

Rank-73802 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^3 + X_1^3 + X_2^3 + X_0^2 X_3 + X_0 X_3^2 + X_0 X_1 X_2 = 0$$

(1, 1, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0)

The point rank of the equation over GF(32) is -2112845754

General information

| | |
|----------------------------|----------------------|
| Number of lines | 3 |
| Number of points | 1089 |
| Number of singular points | 0 |
| Number of Eckardt points | 1 |
| Number of double points | 0 |
| Number of single points | 96 |
| Number of points off lines | 992 |
| Number of Hesse planes | 0 |
| Number of axes | 0 |
| Type of points on lines | 33^3 |
| Type of lines on points | $3, 1^{96}, 0^{992}$ |

Singular Points

The surface has 0 singular points:

The 3 Lines

The lines and their Pluecker coordinates are:

$$\begin{aligned}\ell_0 &= \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 \end{array} \right]_{1058} = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 \end{array} \right]_{1058} = \mathbf{Pl}(1, 0, 1, 0, 0, 1)_{34913} \\ \ell_1 &= \left[\begin{array}{cccc} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{1082433} = \left[\begin{array}{cccc} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{1082433} = \mathbf{Pl}(0, 1, 0, 1, 0, 0)_{97}\end{aligned}$$

$$\ell_2 = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{34882} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{34882} = \mathbf{Pl}(1, 1, 1, 1, 0, 1)_{38818}$$

Rank of lines: (1058, 1082433, 34882)

Rank of points on Klein quadric: (34913, 97, 38818)

Eckardt Points

The surface has 1 Eckardt points:

0 : $P_{67} = \mathbf{P}(0, 1, 1, 0) = \mathbf{P}(0, 1, 1, 0)$.

Double Points

The surface has 0 Double points:

The double points on the surface are:

Single Points

The surface has 96 single points:

The single points on the surface are:

- | | |
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| 0 : $P_3 = (0, 0, 0, 1)$ lies on line ℓ_1 | 29 : $P_{960} = (29, 28, 1, 0)$ lies on line ℓ_0 |
| 1 : $P_5 = (1, 1, 0, 0)$ lies on line ℓ_0 | 30 : $P_{991} = (28, 29, 1, 0)$ lies on line ℓ_0 |
| 2 : $P_{36} = (1, 0, 1, 0)$ lies on line ℓ_0 | 31 : $P_{1026} = (31, 30, 1, 0)$ lies on line ℓ_0 |
| 3 : $P_{102} = (3, 2, 1, 0)$ lies on line ℓ_0 | 32 : $P_{1057} = (30, 31, 1, 0)$ lies on line ℓ_0 |
| 4 : $P_{133} = (2, 3, 1, 0)$ lies on line ℓ_0 | 33 : $P_{1091} = (1, 1, 0, 1)$ lies on line ℓ_2 |
| 5 : $P_{168} = (5, 4, 1, 0)$ lies on line ℓ_0 | 34 : $P_{2083} = (1, 0, 1, 1)$ lies on line ℓ_2 |
| 6 : $P_{199} = (4, 5, 1, 0)$ lies on line ℓ_0 | 35 : $P_{2114} = (0, 1, 1, 1)$ lies on line ℓ_1 |
| 7 : $P_{234} = (7, 6, 1, 0)$ lies on line ℓ_0 | 36 : $P_{3169} = (0, 2, 2, 1)$ lies on line ℓ_1 |
| 8 : $P_{265} = (6, 7, 1, 0)$ lies on line ℓ_0 | 37 : $P_{3202} = (1, 3, 2, 1)$ lies on line ℓ_2 |
| 9 : $P_{300} = (9, 8, 1, 0)$ lies on line ℓ_0 | 38 : $P_{4194} = (1, 2, 3, 1)$ lies on line ℓ_2 |
| 10 : $P_{331} = (8, 9, 1, 0)$ lies on line ℓ_0 | 39 : $P_{4225} = (0, 3, 3, 1)$ lies on line ℓ_1 |
| 11 : $P_{366} = (11, 10, 1, 0)$ lies on line ℓ_0 | 40 : $P_{5281} = (0, 4, 4, 1)$ lies on line ℓ_1 |
| 12 : $P_{397} = (10, 11, 1, 0)$ lies on line ℓ_0 | 41 : $P_{5314} = (1, 5, 4, 1)$ lies on line ℓ_2 |
| 13 : $P_{432} = (13, 12, 1, 0)$ lies on line ℓ_0 | 42 : $P_{6306} = (1, 4, 5, 1)$ lies on line ℓ_2 |
| 14 : $P_{463} = (12, 13, 1, 0)$ lies on line ℓ_0 | 43 : $P_{6337} = (0, 5, 5, 1)$ lies on line ℓ_1 |
| 15 : $P_{498} = (15, 14, 1, 0)$ lies on line ℓ_0 | 44 : $P_{7393} = (0, 6, 6, 1)$ lies on line ℓ_1 |
| 16 : $P_{529} = (14, 15, 1, 0)$ lies on line ℓ_0 | 45 : $P_{7426} = (1, 7, 6, 1)$ lies on line ℓ_2 |
| 17 : $P_{564} = (17, 16, 1, 0)$ lies on line ℓ_0 | 46 : $P_{8418} = (1, 6, 7, 1)$ lies on line ℓ_2 |
| 18 : $P_{595} = (16, 17, 1, 0)$ lies on line ℓ_0 | 47 : $P_{8449} = (0, 7, 7, 1)$ lies on line ℓ_1 |
| 19 : $P_{630} = (19, 18, 1, 0)$ lies on line ℓ_0 | 48 : $P_{9505} = (0, 8, 8, 1)$ lies on line ℓ_1 |
| 20 : $P_{661} = (18, 19, 1, 0)$ lies on line ℓ_0 | 49 : $P_{9538} = (1, 9, 8, 1)$ lies on line ℓ_2 |
| 21 : $P_{696} = (21, 20, 1, 0)$ lies on line ℓ_0 | 50 : $P_{10530} = (1, 8, 9, 1)$ lies on line ℓ_2 |
| 22 : $P_{727} = (20, 21, 1, 0)$ lies on line ℓ_0 | 51 : $P_{10561} = (0, 9, 9, 1)$ lies on line ℓ_1 |
| 23 : $P_{762} = (23, 22, 1, 0)$ lies on line ℓ_0 | 52 : $P_{11617} = (0, 10, 10, 1)$ lies on line ℓ_1 |
| 24 : $P_{793} = (22, 23, 1, 0)$ lies on line ℓ_0 | 53 : $P_{11650} = (1, 11, 10, 1)$ lies on line ℓ_2 |
| 25 : $P_{828} = (25, 24, 1, 0)$ lies on line ℓ_0 | 54 : $P_{12642} = (1, 10, 11, 1)$ lies on line ℓ_2 |
| 26 : $P_{859} = (24, 25, 1, 0)$ lies on line ℓ_0 | 55 : $P_{12673} = (0, 11, 11, 1)$ lies on line ℓ_1 |
| 27 : $P_{894} = (27, 26, 1, 0)$ lies on line ℓ_0 | 56 : $P_{13729} = (0, 12, 12, 1)$ lies on line ℓ_1 |
| 28 : $P_{925} = (26, 27, 1, 0)$ lies on line ℓ_0 | 57 : $P_{13762} = (1, 13, 12, 1)$ lies on line ℓ_2 |

