 + 533495607448650000\ u[0]^3\ u[1]^1\ u[6]^2\ u[9]^1 + 76969640711040\ u[0]^3\ u[1]^1\ u[7]^1\ u[16]^1 + 251075443744171200\ u[0]^3\ u[1]^1\ u[7]^3 + 145466718492480\ u[0]^3\ u[1]^1\ u[8]^1\ u[15]^1 + 232834578622800\ u[0]^3\ u[1]^1\ u[9]^1\ u[14]^1 + 317577170322720\ u[0]^3\ u[1]^1\ u[10]^1\ u[13]^1 + 370549245934560\ u[0]^3\ u[1]^1\ u[11]^1\ u[12]^1 + 35995960\ u[0]^3\ u[1]^1\ u[25]^1 + 341396170683691569600\ u[0]^3\ u[1]^2\ u[2]^1\ u[3]^1\ u[4]^1\ u[7]^1 + 457956376078734086400\ u[0]^3\ u[1]^2\ u[2]^1\ u[3]^1\ u[5]^1\ u[6]^1 + 170269144341357600\ u[0]^3\ u[1]^2\ u[2]^1\ u[3]^1\ u[13]^1 + 93582044873771176800\ u[0]^3\ u[1]^2\ u[2]^1\ u[3]^2\ u[8]^1 + 607340599126906906800\ u[0]^3\ u[1]^2\ u[2]^1\ u[3]^4 + 323886625732217671200\ u[0]^3\ u[1]^2\ u[2]^1\ u[4]^1\ u[5]^2 + 481315795800285600\ u[0]^3\ u[1]^2\ u[2]^1\ u[4]^1\ u[12]^1 + 276544781636272749600\ u[0]^3\ u[1]^2\ u[2]^1\ u[4]^2\ u[6]^1 + 1049330008281139200\ u[0]^3\ u[1]^2\ u[2]^1\ u[5]^1\ u[11]^1 + 1805975382491834400\ u[0]^3\ u[1]^2\ u[2]^1\ u[6]^1\ u[10]^1 + 2488678801090574400\ u[0]^3\ u[1]^2\ u[2]^1\ u[7]^1\ u[9]^1 + 1383579084909344400\ u[0]^3\ u[1]^2\ u[2]^1\ u[8]^2 + 30869000038800\ u[0]^3\ u[1]^2\ u[2]^1\ u[18]^1 + 36598214541025368000\ u[0]^3\ u[1]^2\ u[2]^2\ u[3]^1\ u[9]^1 + 288050790258940711200\ u[0]^3\ u[1]^2\ u[2]^2\ u[3]^2\ u[4]^1 + 74147874700091623200\ u[0]^3\ u[1]^2\ u[2]^2\ u[4]^1\ u[8]^1 + 111989436605187926400\ u[0]^3\ u[1]^2\ u[2]^2\ u[5]^1\ u[7]^1 + 64134471659923249200\ u[0]^3\ u[1]^2\ u[2]^2\ u[6]^2 + 22382338626925200\ u[0]^3\ u[1]^2\ u[2]^2\ u[14]^1 + 1256474508146580676800\ u[0]^3\ u[1]^2\ u[2]^3\ u[3]^1\ u[5]^1 + 759156326966549450400\ u[0]^3\ u[1]^2\ u[2]^3\ u[4]^2 + 4343886421937277600\ u[0]^3\ u[1]^2\ u[2]^3\ u[10]^1 + 175612138516203219600\ u[0]^3\ u[1]^2\ u[2]^4\ u[6]^1 + 110960638540283254800\ u[0]^3\ u[1]^2\ u[2]^6 + 1593369688813056000\ u[0]^3\ u[1]^2\ u[3]^1\ u[4]^1\ u[11]^1 + 494218388178529845600\ u[0]^3\ u[1]^2\ u[3]^1\ u[4]^2\ u[5]^1 + 3209981311158098400\ u[0]^3\ u[1]^2\ u[3]^1\ u[5]^1\ u[10]^1 + 50666216150171116000\ u[0]^3\ u[1]^2\ u[3]^1\ u[6]^1\ u[9]^1 + 6346540620371952000\ u[0]^3\ u[1]^2\ u[3]^1\ u[7]^1\ u[8]^1 + 147625745097600\ u[0]^3\ u[1]^2\ u[3]^1\ u[17]^1 + 349279942133309695200\ u[0]^3\ u[1]^2\ u[3]^2\ u[4]^1\ u[6]^1 + 204552470490852884400\ u[0]^3\ u[1]^2\ u[3]^2\ u[5]^2 + 302987959970850000\ u[0]^3\ u[1]^2\ u[3]^2\ u[12]^1 + 718474487288482848400\ u[0]^3\ u[1]^2\ u[3]^3\ u[7]^1 + 7153905695377056000\ u[0]^3\ u[1]^2\ u[4]^1\ u[5]^1\ u[9]^1 + 10264605087490908000\ u[0]^3\ u[1]^2\ u[4]^1\ u[6]^1\ u[8]^1 + 5781936394756460400\ u[0]^3\ u[1]^2\ u[4]^1\ u[7]^2 + 533943165294000\ u[0]^3\ u[1]^2\ u[4]^1\ u[16]^1 + 1935887600762346000\ u[0]^3\ u[1]^2\ u[4]^2\ u[10]^1 + 49757560485735333000\ u[0]^3\ u[1]^2\ u[4]^4 + 15506519994595845600\ u[0]^3\ u[1]^2\ u[5]^1\ u[6]^1\ u[7]^1 + 1517547364502400\ u[0]^3\ u[1]^2\ u[5]^1\ u[15]^1 + 6008099824723642800\ u[0]^3\ u[1]^2\ u[5]^2\ u[8]^1 + 3476190911886000\ u[0]^3\ u[1]^2\ u[6]^1\ u[14]^1 + 2960396494978230000\ u[0]^3\ u[1]^2\ u[6]^3 + 6527518379012400\ u[0]^3\ u[1]^2\ u[7]^1\ u[13]^1 + 10163766849944400\ u[0]^3\ u[1]^2\ u[8]^1\ u[12]^1 + 13220152469370000\ u[0]^3\ u[1]^2\ u[9]^1\ u[11]^1 + 7212277459048200\ u[0]^3\ u[1]^2\ u[10]^2 + 10491437880\ u[0]^3\ u[1]^2\ u[22]^1 + 1108478444604711364800\ u[0]^3\ u[1]^3\ u[2]^1\ u[3]^1\ u[4]^2 + 6379893129662236800\ u[0]^3\ u[1]^3\ u[2]^1\ u[3]^1\ u[10]^1 + 917474369755251369600\ u[0]^3\ u[1]^3\ u[2]^1\ u[3]^2\ u[5]^1 + 14199137046753120000\ u[0]^3\ u[1]^3\ u[2]^1\ u[4]^1\ u[9]^1 + 23824057646377296000\ u[0]^3\ u[1]^3\ u[2]^1\ u[5]^1\ u[8]^1 + 30726525006566928000\ u[0]^3\ u[1]^3\ u[2]^1\ u[6]^1\ u[7]^1 + 2722815709891200\ u[0]^3\ u[1]^3\ u[2]^1\ u[15]^1 + 513184396389949468800\ u[0]^3\ u[1]^3\ u[2]^2\ u[3]^1\ u[6]^1 + 725816494860772392000\ u[0]^3\ u[1]^3\ u[2]^2\ u[4]^1\ u[5]^1 + 1043949236375707200\ u[0]^3\ u[1]^3\ u[2]^2\ u[11]^1 + 83640394681256582400\ u[0]^3\ u[1]^3\ u[2]^3\ u[7]^1 + 807142222268558668800\ u[0]^3\ u[1]^3\ u[2]^4\ u[3]^1 + 36267242904612720000\ u[0]^3\ u[1]^3\ u[3]^1\ u[4]^1\ u[8]^1 + 54768610420902100800\ u[0]^3\ u[1]^3\ u[3]^1\ u[5]^1\ u[7]^1 + 31363670921165352000\ u[0]^3\ u[1]^3\ u[3]^1\ u[6]^2 + 11011215112128000\ u[0]^3\ u[1]^3\ u[3]^1\ u[14]^1 + 8953326980765244000\ u[0]^3\ u[1]^3\ u[3]^2\ u[9]^1 + 467214375194542483200\ u[0]^3\ u[1]^3\ u[3]^3\ u[4]^1 + 88665618819010464000\ u[0]^3\ u[1]^3\ u[4]^1\ u[5]^1\ u[6]^1 + 33274891090980000\ u[0]^3\ u[1]^3\ u[4]^1\ u[13]^1 + 33057252839292528000\ u[0]^3\ u[1]^3\ u[4]^2\ u[7]^1 + 78008858086975200\ u[0]^3\ u[1]^3\ u[5]^1\ u[12]^1 + 17303700485786853600\ u[0]^3\ u[1]^3\ u[5]^3 + 145322396013564000\ u[0]^3\ u[1]^3\ u[6]^1\ u[11]^1 + 218392221570415200\ u[0]^3\ u[1]^3\ u[7]^1\ u[10]^1 + 267160959330804000\ u[0]^3\ u[1]^3\ u[8]^1\ u[9]^1 + 1520137080000\ u[0]^3\ u[1]^3\ u[19]^1 + 91775184934975819200\ u[0]^3\ u[1]^4\ u[2]^1\ u[3]^1\ u[7]^1 + 148506420473713764000\ u[0]^3\ u[1]^4\ u[2]^1\ u[4]^1\ u[6]^1 + 86927403786343520400\ u[0]^3\ u[1]^4\ u[2]^1\ u[5]^2 + 116300107592499600\ u[0]^3\ u[1]^4\ u[2]^1\ u[12]^1 + 881338883812738520400\ u[0]^3\ u[1]^4\ u[2]^2\ u[3]^2 + 19964616988551958800\ u[0]^3\ u[1]^4\ u[2]^2\ u[8]^1 + 464475260866446799200\ u[0]^3\ u[1]^4\ u[2]^3\ u[4]^1 + 265251520161068364000\ u[0]^3\ u[1]^4\ u[3]^1\ u[4]^1\ u[5]^1 + 383822712020286000\ u[0]^3\ u[1]^4\ u[3]^1\ u[11]^1 + 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100359561747522000\ u[0]^3\ u[1]^6\ u[10]^1 + 40881127169354472000\ u[0]^3\ u[1]^7\ u[2]^1\ u[3]^1 + 927539812569216000\ u[0]^3\ u[1]^7\ u[7]^1 + 2941921549471905000\ u[0]^3\ u[1]^8\ u[4]^1 + 162153156270105000\ u[0]^3\ u[1]^{10} + 318647314020986596800\ u[0]^3\ u[2]^1\ u[3]^1\ u[4]^1\ u[5]^1\ u[6]^1 + 130113515736388800\ u[0]^3\ u[2]^1\ u[3]^1\ u[4]^1\ u[13]^1 + 118685699467101782400\ u[0]^3\ u[2]^1\ u[3]^1\ u[4]^2\ u[7]^1 + 305903351048618400\ u[0]^3\ u[2]^1\ u[3]^1\ u[5]^1\ u[12]^1 + 62217473737395160800\ u[0]^3\ u[2]^1\ u[3]^1\ u[5]^3 + 571021592037388800\ u[0]^3\ u[2]^1\ u[3]^1\ u[6]^1\ u[11]^1 + 859251812946542400\ u[0]^3\ u[2]^1\ u[3]^1\ u[7]^1\ u[10]^1 + 1051795360450480800\ u[0]^3\ u[2]^1\ u[3]^1\ u[8]^1\ u[9]^1 + 6369374365200\ u[0]^3\ u[2]^1\ u[3]^1\ u[19]^1 + 64978886651127002400\ u[0]^3\ u[2]^1\ u[3]^2\ u[4]^1\ u[8]^1 + 98266650112714221600\ u[0]^3\ u[2]^1\ u[3]^2\ u[5]^1\ u[7]^1 + 56299705921819575600\ u[0]^3\ u[2]^1\ u[3]^2\ u[6]^2 + 21447545032544400$

$u[0]^3\ u[2]^1\ u[3]^2\ u[14]^1\ +\ 10668850474437540000\ u[0]^3\ u[2]^1\ u[3]^3\ u[9]^1\ +\ 375732578438247214800\ u[0]^3\ u[2]^1\ u[3]^4\ u[4]^1$
$+\ 805933793509336800\ u[0]^3\ u[2]^1\ u[4]^1\ u[5]^1\ u[11]^1\ +\ 1389253333067292000\ u[0]^3\ u[2]^1\ u[4]^1\ u[6]^1\ u[10]^1\ +$
$1916205156836308800\ u[0]^3\ u[2]^1\ u[4]^1\ u[7]^1\ u[9]^1\ +\ 1065640848138543600\ u[0]^3\ u[2]^1\ u[4]^1\ u[8]^2\ +\ 25593376762800\ u[0]^3$
$u[2]^1\ u[4]^1\ u[18]^1\ +\ 112744462060105352400\ u[0]^3\ u[2]^1\ u[4]^2\ u[5]^2\ +\ 184425405531351600\ u[0]^3\ u[2]^1\ u[4]^2\ u[12]^1\ +$
$64154620212268000800\ u[0]^3\ u[2]^1\ u[4]^3\ u[6]^1\ +\ 2569553731609048800\ u[0]^3\ u[2]^1\ u[5]^1\ u[6]^1\ u[9]^1\ +\ 3220420698215397600$
$u[0]^3\ u[2]^1\ u[5]^1\ u[7]^1\ u[8]^1\ +\ 81303011586720\ u[0]^3\ u[2]^1\ u[5]^1\ u[17]^1\ +\ 813096902799073200\ u[0]^3\ u[2]^1\ u[5]^2\ u[10]^1$
$+\ 2078581303302226800\ u[0]^3\ u[2]^1\ u[6]^1\ u[7]^2\ +\ 209549434488240\ u[0]^3\ u[2]^1\ u[6]^1\ u[16]^1\ +\ 1844632314678106800\ u[0]^3$
$u[2]^1\ u[6]^2\ u[8]^1\ +\ 446039220100320\ u[0]^3\ u[2]^1\ u[7]^1\ u[15]^1\ +\ 793904216305200\ u[0]^3\ u[2]^1\ u[8]^1\ u[14]^1\ +$
$1191805081051200\ u[0]^3\ u[2]^1\ u[9]^1\ u[13]^1\ +\ 1517538376588080\ u[0]^3\ u[2]^1\ u[10]^1\ u[12]^1\ +\ 822122720283480\ u[0]^3\ u[2]^1$
$u[11]^2\ +\ 312887960\ u[0]^3\ u[2]^1\ u[24]^1\ +\ 25369879797310356000\ u[0]^3\ u[2]^2\ u[3]^1\ u[4]^1\ u[9]^1\ +\ 42645774538534490400\ u[0]^3$
$u[2]^2\ u[3]^1\ u[5]^1\ u[8]^1\ +\ 55051630559370060000\ u[0]^3\ u[2]^2\ u[3]^1\ u[6]^1\ u[7]^1\ +\ 5278838988931200\ u[0]^3\ u[2]^2\ u[3]^1$
$u[15]^1\ +\ 89122685641408622800\ u[0]^3\ u[2]^2\ u[3]^2\ u[4]^2\ +\ 5683490847823681200\ u[0]^3\ u[2]^2\ u[3]^2\ u[10]^1\ +$
$49151849814039236880\ u[0]^3\ u[2]^2\ u[3]^3\ u[5]^1\ +\ 77857806089960820000\ u[0]^3\ u[2]^2\ u[4]^1\ u[5]^1\ u[7]^1\ +$
$44605038679056702000\ u[0]^3\ u[2]^2\ u[4]^1\ u[6]^2\ +\ 17048923726388400\ u[0]^3\ u[2]^2\ u[4]^1\ u[14]^1\ +\ 25745582334278545200\ u[0]^3$
$u[2]^2\ u[4]^2\ u[8]^1\ +\ 42892000199571600\ u[0]^3\ u[2]^2\ u[5]^1\ u[13]^1\ +\ 52247152840574907600\ u[0]^3\ u[2]^2\ u[5]^2\ u[6]^1\ +$
$86157791059124400\ u[0]^3\ u[2]^2\ u[6]^1\ u[12]^1\ +\ 140403952867978800\ u[0]^3\ u[2]^2\ u[7]^1\ u[11]^1\ +\ 187506902486257200\ u[0]^3$
$u[2]^2\ u[8]^1\ u[10]^1\ +\ 103182479937814200\ u[0]^3\ u[2]^2\ u[9]^2\ +\ 602896334040\ u[0]^3\ u[2]^2\ u[20]^1\ +\ 777483004077781478400$
$u[0]^3\ u[2]^3\ u[3]^1\ u[4]^1\ u[5]^1\ +\ 1235449214592146400\ u[0]^3\ u[2]^3\ u[3]^1\ u[11]^1\ +\ 274555387700744119200\ u[0]^3\ u[2]^3\ u[3]^2$
$u[6]^1\ +\ 3004828481593092000\ u[0]^3\ u[2]^3\ u[4]^1\ u[10]^1\ +\ 156622115374153413600\ u[0]^3\ u[2]^3\ u[4]^3\ +\ 5554649292999760800$
$u[0]^3\ u[2]^3\ u[5]^1\ u[9]^1\ +\ 7971821048864349600\ u[0]^3\ u[2]^3\ u[6]^1\ u[8]^1\ +\ 4490729399857839600\ u[0]^3\ u[2]^3\ u[7]^2\ +$
$408622233742800\ u[0]^3\ u[2]^3\ u[16]^1\ +\ 66989007614872173600\ u[0]^3\ u[2]^4\ u[3]^1\ u[7]^1\ +\ 108615597465300248400\ u[0]^3\ u[2]^4$
$u[4]^1\ u[6]^1\ +\ 63618457180786431000\ u[0]^3\ u[2]^4\ u[5]^2\ +\ 93144673473805800\ u[0]^3\ u[2]^4\ u[12]^1\ +\ 228602457936914199600$
$u[0]^3\ u[2]^5\ u[3]^2\ +\ 5810534362330328400\ u[0]^3\ u[2]^5\ u[8]^1\ +\ 60208567219719164400\ u[0]^3\ u[2]^6\ u[4]^1\ +\ 2470900155827426400$
$u[0]^3\ u[3]^1\ u[4]^1\ u[5]^1\ u[10]^1\ +\ 3905034551332252800\ u[0]^3\ u[3]^1\ u[4]^1\ u[6]^1\ u[9]^1\ +\ 4894613129994957600\ u[0]^3\ u[3]^1$
$u[4]^1\ u[7]^1\ u[8]^1\ +\ 122873926190400\ u[0]^3\ u[3]^1\ u[4]^1\ u[17]^1\ +\ 612075660947612400\ u[0]^3\ u[3]^1\ u[4]^2\ u[11]^1\ +$
$11469406260680694480\ u[0]^3\ u[3]^1\ u[4]^3\ u[5]^1\ +\ 6566169867363506400\ u[0]^3\ u[3]^1\ u[5]^1\ u[6]^1\ u[8]^1\ +\ 3699751922744446800$
