Rank-76387 over GF(64)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^2X_2 + X_0^2X_3 + X_1^2X_3 + X_1X_2^2 + X_0X_3^2 + X_0X_1X_2 = 0$$

(0, 0, 0, 0, 0, 1, 1, 0, 0, 1, 0, 1, 0, 1, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(64) is -2130440123

General information

Number of lines	16
Number of points	4417
Number of singular points	2
Number of Eckardt points	3
Number of double points	29
Number of single points	963
Number of points off lines	3420
Number of Hesse planes	0
Number of axes	0
Type of points on lines	65^{16}
Type of lines on points	5^2, 3^3, 2^{29}, 1^{963}, 0^{3420}

Singular Points

The surface has 2 singular points:

$0: \ P_4 = \mathbf{P}(1,1,1,1) = \mathbf{P}(1,1,1,1)$
$1: \ P_5 = \mathbf{P}(1,1,0,0) = \mathbf{P}(1,1,0,0)$

The 16 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \mathbf{Pl}(1,0,0,0,0,0)_0$$

$$\ell_1 = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 1 \end{array}\right]_{65} = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 1 \end{array}\right]_{65} = \mathbf{Pl}(1,0,1,0,1,0)_{4353}$$

$$\ell_2 = \left[\begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{17047616} = \left[\begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{17047616} = \mathbf{Pl}(0,1,0,0,0,0)_{1}$$

$$\ell_3 = \left[\begin{array}{cccc} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{array}\right]_{8258} = \left[\begin{array}{cccc} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{array}\right]_{8258} = \mathbf{Pl}(0,0,1,1,1,1)_{544578}$$

$$\ell_4 = \left[\begin{array}{cccc} 1 & 0 & \epsilon^{9} & \epsilon^{18} \\ 0 & 1 & \epsilon^{9} & \epsilon^{18} \end{array}\right]_{3125662} = \left[\begin{array}{cccc} 1 & 0 & 47 & 11 \\ 0 & 1 & 47 & 11 \end{array}\right]_{3125662} = \mathbf{Pl}(37,0,10,47,47,1)_{12601438}$$

$$\ell_5 = \left[\begin{array}{cccc} 1 & 0 & \epsilon^{18} & \epsilon^{36} \\ 0 & 1 & \epsilon^{18} & \epsilon^{36} \end{array}\right]_{9635030} = \left[\begin{array}{cccc} 1 & 0 & 11 & 36 \\ 0 & 1 & 11 & 36 \end{array}\right]_{9635030} = \mathbf{Pl}(46,0,37,11,11,1)_{3169996}$$

$$\ell_6 = \left[\begin{array}{cccc} 1 & 0 & \epsilon^{36} & \epsilon^{9} \\ 0 & 1 & \epsilon^{36} & \epsilon^{9} \end{array}\right]_{12669128} = \left[\begin{array}{cccc} 1 & 0 & 36 & 47 \\ 0 & 1 & 36 & 47 \end{array}\right]_{12669128} = \mathbf{Pl}(10,0,46,36,36,1)_{9723103}$$

$$\ell_7 = \left[\begin{array}{cccc} 1 & \epsilon^{9} & 0 & 0 \\ 0 & 0 & 1 & \epsilon^{36} \end{array}\right]_{199699} = \left[\begin{array}{cccc} 1 & 47 & 0 & 0 \\ 0 & 0 & 1 & 36 \end{array}\right]_{199699} = \mathbf{Pl}(0,0,46,36,46,1)_{12343893}$$

$$\ell_8 = \left[\begin{array}{cccc} 1 & \epsilon^{18} & 0 & 0 \\ 0 & 0 & 1 & \epsilon^{9} \end{array}\right]_{49914} = \left[\begin{array}{cccc} 1 & 11 & 0 & 0 \\ 0 & 0 & 1 & 47 \end{array}\right]_{49914} = \mathbf{Pl}(0,0,10,47,10,1)_{2904441}$$

$$\ell_9 = \left[\begin{array}{cccc} 1 & \epsilon^{36} & 0 & 0 \\ 0 & 0 & 1 & \epsilon^{18} \end{array}\right]_{153903} = \left[\begin{array}{cccc} 1 & 36 & 0 & 0 \\ 0 & 0 & 1 & 11 \end{array}\right]_{153903} = \mathbf{Pl}(0,0,37,11,37,1)_{9984030}$$