58 : $P_{14754} = (1, 12, 13, 1)$ lies on line ℓ_2
 59 : $P_{14785} = (0, 13, 13, 1)$ lies on line ℓ_1
 60 : $P_{15841} = (0, 14, 14, 1)$ lies on line ℓ_1
 61 : $P_{15874} = (1, 15, 14, 1)$ lies on line ℓ_2
 62 : $P_{16866} = (1, 14, 15, 1)$ lies on line ℓ_2
 63 : $P_{16897} = (0, 15, 15, 1)$ lies on line ℓ_1
 64 : $P_{17953} = (0, 16, 16, 1)$ lies on line ℓ_1
 65 : $P_{17986} = (1, 17, 16, 1)$ lies on line ℓ_2
 66 : $P_{18978} = (1, 16, 17, 1)$ lies on line ℓ_2
 67 : $P_{19009} = (0, 17, 17, 1)$ lies on line ℓ_1
 68 : $P_{20065} = (0, 18, 18, 1)$ lies on line ℓ_1
 69 : $P_{20098} = (1, 19, 18, 1)$ lies on line ℓ_2
 70 : $P_{21090} = (1, 18, 19, 1)$ lies on line ℓ_2
 71 : $P_{21121} = (0, 19, 19, 1)$ lies on line ℓ_1
 72 : $P_{22177} = (0, 20, 20, 1)$ lies on line ℓ_1
 73 : $P_{22210} = (1, 21, 20, 1)$ lies on line ℓ_2
 74 : $P_{23202} = (1, 20, 21, 1)$ lies on line ℓ_2
 75 : $P_{23233} = (0, 21, 21, 1)$ lies on line ℓ_1
 76 : $P_{24289} = (0, 22, 22, 1)$ lies on line ℓ_1
 77 : $P_{24322} = (1, 23, 22, 1)$ lies on line ℓ_2

78 : $P_{25314} = (1, 22, 23, 1)$ lies on line ℓ_2
 79 : $P_{25345} = (0, 23, 23, 1)$ lies on line ℓ_1
 80 : $P_{26401} = (0, 24, 24, 1)$ lies on line ℓ_1
 81 : $P_{26434} = (1, 25, 24, 1)$ lies on line ℓ_2
 82 : $P_{27426} = (1, 24, 25, 1)$ lies on line ℓ_2
 83 : $P_{27457} = (0, 25, 25, 1)$ lies on line ℓ_1
 84 : $P_{28513} = (0, 26, 26, 1)$ lies on line ℓ_1
 85 : $P_{28546} = (1, 27, 26, 1)$ lies on line ℓ_2
 86 : $P_{29538} = (1, 26, 27, 1)$ lies on line ℓ_2
 87 : $P_{29569} = (0, 27, 27, 1)$ lies on line ℓ_1
 88 : $P_{30625} = (0, 28, 28, 1)$ lies on line ℓ_1
 89 : $P_{30658} = (1, 29, 28, 1)$ lies on line ℓ_2
 90 : $P_{31650} = (1, 28, 29, 1)$ lies on line ℓ_2
 91 : $P_{31681} = (0, 29, 29, 1)$ lies on line ℓ_1
 92 : $P_{32737} = (0, 30, 30, 1)$ lies on line ℓ_1
 93 : $P_{32770} = (1, 31, 30, 1)$ lies on line ℓ_2
 94 : $P_{33762} = (1, 30, 31, 1)$ lies on line ℓ_2
 95 : $P_{33793} = (0, 31, 31, 1)$ lies on line ℓ_1

The single points on the surface are:

Points on surface but on no line

The surface has 992 points not on any line:

The points on the surface but not on lines are:

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| 0 : $P_4 = (1, 1, 1, 1)$ | 24 : $P_{1837} = (11, 24, 0, 1)$ |
| 1 : $P_{68} = (1, 1, 1, 0)$ | 25 : $P_{1888} = (30, 25, 0, 1)$ |
| 2 : $P_{1135} = (13, 2, 0, 1)$ | 26 : $P_{1895} = (5, 26, 0, 1)$ |
| 3 : $P_{1171} = (17, 3, 0, 1)$ | 27 : $P_{1938} = (16, 27, 0, 1)$ |
| 4 : $P_{1213} = (27, 4, 0, 1)$ | 28 : $P_{1972} = (18, 28, 0, 1)$ |
| 5 : $P_{1230} = (12, 5, 0, 1)$ | 29 : $P_{1996} = (10, 29, 0, 1)$ |
| 6 : $P_{1269} = (19, 6, 0, 1)$ | 30 : $P_{2038} = (20, 30, 0, 1)$ |
| 7 : $P_{1297} = (15, 7, 0, 1)$ | 31 : $P_{2074} = (24, 31, 0, 1)$ |
| 8 : $P_{1336} = (22, 8, 0, 1)$ | 32 : $P_{2151} = (6, 2, 1, 1)$ |
| 9 : $P_{1367} = (21, 9, 0, 1)$ | 33 : $P_{2154} = (9, 2, 1, 1)$ |
| 10 : $P_{1403} = (25, 10, 0, 1)$ | 34 : $P_{2159} = (14, 2, 1, 1)$ |
| 11 : $P_{1438} = (28, 11, 0, 1)$ | 35 : $P_{2206} = (29, 3, 1, 1)$ |
| 12 : $P_{1445} = (3, 12, 0, 1)$ | 36 : $P_{2220} = (11, 4, 1, 1)$ |
| 13 : $P_{1478} = (4, 13, 0, 1)$ | 37 : $P_{2229} = (20, 4, 1, 1)$ |
| 14 : $P_{1512} = (6, 14, 0, 1)$ | 38 : $P_{2239} = (30, 4, 1, 1)$ |
| 15 : $P_{1561} = (23, 15, 0, 1)$ | 39 : $P_{2263} = (22, 5, 1, 1)$ |
| 16 : $P_{1572} = (2, 16, 0, 1)$ | 40 : $P_{2313} = (8, 7, 1, 1)$ |
| 17 : $P_{1628} = (26, 17, 0, 1)$ | 41 : $P_{2341} = (4, 8, 1, 1)$ |
| 18 : $P_{1641} = (7, 18, 0, 1)$ | 42 : $P_{2356} = (19, 8, 1, 1)$ |
| 19 : $P_{1695} = (29, 19, 0, 1)$ | 43 : $P_{2359} = (22, 8, 1, 1)$ |
| 20 : $P_{1706} = (8, 20, 0, 1)$ | 44 : $P_{2409} = (8, 10, 1, 1)$ |
| 21 : $P_{1761} = (31, 21, 0, 1)$ | 45 : $P_{2417} = (16, 10, 1, 1)$ |
| 22 : $P_{1776} = (14, 22, 0, 1)$ | 46 : $P_{2426} = (25, 10, 1, 1)$ |
| 23 : $P_{1803} = (9, 23, 0, 1)$ | 47 : $P_{2471} = (6, 12, 1, 1)$ |