$u[0]^3\ u[3]^1\ u[5]^1\ u[7]^2\ +\ 370356545716080\ u[0]^3\ u[3]^1\ u[5]^1\ u[16]^1\ +\ 2286103985788761600\ u[0]^3\ u[3]^1\ u[5]^2\ u[9]^1\ +$
$902553630058080\ u[0]^3\ u[3]^1\ u[6]^1\ u[15]^1\ +\ 4239031631347867200\ u[0]^3\ u[3]^1\ u[6]^2\ u[7]^1\ +\ 1809631653244800\ u[0]^3\ u[3]^1$
$u[7]^1\ u[14]^1\ +\ 3021323699209200\ u[0]^3\ u[3]^1\ u[8]^1\ u[13]^1\ +\ 4234533556360800\ u[0]^3\ u[3]^1\ u[9]^1\ u[12]^1\ +\ 5007136183138320$
$u[0]^3\ u[3]^1\ u[10]^1\ u[11]^1\ +\ 1954857520\ u[0]^3\ u[3]^1\ u[23]^1\ +\ 142383492220743958800\ u[0]^3\ u[3]^2\ u[4]^1\ u[5]^1\ +$
$232194580394422800\ u[0]^3\ u[3]^2\ u[4]^1\ u[12]^1\ +\ 121521107879743849200\ u[0]^3\ u[3]^2\ u[4]^2\ u[6]^1\ +\ 507435162504085200\ u[0]^3$
$u[3]^2\ u[5]^1\ u[11]^1\ +\ 874798987270731600\ u[0]^3\ u[3]^2\ u[6]^1\ u[10]^1\ +\ 1206682939185200400\ u[0]^3\ u[3]^2\ u[7]^1\ u[9]^1\ +$
$671072119760057400\ u[0]^3\ u[3]^2\ u[8]^2\ +\ 16062491075400\ u[0]^3\ u[3]^2\ u[18]^1\ +\ 49947509961801328800\ u[0]^3\ u[3]^3\ u[4]^1\ u[7]^1$
$+\ 67057274939966018400\ u[0]^3\ u[3]^3\ u[5]^1\ u[6]^1\ +\ 27294345611794800\ u[0]^3\ u[3]^3\ u[13]^1\ +\ 68346707719165722200\ u[0]^3\ u[3]^4$
$u[8]^1\ +\ 15843618918767316600\ u[0]^3\ u[3]^6\ +\ 11982549285494356800\ u[0]^3\ u[4]^1\ u[5]^1\ u[6]^1\ u[7]^1\ +\ 1271087888605920\ u[0]^3$
$u[4]^1\ u[5]^1\ u[15]^1\ +\ 4639642266950922000\ u[0]^3\ u[4]^1\ u[5]^2\ u[8]^1\ +\ 2918126493836400\ u[0]^3\ u[4]^1\ u[6]^1\ u[14]^1\ +$
$2288399597541195600\ u[0]^3\ u[4]^1\ u[6]^3\ +\ 5488715842671600\ u[0]^3\ u[4]^1\ u[7]^1\ u[13]^1\ +\ 8556115395181200\ u[0]^3\ u[4]^1\ u[8]^1$
$u[12]^1\ +\ 11136562376108400\ u[0]^3\ u[4]^1\ u[9]^1\ u[11]^1\ +\ 6076921912547640\ u[0]^3\ u[4]^1\ u[10]^2\ +\ 9383869880\ u[0]^3\ u[4]^1$
$u[22]^1\ +\ 2758609772898764400\ u[0]^3\ u[4]^2\ u[5]^1\ u[9]^1\ +\ 3961977623970735600\ u[0]^3\ u[4]^2\ u[6]^1\ u[8]^1\ +\ 2232458692924567800$
$u[0]^3\ u[4]^2\ u[7]^2\ +\ 222979480092600\ u[0]^3\ u[4]^2\ u[16]^1\ +\ 496859698423981200\ u[0]^3\ u[4]^3\ u[10]^1\ +\ 6929769314951415240$
$u[0]^3\ u[4]^5\ +\ 7350950003775840\ u[0]^3\ u[5]^1\ u[6]^1\ u[13]^1\ +\ 12909987404381760\ u[0]^3\ u[5]^1\ u[7]^1\ u[12]^1\ +\ 18690041156796240$
$u[0]^3\ u[5]^1\ u[8]^1\ u[11]^1\ +\ 22452769119710160\ u[0]^3\ u[5]^1\ u[9]^1\ u[10]^1\ +\ 35971039720\ u[0]^3\ u[5]^1\ u[21]^1\ +$
$4020212356213884600\ u[0]^3\ u[5]^2\ u[6]^2\ +\ 1706541380793480\ u[0]^3\ u[5]^2\ u[14]^1\ +\ 2338897177982164800\ u[0]^3\ u[5]^3\ u[7]^1\ +$
$24111749340367920\ u[0]^3\ u[6]^1\ u[7]^1\ u[11]^1\ +\ 32218323667862640\ u[0]^3\ u[6]^1\ u[8]^1\ u[10]^1\ +\ 17732573770896600\ u[0]^3\ u[6]^1$
$u[9]^2\ +\ 113052234680\ u[0]^3\ u[6]^1\ u[20]^1\ +\ 7391480239179960\ u[0]^3\ u[6]^2\ u[12]^1\ +\ 44442877607898000\ u[0]^3\ u[7]^1\ u[8]^1$
$u[9]^1\ +\ 296761769920\ u[0]^3\ u[7]^1\ u[19]^1\ +\ 18149200298894280\ u[0]^3\ u[7]^2\ u[10]^1\ +\ 659470907480\ u[0]^3\ u[8]^1\ u[18]^1\ +$
$8238856210400200\ u[0]^3\ u[8]^3\ +\ 1252994447320\ u[0]^3\ u[9]^1\ u[17]^1\ +\ 2050354801880\ u[0]^3\ u[10]^1\ u[16]^1\ +\ 2904669071920$
$u[0]^3\ u[11]^1\ u[15]^1\ +\ 3574977532280\ u[0]^3\ u[12]^1\ u[14]^1\ +\ 1915166436260\ u[0]^3\ u[13]^2\ +\ 47740\ u[0]^3\ u[28]^1\ +$
$36375852446416005600\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^1\ u[4]^1\ u[8]^1\ +\ 54931236383123839200\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^1\ u[5]^1\ u[7]^1\ +$
$31457067412448739600\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^1\ u[6]^2\ +\ 11158685105475600\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^1\ u[14]^1\ +$
$89809089924849246000\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^2\ u[9]^1\ +\ 463288689848812930400\ u[0]^4\ u[1]^1\ u[2]^1\ u[3]^3\ u[4]^1\ +$
$88917079790451158400\ u[0]^4\ u[1]^1\ u[2]^1\ u[4]^1\ u[5]^1\ u[6]^1\ +\ 33722528348955600\ u[0]^4\ u[1]^1\ u[2]^1\ u[4]^1\ u[13]^1\ +$
$33152433576687532800\ u[0]^4\ u[1]^1\ u[2]^1\ u[4]^2\ u[7]^1\ +\ 79067485038326400\ u[0]^4\ u[1]^1\ u[2]^1\ u[5]^1\ u[12]^1\ +$
$17351881280876419200\ u[0]^4\ u[1]^1\ u[2]^1\ u[5]^3\ +\ 147313811224364400\ u[0]^4\ u[1]^1\ u[2]^1\ u[6]^1\ u[11]^1\ +\ 221405833273640400$
$u[0]^4\ u[1]^1\ u[2]^1\ u[7]^1\ u[10]^1\ +\ 270861258819135600\ u[0]^4\ u[1]^1\ u[2]^1\ u[8]^1\ u[9]^1\ +\ 1554402465000\ u[0]^4\ u[1]^1\ u[2]^1$
$u[19]^1\ +\ 549887325894703843200\ u[0]^4\ u[1]^1\ u[2]^2\ u[3]^1\ u[10]^1\ +\ 320165857335444 1200\ u[0]^4\ u[1]^1\ u[2]^2\ u[3]^1\ u[10]^1\ +$
$4551727353100153338000\ u[0]^4\ u[1]^1\ u[2]^2\ u[3]^2\ u[5]^1\ +\ 7125264864506250000\ u[0]^4\ u[1]^1\ u[2]^2\ u[4]^1\ u[9]^1\ +$
$11955183332620928400\ u[0]^4\ u[1]^1\ u[2]^2\ u[5]^1\ u[8]^1\ +\ 15419322783641977200\ u[0]^4\ u[1]^1\ u[2]^2\ u[6]^1\ u[7]^1\ +$
$1380230640835200\ u[0]^4\ u[1]^1\ u[2]^2\ u[15]^1\ +\ 169851943264508920800\ u[0]^4\ u[1]^1\ u[2]^3\ u[3]^1\ u[6]^1\ +\ 240194814226931256000$
$u[0]^4\ u[1]^1\ u[2]^3\ u[4]^1\ u[5]^1\ +\ 349457474947165200\ u[0]^4\ u[1]^1\ u[2]^3\ u[11]^1\ +\ 20776854557195167200\ u[0]^4\ u[1]^1\ u[2]^4$
$u[7]^1\ +\ 158586234853442180400\ u[0]^4\ u[1]^1\ u[2]^5\ u[3]^1\ +\ 79306865075022446400\ u[0]^4\ u[1]^1\ u[3]^1\ u[4]^1\ u[5]^2\ +$
$119823413284159200\ u[0]^4\ u[1]^1\ u[3]^1\ u[4]^1\ u[12]^1\ +\ 67723280296847128800\ u[0]^4\ u[1]^1\ u[3]^1\ u[4]^2\ u[6]^1\ +$
$261216627254906400\ u[0]^4\ u[1]^1\ u[3]^1\ u[5]^1\ u[11]^1\ +\ 449588775070512000\ u[0]^4\ u[1]^1\ u[3]^1\ u[6]^1\ u[10]^1\ +$
$619568413043025600\ u[0]^4\ u[1]^1\ u[3]^1\ u[7]^1\ u[9]^1\ +\ 344454282165747600\ u[0]^4\ u[1]^1\ u[3]^1\ u[8]^2\ +\ 7796434199400\ u[0]^4$
$u[1]^1\ u[3]^1\ u[18]^1\ +\ 41819918651820724800\ u[0]^4\ u[1]^1\ u[3]^2\ u[4]^1\ u[7]^1\ +\ 56089069585996431600\ u[0]^4\ u[1]^1\ u[3]^2\ u[5]^1$
$u[6]^1\ +\ 21200019491989800\ u[0]^4\ u[1]^1\ u[3]^2\ u[13]^1\ +\ 7645564585275909600\ u[0]^4\ u[1]^1\ u[3]^3\ u[8]^1\ +\ 29281104495440305200$
$u[0]^4\ u[1]^1\ u[3]^5\ +\ 634153976228850000\ u[0]^4\ u[1]^1\ u[4]^1\ u[5]^1\ u[10]^1\ +\ 1000842584430612000\ u[0]^4\ u[1]^1\ u[4]^1\ u[6]^1$
$u[9]^1\ +\ 1253629358626999200\ u[0]^4\ u[1]^1\ u[4]^1\ u[7]^1\ u[8]^1\ +\ 29697622277400\ u[0]^4\ u[1]^1\ u[4]^1\ u[17]^1\ +\ 157434577881966000$
$u[0]^4\ u[1]^1\ u[4]^2\ u[11]^1\ +\ 31923698439505210800\ u[0]^4\ u[1]^1\ u[4]^3\ u[5]^1\ +\ 1680100411064737200\ u[0]^4\ u[1]^1\ u[5]^1\ u[6]^1$
$u[8]^1\ +\ 946323738729461400\ u[0]^4\ u[1]^1\ u[5]^1\ u[7]^2\ +\ 89231174386200\ u[0]^4\ u[1]^1\ u[5]^1\ u[16]^1\ +\ 585592752422785800\ u[0]^4$
$u[1]^1\ u[5]^2\ u[9]^1\ +\ 216943248337200\ u[0]^4\ u[1]^1\ u[6]^1\ u[15]^1\ +\ 1083795849438363600\ u[0]^4\ u[1]^1\ u[6]^2\ u[7]^1\ +$
$434218351736400\ u[0]^4\ u[1]^1\ u[7]^1\ u[14]^1\ +\ 724074975115800\ u[0]^4\ u[1]^1\ u[8]^1\ u[13]^1\ +\ 1014033730109400\ u[0]^4\ u[1]^1$
$u[9]^1\ u[12]^1\ +\ 1198590665626200\ u[0]^4\ u[1]^1\ u[10]^1\ u[11]^1\ +\ 448565040\ u[0]^4\ u[1]^1\ u[23]^1\ +\ 526924322572703932800\ u[0]^4$
$u[1]^2\ u[2]^1\ u[3]^1\ u[4]^1\ u[5]^1\ +\ 771301314593132400\ u[0]^4\ u[1]^2\ u[2]^1\ u[3]^1\ u[11]^1\ +\ 186353268641301207600\ u[0]^4\ u[1]^2$

u[2]^1 u[3]^2 u[6]^1 + 1869214561048018800 u[0]^4 u[1]^2 u[2]^1 u[4]^1 u[10]^1 + 106063214840636684400 u[0]^4 u[1]^2 u[2]^1 u[4]^3 + 3447199281888608400 u[0]^4 u[1]^2 u[2]^1 u[5]^1 u[9]^1 + 4940646721573978800 u[0]^4 u[1]^2 u[2]^1 u[6]^1 u[8]^1 + 2781982113882186600 u[0]^4 u[1]^2 u[2]^1 u[7]^2 + 238388519892600 u[0]^4 u[1]^2 u[2]^1 u[16]^1 + 91231868200738003200 u[0]^4 u[1]^2 u[2]^2 u[3]^1 u[7]^1 + 147607660710322520400 u[0]^4 u[1]^2 u[2]^2 u[4]^1 u[6]^1 + 86396520187119681000 u[0]^4 u[1]^2 u[2]^2 u[5]^2 + 116914688173621800 u[0]^4 u[1]^2 u[2]^2 u[12]^1 + 577420309075433115600 u[0]^4 u[1]^2 u[2]^3 u[3]^2 + 13239879076517847600 u[0]^4 u[1]^2 u[2]^3 u[8]^1 + 22836584997480717540 u[0]^4 u[1]^2 u[2]^4 u[4]^1 + 5237294446213830000 u[0]^4 u[1]^2 u[3]^1 u[4]^1 u[9]^1 + 8786133086446069200 u[0]^4 u[1]^2 u[3]^1 u[5]^1 u[8]^1 + 11331276370600309200 u[0]^4 u[1]^2 u[3]^1 u[6]^1 u[7]^1 + 1020431139789600 u[0]^4 u[1]^2 u[3]^1 u[15]^1 + 200966190913589686200 u[0]^4 u[1]^2 u[3]^2 u[4]^2 + 1177049153236987800 u[0]^4 u[1]^2 u[3]^2 u[10]^1 + 110920793323836157200 u[0]^4 u[1]^2 u[3]^3 u[5]^1 + 16001912637797578800 u[0]^4 u[1]^2 u[4]^1 u[5]^1 u[7]^1 + 9162845178720849000 u[0]^4 u[1]^2 u[4]^1 u[6]^2 + 3281592806415000 u[0]^4 u[1]^2 u[4]^1 u[14]^1 + 5299882468527801000 u[0]^4 u[1]^2 u[4]^2 u[8]^1 + 8230334776032600 u[0]^4 u[1]^2 u[5]^1 u[13]^1 + 10725780709684517400 u[0]^4 u[1]^2 u[5]^2 u[6]^1 + 16496311907136600 u[0]^4 u[1]^2 u[6]^1 u[12]^1 + 26843571015168600 u[0]^4 u[1]^2 u[7]^1 u[11]^1 + 35819242832280600 u[0]^4 u[1]^2 u[8]^1 u[10]^1 + 19705498030102500 u[0]^4 u[1]^2 u[9]^2 + 109960735500 u[0]^4 u[1]^2 u[20]^1 + 19406142781833376800 u[0]^4 u[1]^3 u[2]^1 u[3]^1 u[8]^1 + 280553039433009050400 u[0]^4 u[1]^3 u[2]^1 u[3]^3 + 35311880496387448800 u[0]^4 u[1]^3 u[2]^1 u[4]^1 u[7]^1 + 47311120513880546400 u[0]^4 u[1]^3 u[2]^1 u[5]^1 u[6]^1 + 16218615632788800 u[0]^4 u[1]^3 u[2]^1 u[13]^1 + 665899352124762571200 u[0]^4 u[1]^3 u[2]^2 u[3]^1 u[4]^1 + 3809637434884050000 u[0]^4 u[1]^3 u[2]^2 u[9]^1 + 145468569825397526400 u[0]^4 u[1]^3 u[2]^3 u[5]^1 + 72052373220366924000 u[0]^4 u[1]^3 u[3]^1 u[4]^1 u[6]^1 + 42169917117554503200 u[0]^4 u[1]^3 u[3]^1 u[5]^2 + 57424468070692800 u[0]^4 u[1]^3 u[3]^1 u[12]^1 + 22273615097601436800 u[0]^4 u[1]^3 u[3]^2 u[7]^1 + 150439282090020000 u[0]^4 u[1]^3 u[4]^1 u[11]^1 + 50909346791263422000 u[0]^4 u[1]^3 u[4]^2 u[5]^1 + 3022904450701692000 u[0]^4 u[1]^3 u[5]^1 u[10]^1 + 476359316083728000 u[0]^4 u[1]^3 u[6]^1 u[9]^1 + 5962260836774408800 u[0]^4 u[1]^3 u[7]^1 u[8]^1 + 13025207349000 u[0]^4 u[1]^3 u[17]^1 + 15926669393098983720 u[0]^4 u[1]^4 u[2]^1 u[3]^1 u[5]^1 + 96140400392349621000 u[0]^4 u[1]^4 u[2]^1 u[4]^2 + 500337347213781000 u[0]^4 u[1]^4 u[2]^1 u[10]^1 + 44653254365653302600 u[0]^4 u[1]^4 u[2]^2 u[6]^1 + 79887108019423805100 u[0]^4 u[1]^4 u[2]^4 + 1397975587234380000 u[0]^4 u[1]^4 u[3]^1 u[9]^1 + 1214555555834176487000 u[0]^4 u[1]^4 u[3]^2 u[4]^1 + 2822980829700339000 u[0]^4 u[1]^4 u[4]^1 u[8]^1 + 4255682149906110000 u[0]^4 u[1]^4 u[5]^1 u[7]^1 + 2435684320672564500 u[0]^4 u[1]^4 u[6]^2 + 791349409966500 u[0]^4 u[1]^4 u[14]^1 + 6407722526893380000 u[0]^4 u[1]^5 u[2]^1 u[7]^1 + 1394863231104671328000 u[0]^4 u[1]^5 u[2]^2 u[3]^1 + 13054636579861800000 u[0]^4 u[1]^5 