$$\ell_{10} = \left[\begin{array}{cccc} 1 & \epsilon^{9} & 0 & \epsilon^{54} \\ 0 & 0 & 1 & \epsilon^{36} \end{array}\right]_{2862739} = \left[\begin{array}{cccc} 1 & 47 & 0 & 10 \\ 0 & 0 & 1 & 36 \end{array}\right]_{2862739} = \mathbf{Pl}(0,37,46,36,46,1)_{12343993}$$

$$\ell_{11} = \left[\begin{array}{cccc} 1 & 0 & \epsilon^{36} & \epsilon^{9} \\ 0 & 1 & \epsilon^{45} & \epsilon^{27} \end{array}\right]_{12669065} = \left[\begin{array}{cccc} 1 & 0 & 36 & 47 \\ 0 & 1 & 37 & 46 \end{array}\right]_{12669065} = \mathbf{Pl}(11,37,46,36,10,1)_{3087583}$$

$$\ell_{12} = \left[\begin{array}{cccc} 1 & 0 & \epsilon^{9} & \epsilon^{18} \\ 0 & 1 & \epsilon^{27} & \epsilon^{54} \end{array}\right]_{3125597} = \left[\begin{array}{cccc} 1 & 0 & 47 & 11 \\ 0 & 1 & 46 & 10 \end{array}\right]_{3125597} = \mathbf{Pl}(36,46,10,47,37,1)_{10024853}$$

$$\ell_{13} = \left[\begin{array}{cccc} 1 & \epsilon^{18} & 0 & \epsilon^{45} \\ 0 & 0 & 1 & \epsilon^{9} \end{array}\right]_{9903162} = \left[\begin{array}{cccc} 1 & 11 & 0 & 37 \\ 0 & 0 & 1 & 47 \end{array}\right]_{9903162} = \mathbf{Pl}(0,46,10,47,10,1)_{2904550}$$

$$\ell_{14} = \left[\begin{array}{cccc} 1 & \epsilon^{36} & 0 & \epsilon^{27} \\ 0 & 0 & 1 & \epsilon^{18} \end{array}\right]_{12403887} = \left[\begin{array}{cccc} 1 & 36 & 0 & 46 \\ 0 & 0 & 1 & 11 \end{array}\right]_{12403887} = \mathbf{Pl}(0,10,37,11,37,1)_{9984103}$$

$$\ell_{15} = \left[\begin{array}{cccc} 1 & 0 & \epsilon^{18} & \epsilon^{36} \\ 0 & 1 & \epsilon^{54} & \epsilon^{45} \end{array}\right]_{9635093} = \left[\begin{array}{cccc} 1 & 0 & 11 & 36 \\ 0 & 1 & 10 & 37 \end{array}\right]_{9635093} = \mathbf{Pl}(47,10,37,11,46,1)_{12489613}$$

Rank of lines: (0, 65, 17047616, 8258, 3125662, 9635030, 12669128, 199699, 49914, 153903, 2862739, 12669065, 3125597, 9903162, 12403887, 9635093)
Rank of points on Klein quadric: (0, 4353, 1, 544578, 12601438, 3169996, 9723103, 12343893, 2904441, 9984030, 12343993, 3087583, 10024853, 2904550, 9984103, 12489613)

Eckardt Points

The surface has 3 Eckardt points:
$0 : P_{45121} = \mathbf{P}(0,0,\epsilon^{54},1) = \mathbf{P}(0,0,10,1)$,
$1 : P_{155713} = \mathbf{P}(0,0,\epsilon^{45},1) = \mathbf{P}(0,0,37,1)$,
$2 : P_{192577} = \mathbf{P}(0,0,\epsilon^{27},1) = \mathbf{P}(0,0,46,1)$.