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| 48 : $P_{2505} = (8, 13, 1, 1)$ | 102 : $P_{4045} = (12, 29, 2, 1)$ |
| 49 : $P_{2519} = (22, 13, 1, 1)$ | 103 : $P_{4067} = (2, 30, 2, 1)$ |
| 50 : $P_{2528} = (31, 13, 1, 1)$ | 104 : $P_{4070} = (5, 30, 2, 1)$ |
| 51 : $P_{2535} = (6, 14, 1, 1)$ | 105 : $P_{4071} = (6, 30, 2, 1)$ |
| 52 : $P_{2539} = (10, 14, 1, 1)$ | 106 : $P_{4103} = (6, 31, 2, 1)$ |
| 53 : $P_{2542} = (13, 14, 1, 1)$ | 107 : $P_{4146} = (17, 0, 3, 1)$ |
| 54 : $P_{2608} = (15, 16, 1, 1)$ | 108 : $P_{4190} = (29, 1, 3, 1)$ |
| 55 : $P_{2612} = (19, 16, 1, 1)$ | 109 : $P_{4217} = (24, 2, 3, 1)$ |
| 56 : $P_{2622} = (29, 16, 1, 1)$ | 110 : $P_{4235} = (10, 3, 3, 1)$ |
| 57 : $P_{2650} = (25, 17, 1, 1)$ | 111 : $P_{4236} = (11, 3, 3, 1)$ |
| 58 : $P_{2691} = (2, 19, 1, 1)$ | 112 : $P_{4269} = (12, 4, 3, 1)$ |
| 59 : $P_{2718} = (29, 19, 1, 1)$ | 113 : $P_{4291} = (2, 5, 3, 1)$ |
| 60 : $P_{2719} = (30, 19, 1, 1)$ | 114 : $P_{4314} = (25, 5, 3, 1)$ |
| 61 : $P_{2763} = (10, 21, 1, 1)$ | 115 : $P_{4315} = (26, 5, 3, 1)$ |
| 62 : $P_{2847} = (30, 23, 1, 1)$ | 116 : $P_{4340} = (19, 6, 3, 1)$ |
| 63 : $P_{2868} = (19, 24, 1, 1)$ | 117 : $P_{4416} = (31, 8, 3, 1)$ |
| 64 : $P_{2933} = (20, 26, 1, 1)$ | 118 : $P_{4430} = (13, 9, 3, 1)$ |
| 65 : $P_{2955} = (10, 27, 1, 1)$ | 119 : $P_{4477} = (28, 10, 3, 1)$ |
| 66 : $P_{2963} = (18, 27, 1, 1)$ | 120 : $P_{4501} = (20, 11, 3, 1)$ |
| 67 : $P_{2970} = (25, 27, 1, 1)$ | 121 : $P_{4553} = (8, 13, 3, 1)$ |
| 68 : $P_{2991} = (14, 28, 1, 1)$ | 122 : $P_{4630} = (21, 15, 3, 1)$ |
| 69 : $P_{3055} = (14, 30, 1, 1)$ | 123 : $P_{4643} = (2, 16, 3, 1)$ |
| 70 : $P_{3061} = (20, 30, 1, 1)$ | 124 : $P_{4649} = (8, 16, 3, 1)$ |
| 71 : $P_{3068} = (27, 30, 1, 1)$ | 125 : $P_{4652} = (11, 16, 3, 1)$ |
| 72 : $P_{3118} = (13, 0, 2, 1)$ | 126 : $P_{4708} = (3, 18, 3, 1)$ |
| 73 : $P_{3143} = (6, 1, 2, 1)$ | 127 : $P_{4748} = (11, 19, 3, 1)$ |
| 74 : $P_{3146} = (9, 1, 2, 1)$ | 128 : $P_{4784} = (15, 20, 3, 1)$ |
| 75 : $P_{3151} = (14, 1, 2, 1)$ | 129 : $P_{4803} = (2, 21, 3, 1)$ |
| 76 : $P_{3225} = (24, 3, 2, 1)$ | 130 : $P_{4973} = (12, 26, 3, 1)$ |
| 77 : $P_{3268} = (3, 5, 2, 1)$ | 131 : $P_{4983} = (22, 26, 3, 1)$ |
| 78 : $P_{3378} = (17, 8, 2, 1)$ | 132 : $P_{4988} = (27, 26, 3, 1)$ |
| 79 : $P_{3408} = (15, 9, 2, 1)$ | 133 : $P_{5019} = (26, 27, 3, 1)$ |
| 80 : $P_{3415} = (22, 9, 2, 1)$ | 134 : $P_{5055} = (30, 28, 3, 1)$ |
| 81 : $P_{3417} = (24, 9, 2, 1)$ | 135 : $P_{5065} = (8, 29, 3, 1)$ |
| 82 : $P_{3449} = (24, 10, 2, 1)$ | 136 : $P_{5074} = (17, 29, 3, 1)$ |
| 83 : $P_{3502} = (13, 12, 2, 1)$ | 137 : $P_{5081} = (24, 29, 3, 1)$ |
| 84 : $P_{3507} = (18, 12, 2, 1)$ | 138 : $P_{5101} = (12, 30, 3, 1)$ |
| 85 : $P_{3519} = (30, 12, 2, 1)$ | 139 : $P_{5112} = (23, 30, 3, 1)$ |
| 86 : $P_{3526} = (5, 13, 2, 1)$ | 140 : $P_{5115} = (26, 30, 3, 1)$ |
| 87 : $P_{3529} = (8, 13, 2, 1)$ | 141 : $P_{5145} = (24, 31, 3, 1)$ |
| 88 : $P_{3533} = (12, 13, 2, 1)$ | 142 : $P_{5180} = (27, 0, 4, 1)$ |
| 89 : $P_{3620} = (3, 16, 2, 1)$ | 143 : $P_{5196} = (11, 1, 4, 1)$ |
| 90 : $P_{3629} = (12, 16, 2, 1)$ | 144 : $P_{5205} = (20, 1, 4, 1)$ |
| 91 : $P_{3631} = (14, 16, 2, 1)$ | 145 : $P_{5215} = (30, 1, 4, 1)$ |
| 92 : $P_{3663} = (14, 17, 2, 1)$ | 146 : $P_{5261} = (12, 3, 4, 1)$ |
| 93 : $P_{3698} = (17, 18, 2, 1)$ | 147 : $P_{5320} = (7, 5, 4, 1)$ |
| 94 : $P_{3718} = (5, 19, 2, 1)$ | 148 : $P_{5354} = (9, 6, 4, 1)$ |
| 95 : $P_{3752} = (7, 20, 2, 1)$ | 149 : $P_{5426} = (17, 8, 4, 1)$ |
| 96 : $P_{3780} = (3, 21, 2, 1)$ | 150 : $P_{5453} = (12, 9, 4, 1)$ |
| 97 : $P_{3793} = (16, 21, 2, 1)$ | 151 : $P_{5485} = (12, 10, 4, 1)$ |
| 98 : $P_{3795} = (18, 21, 2, 1)$ | 152 : $P_{5512} = (7, 11, 4, 1)$ |
| 99 : $P_{3923} = (18, 25, 2, 1)$ | 153 : $P_{5530} = (25, 11, 4, 1)$ |
| 100 : $P_{3954} = (17, 26, 2, 1)$ | 154 : $P_{5536} = (31, 11, 4, 1)$ |
| 101 : $P_{4005} = (4, 28, 2, 1)$ | 155 : $P_{5567} = (30, 12, 4, 1)$ |