u[3]^1 u[6]^1 + 1843045687176031800 u[0]^4 u[1]^5 u[4]^1 u[5]^1 + 24207197401926000 u[0]^4 u[1]^5 u[11]^1 + 26797809664523898000 u[0]^4 u[1]^6 u[2]^1 u[4]^1 + 16926924302040753000 u[0]^4 u[1]^6 u[3]^2 + 341682564850473000 u[0]^4 u[1]^6 u[8]^1 + 18321200773375550000 u[0]^4 u[1]^7 u[5]^1 + 2351220765916522500 u[0]^4 u[1]^8 u[2]^1 u[3]^1 u[4]^1 u[11]^1 + 16491362462273871480 u[0]^4 u[2]^1 u[3]^1 u[4]^2 u[5]^1 + 1082799223811382000 u[0]^4 u[2]^1 u[3]^1 u[5]^1 u[10]^1 + 1709210479926087600 u[0]^4 u[2]^1 u[3]^1 u[6]^1 u[9]^1 + 2141071367941228800 u[0]^4 u[2]^1 u[3]^1 u[7]^1 u[8]^1 + 50256105669000 u[0]^4 u[2]^1 u[3]^1 u[17]^1 + 116565753617523394800 u[0]^4 u[2]^1 u[3]^2 u[4]^1 u[6]^1 + 68261966449029784200 u[0]^4 u[2]^1 u[3]^2 u[5]^2 + 102199121286431400 u[0]^4 u[2]^1 u[3]^2 u[12]^1 + 23980860738133992000 u[0]^4 u[2]^1 u[3]^3 u[7]^1 + 2413032850310821200 u[0]^4 u[2]^1 u[4]^1 u[5]^1 u[9]^1 + 3462447687225080400 u[0]^4 u[2]^1 u[4]^1 u[6]^1 u[8]^1 + 1950382233958296600 u[0]^4 u[2]^1 u[4]^1 u[7]^2 + 181791324376200 u[0]^4 u[2]^1 u[4]^1 u[16]^1 + 652965637913127000 u[0]^4 u[2]^1 u[4]^2 u[10]^1 + 16602131650611622500 u[0]^4 u[2]^1 u[4]^4 + 5230496850811478400 u[0]^4 u[2]^1 u[5]^1 u[6]^1 u[7]^1 + 516766114695600 u[0]^4 u[2]^1 u[5]^1 u[15]^1 + 2026545545782896600 u[0]^4 u[2]^1 u[5]^2 u[8]^1 + 1183957477210200 u[0]^4 u[2]^1 u[6]^1 u[14]^1 + 998578889368321800 u[0]^4 u[2]^1 u[6]^3 + 2223546746790600 u[0]^4 u[2]^1 u[7]^1 u[13]^1 + 3462600097248600 u[0]^4 u[2]^1 u[8]^1 u[12]^1 + 4504156366063200 u[0]^4 u[2]^1 u[9]^1 u[11]^1 + 2457308380596300 u[0]^4 u[2]^1 u[10]^2 + 3600980460 u[0]^4 u[2]^1 u[22]^1 + 57005556372872276400 u[0]^4 u[2]^2 u[3]^1 u[4]^1 u[7]^1 + 76465016984582595600 u[0]^4 u[2]^2 u[3]^1 u[5]^1 u[6]^1 + 28730331765689400 u[0]^4 u[2]^2 u[3]^1 u[13]^1 + 15627839067554914200 u[0]^4 u[2]^2 u[3]^2 u[8]^1 + 100274732945795538900 u[0]^4 u[2]^2 u[3]^4 + 54072025624718778600 u[0]^4 u[2]^2 u[4]^1 u[5]^2 + 81217567048879800 u[0]^4 u[2]^2 u[4]^1 u[12]^1 + 46171304006124389400 u[0]^4 u[2]^2 u[4]^2 u[6]^1 + 177078891827514600 u[0]^4 u[2]^2 u[5]^1 u[11]^1 + 304797644164351800 u[0]^4 u[2]^2 u[6]^1 u[10]^1 + 420045234759750600 u[0]^4 u[2]^2 u[7]^1 u[9]^1 + 233530021546044300 u[0]^4 u[2]^2 u[8]^2 + 5256247758300 u[0]^4 u[2]^2 u[18]^1 + 4077082321763682000 u[0]^4 u[2]^3 u[3]^1 u[9]^1 + 317240133734178454800 u[0]^4 u[2]^3 u[3]^2 u[4]^1 + 8259569453188561200 u[0]^4 u[2]^3 u[4]^1 u[8]^1 + 12474394768897076400 u[0]^4 u[2]^3 u[5]^1 u[7]^1 + 7143995661958617000 u[0]^4 u[2]^3 u[6]^2 + 2518973841892200 u[0]^4 u[2]^3 u[14]^1 + 103852063261318264200 u[0]^4 u[2]^4 u[3]^1 u[5]^1 + 62744226171200366100 u[0]^4 u[2]^4 u[4]^2 + 363160019348441700 u[0]^4 u[2]^4 u[10]^1 + 11620744384101421800 u[0]^4 u[2]^5 u[6]^1 + 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28897626899543204880 u[0]^5 u[1]^1 u[2]^4 u[5]^1 $+ 372079610363926080$ u[0]^5 u[1]^1 u[3]^1 u[4]^1 u[10]^1 $+ 20744187714689503680$ u[0]^5 u[1]^1 u[3]^1 u[4]^3 $+ 686109253828521600$ u[0]^5 u[1]^1 u[3]^1 u[5]^1 u[9]^1 $+ 983342869203340800$ u[0]^5 u[1]^1 u[3]^1 u[6]^1 u[8]^1 $+ 553700453609429280$ u[0]^5 u[1]^1 u[3]^1 u[7]^2 $+ 48207882935520$ u[0]^5 u[1]^1 u[3]^1 u[16]^1 $+ 51541935958152208800$ u[0]^5 u[1]^1 u[3]^2 u[4]^1 u[5]^1 $+ 76792337537398560$ u[0]^5 u[1]^1 u[3]^2 u[11]^1 $+ 12157087345138169280$ u[0]^5 u[1]^1 u[3]^3 u[6]^1 $+ 13872740051657118240$ u[0]^5 u[1]^1 u[4]^1 u[5]^1 u[8]^1 $+ 1788929146617006240$ u[0]^5 u[1]^1 u[4]^1 u[6]^1 u[7]^1 $+ 164329111013760$ u[0]^5 u[1]^1 u[4]^1 u[15]^1 $+ 413604291219411600$ u[0]^5 u[1]^1 u[4]^2 u[9]^1 $+ 1198503086608230480$ u[0]^5 u[1]^1 u[5]^1 u[6]^2 $+ 438915957424560$ u[0]^5 u[1]^1 u[5]^1 u[14]^1 $+ 1046659009110089760$ u[0]^5 u[1]^1 u[5]^2 u[7]^1 $+ 941590949634720$ u[0]^5 u[1]^1 u[6]^1 u[13]^1 $+ 1648999847880000$ u[0]^5 u[1]^1 u[7]^1 u[12]^1 $+ 2382978449617920$ u[0]^5 u[1]^1 u[8]^1 u[11]^1 $+ 2860194534896160$ u[0]^5 u[1]^1 u[9]^1 u[10]^1 $+ 4111846200$ u[0]^5 u[1]^1 u[21]^1 $+ 2248333915114980000$ u[0]^5 u[1]^2 u[2]^1 u[3]^1 u[9]^1 $+ 192929102757008180640$ u[0]^5 u[1]^2 u[2]^1 u[3]^2 u[4]^1 $+ 4539833253897590880$ u[0]^5 u[1]^2 u[2]^1 u[4]^1 u[8]^1 $+ 6843696150446860320$ u[0]^5 u[1]^2 u[2]^1 u[5]^1 u[7]^1 $+ 3916964602370690640$ u[0]^5 u[1]^2 u[2]^1 u[6]^2 $+ 1286725414146480$ u[0]^5 u[1]^2 u[2]^1 u[14]^1 $+ 126587213600257982880$ u[0]^5 u[1]^2 u[2]^2 u[3]^1 u[5]^1 $+ 764085929571347709040$ u[0]^5 u[1]^2 u[2]^2 u[4]^2 $+ 402606579908610000$ u[0]^5 u[1]^2 u[2]^2 u[10]^1 $+ 23679754473268666080$ u[0]^5 u[1]^2 u[2]^3 u[6]^1 $+ 25132213172524605840$ u[0]^5 u[1]^2 u[2]^5 $+ 10401698023189371360$ u[0]^5 u[1]^2 u[3]^1 u[4]^1 u[7]^1 $+ 139338894270469992480$ u[0]^5 u[1]^2 u[3]^1 u[5]^1 u[6]^1 $+ 4861708938369360$ u[0]^5 u[1]^2 u[3]^1 u[13]^1 $+ 2859461708358966480$ u[0]^5 u[1]^2 u[3]^2 u[8]^1 $+ 20302754645831870520$ u[0]^5 u[1]^2 u[3]^4 $+ 9837468975512621520$ u[0]^5 u[1]^2 u[4]^1 u[5]^2 $+ 13684143561414480$ u[0]^5 u[1]^2 u[4]^1 u[12]^1 $+ 8406140175139568400$ u[0]^5 u[1]^2 u[4]^2 u[6]^1 $+ 29745292031809200$ u[0]^5 u[1]^2 u[5]^1 u[11]^1 $+ 51097243617882000$ u[0]^5 u[1]^2 u[6]^1 u[10]^1 $+ 70338000816856080$ u[0]^5 u[1]^2 u[7]^1 u[9]^1 $+ 39090958261435080$ u[0]^5 u[1]^2 u[8]^2 $+ 833957170200$ u[0]^5 u[1]^2 u[18]^1 $+ 34627363267370005440$ u[0]^5 u[1]^3 u[2]^1 u[3]^1 u[6]^1 $+ 4887959849439270912 0$ u[0]^5 u[1]^3 u[2]^1 u[4]^1 u[5]^1 $+ 64999240865143200$ u[0]^5 u[1]^3 u[2]^1 u[11]^1 $+ 8504791651221465600$ u[0]^5 u[1]^3 u[2]^2 u[7]^1 $+ 121917355989604338240$ u[0]^5 u[1]^3 u[2]^3 u[3]^1 $+ 37217194335061171200$ u[0]^5 u[1]^3 u[3]^1 u[4]^2 $+ 197364372679504800$ u[0]^5 u[1]^3 u[3]^1 u[10]^1 $+ 30835652542572921120$ u[0]^5 u[1]^3 u[3]^2 u[5]^1 $+ 437565634608564000$ u[0]^5 u[1]^3 u[4]^1 u[9]^1 $+ 732433769158845600$ u[0]^5 u[1]^3 u[5]^1 u[8]^1 $+ 943598808990684000$ u[0]^5 u[1]^3 u[6]^1 u[7]^1 $+ 78959408774400$ u[0]^5 u[1]^3 u[15]^1 $+ 66600510365999831760$ u[0]^5 u[1]^4 u[2]^1 u[3]^2 $+ 1362164268428132400$ u[0]^5 u[1]^4 u[2]^1 u[8]^1 $+ 52754371253610752880$ u[0]^5 u[1]^4 u[2]^2 u[4]^1 $+ 3113929322563197600$ u[0]^5 u[1]^4 u[3]^1 u[7]^1 $+ 5025060359264761200$ u[0]^5 u[1]^4 u[4]^1 u[6]^1 $+ 2938692834135412200$ u[0]^5 u[1]^4 u[5]^2 $+ 3651090283625400$ u[0]^5 u[1]^4 u[12]^1 $+ 10110736886848012800$ u[0]^5 u[1]^5 u[2]^1 u[5]^1 $+ 15387842539722945600$ u[0]^5 u[1]^5 u[3]^1 u[4]^1 $+ 78883217759530800$ u[0]^5 u[1]^5 u[9]^1 $+ 8556127114275140400$ u[0]^5 u[1]^6 u[2]^2 $+ 692609425522938000$ u[0]^5 u[1]^6 u[6]^1 $+ 1779051771649152000$ u[0]^5 u[1]^7 u[3]^1 $+ 1414900022948042400$ u[0]^5 u[2]^1 u[3]^1 u[4]^1 u[9]^1 $+ 2373648687037504800$ u[0]^5 u[2]^1 u[3]^1 u[5]^1 u[8]^1 $+ 3061331750447641440$ u[0]^5 u[2]^1 u[3]^1 u[6]^1 u[7]^1 $+ 278490109867200$ u[0]^5 u[2]^1 u[3]^1 u[15]^1 $+ 53668051737353056080$ u[0]^5 u[2]^1 u[3]^2 u[4]^2 $+ 318001263896962800$ u[0]^5 u[2]^1 u[3]^2 u[10]^1 $+ 296232212329138 00800$ u[0]^5 u[2]^1 u[3]^3 u[5]^1 $+ 4322630178447577920$ u[0]^5 u[2]^1 u[4]^1 u[5]^1 u[7]^1 $+ 2475229213285068240$ u[0]^5 u[2]^1 u[4]^1 u[6]^2 $+ 895690634786640$ u[0]^5 u[2]^1 u[4]^1 u[14]^1 $+ 1431723580221931920$ u[0]^5 u[2]^1 u[4]^2 u[8]^1 $+ 2246732201498400$ u[0]^5 u[2]^1 u[5]^1 u[13]^1 $+ 2897239933779040080$ u[0]^5 u[2]^1 u[5]^2 u[6]^1 $+ 4503943031852880$ u[0]^5 u[2]^1 u[6]^1 u[12]^1 $+ 7329905774286480$ u[0]^5 u[2]^1 u[7]^1 u[11]^1 $+ 9781595416731600$ u[0]^5 u[2]^1 u[8]^1 u[10]^1 $+ 5381346791371320$ u[0]^5 u[2]^1 u[9]^2 $+ 30278140200$ u[0]^5 u[2]^1 u[20]^1 $+ 70407649336274601120$ u[0]^5 u[2]^2 u[3]^1 u[4]^1 u[5]^1 $+ 104255523827698320$ u[0]^5 u[2]^2 u[3]^1 u[11]^1 $+ 24903655802872806960$ u[0]^5 u[2]^2 u[3]^2 u[6]^1 $+ 252661300802562960$ u[0]^5 u[2]^2 u[4]^1 u[10]^1 $+ 14171753376989374320$ u[0]^5 u[2]^2 u[4]^3 $+ 4659672754481738800$ u[0]^5 u[2]^2 u[5]^1 u[9]^1 $+ 667885886548206480$ u[0]^5 u[2]^2 u[6]^1 u[8]^1 $+ 376076832421668840$ u[0]^5 u[2]^2 u[7]^2 $+ 32544963629640$ u[0]^5 u[2]^2 u[16]^1 $+ 8134253441315971200$ u[0]^5 u[2]^3 u[3]^1 u[7]^1 $+ 13159701337898475360$ u[0]^5 u[2]^3 u[4]^1 u[6]^1 $+ 7701780416892463440$ u[0]^5 u[2]^3 u[5]^2 $+ 10541896114060080$ u[0]^5 u[2]^3 u[12]^1 $+ 38174025050694613080$ u[0]^5 u[2]^4 u[3]^2 $+ 886062128113867320$ u[0]^5 u[2]^4 u[8]^1 $+ 12088086949720338480$ u[0]^5 u[2]^5 u[4]^1 $+ 8812022194912860000$ u[0]^5 u[3]^1 u[4]^1 u[5]^1 u[6]^1 $+ 3397758168309120$ u[0]^5 u[3]^1 u[4]^1 u[13]^1 $+ 3286077801710679360$ u[0]^5 u[3]^1 u[4]^2 u[7]^1 $+ 79966423154566800$ u[0]^5 u[3]^1 u[5]^1 u[12]^1 $+ 1719408967188731280$ u[0]^5 u[3]^1 u[5]^3 $+ 14843667293864640$ u[0]^5 u[3]^1 u[6]^1 u[11]^1 $+ 22310950746823200$ u[0]^5 u[3]^1 u[7]^1 u[10]^1 $+ 27295738007519520$ u[0]^5 u[3]^1 u[8]^1 u[9]^1 $+ 158866785000$ u[0]^5 u[3]^1 u[19]^1 $+ 1803542665804886160$ u[0]^5 u[3]^2 u[4]^1 u[8]^1 $+ 2723075248825895040$ u[0]^5 u[3]^2 u[5]^1 u[7]^1 $+ 1559352431975821560$ u[0]^5 u[3]^2 u[6]^2 $+ 562281436137960$ u[0]^5 u[3]^2 u[14]^1 $+ 296971322948546400$ u[0]^5 u[3]^3 u[9]^1 $+ 11294140305384117720$ u[0]^5 u[3]^4 u[4]^1 $+ 20915191880795520$ u[0]^5 u[4]^1 u[5]^1 u[11]^1 $+ 35995266258169680$ u[0]^5 u[4]^1 u[6]^1 u[10]^1 $+ 49603225682712240$ u[0]^5 u[4]^1 u[7]^1 u[9]^1 $+ 27577376520641640$ u[0]^5 u[4]^1 u[8]^2 $+ 635541900840$ u[0]^5 u[4]^1 u[18]^1 $+ 3113140503969646920$ u[0]^5 u[4]^2 u[5]^2 $+ 4798254254963400$ u[0]^5 u[4]^2 u[12]^1 $+ 1772679682020083760$ u[0]^5 u[4]^3 u[6]^1 $+ 66437237512467360$ u[0]^5 u[5]^1 u[6]^1 u[9]^1 $+ 83210760795143520$ u[0]^5 u[5]^1 u[7]^1 u[8]^1 $+ 2012487051960$ u[0]^5 u[5]^1 u[17]^1 $+ 21052237696098840$ u[0]^5 u[5]^2 u[10]^1 $+ 53662026450102840$ u[0]^5 u[6]^1 u[7]^2 $+ 5175020105640$ u[0]^5 u[6]^1 u[16]^1 $+ 47639903078635560$ u[0]^5 u[6]^2 u[8]^1 $+ 10996870998960$ u[0]^5 u[7]^1 u[15]^1 $+ 19550034420840$ u[0]^5 u[8]^1 u[14]^1 $+ 29325014250840$ u[0]^5 u[9]^1 u[13]^1 $+ 37322779392360$ u[0]^5 u[10]^1 u[12]^1 $+ 20216489929020$ u[0]^5 u[11]^2 $+ 7476084$ u[0]^5 u[24]^1 $+ 24905040094971036000$ u[0]^6 u[1]^1 u[2]^1 u[3]^1 u[4]^2 $+ 1337330322567811200$ u[0]^6 u[1]^1 u[2]^1 u[3]^1 u[10]^1 $+ 20635282519116249600$ u[0]^6 u[1]^1 u[2]^1 u[3]^2 u[5]^1 $+ 296484670251000000$ u[0]^6 u[1]^1 u[2]^1 u[4]^1 u[9]^1 $+ 4962829942179648 00$ u[0]^6 u[1]^1 u[2]^1 u[5]^1 u[8]^1 $+ 