Double Points

The surface has 29 Double points:
The double points on the surface are:

$P_0 = (1,0,0,0) = \ell_0 \cap \ell_1$
$P_{14} = (10,1,0,0) = \ell_0 \cap \ell_7$
$P_{41} = (37,1,0,0) = \ell_0 \cap \ell_8$
$P_{50} = (46,1,0,0) = \ell_0 \cap \ell_9$
$P_{8331} = (10,1,1,1) = \ell_1 \cap \ell_{10}$
$P_{8358} = (37,1,1,1) = \ell_1 \cap \ell_{13}$
$P_{8367} = (46,1,1,1) = \ell_1 \cap \ell_{14}$
$P_{8258} = (0,0,1,1) = \ell_2 \cap \ell_3$
$P_{48139} = (10,47,10,1) = \ell_4 \cap \ell_8$
$P_{48076} = (11,46,10,1) = \ell_4 \cap \ell_{10}$
$P_{45158} = (37,0,10,1) = \ell_4 \cap \ell_{12}$
$P_{47426} = (1,36,10,1) = \ell_4 \cap \ell_{14}$
$P_{156454} = (37,11,37,1) = \ell_5 \cap \ell_9$
$P_{158722} = (1,47,37,1) = \ell_5 \cap \ell_{10}$
$P_{156389} = (36,10,37,1) = \ell_5 \cap \ell_{13}$
$P_{155759} = (46,0,37,1) = \ell_5 \cap \ell_{15}$
$P_{194927} = (46,36,46,1) = \ell_6 \cap \ell_7$
$P_{192587} = (10,0,46,1) = \ell_6 \cap \ell_{11}$
$P_{193282} = (1,11,46,1) = \ell_6 \cap \ell_{13}$
$P_{194992} = (47,37,46,1) = \ell_6 \cap \ell_{14}$
$P_{193328} = (47,11,46,1) = \ell_7 \cap \ell_{12}$
$P_{194981} = (36,37,46,1) = \ell_7 \cap \ell_{15}$
$P_{48112} = (47,46,10,1) = \ell_8 \cap \ell_{11}$
$P_{47436} = (11,36,10,1) = \ell_8 \cap \ell_{15}$
$P_{158757} = (36,47,37,1) = \ell_9 \cap \ell_{11}$
$P_{156364} = (11,10,37,1) = \ell_9 \cap \ell_{12}$
$P_{197350} = (37,10,47,1) = \ell_{10} \cap \ell_{11}$
$P_{51631} = (46,37,11,1) = \ell_{12} \cap \ell_{13}$
$P_{154571} = (10,46,36,1) = \ell_{14} \cap \ell_{15}$

Single Points

The surface has 963 single points:
The single points on the surface are:

0 : $P_1 = (0,1,0,0)$ lies on line ℓ_0
1 : $P_2 = (0,0,1,0)$ lies on line ℓ_2
2 : $P_3 = (0,0,0,1)$ lies on line ℓ_2
3 : $P_6 = (2,1,0,0)$ lies on line ℓ_0
4 : $P_7 = (3,1,0,0)$ lies on line ℓ_0
5 : $P_8 = (4,1,0,0)$ lies on line ℓ_0
6 : $P_9 = (5,1,0,0)$ lies on line ℓ_0
7 : $P_{10} = (6,1,0,0)$ lies on line ℓ_0
8 : $P_{11} = (7,1,0,0)$ lies on line ℓ_0
9 : $P_{12} = (8,1,0,0)$ lies on line ℓ_0
10 : $P_{13} = (9,1,0,0)$ lies on line ℓ_0
11 : $P_{15} = (11,1,0,0)$ lies on line ℓ_0
12 : $P_{16} = (12,1,0,0)$ lies on line ℓ_0
13 : $P_{17} = (13,1,0,0)$ lies on line ℓ_0
14 : $P_{18} = (14,1,0,0)$ lies on line ℓ_0
15 : $P_{19} = (15,1,0,0)$ lies on line ℓ_0
16 : $P_{20} = (16,1,0,0)$ lies on line ℓ_0
17 : $P_{21} = (17,1,0,0)$ lies on line ℓ_0
18 : $P_{22} = (18,1,0,0)$ lies on line ℓ_0
19 : $P_{23} = (19,1,0,0)$ lies on line ℓ_0
20 : $P_{24} = (20,1,0,0)$ lies on line ℓ_0
21 : $P_{25} = (21,1,0,0)$ lies on line ℓ_0
22 : $P_{26} = (22,1,0,0)$ lies on line ℓ_0
23 : $P_{27} = (23,1,0,0)$ lies on line ℓ_0
24 : $P_{28} = (24,1,0,0)$ lies on line ℓ_0
25 : $P_{29} = (25,1,0,0)$ lies on line ℓ_0
26 : $P_{30} = (26,1,0,0)$ lies on line ℓ_0
27 : $P_{31} = (27,1,0,0)$ lies on line ℓ_0
28 : $P_{32} = (28,1,0,0)$ lies on line ℓ_0
29 : $P_{33} = (29,1,0,0)$ lies on line ℓ_0
30 : $P_{34} = (30,1,0,0)$ lies on line ℓ_0
31 : $P_{35} = (31,1,0,0)$ lies on line ℓ_0
32 : $P_{36} = (32,1,0,0)$ lies on line ℓ_0
33 : $P_{37} = (33,1,0,0)$ lies on line ℓ_0
34 : $P_{38} = (34,1,0,0)$ lies on line ℓ_0
35 : $P_{39} = (35,1,0,0)$ lies on line ℓ_0
36 : $P_{40} = (36,1,0,0)$ lies on line ℓ_0
37 : $P_{42} = (38,1,0,0)$ lies on line ℓ_0
38 : $P_{43} = (39,1,0,0)$ lies on line ℓ_0
39 : $P_{44} = (40,1,0,0)$ lies on line ℓ_0
40 : $P_{45} = (41,1,0,0)$ lies on line ℓ_0
41 : $P_{46} = (42,1,0,0)$ lies on line ℓ_0
42 : $P_{47} = (43,1,0,0)$ lies on line ℓ_0
43 : $P_{48} = (44,1,0,0)$ lies on line ℓ_0
44 : $P_{49} = (45,1,0,0)$ lies on line ℓ_0
45 : $P_{51} = (47,1,0,0)$ lies on line ℓ_0
46 : $P_{52} = (48,1,0,0)$ lies on line ℓ_0
47 : $P_{53} = (49,1,0,0)$ lies on line ℓ_0
48 : $P_{54} = (50,1,0,0)$ lies on line ℓ_0
49 : $P_{55} = (51,1,0,0)$ lies on line ℓ_0
50 : $P_{56} = (52,1,0,0)$ lies on line ℓ_0
51 : $P_{57} = (53,1,0,0)$ lies on line ℓ_0
52 : $P_{58} = (54,1,0,0)$ lies on line ℓ_0
53 : $P_{59} = (55,1,0,0)$ lies on line ℓ_0
54 : $P_{60} = (56,1,0,0)$ lies on line ℓ_0
55 : $P_{61} = (57,1,0,0)$ lies on line ℓ_0
56 : $P_{62} = (58,1,0,0)$ lies on line ℓ_0
57 : $P_{63} = (59,1,0,0)$ lies on line ℓ_0
58 : $P_{64} = (60,1,0,0)$ lies on line ℓ_0
59 : $P_{65} = (61,1,0,0)$ lies on line ℓ_0
60 : $P_{66} = (62,1,0,0)$ lies on line ℓ_0
61 : $P_{67} = (63,1,0,0)$ lies on line ℓ_0
62 : $P_{744} = (37,10,1,0)$ lies on line ℓ_{10}
63 : $P_{754} = (47,10,1,0)$ lies on line ℓ_{11}