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| 156 : $P_{5574} = (5, 13, 4, 1)$ | 210 : $P_{7136} = (31, 29, 5, 1)$ |
| 157 : $P_{5595} = (26, 13, 4, 1)$ | 211 : $P_{7197} = (28, 31, 5, 1)$ |
| 158 : $P_{5599} = (30, 13, 4, 1)$ | 212 : $P_{7220} = (19, 0, 6, 1)$ |
| 159 : $P_{5608} = (7, 14, 4, 1)$ | 213 : $P_{7316} = (19, 3, 6, 1)$ |
| 160 : $P_{5702} = (5, 17, 4, 1)$ | 214 : $P_{7338} = (9, 4, 6, 1)$ |
| 161 : $P_{5749} = (20, 18, 4, 1)$ | 215 : $P_{7455} = (30, 7, 6, 1)$ |
| 162 : $P_{5765} = (4, 19, 4, 1)$ | 216 : $P_{7474} = (17, 8, 6, 1)$ |
| 163 : $P_{5778} = (17, 19, 4, 1)$ | 217 : $P_{7516} = (27, 9, 6, 1)$ |
| 164 : $P_{5781} = (20, 19, 4, 1)$ | 218 : $P_{7530} = (9, 10, 6, 1)$ |
| 165 : $P_{5883} = (26, 22, 4, 1)$ | 219 : $P_{7583} = (30, 11, 6, 1)$ |
| 166 : $P_{5905} = (16, 23, 4, 1)$ | 220 : $P_{7588} = (3, 12, 6, 1)$ |
| 167 : $P_{5994} = (9, 26, 4, 1)$ | 221 : $P_{7613} = (28, 12, 6, 1)$ |
| 168 : $P_{6004} = (19, 26, 4, 1)$ | 222 : $P_{7615} = (30, 12, 6, 1)$ |
| 169 : $P_{6012} = (27, 26, 4, 1)$ | 223 : $P_{7622} = (5, 13, 6, 1)$ |
| 170 : $P_{6027} = (10, 27, 4, 1)$ | 224 : $P_{7658} = (9, 14, 6, 1)$ |
| 171 : $P_{6034} = (17, 27, 4, 1)$ | 225 : $P_{7688} = (7, 15, 6, 1)$ |
| 172 : $P_{6043} = (26, 27, 4, 1)$ | 226 : $P_{7815} = (6, 19, 6, 1)$ |
| 173 : $P_{6054} = (5, 28, 4, 1)$ | 227 : $P_{7866} = (25, 20, 6, 1)$ |
| 174 : $P_{6058} = (9, 28, 4, 1)$ | 228 : $P_{8023} = (22, 25, 6, 1)$ |
| 175 : $P_{6062} = (13, 28, 4, 1)$ | 229 : $P_{8044} = (11, 26, 6, 1)$ |
| 176 : $P_{6102} = (21, 29, 4, 1)$ | 230 : $P_{8089} = (24, 27, 6, 1)$ |
| 177 : $P_{6189} = (12, 0, 5, 1)$ | 231 : $P_{8112} = (15, 28, 6, 1)$ |
| 178 : $P_{6231} = (22, 1, 5, 1)$ | 232 : $P_{8207} = (14, 31, 6, 1)$ |
| 179 : $P_{6244} = (3, 2, 5, 1)$ | 233 : $P_{8240} = (15, 0, 7, 1)$ |
| 180 : $P_{6275} = (2, 3, 5, 1)$ | 234 : $P_{8265} = (8, 1, 7, 1)$ |
| 181 : $P_{6298} = (25, 3, 5, 1)$ | 235 : $P_{8447} = (30, 6, 7, 1)$ |
| 182 : $P_{6299} = (26, 3, 5, 1)$ | 236 : $P_{8453} = (4, 7, 7, 1)$ |
| 183 : $P_{6312} = (7, 4, 5, 1)$ | 237 : $P_{8454} = (5, 7, 7, 1)$ |
| 184 : $P_{6351} = (14, 5, 5, 1)$ | 238 : $P_{8567} = (22, 10, 7, 1)$ |
| 185 : $P_{6352} = (15, 5, 5, 1)$ | 239 : $P_{8619} = (10, 12, 7, 1)$ |
| 186 : $P_{6448} = (15, 8, 5, 1)$ | 240 : $P_{8668} = (27, 13, 7, 1)$ |
| 187 : $P_{6470} = (5, 9, 5, 1)$ | 241 : $P_{8697} = (24, 14, 7, 1)$ |
| 188 : $P_{6515} = (18, 10, 5, 1)$ | 242 : $P_{8711} = (6, 15, 7, 1)$ |
| 189 : $P_{6556} = (27, 11, 5, 1)$ | 243 : $P_{8716} = (11, 15, 7, 1)$ |
| 190 : $P_{6597} = (4, 13, 5, 1)$ | 244 : $P_{8717} = (12, 15, 7, 1)$ |
| 191 : $P_{6603} = (10, 13, 5, 1)$ | 245 : $P_{8830} = (29, 18, 7, 1)$ |
| 192 : $P_{6608} = (15, 13, 5, 1)$ | 246 : $P_{8848} = (15, 19, 7, 1)$ |
| 193 : $P_{6648} = (23, 14, 5, 1)$ | 247 : $P_{8938} = (9, 22, 7, 1)$ |
| 194 : $P_{6686} = (29, 15, 5, 1)$ | 248 : $P_{8988} = (27, 23, 7, 1)$ |
| 195 : $P_{6715} = (26, 16, 5, 1)$ | 249 : $P_{9084} = (27, 26, 7, 1)$ |
| 196 : $P_{6724} = (3, 17, 5, 1)$ | 250 : $P_{9093} = (4, 27, 7, 1)$ |
| 197 : $P_{6725} = (4, 17, 5, 1)$ | 251 : $P_{9115} = (26, 27, 7, 1)$ |
| 198 : $P_{6727} = (6, 17, 5, 1)$ | 252 : $P_{9120} = (31, 27, 7, 1)$ |
| 199 : $P_{6760} = (7, 18, 5, 1)$ | 253 : $P_{9125} = (4, 28, 7, 1)$ |
| 200 : $P_{6788} = (3, 19, 5, 1)$ | 254 : $P_{9213} = (28, 30, 7, 1)$ |
| 201 : $P_{6809} = (24, 19, 5, 1)$ | 255 : $P_{9236} = (19, 31, 7, 1)$ |
| 202 : $P_{6811} = (26, 19, 5, 1)$ | 256 : $P_{9271} = (22, 0, 8, 1)$ |
| 203 : $P_{6825} = (8, 20, 5, 1)$ | 257 : $P_{9285} = (4, 1, 8, 1)$ |
| 204 : $P_{6888} = (7, 22, 5, 1)$ | 258 : $P_{9300} = (19, 1, 8, 1)$ |
| 205 : $P_{6891} = (10, 22, 5, 1)$ | 259 : $P_{9303} = (22, 1, 8, 1)$ |
| 206 : $P_{6893} = (12, 22, 5, 1)$ | 260 : $P_{9330} = (17, 2, 8, 1)$ |
| 207 : $P_{6932} = (19, 23, 5, 1)$ | 261 : $P_{9376} = (31, 3, 8, 1)$ |
| 208 : $P_{7051} = (10, 27, 5, 1)$ | 262 : $P_{9394} = (17, 4, 8, 1)$ |
| 209 : $P_{7077} = (4, 28, 5, 1)$ | 263 : $P_{9424} = (15, 5, 8, 1)$ |