639391053397219200$ u[0]^6 u[1]^1 u[2]^1 u[6]^1 u[7]^1 $+ 54083985278400$ u[0]^6 u[1]^1 u[2]^1 u[15]^1 $+ 11596864200124896000$ u[0]^6 u[1]^1 u[2]^2 u[3]^1 u[6]^1 $+ 16368131612523952800$ u[0]^6 u[1]^1 u[2]^2 u[4]^1 u[5]^1 $+ 22036896945201600$ u[0]^6 u[1]^1 u[2]^2 u[11]^1 $+ 19005729153391920000$ u[0]^6 u[1]^1 u[2]^3 u[7]^1 $+ 20186117119168308000$ u[0]^6 u[1]^1 u[2]^4 u[3]^1 $+ 752640901024320000$ u[0]^6 u[1]^1 u[3]^1 u[4]^1 u[8]^1 $+ 1134389661866445600$ u[0]^6 u[1]^1 u[3]^1 u[5]^1 u[7]^1 $+ 649245343513536000$ u[0]^6 u[1]^1 u[3]^1 u[6]^2 $+ 217058130828000$ u[0]^6 u[1]^1 u[3]^1 u[14]^1 $+ 186446658208734000$ u[0]^6 u[1]^1 u[3]^2 u[9]^1 $+ 10470183248586600000$ u[0]^6 u[1]^1 u[3]^3 u[4]^1 $+ 18318429227054880 00$ u[0]^6 u[1]^1 u[4]^1 u[5]^1 u[6]^1 $+ 652979866770000$ u[0]^6 u[1]^1 u[4]^1 u[13]^1 $+ 683956647019800000$ u[0]^6 u[1]^1 u[4]^2 u[7]^1 $+ 1526118694808400$ u[0]^6 u[1]^1 u[5]^1 u[12]^1 $+ 357184148311544400$ u[0]^6 u[1]^1 u[5]^3 $+ 2837374486254000$ u[0]^6 u[1]^1 u[6]^1 u[11]^1 $+ 4258850184111600$ u[0]^6 u[1]^1 u[7]^1 u[10]^1 $+ 5206901865858000$ u[0]^6 u[1]^1 u[8]^1 u[9]^1 $+ 28658322000$ u[0]^6 u[1]^1 u[19]^1 $+ 4175699025748219200$ u[0]^6 u[1]^2 u[2]^1 u[4]^1 u[6]^1 $+ 6737814238187340000$ u[0]^6 u[1]^2 u[2]^1 u[4]^1 u[6]^1 $+ 3940000954856643600$ u[0]^6 u[1]^2 u[2]^1 u[5]^2 $+ 4955786185165200$ u[0]^6 u[1]^2 u[2]^1 u[12]^1 $+ 44105475224036041200$ u[0]^6 u[1]^2 u[2]^2 u[3]^2 $+ 914091151764898800$ u[0]^6 u[1]^2 u[2]^2 u[8]^1 $+ 23310432389574237600$ u[0]^6 u[1]^2 u[2]^3 u[4]^1 $+ 11976960269927268000$ u[0]^6 u[1]^2 u[3]^1 u[4]^1 u[5]^1 $+ 16233420521934000$ u[0]^6 u[1]^2 u[3]^1 u[11]^1 $+ 4244140755836982000$ u[0]^6 u[1]^2 u[3]^2 u[6]^1 $+ 39173547533274000$ u[0]^6 u[1]^2 u[4]^1 u[10]^1 $+ 2408345793211050000$ u[0]^6 u[1]^2 u[4]^3 $+ 72043324584462000$ u[0]^6 u[1]^2 u[5]^1 u[9]^1 $+ 103098800586474000$ u[0]^6 u[1]^2 u[6]^1 u[8]^1 $+ 58024037422751400$ u[0]^6 u[1]^2 u[7]^2 $+ 4714293969000$ u[0]^6 u[1]^2 u[16]^1 $+ 33999742475694072000$ u[0]^6 u[1]^3 u[2]^1 u[3]^1 u[4]^1 $+ 176635166430492000$ u[0]^6 u[1]^3 u[2]^1 u[9]^1 $+ 11179267638432616800$ u[0]^6 u[1]^3 u[2]^2 u[5]^1 $+ 447058589137776000$ u[0]^6 u[1]^3 u[3]^1 u[8]^1 $+ 7146568859256288000$ u[0]^6 u[1]^3 u[3]^3 $+ 810696356565480000$ u[0]^6 u[1]^3 u[4]^1 u[7]^1 $+ 1084378115850876000$ u[0]^6 u[1]^3

$$
\begin{aligned}
&u[5]^1\ u[6]^1\ +346851671166000\ u[0]^6\ u[1]^3\ u[13]^1\ +2300080155092874000\ u[0]^6\ u[1]^4\ u[2]^1\ u[6]^1\ +9356700411517258800 \\
&u[0]^6\ u[1]^4\ u[2]^3\ +4082834581944426000\ u[0]^6\ u[1]^4\ u[3]^1\ u[5]^1\ +2461594603340565000\ u[0]^6\ u[1]^4\ u[4]^2\ + \\
&11695762120581000\ u[0]^6\ u[1]^4\ u[10]^1\ +8172519076013292000\ u[0]^6\ u[1]^5\ u[2]^1\ u[3]^1\ +1661381389316880 00\ u[0]^6\ u[1]^5 \\
&u[7]^1\ +787601044740510000\ u[0]^6\ u[1]^6\ u[4]^1\ +81076578135052500\ u[0]^6\ u[1]^8\ +2345207572191607200\ u[0]^6\ u[2]^1\ u[3]^1 \\
&u[4]^1\ u[7]^1\ +3141411518491646400\ u[0]^6\ u[2]^1\ u[3]^1\ u[5]^1\ u[6]^1\ +1108521089953200\ u[0]^6\ u[2]^1\ u[3]^1\ u[13]^1\ + \\
&644751082409187600\ u[0]^6\ u[2]^1\ u[3]^2\ u[8]^1\ +4521411313677304200\ u[0]^6\ u[2]^1\ u[3]^4\ +2217620063506201200\ u[0]^6\ u[2]^1 \\
&u[4]^1\ u[5]^2\ +3120449927641200\ u[0]^6\ u[2]^1\ u[4]^1\ u[12]^1\ +1895165405272062000\ u[0]^6\ u[2]^1\ u[4]^2\ u[6]^1\ +6783527987359200 \\
&u[0]^6\ u[2]^1\ u[5]^1\ u[11]^1\ +11654554319377200\ u[0]^6\ u[2]^1\ u[6]^1\ u[10]^1\ +16044212548425600\ u[0]^6\ u[2]^1\ u[7]^1\ u[9]^1\ + \\
&8917056951125400\ u[0]^6\ u[2]^1\ u[8]^2\ +192010757400\ u[0]^6\ u[2]^1\ u[18]^1\ +253681976111256000\ u[0]^6\ u[2]^2\ u[3]^1\ u[9]^1\ + \\
&21500080222171597200\ u[0]^6\ u[2]^2\ u[3]^2\ u[4]^1\ +512234359534774800\ u[0]^6\ u[2]^2\ u[4]^1\ u[8]^1\ +772128410961045600\ u[0]^6 \\
&u[2]^2\ u[5]^1\ u[7]^1\ +441947672589792600\ u[0]^6\ u[2]^2\ u[6]^2\ +146785059451800\ u[0]^6\ u[2]^2\ u[14]^1\ +9412612356401100000 \\
&u[0]^6\ u[2]^3\ u[3]^1\ u[5]^1\ +5682018769171390800\ u[0]^6\ u[2]^3\ u[4]^2\ +30309390978728400\ u[0]^6\ u[2]^3\ u[10]^1\ + \\
&1321972871869881000\ u[0]^6\ u[2]^4\ u[6]^1\ +925335189950787000\ u[0]^6\ u[2]^6\ +10261513408608000\ u[0]^6\ u[3]^1\ u[4]^1\ u[11]^1\ + \\
&33720140824149 78000\ u[0]^6\ u[3]^1\ u[4]^2\ u[5]^1\ +20619129634210800\ u[0]^6\ u[3]^1\ u[5]^1\ u[10]^1\ +32496101190630000\ u[0]^6 \\
&u[3]^1\ u[6]^1\ u[9]^1\ +40675925674137600\ u[0]^6\ u[3]^1\ u[7]^1\ u[8]^1\ +911334639600\ u[0]^6\ u[3]^1\ u[17]^1\ +2387460639837042000 \\
&u[0]^6\ u[3]^2\ u[4]^1\ u[6]^1\ +1397005872727033800\ u[0]^6\ u[3]^2\ u[5]^2\ +1958965392799800\ u[0]^6\ u[3]^2\ u[12]^1\ + \\
&492288047057822400\ u[0]^6\ u[3]^3\ u[7]^1\ +45796457089152000\ u[0]^6\ u[4]^1\ u[5]^1\ u[9]^1\ +65629649437506000\ u[0]^6\ u[4]^1\ u[6]^1 \\
&u[8]^1\ +36953178122183400\ u[0]^6\ u[4]^1\ u[7]^2\ +3281377869000\ u[0]^6\ u[4]^1\ u[16]^1\ +12421878025095000\ u[0]^6\ u[4]^2\ u[10]^1\ + \\
&339175604099524500\ u[0]^6\ u[4]^4\ +98972220021721200\ u[0]^6\ u[5]^1\ u[6]^1\ u[7]^1\ +9296759656800\ u[0]^6\ u[5]^1\ u[15]^1\ + \\
&38382483273611400\ u[0]^6\ u[5]^2\ u[8]^1\ +21250145763000\ u[0]^6\ u[6]^1\ u[14]^1\ +18885619260585000\ u[0]^6\ u[6]^3\ +39843665076600 \\
&u[0]^6\ u[7]^1\ u[13]^1\ +61979352989400\ u[0]^6\ u[8]^1\ u[12]^1\ +80572872303000\ u[0]^6\ u[9]^1\ u[11]^1\ +43948969703100\ u[0]^6 \\
&u[10]^2\ +62300700\ u[0]^6\ u[22]^1\ +260179233663729600\ u[0]^7\ u[1]^1\ u[2]^1\ u[3]^1\ u[8]^1\ +4103696134780862400\ u[0]^7\ u[1]^1 \\
&u[2]^1\ u[3]^3\ +471791267988321600\ u[0]^7\ u[1]^1\ u[2]^1\ u[4]^1\ u[7]^1\ +631020252312331200\ u[0]^7\ u[1]^1\ u[2]^1\ u[5]^1\ u[6]^1\ + \\
&204299445873600\ u[0]^7\ u[1]^1\ u[2]^1\ u[13]^1\ +9771738702940051200\ u[0]^7\ u[1]^1\ u[2]^2\ u[3]^1\ u[4]^1\ +51448394037348000\ u[0]^7 \\
&u[1]^1\ u[2]^2\ u[9]^1\ +2144173774862275200\ u[0]^7\ u[1]^1\ u[2]^3\ u[5]^1\ +956961816075144000\ u[0]^7\ u[1]^1\ u[3]^1\ u[4]^1\ u[6]^1\ + \\
&5594965907183136 00\ u[0]^7\ u[1]^1\ u[3]^1\ u[5]^2\ +717443896276800\ u[0]^7\ u[1]^1\ u[3]^1\ u[12]^1\ +296660966422233600\ u[0]^7\ u[1]^1 \\
&u[3]^2\ u[7]^1\ +1870929893448000\ u[0]^7\ u[1]^1\ u[4]^1\ u[11]^1\ +674711054749908000\ u[0]^7\ u[1]^1\ u[4]^2\ u[5]^1\ +374789604831 8400 \\
&u[0]^7\ u[1]^1\ u[5]^1\ u[10]^1\ +5895622754208000\ u[0]^7\ u[1]^1\ u[6]^1\ u[9]^1\ +7372888835716800\ u[0]^7\ u[1]^1\ u[7]^1\ u[8]^1\ + \\
&154754938800\ u[0]^7\ u[1]^1\ u[17]^1\ +4696927088097499200\ u[0]^7\ u[1]^2\ u[2]^1\ u[3]^1\ u[5]^1\ +28319097127127400 00\ u[0]^7\ u[1]^2 \\
&u[2]^1\ u[4]^2\ +13636879110439200\ u[0]^7\ u[1]^2\ u[2]^1\ u[10]^1\ +1324469916090842400\ u[0]^7\ u[1]^2\ u[2]^2\ u[6]^1\ + \\
&2662296102922856400\ u[0]^7\ u[1]^2\ u[2]^4\ +37804109616504000\ u[0]^7\ u[1]^2\ u[3]^1\ u[9]^1\ +3566162107870956000\ u[0]^7\ u[1]^2 \\
&u[3]^2\ u[4]^1\ +76028735073852000\ u[0]^7\ u[1]^2\ u[4]^1\ u[8]^1\ +114346455862003200\ u[0]^7\ u[1]^2\ u[5]^1\ u[7]^1\ +65400792266106000 \\
&u[0]^7\ u[1]^2\ u[6]^2\ +20146800366000\ u[0]^7\ u[1]^2\ u[14]^1\ +319183689067689600\ u[0]^7\ u[1]^3\ u[2]^1\ u[7]^1\ +7747539419847427200 \\
&u[0]^7\ u[1]^3\ u[2]^2\ u[3]^1\ +645944068580976000\ u[0]^7\ u[1]^3\ u[3]^1\ u[6]^1\ +909641882588472000\ u[0]^7\ u[1]^3\ u[4]^1\ u[5]^1\ + \\
&1110796560720000\ u[0]^7\ u[1]^3\ u[11]^1\ +2241865158673140000\ u[0]^7\ u[1]^4\ u[2]^1\ u[4]^1\ +1411183720652706000\ u[0]^7\ u[1]^4 \\
&u[3]^2\ +25761223570698000\ u[0]^7\ u[1]^4\ u[8]^1\ +215883311575932000\ u[0]^7\ u[1]^5\ u[5]^1\ +426231153624276000\ u[0]^7\ u[1]^6 \\
&u[2]^1\ +2319199344181209600\ u[0]^7\ u[2]^1\ u[3]^1\ u[4]^1\ u[5]^1\ +3182758851333600\ u[0]^7\ u[2]^1\ u[3]^1\ u[11]^1\ + \\
&82189371484828080 0\ u[0]^7\ u[2]^1\ u[3]^2\ u[6]^1\ +7681329348501600\ u[0]^7\ u[2]^1\ u[4]^1\ u[10]^1\ +466410252077748000\ u[0]^7\ u[2]^1 \\
&u[4]^3\ +14126500810144800\ u[0]^7\ u[2]^1\ u[5]^1\ u[9]^1\ +20218333175330400\ u[0]^7\ u[2]^1\ u[6]^1\ u[8]^1\ +11378741715594000\ u[0]^7 \\
&u[2]^1\ u[7]^2\ +934261297200\ u[0]^7\ u[2]^1\ u[16]^1\ +404744645484748800\ u[0]^7\ u[2]^2\ u[3]^1\ u[7]^1\ +653130922328834400\ u[0]^7 \\
&u[2]^2\ u[4]^1\ u[6]^1\ +381841871730303600\ u[0]^7\ u[2]^2\ u[5]^2\ +486245749374000\ u[0]^7\ u[2]^2\ u[12]^1\ +2815456170894760800 \\
&u[0]^7\ u[2]^3\ u[3]^2\ +59137222040503200\ u[0]^7\ u[2]^3\ u[8]^1\ +1117685879674808400\ u[0]^7\ u[2]^4\ u[4]^1\ +21371943631500000 \\
&u[0]^7\ u[3]^1\ u[4]^1\ u[9]^1\ +35768676041920800\ u[0]^7\ u[3]^1\ u[5]^1\ u[8]^1\ +46081970944336800\ u[0]^7\ u[3]^1\ u[6]^1\ u[7]^1\ + \\
&3966311764800\ u[0]^7\ u[3]^1\ u[15]^1\ +880979364191322000\ u[0]^7\ u[3]^2\ u[4]^2\ +4821588270140400\ u[0]^7\ u[3]^2\ u[10]^1\ + \\
&486730423828519200\ u[0]^7\ u[3]^3\ u[5]^1\ +64946096872826400\ u[0]^7\ u[4]^1\ u[5]^1\ u[7]^1\ +37168979790294000\ u[0]^7\ u[4]^1\ u[6]^2 \\
&+12695636646000\ u[0]^7\ u[4]^1\ u[14]^1\ +21553731556038000\ u[0]^7\ u[4]^2\ u[8]^1\ +31736225782800\ u[0]^7\ u[5]^1\ u[13]^1\ + \\
&43466854027330800\ u[0]^7\ u[5]^2\ u[6]^1\ +63474907993200\ u[0]^7\ u[6]^1\ u[12]^1\ +103144576114800\ u[0]^7\ u[7]^1\ u[11]^1\ + \\
&137528012041200\ u[0]^7\ u[8]^1\ u[10]^1\ +75639546873000\ u[0]^7\ u[9]^2\ +409404600\ u[0]^7\ u[20]^1\ +32984584723000400\ u[0]^8 \\
&u[1]^1\ u[2]^1\ u[3]^1\ u[6]^1\ +464479581865068000\ u[0]^8\ u[1]^1\ u[2]^1\ u[4]^1\ u[5]^1\ +574837220172600\ u[0]^8\ u[1]^1\ u[2]^1\ u[11]^1 \\
&+81599115350491200\ u[0]^8\ u[1]^1\ u[2]^2\ u[7]^1\ +1303458670194080400\ u[0]^8\ u[1]^1\ u[2]^3\ u[3]^1\ +351928120350114000\ u[0]^8 \\
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&96125557373307000\ u[0]^8\ u[1]^2\ u[4]^1\ u[6]^1\ +56141046674489700\ u[0]^8\ u[1]^2\ u[5]^2\ +65259297942300\ u[0]^8\ u[1]^2\ u[12]^1\ + \\
&363463742633191200\ u[0]^8\ u[1]^3\ u[2]^1\ u[5]^1\ +5501775365246160 00\ u[0]^8\ u[1]^3\ u[3]^1\ u[4]^1\ +2568717046665000\ u[0]^8\ u[1]^3 \\
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&u[18]^1\ +250764792019341600\ u[0]^9\ u[1]^1\ u[2]^1\ u[3]^1\ u[4]^1\ +1187935210770000\ u[0]^9\ u[1]^1\ u[2]^1\ u[9]^1\ +82959841137373200 \\
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&57528770988889200\ u[0]^9\ u[2]^3\ u[4]^1\ +26122849562132400\ u[0]^9\ u[3]^1\ u[4]^1\ u[5]^1\ +33015342221400\ u[0]^9\ u[3]^1\ u[11]^1\ +
\end{aligned}
$$