64 : $P_{2446} = (11, 37, 1, 0)$ lies on line ℓ_{12}
65 : $P_{2481} = (46, 37, 1, 0)$ lies on line ℓ_{13}
66 : $P_{3021} = (10, 46, 1, 0)$ lies on line ℓ_{14}
67 : $P_{3047} = (36, 46, 1, 0)$ lies on line ℓ_{15}
68 : $P_{4912} = (46, 11, 0, 1)$ lies on line ℓ_{11}
69 : $P_{4913} = (47, 11, 0, 1)$ lies on line ℓ_{10}
70 : $P_{6476} = (10, 36, 0, 1)$ lies on line ℓ_{12}
71 : $P_{6477} = (11, 36, 0, 1)$ lies on line ℓ_{13}
72 : $P_{7206} = (36, 47, 0, 1)$ lies on line ℓ_{14}
73 : $P_{7207} = (37, 47, 0, 1)$ lies on line ℓ_{15}
74 : $P_{8322} = (0, 1, 1, 1)$ lies on line ℓ_1
75 : $P_{8323} = (2, 1, 1, 1)$ lies on line ℓ_1
76 : $P_{8324} = (3, 1, 1, 1)$ lies on line ℓ_1
77 : $P_{8325} = (4, 1, 1, 1)$ lies on line ℓ_1
78 : $P_{8326} = (5, 1, 1, 1)$ lies on line ℓ_1
79 : $P_{8327} = (6, 1, 1, 1)$ lies on line ℓ_1
80 : $P_{8328} = (7, 1, 1, 1)$ lies on line ℓ_1
81 : $P_{8329} = (8, 1, 1, 1)$ lies on line ℓ_1
82 : $P_{8330} = (9, 1, 1, 1)$ lies on line ℓ_1
83 : $P_{8332} = (11, 1, 1, 1)$ lies on line ℓ_1
84 : $P_{8333} = (12, 1, 1, 1)$ lies on line ℓ_1
85 : $P_{8334} = (13, 1, 1, 1)$ lies on line ℓ_1
86 : $P_{8335} = (14, 1, 1, 1)$ lies on line ℓ_1
87 : $P_{8336} = (15, 1, 1, 1)$ lies on line ℓ_1
88 : $P_{8337} = (16, 1, 1, 1)$ lies on line ℓ_1
89 : $P_{8338} = (17, 1, 1, 1)$ lies on line ℓ_1
90 : $P_{8339} = (18, 1, 1, 1)$ lies on line ℓ_1
91 : $P_{8340} = (19, 1, 1, 1)$ lies on line ℓ_1
92 : $P_{8341} = (20, 1, 1, 1)$ lies on line ℓ_1
93 : $P_{8342} = (21, 1, 1, 1)$ lies on line ℓ_1
94 : $P_{8343} = (22, 1, 1, 1)$ lies on line ℓ_1
95 : $P_{8344} = (23, 1, 1, 1)$ lies on line ℓ_1
96 : $P_{8345} = (24, 1, 1, 1)$ lies on line ℓ_1
97 : $P_{8346} = (25, 1, 1, 1)$ lies on line ℓ_1
98 : $P_{8347} = (26, 1, 1, 1)$ lies on line ℓ_1
99 : $P_{8348} = (27, 1, 1, 1)$ lies on line ℓ_1
100 : $P_{8349} = (28, 1, 1, 1)$ lies on line ℓ_1
101 : $P_{8350} = (29, 1, 1, 1)$ lies on line ℓ_1
102 : $P_{8351} = (30, 1, 1, 1)$ lies on line ℓ_1
103 : $P_{8352} = (31, 1, 1, 1)$ lies on line ℓ_1
104 : $P_{8353} = (32, 1, 1, 1)$ lies on line ℓ_1
105 : $P_{8354} = (33, 1, 1, 1)$ lies on line ℓ_1
106 : $P_{8355} = (34, 1, 1, 1)$ lies on line ℓ_1
107 : $P_{8356} = (35, 1, 1, 1)$ lies on line ℓ_1
108 : $P_{8357} = (36, 1, 1, 1)$ lies on line ℓ_1
109 : $P_{8359} = (38, 1, 1, 1)$ lies on line ℓ_1
110 : $P_{8360} = (39, 1, 1, 1)$ lies on line ℓ_1
111 : $P_{8361} = (40, 1, 1, 1)$ lies on line ℓ_1
112 : $P_{8362} = (41, 1, 1, 1)$ lies on line ℓ_1
113 : $P_{8363} = (42, 1, 1, 1)$ lies on line ℓ_1
114 : $P_{8364} = (43, 1, 1, 1)$ lies on line ℓ_1
115 : $P_{8365} = (44, 1, 1, 1)$ lies on line ℓ_1
116 : $P_{8366} = (45, 1, 1, 1)$ lies on line ℓ_1
117 : $P_{8368} = (47, 1, 1, 1)$ lies on line ℓ_1