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| 264 : $P_{9458} = (17, 6, 8, 1)$ | 318 : $P_{11000} = (23, 22, 9, 1)$ |
| 265 : $P_{9533} = (28, 8, 8, 1)$ | 319 : $P_{11014} = (5, 23, 9, 1)$ |
| 266 : $P_{9534} = (29, 8, 8, 1)$ | 320 : $P_{11027} = (18, 23, 9, 1)$ |
| 267 : $P_{9563} = (26, 9, 8, 1)$ | 321 : $P_{11031} = (22, 23, 9, 1)$ |
| 268 : $P_{9573} = (4, 10, 8, 1)$ | 322 : $P_{11087} = (14, 25, 9, 1)$ |
| 269 : $P_{9605} = (4, 11, 8, 1)$ | 323 : $P_{11111} = (6, 26, 9, 1)$ |
| 270 : $P_{9609} = (8, 11, 8, 1)$ | 324 : $P_{11179} = (10, 28, 9, 1)$ |
| 271 : $P_{9614} = (13, 11, 8, 1)$ | 325 : $P_{11220} = (19, 29, 9, 1)$ |
| 272 : $P_{9707} = (10, 14, 8, 1)$ | 326 : $P_{11322} = (25, 0, 10, 1)$ |
| 273 : $P_{9773} = (12, 16, 8, 1)$ | 327 : $P_{11337} = (8, 1, 10, 1)$ |
| 274 : $P_{9777} = (16, 16, 8, 1)$ | 328 : $P_{11345} = (16, 1, 10, 1)$ |
| 275 : $P_{9790} = (29, 16, 8, 1)$ | 329 : $P_{11354} = (25, 1, 10, 1)$ |
| 276 : $P_{9796} = (3, 17, 8, 1)$ | 330 : $P_{11385} = (24, 2, 10, 1)$ |
| 277 : $P_{9798} = (5, 17, 8, 1)$ | 331 : $P_{11421} = (28, 3, 10, 1)$ |
| 278 : $P_{9800} = (7, 17, 8, 1)$ | 332 : $P_{11437} = (12, 4, 10, 1)$ |
| 279 : $P_{9859} = (2, 19, 8, 1)$ | 333 : $P_{11475} = (18, 5, 10, 1)$ |
| 280 : $P_{9909} = (20, 20, 8, 1)$ | 334 : $P_{11498} = (9, 6, 10, 1)$ |
| 281 : $P_{9952} = (31, 21, 8, 1)$ | 335 : $P_{11543} = (22, 7, 10, 1)$ |
| 282 : $P_{9984} = (31, 22, 8, 1)$ | 336 : $P_{11557} = (4, 8, 10, 1)$ |
| 283 : $P_{10013} = (28, 23, 8, 1)$ | 337 : $P_{11639} = (22, 10, 10, 1)$ |
| 284 : $P_{10046} = (29, 24, 8, 1)$ | 338 : $P_{11640} = (23, 10, 10, 1)$ |
| 285 : $P_{10067} = (18, 25, 8, 1)$ | 339 : $P_{11652} = (3, 11, 10, 1)$ |
| 286 : $P_{10102} = (21, 26, 8, 1)$ | 340 : $P_{11686} = (5, 12, 10, 1)$ |
| 287 : $P_{10136} = (23, 27, 8, 1)$ | 341 : $P_{11698} = (17, 12, 10, 1)$ |
| 288 : $P_{10169} = (24, 28, 8, 1)$ | 342 : $P_{11702} = (21, 12, 10, 1)$ |
| 289 : $P_{10228} = (19, 30, 8, 1)$ | 343 : $P_{11726} = (13, 13, 10, 1)$ |
| 290 : $P_{10255} = (14, 31, 8, 1)$ | 344 : $P_{11735} = (22, 13, 10, 1)$ |
| 291 : $P_{10260} = (19, 31, 8, 1)$ | 345 : $P_{11739} = (26, 13, 10, 1)$ |
| 292 : $P_{10269} = (28, 31, 8, 1)$ | 346 : $P_{11761} = (16, 14, 10, 1)$ |
| 293 : $P_{10294} = (21, 0, 9, 1)$ | 347 : $P_{11787} = (10, 15, 10, 1)$ |
| 294 : $P_{10352} = (15, 2, 9, 1)$ | 348 : $P_{11793} = (16, 15, 10, 1)$ |
| 295 : $P_{10359} = (22, 2, 9, 1)$ | 349 : $P_{11804} = (27, 15, 10, 1)$ |
| 296 : $P_{10361} = (24, 2, 9, 1)$ | 350 : $P_{11821} = (12, 16, 10, 1)$ |
| 297 : $P_{10382} = (13, 3, 9, 1)$ | 351 : $P_{11872} = (31, 17, 10, 1)$ |
| 298 : $P_{10413} = (12, 4, 9, 1)$ | 352 : $P_{11881} = (8, 18, 10, 1)$ |
| 299 : $P_{10438} = (5, 5, 9, 1)$ | 353 : $P_{11896} = (23, 18, 10, 1)$ |
| 300 : $P_{10492} = (27, 6, 9, 1)$ | 354 : $P_{11903} = (30, 18, 10, 1)$ |
| 301 : $P_{10555} = (26, 8, 9, 1)$ | 355 : $P_{11913} = (8, 19, 10, 1)$ |
| 302 : $P_{10639} = (14, 11, 9, 1)$ | 356 : $P_{11949} = (12, 20, 10, 1)$ |
| 303 : $P_{10642} = (17, 11, 9, 1)$ | 357 : $P_{12040} = (7, 23, 10, 1)$ |
| 304 : $P_{10655} = (30, 11, 9, 1)$ | 358 : $P_{12088} = (23, 24, 10, 1)$ |
| 305 : $P_{10681} = (24, 12, 9, 1)$ | 359 : $P_{12115} = (18, 25, 10, 1)$ |
| 306 : $P_{10731} = (10, 14, 9, 1)$ | 360 : $P_{12211} = (18, 28, 10, 1)$ |
| 307 : $P_{10740} = (19, 14, 9, 1)$ | 361 : $P_{12254} = (29, 29, 10, 1)$ |
| 308 : $P_{10745} = (24, 14, 9, 1)$ | 362 : $P_{12271} = (14, 30, 10, 1)$ |
| 309 : $P_{10814} = (29, 16, 9, 1)$ | 363 : $P_{12349} = (28, 0, 11, 1)$ |
| 310 : $P_{10838} = (21, 17, 9, 1)$ | 364 : $P_{12437} = (20, 3, 11, 1)$ |
| 311 : $P_{10854} = (5, 18, 9, 1)$ | 365 : $P_{12456} = (7, 4, 11, 1)$ |
| 312 : $P_{10859} = (10, 18, 9, 1)$ | 366 : $P_{12474} = (25, 4, 11, 1)$ |
| 313 : $P_{10863} = (14, 18, 9, 1)$ | 367 : $P_{12480} = (31, 4, 11, 1)$ |
| 314 : $P_{10883} = (2, 19, 9, 1)$ | 368 : $P_{12508} = (27, 5, 11, 1)$ |
| 315 : $P_{10897} = (16, 19, 9, 1)$ | 369 : $P_{12543} = (30, 6, 11, 1)$ |
| 316 : $P_{10900} = (19, 19, 9, 1)$ | 370 : $P_{12581} = (4, 8, 11, 1)$ |
| 317 : $P_{10967} = (22, 21, 9, 1)$ | 371 : $P_{12585} = (8, 8, 11, 1)$ |