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u[7]^1 u[20]^1 + 74288936431477572 u[3]^1 u[7]^2 u[11]^1 + 1782014542484 u[3]^1 u[8]^1 u[19]^1 + 1217477710164423760 u[3]^1 u[8]^2 u[9]^1 + 3569331222324 u[3]^1 u[9]^1 u[18]^1 + 6172086324700 u[3]^1 u[10]^1 u[17]^1 + 9265505540900 u[3]^1 u[11]^1 u[16]^1 + 12122649105260 u[3]^1 u[12]^1 u[15]^1 + 13857939943956 u[3]^1 u[13]^1 u[14]^1 + 92750 u[3]^1 u[29]^1 + 4432087092824870640 u[3]^2 u[4]^1 u[5]^1 u[11]^1 + 7659897652145854680 u[3]^2 u[4]^1 u[6]^1 u[10]^1 + 10581182877965691960 u[3]^2 u[4]^1 u[7]^1 u[9]^1 + 5887273212297406140 u[3]^2 u[4]^1 u[8]^2 + 155546632725940 u[3]^2 u[4]^1 u[18]^1 + 543394457148597979020 u[3]^2 u[4]^2 u[5]^2 + 1010223450394619100 u[3]^2 u[4]^2 u[12]^1 + 308931190260243677880 u[3]^2 u[4]^3 u[6]^1 + 14212482206851102800 u[3]^2 u[5]^1 u[6]^1 u[9]^1 + 17831493691070390880 u[3]^2 u[5]^1 u[7]^1 u[8]^1 + 496769493737220 u[3]^2 u[5]^1 u[17]^1 + 4487404868147921340 u[3]^2 u[5]^2 u[10]^1 + 11523962280664579260 u[3]^2 u[6]^1 u[7]^2 + 1285523800772292 u[3]^2 u[6]^1 u[16]^1 + 10220992707756246780 u[3]^2 u[6]^2 u[8]^1 + 2744568564386520 u[3]^2 u[7]^1 u[15]^1 + 4895732417492580 u[3]^2 u[8]^1 u[14]^1 + 7360368025504580 u[3]^2 u[9]^1 u[13]^1 + 9380114878385460 u[3]^2 u[10]^1 u[12]^1 + 5083092086527654 u[3]^2 u[11]^2 + 2076298466 u[3]^2 u[24]^1 + 510949263010197529200 u[3]^3 u[4]^1 u[5]^1 u[6]^1 + 236258968056755280 u[3]^3 u[4]^1 u[13]^1 + 19000238191127485944 u[3]^3 u[4]^2 u[7]^1 + 557865437686999800 u[3]^3 u[5]^1 u[12]^1 + 99854706434901992920 u[3]^3 u[5]^3 + 1044470962760157360 u[3]^3 u[6]^1 u[11]^1 + 1574657815428098400 u[3]^3 u[7]^1 u[10]^1 + 1929277347890450880 u[3]^3 u[8]^1 u[9]^1 + 12813220668380 u[3]^3 u[19]^1 + 51838213242333234420 u[3]^4 u[4]^1 u[8]^1 + 78574034683526915880 u[3]^4 u[5]^1 u[7]^1 + 45050219388683809230 u[3]^4 u[6]^2 + 19356541580787270 u[3]^4 u[14]^1 + 5086521544794447600 u[3]^5 u[9]^1 + 102159684003447343260 u[3]^6 u[4]^1 + 72961269099914328 u[4]^1 u[5]^1 u[6]^1 u[13]^1 + 128419926072694872 u[4]^1 u[5]^1 u[7]^1 u[12]^1 + 186176520186398688 u[4]^1 u[5]^1 u[8]^1 u[11]^1 + 223810413202424176 u[4]^1 u[5]^1 u[9]^1 u[10]^1 + 389090255708 u[4]^1 u[5]^1 u[21]^1 + 355908506820088504140 u[4]^1 u[5]^2 u[6]^2 + 16884893767443828 u[4]^1 u[5]^2 u[14]^1 + 20693079595834999080 u[4]^1 u[5]^3 u[7]^1 + 240476951238972552 u[4]^1 u[6]^1 u[7]^1 u[11]^1 + 321685293361766808 u[4]^1 u[6]^1 u[8]^1 u[10]^1 + 177116166668825020 u[4]^1 u[6]^1 u[9]^2 + 1228051239636 u[4]^1 u[6]^1 u[20]^1 + 73575790763590596 u[4]^1 u[6]^2 u[12]^1 + 444333471620102040 u[4]^1 u[7]^1 u[8]^1 u[9]^1 + 3234299496428 u[4]^1 u[7]^1 u[19]^1 + 181308689056008996 u[4]^1 u[7]^2 u[10]^1 + 7205774231228 u[4]^1 u[8]^1 u[18]^1 + 82406473333249220 u[4]^1 u[8]^3 + 13717772164228 u[4]^1 u[9]^1 u[17]^1 + 22479638192332 u[4]^1 u[10]^1 u[16]^1 + 31877682141948 u[4]^1 u[11]^1 u[15]^1 + 39256775022052 u[4]^1 u[12]^1 u[14]^1 + 21034419293386 u[4]^1 u[13]^2 + 556514 u[4]^1 u[28]^1 + 52963989389454566520 u[4]^2 u[5]^1 u[6]^1 u[7]^1 + 6260990869461504 u[4]^2 u[5]^1 u[15]^1 + 20483476360664015940 u[4]^2 u[5]^2 u[8]^1 + 14422842368854260 u[4]^2 u[6]^1 u[14]^1 + 10121392817175549660 u[4]^2 u[6]^3 + 27194869706720100 u[4]^2 u[7]^1 u[13]^1 + 42463544612947380 u[4]^2 u[8]^1 u[12]^1 + 55323569416043060 u[4]^2 u[9]^1 u[11]^1 + 30198123772865898 u[4]^2 u[10]^2 + 50474502298 u[4]^2 u[22]^1 + 8099172456851271600 u[4]^3 u[5]^1 u[9]^1 + 11651488672136036040 u[4]^3 u[6]^1 u[8]^1 + 6568830861832302900 u[4]^3 u[7]^2 + 728855672954100 u[4]^3 u[16]^1 + 1090874193475316070 u[4]^4 u[10]^1 + 8831371894421762962 u[4]^6 + 486668274880339944 u[5]^1 u[6]^1 u[7]^1 u[10]^1 + 596366905165378752 u[5]^1 u[6]^1 u[8]^1 u[9]^1 + 4329924136252 u[5]^1 u[6]^1 u[19]^1 + 161356288310669700 u[5]^1 u[6]^2 u[11]^1 + 374066838674472360 u[5]^1 u[7]^1 u[8]^2 + 10867994069492 u[5]^1 u[7]^1 u[18]^1 + 336147428354042484 u[5]^1 u[7]^2 u[9]^1 + 23014304762724 u[5]^1 u[8]^1 u[17]^1 + 41522057073364 u[5]^1 u[9]^1 u[16]^1 + 64277411927948 u[5]^1 u[10]^1 u[15]^1 + 85795481579220 u[5]^1 u[11]^1 u[14]^1 + 99047079163572 u[5]^1 u[12]^1 u[13]^1 + 2689806 u[5]^1 u[27]^1 + 86154343227743556 u[5]^2 u[6]^1 u[12]^1 + 140802642520581780 u[5]^2 u[7]^1 u[11]^1 + 188357387584118124 u[5]^2 u[8]^1 u[10]^1 + 103708466025026914 u[5]^2 u[9]^2 + 717987172578 u[5]^2 u[20]^1 + 14237860390771836 u[5]^3 u[13]^1 + 6953108027944658190 u[5]^4 u[6]^1 + 29686159333116 u[6]^1 u[7]^1 u[17]^1 + 483322642646425284 u[6]^1 u[7]^2 u[8]^1 + 59578689145020 u[6]^1 u[8]^1 u[16]^1 + 101544133684796 u[6]^1 u[9]^1 u[15]^1 + 147961911829316 u[6]^1 u[10]^1 u[14]^1 + 185144014982644 u[6]^1 u[11]^1 u[13]^1 + 99726942606322 u[6]^1 u[12]^2 + 10759234 u[6]^1 u[26]^1 + 385256027353227876 u[6]^2 u[7]^1 u[9]^1 + 214360188350190186 u[6]^2 u[8]^2 + 6221522290418 u[6]^2 u[18]^1 + 92957673042169740 u[6]^3 u[10]^1 + 127261693303404 u[7]^1 u[8]^1 u[15]^1 + 204165095438116 u[7]^1 u[9]^1 u[14]^1 + 278890395185412 u[7]^1 u[10]^1 u[13]^1 + 325649636625860 u[7]^1 u[11]^1 u[12]^1 + 36312406 u[7]^1 u[25]^1 + 33561649280010 u[7]^2 u[16]^1 + 45407167290403779 u[7]^4 + 341574912290612 u[8]^1 u[9]^1 u[13]^1 + 435408203162836 u[8]^1 u[10]^1 u[12]^1 + 235967012885082 u[8]^1 u[11]^2 + 104902514 u[8]^1 u[24]^1 + 113556886672026 u[8]^2 u[14]^1 + 567239089615428 u[9]^1 u[10]^1 u[11]^1 + 262256278 u[9]^1 u[23]^1 + 239694190697098 u[9]^2 u[12]^1 + 572195522 u[10]^1 u[22]^1 + 103206941632134 u[10]^3 + 1096708078 u[11]^1 u[21]^1 + 1855967522 u[12]^1 u[20]^1 + 2783951278 u[13]^1 u[19]^1 + 3711935042 u[14]^1 u[18]^1 + 4407922858 u[15]^1 u[17]^1 + 2333606221 u[16]^2 + 1 u[34]^1

FIN
Wed May 7 06:46:36 EDT 2003

Annexe E

PROGRAMME : VÉRIFICATION DES A_N

```
(****************** Validation des resultats pour a2 *******************)
(* a2c = invariant calculé par le programme.                           *)
(* tau = courbure scalaire.                                            *)
(* lt  = laplacien ( courbure scalaire )                               *)
(* tt  = courbure scalaire au carré.                                   *)
(****************** Vérification des resultats pour a2 *****************)

(****************** Préparation des données ***************************)

Clear[x]
Clear[y]
Clear[u]

tau[x, y] = (
     D[ p[x, y], {x, 1}]^2  - p[x, y] *  D[ p[x, y], {x, 2}] +
     D[ p[x, y], {y, 1}]^2  - p[x, y] *  D[ p[x, y], {y, 2}]  )/ p[x, y]^3

p[x, y] = - 1/u[x, y]

lt = tau[x, y]

lt =   u[x, y] * (  D[ lt , {x, 2}] +  D[lt, {y, 2} ]  )

tt = tau[x, y]^2

a2c = ( -4/60 *    D[ u[x, y], {y, 1}] *       D[ u[x, y], {y, 3}]     -
      16/60  *  D[ u[x, y], {y, 1}] * D[ u[x, y], {x, 1}]  *
       D[ u[x, y], x  , y  ]  -
      4/60 * D[ u[x, y], {y, 1}]  * D[ u[x, y], x, x, y] -
      8/60*   D[ u[x, y], {y, 1}]^2 * D[ u[x, y], {y, 2}] -
      6/60 *   D[ u[x, y], {y, 1}] ^2 * D[ u[x, y], {x, 1}]^2 -
      3/60 * D[ u[x, y], {y, 1}] ^4 +
      2/60 *    D[ u[x, y], {y, 2}]    D[ u[x, y], {x, 2}]  -
      3/60 *D[ u[x, y], {y, 2}] ^2 - 2/60 * D[ u[x, y], {y, 4}]  -
      4/60 *D[ u[x, y], {x, 1}] *   D[ u[x, y], x, y, y]  -
      4/60 *  D[ u[x, y], {x, 1}] *  D[ u[x, y], {x, 3}]  -
      8/60 * D[ u[x, y], {x, 1}]^2 *  D[ u[x, y], {x, 2}] -
      3/60 *  D[ u[x, y], {x, 1}]^4 - 8/60 *  D[ u[x, y], x, y]^2 -
      3/60 *  D[ u[x, y], {x, 2}]^2 - 4/60 *  D[ u[x, y], x, x, y, y ] -
      2/60 * D[ u[x, y], {x, 4}]    )

x = 0
y = 0

u[0, 0] = -1

(**************************** Évaluation ****************************)

Expand[1/60 * tt -   a2c - 1 /30 * lt]

(****************** Validation des resultats pour a3 *******************)
(* a3c = invariant calculé par le programme.                           *)
(* tau = courbure scalaire.                                            *)
(* llt = laplacien (laplacien coubure scalaire).                       *)
(* ltt = laplacien (coubure scalaire * coubure scalaire).              *)
(* ttt = courbure scalaire au cube.                                    *)
(* tlt = coubure scalaire * laplacien ( coubure scalaire ).            *)
(****************** Validation des resultats pour a3 *****************)

(****************** Préparation des données ***************************)

Clear[x]
Clear[y]
Clear[u]

tau[x, y] = (
     D[ p[x, y], {x, 1}]^2  - p[x, y] *  D[ p[x, y], {x, 2}] +
     D[ p[x, y], {y, 1}]^2  - p[x, y] *  D[ p[x, y], {y, 2}]  )/ p[x, y]^3
lt = tau[x, y]
lt = u[x, y] * (  D[ lt , {x, 2}] +  D[lt, {y, 2} ]  )

p[x, y] = -1/u[x, y]

llt = tau[x, y]
llt = u[x, y] * (  D[ llt , {x, 2}] +  D[llt, {y, 2} ]  )
llt = u[x, y] *    (  D[ llt , {x, 2}] +  D[llt, {y, 2} ]  )
```

```
ltt =  tau[x, y]^2
ltt = u[x, y] * (  D[ ltt , {x, 2}] +  D[ltt, {y, 2} ] )

tlt = tau[x, y] * lt

ttt = tau[x, y]^3

a3c = ( 1/14*D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^1*D[u[x, y], {y, 3}]^1 +
        19/105*D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, y]^1 +
        1/70*D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^1*D[u[x, y], x, x, y]^1 +
        1/105*D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 3}]^1*
        D[u[x, y], {x, 1}]^2 + -1/105*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 2}]^1 +
        19/105*D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*
        D[u[x, y], {x, 2}]^1 +
        1/35*D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, y, y]^1 +
        1/35*D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, x, x, y]^1 +
        2/21*D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^2*D[u[x, y], x, x, y]^1 +
        19/105*D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^3*D[u[x, y], x, y]^1 +
        29/210*D[u[x, y], {y, 1}]^1*D[u[x, y], x, y]^1*D[u[x, y], x, y, y]^1 +
        1/42*D[u[x, y], {y, 1}]^1*D[u[x, y], x, y]^1*D[u[x, y], {x, 3}]^1 +
        1/21*D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, y]^1 +
        13/140*D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 2}]^1*
        D[u[x, y], {x, 1}]^2 + -1/210*D[u[x, y], {y, 1}]^2*
        D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 2}]^1 +
        43/420*D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 2}]^2 +
        1/105*D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 4}]^1 +