118 : $P_{8369} = (48, 1, 1, 1)$ lies on line ℓ_1
119 : $P_{8370} = (49, 1, 1, 1)$ lies on line ℓ_1
120 : $P_{8371} = (50, 1, 1, 1)$ lies on line ℓ_1
121 : $P_{8372} = (51, 1, 1, 1)$ lies on line ℓ_1
122 : $P_{8373} = (52, 1, 1, 1)$ lies on line ℓ_1
123 : $P_{8374} = (53, 1, 1, 1)$ lies on line ℓ_1
124 : $P_{8375} = (54, 1, 1, 1)$ lies on line ℓ_1
125 : $P_{8376} = (55, 1, 1, 1)$ lies on line ℓ_1
126 : $P_{8377} = (56, 1, 1, 1)$ lies on line ℓ_1
127 : $P_{8378} = (57, 1, 1, 1)$ lies on line ℓ_1
128 : $P_{8379} = (58, 1, 1, 1)$ lies on line ℓ_1
129 : $P_{8380} = (59, 1, 1, 1)$ lies on line ℓ_1
130 : $P_{8381} = (60, 1, 1, 1)$ lies on line ℓ_1
131 : $P_{8382} = (61, 1, 1, 1)$ lies on line ℓ_1
132 : $P_{8383} = (62, 1, 1, 1)$ lies on line ℓ_1
133 : $P_{8384} = (63, 1, 1, 1)$ lies on line ℓ_1
134 : $P_{8387} = (2, 2, 1, 1)$ lies on line ℓ_3
135 : $P_{8452} = (3, 3, 1, 1)$ lies on line ℓ_3
136 : $P_{8517} = (4, 4, 1, 1)$ lies on line ℓ_3
137 : $P_{8582} = (5, 5, 1, 1)$ lies on line ℓ_3
138 : $P_{8647} = (6, 6, 1, 1)$ lies on line ℓ_3
139 : $P_{8712} = (7, 7, 1, 1)$ lies on line ℓ_3
140 : $P_{8777} = (8, 8, 1, 1)$ lies on line ℓ_3
141 : $P_{8842} = (9, 9, 1, 1)$ lies on line ℓ_3
142 : $P_{8907} = (10, 10, 1, 1)$ lies on line ℓ_3
143 : $P_{8972} = (11, 11, 1, 1)$ lies on line ℓ_3
144 : $P_{9037} = (12, 12, 1, 1)$ lies on line ℓ_3
145 : $P_{9102} = (13, 13, 1, 1)$ lies on line ℓ_3
146 : $P_{9167} = (14, 14, 1, 1)$ lies on line ℓ_3
147 : $P_{9232} = (15, 15, 1, 1)$ lies on line ℓ_3
148 : $P_{9297} = (16, 16, 1, 1)$ lies on line ℓ_3
149 : $P_{9362} = (17, 17, 1, 1)$ lies on line ℓ_3
150 : $P_{9427} = (18, 18, 1, 1)$ lies on line ℓ_3
151 : $P_{9492} = (19, 19, 1, 1)$ lies on line ℓ_3
152 : $P_{9557} = (20, 20, 1, 1)$ lies on line ℓ_3
153 : $P_{9622} = (21, 21, 1, 1)$ lies on line ℓ_3
154 : $P_{9687} = (22, 22, 1, 1)$ lies on line ℓ_3
155 : $P_{9752} = (23, 23, 1, 1)$ lies on line ℓ_3
156 : $P_{9817} = (24, 24, 1, 1)$ lies on line ℓ_3
157 : $P_{9882} = (25, 25, 1, 1)$ lies on line ℓ_3
158 : $P_{9947} = (26, 26, 1, 1)$ lies on line ℓ_3
159 : $P_{10012} = (27, 27, 1, 1)$ lies on line ℓ_3
160 : $P_{10077} = (28, 28, 1, 1)$ lies on line ℓ_3
161 : $P_{10142} = (29, 29, 1, 1)$ lies on line ℓ_3
162 : $P_{10207} = (30, 30, 1, 1)$ lies on line ℓ_3
163 : $P_{10272} = (31, 31, 1, 1)$ lies on line ℓ_3
164 : $P_{10337} = (32, 32, 1, 1)$ lies on line ℓ_3
165 : $P_{10402} = (33, 33, 1, 1)$ lies on line ℓ_3
166 : $P_{10467} = (34, 34, 1, 1)$ lies on line ℓ_3
167 : $P_{10532} = (35, 35, 1, 1)$ lies on line ℓ_3
168 : $P_{10597} = (36, 36, 1, 1)$ lies on line ℓ_3
169 : $P_{10662} = (37, 37, 1, 1)$ lies on line ℓ_3
170 : $P_{10727} = (38, 38, 1, 1)$ lies on line ℓ_3
171 : $P_{10792} = (39, 39, 1, 1)$ lies on line ℓ_3