372 : $P_{12590} = (13, 8, 11, 1)$
 373 : $P_{12623} = (14, 9, 11, 1)$
 374 : $P_{12626} = (17, 9, 11, 1)$
 375 : $P_{12639} = (30, 9, 11, 1)$
 376 : $P_{12644} = (3, 10, 11, 1)$
 377 : $P_{12733} = (28, 12, 11, 1)$
 378 : $P_{12759} = (22, 13, 11, 1)$
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 381 : $P_{12831} = (30, 15, 11, 1)$
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 383 : $P_{12882} = (17, 17, 11, 1)$
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 386 : $P_{13071} = (14, 23, 11, 1)$
 387 : $P_{13098} = (9, 24, 11, 1)$
 388 : $P_{13106} = (17, 24, 11, 1)$
 389 : $P_{13114} = (25, 24, 11, 1)$
 390 : $P_{13145} = (24, 25, 11, 1)$
 391 : $P_{13160} = (7, 26, 11, 1)$
 392 : $P_{13242} = (25, 28, 11, 1)$
 393 : $P_{13288} = (7, 30, 11, 1)$
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 396 : $P_{13348} = (3, 0, 12, 1)$
 397 : $P_{13383} = (6, 1, 12, 1)$
 398 : $P_{13422} = (13, 2, 12, 1)$
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 424 : $P_{14154} = (9, 25, 12, 1)$
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 467 : $P_{15431} = (6, 1, 14, 1)$
 468 : $P_{15435} = (10, 1, 14, 1)$
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 586 : $P_{18869} = (20, 12, 17, 1)$
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| 589 : $P_{18947} = (2, 15, 17, 1)$ | 643 : $P_{20582} = (5, 2, 19, 1)$ |
| 590 : $P_{18998} = (21, 16, 17, 1)$ | 644 : $P_{20620} = (11, 3, 19, 1)$ |
| 591 : $P_{19039} = (30, 17, 17, 1)$ | 645 : $P_{20645} = (4, 4, 19, 1)$ |
| 592 : $P_{19040} = (31, 17, 17, 1)$ | 646 : $P_{20658} = (17, 4, 19, 1)$ |
| 593 : $P_{19064} = (23, 18, 17, 1)$ | 647 : $P_{20661} = (20, 4, 19, 1)$ |
| 594 : $P_{19187} = (18, 22, 17, 1)$ | 648 : $P_{20676} = (3, 5, 19, 1)$ |
| 595 : $P_{19217} = (16, 23, 17, 1)$ | 649 : $P_{20697} = (24, 5, 19, 1)$ |
| 596 : $P_{19241} = (8, 24, 17, 1)$ | 650 : $P_{20699} = (26, 5, 19, 1)$ |
| 597 : $P_{19279} = (14, 25, 17, 1)$ | 651 : $P_{20711} = (6, 6, 19, 1)$ |
| 598 : $P_{19286} = (21, 25, 17, 1)$ | 652 : $P_{20752} = (15, 7, 19, 1)$ |
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| 600 : $P_{19343} = (14, 27, 17, 1)$ | 654 : $P_{20803} = (2, 9, 19, 1)$ |
| 601 : $P_{19345} = (16, 27, 17, 1)$ | 655 : $P_{20817} = (16, 9, 19, 1)$ |
| 602 : $P_{19360} = (31, 27, 17, 1)$ | 656 : $P_{20820} = (19, 9, 19, 1)$ |
| 603 : $P_{19403} = (10, 29, 17, 1)$ | 657 : $P_{20841} = (8, 10, 19, 1)$ |
| 604 : $P_{19449} = (24, 30, 17, 1)$ | 658 : $P_{20904} = (7, 12, 19, 1)$ |
| 605 : $P_{19479} = (22, 31, 17, 1)$ | 659 : $P_{20957} = (28, 13, 19, 1)$ |
| 606 : $P_{19496} = (7, 0, 18, 1)$ | 660 : $P_{20991} = (30, 14, 19, 1)$ |
| 607 : $P_{19570} = (17, 2, 18, 1)$ | 661 : $P_{21003} = (10, 15, 19, 1)$ |
| 608 : $P_{19588} = (3, 3, 18, 1)$ | 662 : $P_{21014} = (21, 15, 19, 1)$ |
| 609 : $P_{19637} = (20, 4, 18, 1)$ | 663 : $P_{21023} = (30, 15, 19, 1)$ |
| 610 : $P_{19656} = (7, 5, 18, 1)$ | 664 : $P_{21101} = (12, 18, 19, 1)$ |
| 611 : $P_{19742} = (29, 7, 18, 1)$ | 665 : $P_{21141} = (20, 19, 19, 1)$ |
| 612 : $P_{19782} = (5, 9, 18, 1)$ | 666 : $P_{21142} = (21, 19, 19, 1)$ |
| 613 : $P_{19787} = (10, 9, 18, 1)$ | 667 : $P_{21208} = (23, 21, 19, 1)$ |
| 614 : $P_{19791} = (14, 9, 18, 1)$ | 668 : $P_{21248} = (31, 22, 19, 1)$ |
| 615 : $P_{19817} = (8, 10, 18, 1)$ | 669 : $P_{21269} = (20, 23, 19, 1)$ |
| 616 : $P_{19832} = (23, 10, 18, 1)$ | 670 : $P_{21318} = (5, 25, 19, 1)$ |
| 617 : $P_{19839} = (30, 10, 18, 1)$ | 671 : $P_{21360} = (15, 26, 19, 1)$ |
| 618 : $P_{19898} = (25, 12, 18, 1)$ | 672 : $P_{21382} = (5, 27, 19, 1)$ |
| 619 : $P_{20056} = (23, 17, 18, 1)$ | 673 : $P_{21430} = (21, 28, 19, 1)$ |
| 620 : $P_{20109} = (12, 19, 18, 1)$ | 674 : $P_{21456} = (15, 29, 19, 1)$ |
| 621 : $P_{20159} = (30, 20, 18, 1)$ | 675 : $P_{21500} = (27, 30, 19, 1)$ |
| 622 : $P_{20169} = (8, 21, 18, 1)$ | 676 : $P_{21545} = (8, 0, 20, 1)$ |
| 623 : $P_{20203} = (10, 22, 18, 1)$ | 677 : $P_{21608} = (7, 2, 20, 1)$ |
| 624 : $P_{20302} = (13, 25, 18, 1)$ | 678 : $P_{21648} = (15, 3, 20, 1)$ |
| 625 : $P_{20337} = (16, 26, 18, 1)$ | 679 : $P_{21705} = (8, 5, 20, 1)$ |
| 626 : $P_{20364} = (11, 27, 18, 1)$ | 680 : $P_{21754} = (25, 6, 20, 1)$ |
| 627 : $P_{20376} = (23, 27, 18, 1)$ | 681 : $P_{21813} = (20, 8, 20, 1)$ |
| 628 : $P_{20382} = (29, 27, 18, 1)$ | 682 : $P_{21869} = (12, 10, 20, 1)$ |
| 629 : $P_{20388} = (3, 28, 18, 1)$ | 683 : $P_{21891} = (2, 11, 20, 1)$ |
| 630 : $P_{20414} = (29, 28, 18, 1)$ | 684 : $P_{21996} = (11, 14, 20, 1)$ |
| 631 : $P_{20416} = (31, 28, 18, 1)$ | 685 : $P_{22036} = (19, 15, 20, 1)$ |
| 632 : $P_{20445} = (28, 29, 18, 1)$ | 686 : $P_{22060} = (11, 16, 20, 1)$ |
| 633 : $P_{20453} = (4, 30, 18, 1)$ | 687 : $P_{22143} = (30, 18, 20, 1)$ |
| 634 : $P_{20476} = (27, 30, 18, 1)$ | 688 : $P_{22228} = (19, 21, 20, 1)$ |
| 635 : $P_{20479} = (30, 30, 18, 1)$ | 689 : $P_{22304} = (31, 23, 20, 1)$ |
| 636 : $P_{20484} = (3, 31, 18, 1)$ | 690 : $P_{22374} = (5, 26, 20, 1)$ |
| 637 : $P_{20489} = (8, 31, 18, 1)$ | 691 : $P_{22388} = (19, 26, 20, 1)$ |
| 638 : $P_{20491} = (10, 31, 18, 1)$ | 692 : $P_{22392} = (23, 26, 20, 1)$ |
| 639 : $P_{20542} = (29, 0, 19, 1)$ | 693 : $P_{22418} = (17, 27, 20, 1)$ |
| 640 : $P_{20547} = (2, 1, 19, 1)$ | 694 : $P_{22471} = (6, 29, 20, 1)$ |
| 641 : $P_{20574} = (29, 1, 19, 1)$ | 695 : $P_{22508} = (11, 30, 20, 1)$ |

696 : $P_{22550} = (21, 31, 20, 1)$
 697 : $P_{22592} = (31, 0, 21, 1)$
 698 : $P_{22603} = (10, 1, 21, 1)$
 699 : $P_{22628} = (3, 2, 21, 1)$
 700 : $P_{22641} = (16, 2, 21, 1)$
 701 : $P_{22643} = (18, 2, 21, 1)$
 702 : $P_{22659} = (2, 3, 21, 1)$
 703 : $P_{22848} = (31, 8, 21, 1)$
 704 : $P_{22871} = (22, 9, 21, 1)$
 705 : $P_{23034} = (25, 14, 21, 1)$
 706 : $P_{23145} = (8, 18, 21, 1)$
 707 : $P_{23192} = (23, 19, 21, 1)$
 708 : $P_{23220} = (19, 20, 21, 1)$
 709 : $P_{23249} = (16, 21, 21, 1)$
 710 : $P_{23250} = (17, 21, 21, 1)$
 711 : $P_{23313} = (16, 23, 21, 1)$
 712 : $P_{23331} = (2, 24, 21, 1)$
 713 : $P_{23372} = (11, 25, 21, 1)$
 714 : $P_{23407} = (14, 26, 21, 1)$
 715 : $P_{23427} = (2, 27, 21, 1)$
 716 : $P_{23528} = (7, 30, 21, 1)$
 717 : $P_{23568} = (15, 31, 21, 1)$
 718 : $P_{23573} = (20, 31, 21, 1)$
 719 : $P_{23579} = (26, 31, 21, 1)$
 720 : $P_{23599} = (14, 0, 22, 1)$
 721 : $P_{23739} = (26, 4, 22, 1)$
 722 : $P_{23752} = (7, 5, 22, 1)$
 723 : $P_{23755} = (10, 5, 22, 1)$
 724 : $P_{23757} = (12, 5, 22, 1)$
 725 : $P_{23818} = (9, 7, 22, 1)$
 726 : $P_{23872} = (31, 8, 22, 1)$
 727 : $P_{23896} = (23, 9, 22, 1)$
 728 : $P_{23945} = (8, 11, 22, 1)$
 729 : $P_{23983} = (14, 12, 22, 1)$
 730 : $P_{24055} = (22, 14, 22, 1)$
 731 : $P_{24125} = (28, 16, 22, 1)$
 732 : $P_{24147} = (18, 17, 22, 1)$
 733 : $P_{24171} = (10, 18, 22, 1)$
 734 : $P_{24224} = (31, 19, 22, 1)$
 735 : $P_{24331} = (10, 23, 22, 1)$
 736 : $P_{24414} = (29, 25, 22, 1)$
 737 : $P_{24480} = (31, 27, 22, 1)$
 738 : $P_{24533} = (20, 29, 22, 1)$
 739 : $P_{24548} = (3, 30, 22, 1)$
 740 : $P_{24593} = (16, 31, 22, 1)$
 741 : $P_{24618} = (9, 0, 23, 1)$
 742 : $P_{24671} = (30, 1, 23, 1)$
 743 : $P_{24753} = (16, 4, 23, 1)$
 744 : $P_{24788} = (19, 5, 23, 1)$
 745 : $P_{24860} = (27, 7, 23, 1)$
 746 : $P_{24893} = (28, 8, 23, 1)$
 747 : $P_{24902} = (5, 9, 23, 1)$
 748 : $P_{24915} = (18, 9, 23, 1)$
 749 : $P_{24919} = (22, 9, 23, 1)$