        2/21*D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y]^1 +
        1/105*D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 3}]^1 +
        13/140*D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^2*D[u[x, y], {x, 2}]^1 +
        29/420*D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^4 +
        5/42*D[u[x, y], {y, 1}]^2*D[u[x, y], x, y]^2 +
        1/84*D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 2}]^2 +
        1/210*D[u[x, y], {y, 1}]^2*D[u[x, y], x, x, y, y]^1 + -1/210*
        D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 4}]^1 +
        4/105*D[u[x, y], {y, 1}]^3*D[u[x, y], {y, 3}]^1 +
        19/105*D[u[x, y], {y, 1}]^3*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1 +
        1/105*D[u[x, y], {y, 1}]^3*D[u[x, y], x, x, y]^1 +
        11/120*D[u[x, y], {y, 1}]^4*D[u[x, y], {y, 2}]^1 +
        29/420*D[u[x, y], {y, 1}]^4*D[u[x, y], {x, 1}]^2 +
        1/840*D[u[x, y], {y, 1}]^4*D[u[x, y], {x, 2}]^1 +
        29/1260*D[u[x, y], {y, 1}]^6 +
        1/60*D[u[x, y], {y, 2}]^1*D[u[x, y], {y, 4}]^1 +
        1/21*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, y, y]^1 + -1/105*D[u[x, y], {y, 2}]^1*
        D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 3}]^1 + -1/210*
        D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^2*D[u[x, y], {x, 2}]^1 +
        1/840*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^4 +
        1/15*D[u[x, y], {y, 2}]^1*D[u[x, y], x, y]^2 + -1/210*
        D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 2}]^2 +
        1/210*D[u[x, y], {y, 2}]^1*D[u[x, y], x, x, y, y]^1 + -1/84*
        D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 4}]^1 +
        1/84*D[u[x, y], {y, 2}]^2*D[u[x, y], {x, 1}]^2 + -1/210*
        D[u[x, y], {y, 2}]^2*D[u[x, y], {x, 2}]^1 +
        13/630*D[u[x, y], {y, 2}]^3 +
        1/42*D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1 +
        1/210*D[u[x, y], {y, 3}]^1*D[u[x, y], x, x, y]^1 +
        1/60*D[u[x, y], {y, 3}]^2 + -1/210*D[u[x, y], {y, 4}]^1*
        D[u[x, y], {x, 1}]^2 + -1/84*D[u[x, y], {y, 4}]^1*
        D[u[x, y], {x, 2}]^1 + 1/280*D[u[x, y], {y, 6}]^1 +
        29/210*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*D[u[x, y], x, x, y]^1 +
        1/70*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y]^1*D[u[x, y], {x, 2}]^1 +
        1/14*D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 2}]^1*D[u[x, y], {x, 3}]^1 +
        5/42*D[u[x, y], {x, 1}]^2*D[u[x, y], x, y]^2 +
        43/420*D[u[x, y], {x, 1}]^2*D[u[x, y], {x, 2}]^2 +
        1/210*D[u[x, y], {x, 1}]^2*D[u[x, y], x, x, y, y]^1 +
        1/105*D[u[x, y], {x, 1}]^2*D[u[x, y], {x, 4}]^1 +
        1/105*D[u[x, y], {x, 1}]^3*D[u[x, y], x, y, y]^1 +
        4/105*D[u[x, y], {x, 1}]^3*D[u[x, y], {x, 3}]^1 +
        11/120*D[u[x, y], {x, 1}]^4*D[u[x, y], {x, 2}]^1 +
        29/1260*D[u[x, y], {x, 1}]^6 +
        2/35*D[u[x, y], x, y]^1*D[u[x, y], x, y, y]^1 +
        2/35*D[u[x, y], x, y]^1*D[u[x, y], x, x, x, y]^1 +
        1/15*D[u[x, y], x, y]^2*D[u[x, y], {x, 2}]^1 +
        1/210*D[u[x, y], x, y, y]^1*D[u[x, y], {x, 3}]^1 +
        19/420*D[u[x, y], x, y, y]^2 +
```

```
         1/210*D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, y, y]^1 +
         1/60*D[u[x, y], {x, 2}]^1*D[u[x, y], {x, 4}]^1 +
         13/630*D[u[x, y], {x, 2}]^3 + 19/420*D[u[x, y], x, x, y]^2 +
         3/280*D[u[x, y], x, x, y, y, y, y]^1 + 1/60*D[u[x, y], {x, 3}]^2 +
         3/280*D[u[x, y], x, x, x, x, y, y]^1 + 1/280*D[u[x, y], {x, 6}]^1 )

u[0, 0] = -1

x = 0
y = 0

(*************************** Évaluation ***************************)


Expand[(7!)/2 * a3c + 4 * ttt  - 9 *tlt  + 9 * llt  - 6  * ltt]

(****************** Validation des resultats pour a4 *******************)
(* a4c   = invariant calculé par le programme.                       *)
(* tau   = courbure scalaire.                                        *)
(* llt   = laplacien (laplacien courbure scalaire)                   *)
(* lllt  = laplacien (laplacien (laplacien courbure scalaite)).      *)
(* lltt  = laplacien (laplcaien (courbure scalaire * courbure scalaire) *)
(* lt    = laplacien (coubure scalaire).                             *)
(* ltt   = laplacien ( courbure scalaire * courbure scalaire)        *)
(* ltlt2 = laplacien (coubure scalaire * laplacien(coubure scalaire)). *)
(* lttt  = laplacien (coubure scalaire au cube)                      *)
(* tllt  = coubure scalaire * laplacien (laplacien coubure scalaire) *)
(* tltt  = coubure scalaire * laplacien (coubure scalaire au carrê)  *)
(* ttlt  = coubure scalaire au carré * laplacien(coubure scalaire)   *)
(* tttt  = courbure scalaire a la 4.                                 *)
(*************** Validation des resultats pour a4 *******************)


(***************** Préparation des données **************************)

Clear[x]
Clear[y]
Clear[u]

tau[x, y] = (
     D[ p[x, y], {x, 1}]^2  - p[x, y] *  D[ p[x, y], {x, 2}] +
     D[ p[x, y], {y, 1}]^2  - p[x, y] *  D[ p[x, y], {y, 2}]  )/ p[x, y]^3

lt = tau[x, y]
lt = u[x, y] * (  D[lt , {x, 2}] +  D[lt, {y, 2} ]  )

lllt = tau[x, y]
lllt = u[x, y] * (  D[lllt , {x, 2}] +  D[lllt, {y, 2} ]  )
lllt = u[x, y] * (  D[lllt, {x, 2}] +  D[lllt, {y, 2} ]  )
lllt = u[x, y] * (  D[lllt , {x, 2}] +  D[lllt, {y, 2} ]  )

llt = tau[x, y]
llt = u[x, y] * (  D[llt , {x, 2}] +  D[llt, {y, 2} ]  )
llt =  u[x, y] *  (  D[llt , {x, 2}] +   D[llt, {y, 2}]  )

ltt =  tau[x, y]^2
ltt = u[x, y] * (  D[ ltt , {x, 2}] +  D[ltt, {y, 2} ]  )

lltt =  tau[x, y]^2
lltt = u[x, y] * (  D[ lltt , {x, 2}] +  D[lltt, {y, 2} ]  )
lltt = u[x, y] * (  D[ lltt , {x, 2}] +  D[lltt, {y, 2} ]  )

lttt =  tau[x, y]^3
lttt = u[x, y] * (  D[ lttt , {x, 2}] +  D[lttt, {y, 2} ]  )

ltlt2 = tau[x, y] * lt
ltlt2 = u[x, y] * (  D[ ltlt2 , {x, 2}] +  D[ltlt2, {y, 2} ]  )

tttt = tau[x, y]^4

ttlt = tau[x, y]^2 * lt

tltt = tau[x, y] * ltt

tllt = tau[x, y] * llt

p[x, y] = -1/u[x, y]

a4c = (    -1/30*D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^1*
         D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^2 +
         13/1890 * D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^1*
         D[u[x, y], {y, 3}]^1*
         D[u[x, y], {x, 2}]^1 + -1/210*D[u[x, y], {y, 1}]^1*
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        D[u[x, y], {y, 2}]^1*D[u[x, y], {y, 5}]^1 + -128/945*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, y]^1*D[u[x, y], {x, 2}]^1 + -34/945*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, y, y, y]^1 + -2/189*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, x, x, y]^1 + -131/1890*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^2*
        D[u[x, y], x, x, y]^1 + -58/315*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^3*
        D[u[x, y], x, y]^1 + -317/1890*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 2}]^1*D[u[x, y], x, y]^1*
        D[u[x, y], x, y, y]^1 + -17/1890*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 2}]^1*D[u[x, y], x, y]^1*
        D[u[x, y], {x, 3}]^1 + -47/1890*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 2}]^1*
        D[u[x, y], x, x, y]^1 + -1/189*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 2}]^1*D[u[x, y], x, x, y, y, y]^1 + -1/1890*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^1*
        D[u[x, y], x, x, x, x, y]^1 + -47/630*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 2}]^2*D[u[x, y], {y, 3}]^1 + -52/315*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^2*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, y]^1 + -1/90*D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 2}]^2*
        D[u[x, y], x, x, y]^1 + -1/126*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 3}]^1*D[u[x, y], {y, 4}]^1 + -34/945*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, y, y]^1 + -19/1890*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^2*
        D[u[x, y], {x, 2}]^1 + -1/126*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^4 + -7/135*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 3}]^1*D[u[x, y], x, y]^2 + -2/945*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 3}]^1*
        D[u[x, y], {x, 2}]^2 + -1/315*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 3}]^1*D[u[x, y], x, x, y, y]^1 +
1/1890*D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 3}]^1*
        D[u[x, y], {x, 4}]^1 + -2/189*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 4}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, y]^1 + -1/1890*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 4}]^1*D[u[x, y], x, x, y]^1 + -1/3780*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 5}]^1*
        D[u[x, y], {x, 1}]^2 + -1/945*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {y, 5}]^1*D[u[x, y], {x, 2}]^1 +
1/945*D[u[x, y], {y, 1}]^1*D[u[x, y], {y, 7}]^1 + -52/315*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*
        D[u[x, y], {x, 2}]^2 + -68/945*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*
        D[u[x, y], x, x, y, y]^1 + -2/189*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*
        D[u[x, y], {x, 4}]^1 + -184/945*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^3 + -68/945*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y]^1*
        D[u[x, y], x, x, y]^1 + -2/189*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y, y]^1*
        D[u[x, y], {x, 2}]^1 + -2/945*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y, y, y]^1 + -34/945*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 2}]^1*
        D[u[x, y], x, x, x, y]^1 + -34/945*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^1*D[u[x, y], x, x, y]^1*
        D[u[x, y], {x, 3}]^1 + -4/945*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^1*D[u[x, y], x, x, x, y, y]^1 + -2/945*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^1*
        D[u[x, y], x, x, x, x, y]^1 + -62/315*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^2*D[u[x, y], x, y]^1*
        D[u[x, y], x, y, y]^1 + -86/945*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^2*D[u[x, y], x, y]^1*