750 : $P_{24936} = (7, 10, 23, 1)$
 751 : $P_{24975} = (14, 11, 23, 1)$
 752 : $P_{25066} = (9, 14, 23, 1)$
 753 : $P_{25095} = (6, 15, 23, 1)$
 754 : $P_{25132} = (11, 16, 23, 1)$
 755 : $P_{25138} = (17, 16, 23, 1)$
 756 : $P_{25148} = (27, 16, 23, 1)$
 757 : $P_{25169} = (16, 17, 23, 1)$
 758 : $P_{25237} = (20, 19, 23, 1)$
 759 : $P_{25280} = (31, 20, 23, 1)$
 760 : $P_{25297} = (16, 21, 23, 1)$
 761 : $P_{25323} = (10, 22, 23, 1)$
 762 : $P_{25371} = (26, 23, 23, 1)$
 763 : $P_{25372} = (27, 23, 23, 1)$
 764 : $P_{25644} = (11, 0, 24, 1)$
 765 : $P_{25684} = (19, 1, 24, 1)$
 766 : $P_{25918} = (29, 8, 24, 1)$
 767 : $P_{25976} = (23, 10, 24, 1)$
 768 : $P_{25994} = (9, 11, 24, 1)$
 769 : $P_{26002} = (17, 11, 24, 1)$
 770 : $P_{26010} = (25, 11, 24, 1)$
 771 : $P_{26030} = (13, 12, 24, 1)$
 772 : $P_{26051} = (2, 13, 24, 1)$
 773 : $P_{26061} = (12, 13, 24, 1)$
 774 : $P_{26064} = (15, 13, 24, 1)$
 775 : $P_{26102} = (21, 14, 24, 1)$
 776 : $P_{26143} = (30, 15, 24, 1)$
 777 : $P_{26158} = (13, 16, 24, 1)$
 778 : $P_{26185} = (8, 17, 24, 1)$
 779 : $P_{26307} = (2, 21, 24, 1)$
 780 : $P_{26403} = (2, 24, 24, 1)$
 781 : $P_{26404} = (3, 24, 24, 1)$
 782 : $P_{26447} = (14, 25, 24, 1)$
 783 : $P_{26542} = (13, 28, 24, 1)$
 784 : $P_{26579} = (18, 29, 24, 1)$
 785 : $P_{26604} = (11, 30, 24, 1)$
 786 : $P_{26645} = (20, 31, 24, 1)$
 787 : $P_{26687} = (30, 0, 25, 1)$
 788 : $P_{26739} = (18, 2, 25, 1)$
 789 : $P_{26871} = (22, 6, 25, 1)$
 790 : $P_{26931} = (18, 8, 25, 1)$
 791 : $P_{26959} = (14, 9, 25, 1)$
 792 : $P_{26995} = (18, 10, 25, 1)$
 793 : $P_{27033} = (24, 11, 25, 1)$
 794 : $P_{27050} = (9, 12, 25, 1)$
 795 : $P_{27096} = (23, 13, 25, 1)$
 796 : $P_{27147} = (10, 15, 25, 1)$
 797 : $P_{27172} = (3, 16, 25, 1)$
 798 : $P_{27215} = (14, 17, 25, 1)$
 799 : $P_{27222} = (21, 17, 25, 1)$
 800 : $P_{27227} = (26, 17, 25, 1)$
 801 : $P_{27246} = (13, 18, 25, 1)$
 802 : $P_{27270} = (5, 19, 25, 1)$
 803 : $P_{27340} = (11, 21, 25, 1)$

804 : $P_{27390} = (29, 22, 25, 1)$
 805 : $P_{27439} = (14, 24, 25, 1)$
 806 : $P_{27519} = (30, 26, 25, 1)$
 807 : $P_{27642} = (25, 30, 25, 1)$
 808 : $P_{27686} = (5, 0, 26, 1)$
 809 : $P_{27733} = (20, 1, 26, 1)$
 810 : $P_{27762} = (17, 2, 26, 1)$
 811 : $P_{27789} = (12, 3, 26, 1)$
 812 : $P_{27799} = (22, 3, 26, 1)$
 813 : $P_{27804} = (27, 3, 26, 1)$
 814 : $P_{27818} = (9, 4, 26, 1)$
 815 : $P_{27828} = (19, 4, 26, 1)$
 816 : $P_{27836} = (27, 4, 26, 1)$
 817 : $P_{27884} = (11, 6, 26, 1)$
 818 : $P_{27932} = (27, 7, 26, 1)$
 819 : $P_{27958} = (21, 8, 26, 1)$
 820 : $P_{27975} = (6, 9, 26, 1)$
 821 : $P_{28040} = (7, 11, 26, 1)$
 822 : $P_{28078} = (13, 12, 26, 1)$
 823 : $P_{28082} = (17, 12, 26, 1)$
 824 : $P_{28094} = (29, 12, 26, 1)$
 825 : $P_{28109} = (12, 13, 26, 1)$
 826 : $P_{28141} = (12, 14, 26, 1)$
 827 : $P_{28146} = (17, 14, 26, 1)$
 828 : $P_{28157} = (28, 14, 26, 1)$
 829 : $P_{28184} = (23, 15, 26, 1)$
 830 : $P_{28212} = (19, 16, 26, 1)$
 831 : $P_{28273} = (16, 18, 26, 1)$
 832 : $P_{28304} = (15, 19, 26, 1)$
 833 : $P_{28326} = (5, 20, 26, 1)$
 834 : $P_{28340} = (19, 20, 26, 1)$
 835 : $P_{28344} = (23, 20, 26, 1)$
 836 : $P_{28367} = (14, 21, 26, 1)$
 837 : $P_{28511} = (30, 25, 26, 1)$
 838 : $P_{28521} = (8, 26, 26, 1)$
 839 : $P_{28522} = (9, 26, 26, 1)$
 840 : $P_{28568} = (23, 27, 26, 1)$
 841 : $P_{28650} = (9, 30, 26, 1)$
 842 : $P_{28699} = (26, 31, 26, 1)$
 843 : $P_{28721} = (16, 0, 27, 1)$
 844 : $P_{28747} = (10, 1, 27, 1)$
 845 : $P_{28755} = (18, 1, 27, 1)$
 846 : $P_{28762} = (25, 1, 27, 1)$
 847 : $P_{28827} = (26, 3, 27, 1)$
 848 : $P_{28843} = (10, 4, 27, 1)$
 849 : $P_{28850} = (17, 4, 27, 1)$
 850 : $P_{28859} = (26, 4, 27, 1)$
 851 : $P_{28875} = (10, 5, 27, 1)$
 852 : $P_{28921} = (24, 6, 27, 1)$
 853 : $P_{28933} = (4, 7, 27, 1)$
 854 : $P_{28955} = (26, 7, 27, 1)$
 855 : $P_{28960} = (31, 7, 27, 1)$
 856 : $P_{28984} = (23, 8, 27, 1)$
 857 : $P_{29094} = (5, 12, 27, 1)$