        D[u[x, y], {x, 3}]^1 + -41/270*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^2*D[u[x, y], {x, 2}]^1*
        D[u[x, y], x, x, y]^1 + -13/1890*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^2*D[u[x, y], x, x, y, y]^1 + -5/756*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^2*
        D[u[x, y], x, x, x, x, y]^1 + -38/105*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^3*D[u[x, y], x, y]^1*D[u[x, y], {x, 2}]^1 + -2/189*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^3*
        D[u[x, y], x, y, y, y]^1 + -26/945*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^3*D[u[x, y], x, x, x, y]^1 + -53/630*
        D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 1}]^4*
        D[u[x, y], x, x, y]^1 + -10/63*D[u[x, y], {y, 1}]^1*
        D[u[x, y], {x, 1}]^5*D[u[x, y], x, y]^1 + -137/1890*
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      D[u[x, y], {y, 1}]^1*D[u[x, y], x, y]^1*D[u[x, y], x, y, y]^1*
      D[u[x, y], {x, 2}]^1 + -1/126*D[u[x, y], {y, 1}]^1*D[u[x, y], x, y]^1*
      D[u[x, y], x, y, y, y, y]^1 + -11/270*D[u[x, y], {y, 1}]^1*
      D[u[x, y], x, y]^1*D[u[x, y], {x, 2}]^1*D[u[x, y], {x, 3}]^1 + -1/135*
      D[u[x, y], {y, 1}]^1*D[u[x, y], x, y]^1*D[u[x, y], x, x, x, y, y]^1 +
1/1890*D[u[x, y], {y, 1}]^1*D[u[x, y], x, y]^1*
      D[u[x, y], {x, 5}]^1 + -109/945*D[u[x, y], {y, 1}]^1*
      D[u[x, y], x, y]^2*D[u[x, y], x, x, y]^1 + -19/945*
      D[u[x, y], {y, 1}]^1*D[u[x, y], x, y, y]^1*
      D[u[x, y], x, y, y, y]^1 + -1/135*D[u[x, y], {y, 1}]^1*
      D[u[x, y], x, y, y]^1*D[u[x, y], x, x, x, y]^1 + -1/945*
      D[u[x, y], {y, 1}]^1*D[u[x, y], x, y, y, y]^1*
      D[u[x, y], {x, 3}]^1 + -2/315*D[u[x, y], {y, 1}]^1*
      D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, y, y, y]^1 + -1/189*
      D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 2}]^1*
      D[u[x, y], x, x, x, x, y]^1 + -32/945*D[u[x, y], {y, 1}]^1*
      D[u[x, y], {x, 2}]^2*D[u[x, y], x, x, y]^1 + -1/63*
      D[u[x, y], {y, 1}]^1*D[u[x, y], x, x, y]^1*
      D[u[x, y], x, x, y, y]^1 + -1/378*D[u[x, y], {y, 1}]^1*
      D[u[x, y], x, x, y]^1*D[u[x, y], {x, 4}]^1 +
1/315*D[u[x, y], {y, 1}]^1 D[u[x, y], x, x, y, y, y, y]^1 + -1/189*
      D[u[x, y], {y, 1}]^1*D[u[x, y], {x, 3}]^1*D[u[x, y], x, x, x, y]^1 +
1/315*D[u[x, y], {y, 1}]^1*D[u[x, y], x, x, x, x, y, y]^1 +
1/945*D[u[x, y], {y, 1}]^1*D[u[x, y], x, x, x, x, x, y]^1 + -31/1260*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 2}]^1*
      D[u[x, y], {y, 4}]^1 + -41/270*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*
      D[u[x, y], x, y, y]^1 + -19/1890*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*
      D[u[x, y], {x, 3}]^1 + -31/315*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^2*
      D[u[x, y], {x, 2}]^1 + -11/126*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^4 + -62/315*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 2}]^1*D[u[x, y], x, y]^2 + -5/378*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 2}]^1*
      D[u[x, y], {x, 2}]^2 + -11/945*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 2}]^1*D[u[x, y], x, x, y, y]^1 +
1/3780*D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 2}]^1*
      D[u[x, y], {x, 4}]^1 + -23/210*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 2}]^2*D[u[x, y], {x, 1}]^2 +
1/630*D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 2}]^2*
      D[u[x, y], {x, 2}]^1 + -5/54*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 2}]^3 + -86/945*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1 + -1/180*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 3}]^1*
      D[u[x, y], x, x, y]^1 + -47/2520*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 3}]^2 + -1/189*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 4}]^1*D[u[x, y], {x, 1}]^2 +
1/3780*D[u[x, y], {y, 1}]^2*D[u[x, y], {y, 4}]^1*
      D[u[x, y], {x, 2}]^1 + -1/1260*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {y, 6}]^1 + -62/315*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*
      D[u[x, y], x, x, y]^1 + -131/1890*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y]^1*
      D[u[x, y], {x, 2}]^1 + -5/756*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y, y]^1 + -1/30*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 2}]^1*
      D[u[x, y], {x, 3}]^1 + -13/1890*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {x, 1}]^1*D[u[x, y], x, x, x, y]^1 + -1/3780*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^1*
      D[u[x, y], {x, 5}]^1 + -122/315*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {x, 1}]^2*D[u[x, y], x, y]^2 + -23/210*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^2*
      D[u[x, y], {x, 2}]^2 + 34/945*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {x, 1}]^2*D[u[x, y], x, x, y]^1 + -1/189*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^2*
      D[u[x, y], {x, 4}]^1 + -29/315*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {x, 1}]^3*D[u[x, y], x, y]^1 + -13/315*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^3*D[u[x, y], {x, 3}]^1 + -1/6*
      D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 1}]^4*
      D[u[x, y], {x, 2}]^1 + -47/756*D[u[x, y], {y, 1}]^2*
      D[u[x, y], {x, 1}]^6 + 37/945*D[u[x, y], {y, 1}]^2*
      D[u[x, y], x, y]^1*D[u[x, y], x, y, y, y]^1 + -13/945*
      D[u[x, y], {y, 1}]^2*D[u[x, y], x, y]^1*
      D[u[x, y], x, x, x, y]^1 + -94/945*D[u[x, y], {y, 1}]^2*
      D[u[x, y], x, y]^2*D[u[x, y], {x, 2}]^1 + -1/180*D[u[x, y], {y, 1}]^2*
      D[u[x, y], x, y, y]^1*D[u[x, y], {x, 3}]^1 + -7/216*
      D[u[x, y], {y, 1}]^2*D[u[x, y], x, y, y]^2 + -13/945*
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    D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 2}]^1*
    D[u[x, y], x, x, y, y]^1 + -1/756*D[u[x, y], {y, 1}]^2*
    D[u[x, y], {x, 2}]^1*D[u[x, y], {x, 4}]^1 + -19/1890*
    D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 2}]^3 + -109/7560*
    D[u[x, y], {y, 1}]^2*D[u[x, y], x, x, y]^2 + -1/756*
    D[u[x, y], {y, 1}]^2*D[u[x, y], x, x, y, y, y, y]^1 + -1/1512*
    D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 3}]^2 + -1/3780*
    D[u[x, y], {y, 1}]^2*D[u[x, y], x, x, x, x, y, y]^1 +
1/3780*D[u[x, y], {y, 1}]^2*D[u[x, y], {x, 6}]^1 + -13/126*
    D[u[x, y], {y, 1}]^3*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {y, 3}]^1 + -38/105*D[u[x, y], {y, 1}]^3*
    D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*
    D[u[x, y], x, y]^1 + -13/630*D[u[x, y], {y, 1}]^3*
    D[u[x, y], {y, 2}]^1*D[u[x, y], x, x, y]^1 + -13/315*
    D[u[x, y], {y, 1}]^3*D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^2 +
1/1890*D[u[x, y], {y, 1}]^3*D[u[x, y], {y, 3}]^1*
    D[u[x, y], {x, 2}]^1 + -1/420*D[u[x, y], {y, 1}]^3*
    D[u[x, y], {y, 5}]^1 + -58/315*D[u[x, y], {y, 1}]^3*
    D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*
    D[u[x, y], {x, 2}]^1 + -26/945*D[u[x, y], {y, 1}]^3*
    D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y, y]^1 + -2/189*
    D[u[x, y], {y, 1}]^3*D[u[x, y], {x, 1}]^1*
    D[u[x, y], x, x, x, y]^1 + -29/315*D[u[x, y], {y, 1}]^3*
    D[u[x, y], {x, 1}]^2*D[u[x, y], x, x, y]^1 + -20/63*
    D[u[x, y], {y, 1}]^3*D[u[x, y], {x, 1}]^3*
    D[u[x, y], x, y]^1 + -22/189*D[u[x, y], {y, 1}]^3*D[u[x, y], x, y]^1*
    D[u[x, y], x, y, y]^1 + -2/189*D[u[x, y], {y, 1}]^3*
    D[u[x, y], x, y]^1*D[u[x, y], {x, 3}]^1 + -43/1890*
    D[u[x, y], {y, 1}]^3*D[u[x, y], {x, 2}]^1*
    D[u[x, y], x, x, y]^1 + -1/378*D[u[x, y], {y, 1}]^3*
    D[u[x, y], x, x, y, y, y]^1 + -1/3780*D[u[x, y], {y, 1}]^3*
    D[u[x, y], x, x, x, x, y]^1 + -1/6*D[u[x, y], {y, 1}]^4*
    D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^2 + -1/210*
    D[u[x, y], {y, 1}]^4*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {x, 2}]^1 + -61/420*D[u[x, y], {y, 1}]^4*
    D[u[x, y], {y, 2}]^2 + -1/105*D[u[x, y], {y, 1}]^4*
    D[u[x, y], {y, 4}]^1 + -53/630*D[u[x, y], {y, 1}]^4*
    D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y]^1 + -1/126*
    D[u[x, y], {y, 1}]^4*D[u[x, y], {x, 1}]^1*
    D[u[x, y], {x, 3}]^1 + -11/126*D[u[x, y], {y, 1}]^4*
    D[u[x, y], {x, 1}]^2*D[u[x, y], {x, 2}]^1 + -47/504*
    D[u[x, y], {y, 1}]^4*D[u[x, y], {x, 1}]^4 + -11/105*
    D[u[x, y], {y, 1}]^4*D[u[x, y], x, y]^2 + -11/1260*
    D[u[x, y], {y, 1}]^4*D[u[x, y], {x, 2}]^2 + -1/189*
    D[u[x, y], {y, 1}]^4*D[u[x, y], x, x, y]^1 + -1/30*
    D[u[x, y], {y, 1}]^5*D[u[x, y], {y, 3}]^1 + -10/63*
    D[u[x, y], {y, 1}]^5*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1 + -1/126*
    D[u[x, y], {y, 1}]^5*D[u[x, y], x, x, y]^1 + -31/378*
    D[u[x, y], {y, 1}]^6*D[u[x, y], {y, 2}]^1 + -47/756*
    D[u[x, y], {y, 1}]^6*D[u[x, y], {x, 1}]^2 + -1/378*
    D[u[x, y], {y, 1}]^6*D[u[x, y], {x, 2}]^1 + -47/3024*
    D[u[x, y], {y, 1}]^8 + -11/270*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1 + -1/378*
    D[u[x, y], {y, 2}]^1*D[u[x, y], {y, 3}]^1*
    D[u[x, y], x, x, y]^1 + -5/252*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {y, 3}]^2 + -1/756*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {y, 4}]^1*D[u[x, y], {x, 1}]^2 +
1/378*D[u[x, y], {y, 2}]^1*D[u[x, y], {y, 4}]^1*
    D[u[x, y], {x, 2}]^1 + -1/3780*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {y, 6}]^1 + -137/1890*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*
    D[u[x, y], x, x, y]^1 + -47/1890*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y]^1*
    D[u[x, y], {x, 2}]^1 + -1/189*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y, y]^1 +
13/1890*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 2}]^1*
    D[u[x, y], {x, 3}]^1 + -2/315*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {x, 1}]^1*D[u[x, y], x, x, x, y]^1 + -1/945*
    D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^1*
    D[u[x, y], {x, 5}]^1 + -94/945*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {x, 1}]^2*D[u[x, y], x, y]^2 +
1/630*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^2*
    D[u[x, y], {x, 2}]^2 + -13/945*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {x, 1}]^2*D[u[x, y], x, x, y]^1 +
1/3780*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^2*
    D[u[x, y], {x, 4}]^1 + -43/1890*D[u[x, y], {y, 2}]^1*
    D[u[x, y], {x, 1}]^3*D[u[x, y], x, y, y]^1 +
1/1890*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^3*
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       D[u[x, y], {x, 3}]^1 + -1/210*D[u[x, y], {y, 2}]^1*
       D[u[x, y], {x, 1}]^4*D[u[x, y], {x, 2}]^1 + -1/378*
       D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 1}]^6 + -38/945*
       D[u[x, y], {y, 2}]^1*D[u[x, y], x, y]^1*
       D[u[x, y], x, y, y, y]^1 + -2/315*D[u[x, y], {y, 2}]^1*
       D[u[x, y], x, y]^1*D[u[x, y], x, x, x, y]^1 + -34/945*
       D[u[x, y], {y, 2}]^1*D[u[x, y], x, y]^2*D[u[x, y], {x, 2}]^1 + -1/270*
       D[u[x, y], {y, 2}]^1*D[u[x, y], x, y, y]^1*
       D[u[x, y], {x, 3}]^1 + -25/756*D[u[x, y], {y, 2}]^1*
       D[u[x, y], x, y, y]^2 + -11/945*D[u[x, y], {y, 2}]^1*
       D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, y, y]^1 +
1/378*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 2}]^1*D[u[x, y], {x, 4}]^1 +
1/540*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 2}]^3 + -31/3780*
       D[u[x, y], {y, 2}]^1*D[u[x, y], x, x, y]^2 +
1/756*D[u[x, y], {y, 2}]^1*D[u[x, y], x, x, y, y, y]^1 +
1/252*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 3}]^2 +
13/3780*D[u[x, y], {y, 2}]^1*D[u[x, y], x, x, x, x, y]^1 +
1/540*D[u[x, y], {y, 2}]^1*D[u[x, y], {x, 6}]^1 + -1/84*
       D[u[x, y], {y, 2}]^2*D[u[x, y], {y, 4}]^1 + -32/945*
       D[u[x, y], {y, 2}]^2*D[u[x, y], {x, 1}]^1*
       D[u[x, y], x, y, y]^1 + -2/945*D[u[x, y], {y, 2}]^2*
       D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 3}]^1 + -5/378*
       D[u[x, y], {y, 2}]^2*D[u[x, y], {x, 1}]^2*
       D[u[x, y], {x, 2}]^1 + -11/1260*D[u[x, y], {y, 2}]^2*
       D[u[x, y], {x, 1}]^4 + -1/21*D[u[x, y], {y, 2}]^2*
       D[u[x, y], x, y]^2 + -23/7560*D[u[x, y], {y, 2}]^2*
       D[u[x, y], {x, 2}]^2 + -1/270*D[u[x, y], {y, 2}]^2*
       D[u[x, y], x, x, y, y]^1 + -1/3780*D[u[x, y], {y, 2}]^2*
       D[u[x, y], {x, 4}]^1 + -19/1890*D[u[x, y], {y, 2}]^3*
       D[u[x, y], {x, 1}]^2 +
1/540*D[u[x, y], {y, 2}]^3*D[u[x, y], {x, 2}]^1 + -173/15120*
       D[u[x, y], {y, 2}]^4 + 17/3780*D[u[x, y], {y, 3}]^1*
       D[u[x, y], {y, 5}]^1 + -17/1890*D[u[x, y], {y, 3}]^1*
       D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*D[u[x, y], {x, 2}]^1 + -1/189*
       D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^1*
       D[u[x, y], x, y, y]^1 + -1/945*D[u[x, y], {y, 3}]^1*
       D[u[x, y], {x, 1}]^1*D[u[x, y], x, x, x, y]^1 + -1/180*
       D[u[x, y], {y, 3}]^1*D[u[x, y], {x, 1}]^2*
       D[u[x, y], x, x, y]^1 + -2/189*D[u[x, y], {y, 3}]^1*
       D[u[x, y], {x, 1}]^3*D[u[x, y], x, y]^1 + -1/21*D[u[x, y], {y, 3}]^1*
       D[u[x, y], x, y]^1*D[u[x, y], x, y, y]^1 +
1/945*D[u[x, y], {y, 3}]^1*D[u[x, y], x, y]^1*
       D[u[x, y], {x, 3}]^1 + -1/270*D[u[x, y], {y, 3}]^1*
       D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, y]^1 + -1/378*
       D[u[x, y], {y, 3}]^1*D[u[x, y], x, x, y, y, y]^1 +
1/540*D[u[x, y], {y, 3}]^1*D[u[x, y], x, x, x, x, y]^1 + -1/1512*
       D[u[x, y], {y, 3}]^2*D[u[x, y], {x, 1}]^2 +
1/252*D[u[x, y], {y, 3}]^2*D[u[x, y], {x, 2}]^1 + -1/378*
       D[u[x, y], {y, 4}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y]^1 +
1/1890*D[u[x, y], {y, 4}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 3}]^1 +
1/3780*D[u[x, y], {y, 4}]^1*D[u[x, y], {x, 1}]^2*
       D[u[x, y], {x, 2}]^1 + -2/315*D[u[x, y], {y, 4}]^1*
       D[u[x, y], x, y]^2 + -1/3780*D[u[x, y], {y, 4}]^1*
       D[u[x, y], {x, 2}]^2 +
1/420*D[u[x, y], {y, 4}]^1*
       D[u[x, y], {x, 4}]^1 + -5/1512 D[u[x, y], {y, 4}]^2 +
1/1890*D[u[x, y], {y, 5}]^1*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1 +
1/540*D[u[x, y], {y, 5}]^1*D[u[x, y], x, x, y]^1 +
1/3780*D[u[x, y], {y, 6}]^1*D[u[x, y], {x, 1}]^2 +
1/540*D[u[x, y], {y, 6}]^1*D[u[x, y], {x, 2}]^1 + -1/3780*
       D[u[x, y], {y, 8}]^1 + -317/1890*D[u[x, y], {x, 1}]^1*
       D[u[x, y], x, y]^1*D[u[x, y], {x, 2}]^1*
       D[u[x, y], x, x, y]^1 + -1/135*D[u[x, y], {x, 1}]^1*
       D[u[x, y], x, y]^1*D[u[x, y], x, x, y, y]^1 + -1/126*
       D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^1*
       D[u[x, y], x, x, x, x, y]^1 + -109/945*D[u[x, y], {x, 1}]^1*
       D[u[x, y], x, y]^2*D[u[x, y], x, y, y]^1 + -7/135*
       D[u[x, y], {x, 1}]^1*D[u[x, y], x, y]^2*D[u[x, y], {x, 3}]^1 + -1/90*
       D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y]^1*
       D[u[x, y], {x, 2}]^2 + -1/63*D[u[x, y], {x, 1}]^1*
       D[u[x, y], x, y, y]^1*D[u[x, y], x, x, y]^1 + -1/1890*
       D[u[x, y], {x, 1}]^1*D[u[x, y], x, x, y]^1*
       D[u[x, y], {x, 4}]^1 + -1/135*D[u[x, y], {x, 1}]^1*
       D[u[x, y], x, y, y]^1*D[u[x, y], x, x, y]^1 + -1/1890*
       D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y, y]^1*
       D[u[x, y], {x, 2}]^1 +
1/945*D[u[x, y], {x, 1}]^1*D[u[x, y], x, y, y, y, y, y]^1 + -1/189*
       D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 2}]^1*
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      D[u[x, y], x, x, x, y, y]^1 + -1/210*D[u[x, y], {x, 1}]^1*
      D[u[x, y], {x, 2}]^1*D[u[x, y], {x, 5}]^1 + -47/630*
      D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 2}]^2*
      D[u[x, y], {x, 3}]^1 + -19/945*D[u[x, y], {x, 1}]^1*
      D[u[x, y], x, x, y]^1*D[u[x, y], x, x, x, y]^1 + -1/315*
      D[u[x, y], {x, 1}]^1*D[u[x, y], x, x, y, y]^1*
      D[u[x, y], {x, 3}]^1 + -1/126*D[u[x, y], {x, 1}]^1*
      D[u[x, y], {x, 3}]^1*D[u[x, y], {x, 4}]^1 +
1/315*D[u[x, y], {x, 1}]^1*D[u[x, y], x, x, x, y, y, y, y]^1 +
1/315*D[u[x, y], {x, 1}]^1*D[u[x, y], x, x, x, x, x, y, y]^1 +
1/945*D[u[x, y], {x, 1}]^1*D[u[x, y], {x, 7}]^1 + -13/945*
      D[u[x, y], {x, 1}]^2*D[u[x, y], x, y]^1*
      D[u[x, y], x, y, y, y]^1 + -37/945*D[u[x, y], {x, 1}]^2*
      D[u[x, y], x, y]^1*D[u[x, y], x, x, x, y]^1 + -62/315*
      D[u[x, y], {x, 1}]^2*D[u[x, y], x, y]^2*D[u[x, y], {x, 2}]^1 + -1/180*
      D[u[x, y], {x, 1}]^2*D[u[x, y], x, y, y]^1*
      D[u[x, y], {x, 3}]^1 + -109/7560*D[u[x, y], {x, 1}]^2*
      D[u[x, y], x, y, y]^2 + -11/945*D[u[x, y], {x, 1}]^2*
      D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, y, y]^1 + -31/1260*
      D[u[x, y], {x, 1}]^2*D[u[x, y], {x, 2}]^1*
      D[u[x, y], {x, 4}]^1 + -5/54*D[u[x, y], {x, 1}]^2*
      D[u[x, y], {x, 2}]^3 + -7/216*D[u[x, y], {x, 1}]^2*
      D[u[x, y], x, x, y]^2 + -1/3780*D[u[x, y], {x, 1}]^2*
      D[u[x, y], x, x, y, y, y]^1 + -47/2520*D[u[x, y], {x, 1}]^2*
      D[u[x, y], {x, 3}]^2 + -1/756*D[u[x, y], {x, 1}]^2*
      D[u[x, y], x, x, x, x, y]^1 + -1/1260*D[u[x, y], {x, 1}]^2*
      D[u[x, y], {x, 6}]^1 + 22/189*D[u[x, y], {x, 1}]^3*
      D[u[x, y], x, y]^1*D[u[x, y], x, x, y]^1 + -13/630*
      D[u[x, y], {x, 1}]^3*D[u[x, y], x, y, y, y]^1*
      D[u[x, y], {x, 2}]^1 + -1/3780*D[u[x, y], {x, 1}]^3*
      D[u[x, y], x, y, y, y]^1 + -13/126*D[u[x, y], {x, 1}]^3*
      D[u[x, y], {x, 2}]^1*D[u[x, y], {x, 3}]^1 + -1/378*
      D[u[x, y], {x, 1}]^3*D[u[x, y], x, x, y, y]^1 + -1/420*
      D[u[x, y], {x, 1}]^3*D[u[x, y], {x, 5}]^1 + -11/105*
      D[u[x, y], {x, 1}]^4*D[u[x, y], x, y]^2 + -61/420*
      D[u[x, y], {x, 1}]^4*D[u[x, y], {x, 2}]^2 + -1/169*
      D[u[x, y], {x, 1}]^4*D[u[x, y], x, x, y, y]^1 + -1/105*
      D[u[x, y], {x, 1}]^4*D[u[x, y], {x, 4}]^1 + -1/126*
      D[u[x, y], {x, 1}]^5*D[u[x, y], x, y, y]^1 + -1/30*
      D[u[x, y], {x, 1}]^5*D[u[x, y], {x, 3}]^1 + -31/378*
      D[u[x, y], {x, 1}]^6*D[u[x, y], {x, 2}]^1 + -47/3024*
      D[u[x, y], {x, 1}]^8 + -13/135*D[u[x, y], x, y]^1*
      D[u[x, y], x, y, y]^1*D[u[x, y], x, x, y]^1 + -2/315*
      D[u[x, y], x, y]^1*D[u[x, y], x, y, y, y]^1*
      D[u[x, y], {x, 2}]^1 + -4/945*D[u[x, y], x, y]^1*
      D[u[x, y], x, y, y, y, y]^1 + -38/945*D[u[x, y], x, y]^1*
      D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, x, y]^1 + -1/21*
      D[u[x, y], x, y]^1*D[u[x, y], x, x, x, y]^1*
      D[u[x, y], {x, 3}]^1 + -8/945*D[u[x, y], x, y]^1*
      D[u[x, y], x, x, x, y, y, y]^1 + -4/945*D[u[x, y], x, y]^1*
      D[u[x, y], x, x, x, x, x, y]^1 + -1/21*D[u[x, y], x, y]^2*
      D[u[x, y], {x, 2}]^2 + -44/945*D[u[x, y], x, y]^2*
      D[u[x, y], x, x, y, y]^1 + -2/315*D[u[x, y], x, y]^2*
      D[u[x, y], {x, 4}]^1 + -4/135*D[u[x, y], x, y]^4 + -13/756*
      D[u[x, y], x, y, y]^1*D[u[x, y], x, y, y, y, y]^1 + -1/378*
      D[u[x, y], x, y, y]^1*D[u[x, y], {x, 2}]^1*
      D[u[x, y], {x, 3}]^1 + -29/1890*D[u[x, y], x, y, y]^1*
      D[u[x, y], x, x, x, y]^1 +
1/540*D[u[x, y], x, y, y]^1*D[u[x, y], {x, 5}]^1 + -31/3780*
      D[u[x, y], x, y, y]^2*D[u[x, y], {x, 2}]^1 + -1/105*
      D[u[x, y], x, y, y, y]^1*D[u[x, y], x, x, x, y]^1 + -5/378*
      D[u[x, y], x, y, y, y]^2 +
1/540*D[u[x, y], x, y, y, y, y]^1*D[u[x, y], {x, 3}]^1 + -25/756*
      D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, y]^2 +
13/3780*D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, y, y, y]^1 + -5/252*
      D[u[x, y], {x, 2}]^1*D[u[x, y], {x, 3}]^2 +
1/756*D[u[x, y], {x, 2}]^1*D[u[x, y], x, x, x, x, y]^1 + -1/3780*
      D[u[x, y], {x, 2}]^1*D[u[x, y], {x, 6}]^1 + -1/270*
      D[u[x, y], {x, 2}]^2*D[u[x, y], x, x, y]^1 + -1/84*
      D[u[x, y], {x, 2}]^2*D[u[x, y], {x, 4}]^1 + -173/15120*
      D[u[x, y], {x, 2}]^4 + -29/1890*D[u[x, y], x, x, y]^1*
      D[u[x, y], x, x, y, y, y]^1 + -13/756*D[u[x, y], x, x, y]^1*
      D[u[x, y], x, x, x, x, y]^1 + -4/315*
      D[u[x, y], x, x, y, y]^2 + -1/
        945 D[u[x, y], x, x, y, y, y, y, y]^1 + -1/378*
      D[u[x, y], {x, 3}]^1*D[u[x, y], x, x, x, y]^1 + -17/3780*
      D[u[x, y], {x, 3}]^1*D[u[x, y], {x, 5}]^1 + -5/378*
      D[u[x, y], x, x, x, y]^2 + -5/1512*D[u[x, y], {x, 4}]^2 + -1/630*
```

```
        D[u[x, y], x, x, x, x, y, y, y, y]^1 + -1/945*
        D[u[x, y], x, x, x, x, x, x, y, y]^1 + -1/3780*
        D[u[x, y], {x, 8}]^1  )
```

```
u[0, 0] = -1
```

```
x = 0
y = 0
```

```
(*********************** Évaluation *******************************)
```

```
Expand[7!* 3 * a4c + 4 * lllt - 4 * tllt  - 6 * ltlt2  - 3 * lltt -
    2 * lt^2 + 5 * lttt + 9 * ttlt - 3 * tttt ]
```