858 : $P_{29156} = (3, 14, 27, 1)$
 859 : $P_{29178} = (25, 14, 27, 1)$
 860 : $P_{29180} = (27, 14, 27, 1)$
 861 : $P_{29210} = (25, 15, 27, 1)$
 862 : $P_{29220} = (3, 16, 27, 1)$
 863 : $P_{29234} = (17, 16, 27, 1)$
 864 : $P_{29236} = (19, 16, 27, 1)$
 865 : $P_{29263} = (14, 17, 27, 1)$
 866 : $P_{29265} = (16, 17, 27, 1)$
 867 : $P_{29280} = (31, 17, 27, 1)$
 868 : $P_{29292} = (11, 18, 27, 1)$
 869 : $P_{29304} = (23, 18, 27, 1)$
 870 : $P_{29310} = (29, 18, 27, 1)$
 871 : $P_{29318} = (5, 19, 27, 1)$
 872 : $P_{29362} = (17, 20, 27, 1)$
 873 : $P_{29379} = (2, 21, 27, 1)$
 874 : $P_{29440} = (31, 22, 27, 1)$
 875 : $P_{29560} = (23, 26, 27, 1)$
 876 : $P_{29668} = (3, 30, 27, 1)$
 877 : $P_{29702} = (5, 31, 27, 1)$
 878 : $P_{29747} = (18, 0, 28, 1)$
 879 : $P_{29775} = (14, 1, 28, 1)$
 880 : $P_{29797} = (4, 2, 28, 1)$
 881 : $P_{29855} = (30, 3, 28, 1)$
 882 : $P_{29862} = (5, 4, 28, 1)$
 883 : $P_{29866} = (9, 4, 28, 1)$
 884 : $P_{29870} = (13, 4, 28, 1)$
 885 : $P_{29893} = (4, 5, 28, 1)$
 886 : $P_{29936} = (15, 6, 28, 1)$
 887 : $P_{29957} = (4, 7, 28, 1)$
 888 : $P_{30009} = (24, 8, 28, 1)$
 889 : $P_{30027} = (10, 9, 28, 1)$
 890 : $P_{30067} = (18, 10, 28, 1)$
 891 : $P_{30106} = (25, 11, 28, 1)$
 892 : $P_{30308} = (3, 18, 28, 1)$
 893 : $P_{30334} = (29, 18, 28, 1)$
 894 : $P_{30336} = (31, 18, 28, 1)$
 895 : $P_{30358} = (21, 19, 28, 1)$
 896 : $P_{30510} = (13, 24, 28, 1)$
 897 : $P_{30637} = (12, 28, 28, 1)$
 898 : $P_{30638} = (13, 28, 28, 1)$
 899 : $P_{30665} = (8, 29, 28, 1)$
 900 : $P_{30695} = (6, 30, 28, 1)$
 901 : $P_{30763} = (10, 0, 29, 1)$
 902 : $P_{30829} = (12, 2, 29, 1)$
 903 : $P_{30857} = (8, 3, 29, 1)$
 904 : $P_{30866} = (17, 3, 29, 1)$
 905 : $P_{30873} = (24, 3, 29, 1)$
 906 : $P_{30902} = (21, 4, 29, 1)$
 907 : $P_{30944} = (31, 5, 29, 1)$
 908 : $P_{31060} = (19, 9, 29, 1)$
 909 : $P_{31102} = (29, 10, 29, 1)$
 910 : $P_{31184} = (15, 13, 29, 1)$
 911 : $P_{31227} = (26, 14, 29, 1)$

| | |
|-------------------------------------|-------------------------------------|
| 912 : $P_{31237} = (4, 15, 29, 1)$ | 953 : $P_{32644} = (3, 27, 30, 1)$ |
| 913 : $P_{31307} = (10, 17, 29, 1)$ | 954 : $P_{32679} = (6, 28, 30, 1)$ |
| 914 : $P_{31357} = (28, 18, 29, 1)$ | 955 : $P_{32720} = (15, 29, 30, 1)$ |
| 915 : $P_{31376} = (15, 19, 29, 1)$ | 956 : $P_{32743} = (6, 30, 30, 1)$ |
| 916 : $P_{31399} = (6, 20, 29, 1)$ | 957 : $P_{32744} = (7, 30, 30, 1)$ |
| 917 : $P_{31477} = (20, 22, 29, 1)$ | 958 : $P_{32786} = (17, 31, 30, 1)$ |
| 918 : $P_{31539} = (18, 24, 29, 1)$ | 959 : $P_{32825} = (24, 0, 31, 1)$ |
| 919 : $P_{31657} = (8, 28, 29, 1)$ | 960 : $P_{32871} = (6, 2, 31, 1)$ |
| 920 : $P_{31728} = (15, 30, 29, 1)$ | 961 : $P_{32921} = (24, 3, 31, 1)$ |
| 921 : $P_{31753} = (8, 31, 29, 1)$ | 962 : $P_{32989} = (28, 5, 31, 1)$ |
| 922 : $P_{31797} = (20, 0, 30, 1)$ | 963 : $P_{33007} = (14, 6, 31, 1)$ |
| 923 : $P_{31823} = (14, 1, 30, 1)$ | 964 : $P_{33044} = (19, 7, 31, 1)$ |
| 924 : $P_{31829} = (20, 1, 30, 1)$ | 965 : $P_{33071} = (14, 8, 31, 1)$ |
| 925 : $P_{31836} = (27, 1, 30, 1)$ | 966 : $P_{33076} = (19, 8, 31, 1)$ |
| 926 : $P_{31843} = (2, 2, 30, 1)$ | 967 : $P_{33085} = (28, 8, 31, 1)$ |
| 927 : $P_{31846} = (5, 2, 30, 1)$ | 968 : $P_{33189} = (4, 12, 31, 1)$ |
| 928 : $P_{31847} = (6, 2, 30, 1)$ | 969 : $P_{33226} = (9, 13, 31, 1)$ |
| 929 : $P_{31885} = (12, 3, 30, 1)$ | 970 : $P_{33237} = (20, 13, 31, 1)$ |
| 930 : $P_{31896} = (23, 3, 30, 1)$ | 971 : $P_{33245} = (28, 13, 31, 1)$ |
| 931 : $P_{31899} = (26, 3, 30, 1)$ | 972 : $P_{33251} = (2, 14, 31, 1)$ |
| 932 : $P_{32029} = (28, 7, 30, 1)$ | 973 : $P_{33262} = (13, 14, 31, 1)$ |
| 933 : $P_{32052} = (19, 8, 30, 1)$ | 974 : $P_{33263} = (14, 14, 31, 1)$ |
| 934 : $P_{32111} = (14, 10, 30, 1)$ | 975 : $P_{33289} = (8, 15, 31, 1)$ |
| 935 : $P_{32136} = (7, 11, 30, 1)$ | 976 : $P_{33300} = (19, 15, 31, 1)$ |
| 936 : $P_{32137} = (8, 11, 30, 1)$ | 977 : $P_{33307} = (26, 15, 31, 1)$ |
| 937 : $P_{32143} = (14, 11, 30, 1)$ | 978 : $P_{33367} = (22, 17, 31, 1)$ |
| 938 : $P_{32172} = (11, 12, 30, 1)$ | 979 : $P_{33380} = (3, 18, 31, 1)$ |
| 939 : $P_{32196} = (3, 13, 30, 1)$ | 980 : $P_{33385} = (8, 18, 31, 1)$ |
| 940 : $P_{32238} = (13, 14, 30, 1)$ | 981 : $P_{33387} = (10, 18, 31, 1)$ |
| 941 : $P_{32310} = (21, 16, 30, 1)$ | 982 : $P_{33462} = (21, 20, 31, 1)$ |
| 942 : $P_{32345} = (24, 17, 30, 1)$ | 983 : $P_{33488} = (15, 21, 31, 1)$ |
| 943 : $P_{32357} = (4, 18, 30, 1)$ | 984 : $P_{33493} = (20, 21, 31, 1)$ |
| 944 : $P_{32380} = (27, 18, 30, 1)$ | 985 : $P_{33499} = (26, 21, 31, 1)$ |
| 945 : $P_{32383} = (30, 18, 30, 1)$ | 986 : $P_{33521} = (16, 22, 31, 1)$ |
| 946 : $P_{32412} = (27, 19, 30, 1)$ | 987 : $P_{33589} = (20, 24, 31, 1)$ |
| 947 : $P_{32428} = (11, 20, 30, 1)$ | 988 : $P_{33659} = (26, 26, 31, 1)$ |
| 948 : $P_{32456} = (7, 21, 30, 1)$ | 989 : $P_{33670} = (5, 27, 31, 1)$ |
| 949 : $P_{32484} = (3, 22, 30, 1)$ | 990 : $P_{33737} = (8, 29, 31, 1)$ |
| 950 : $P_{32556} = (11, 24, 30, 1)$ | 991 : $P_{33778} = (17, 30, 31, 1)$ |
| 951 : $P_{32602} = (25, 25, 30, 1)$ | |
| 952 : $P_{32618} = (9, 26, 30, 1)$ | |

Line Intersection Graph

| | |
|---|-------|
| | 0 1 2 |
| 0 | 0 1 1 |
| 1 | 1 0 1 |
| 2 | 1 1 0 |

Neighbor sets in the line intersection graph:

Line 0 intersects

| Line | ℓ_1 | ℓ_2 |
|----------|----------|----------|
| in point | P_{67} | P_{67} |

Line 1 intersects

| Line | ℓ_0 | ℓ_2 |
|----------|----------|----------|
| in point | P_{67} | P_{67} |

Line 2 intersects

| Line | ℓ_0 | ℓ_1 |
|----------|----------|----------|
| in point | P_{67} | P_{67} |

The surface has 1089 points:
Too many to print.