172 : $P_{10857} = (40, 40, 1, 1)$ lies on line ℓ_3
173 : $P_{10922} = (41, 41, 1, 1)$ lies on line ℓ_3
174 : $P_{10987} = (42, 42, 1, 1)$ lies on line ℓ_3
175 : $P_{11052} = (43, 43, 1, 1)$ lies on line ℓ_3
176 : $P_{11117} = (44, 44, 1, 1)$ lies on line ℓ_3
177 : $P_{11182} = (45, 45, 1, 1)$ lies on line ℓ_3
178 : $P_{11247} = (46, 46, 1, 1)$ lies on line ℓ_3
179 : $P_{11312} = (47, 47, 1, 1)$ lies on line ℓ_3
180 : $P_{11377} = (48, 48, 1, 1)$ lies on line ℓ_3
181 : $P_{11442} = (49, 49, 1, 1)$ lies on line ℓ_3
182 : $P_{11507} = (50, 50, 1, 1)$ lies on line ℓ_3
183 : $P_{11572} = (51, 51, 1, 1)$ lies on line ℓ_3
184 : $P_{11637} = (52, 52, 1, 1)$ lies on line ℓ_3
185 : $P_{11702} = (53, 53, 1, 1)$ lies on line ℓ_3
186 : $P_{11767} = (54, 54, 1, 1)$ lies on line ℓ_3
187 : $P_{11832} = (55, 55, 1, 1)$ lies on line ℓ_3
188 : $P_{11897} = (56, 56, 1, 1)$ lies on line ℓ_3
189 : $P_{11962} = (57, 57, 1, 1)$ lies on line ℓ_3
190 : $P_{12027} = (58, 58, 1, 1)$ lies on line ℓ_3
191 : $P_{12092} = (59, 59, 1, 1)$ lies on line ℓ_3
192 : $P_{12157} = (60, 60, 1, 1)$ lies on line ℓ_3
193 : $P_{12222} = (61, 61, 1, 1)$ lies on line ℓ_3
194 : $P_{12287} = (62, 62, 1, 1)$ lies on line ℓ_3
195 : $P_{12352} = (63, 63, 1, 1)$ lies on line ℓ_3
196 : $P_{12353} = (0, 0, 2, 1)$ lies on line ℓ_2
197 : $P_{13341} = (28, 15, 2, 1)$ lies on line ℓ_{12}
198 : $P_{13367} = (54, 15, 2, 1)$ lies on line ℓ_{13}
199 : $P_{13517} = (12, 18, 2, 1)$ lies on line ℓ_{15}
200 : $P_{13553} = (48, 18, 2, 1)$ lies on line ℓ_{14}
201 : $P_{14341} = (4, 31, 2, 1)$ lies on line ℓ_{10}
202 : $P_{14354} = (17, 31, 2, 1)$ lies on line ℓ_{11}
203 : $P_{16449} = (0, 0, 3, 1)$ lies on line ℓ_2
204 : $P_{17826} = (33, 21, 3, 1)$ lies on line ℓ_{10}
205 : $P_{17855} = (62, 21, 3, 1)$ lies on line ℓ_{11}
206 : $P_{19160} = (23, 42, 3, 1)$ lies on line ℓ_{12}
207 : $P_{19161} = (24, 42, 3, 1)$ lies on line ℓ_{13}
208 : $P_{20329} = (40, 60, 3, 1)$ lies on line ℓ_{15}
209 : $P_{20347} = (58, 60, 3, 1)$ lies on line ℓ_{14}
210 : $P_{20545} = (0, 0, 4, 1)$ lies on line ℓ_2
211 : $P_{21777} = (16, 19, 4, 1)$ lies on line ℓ_{13}
212 : $P_{21799} = (38, 19, 4, 1)$ lies on line ℓ_{12}
213 : $P_{22809} = (24, 35, 4, 1)$ lies on line ℓ_{10}
214 : $P_{22834} = (49, 35, 4, 1)$ lies on line ℓ_{11}
215 : $P_{23885} = (12, 52, 4, 1)$ lies on line ℓ_{14}
216 : $P_{23895} = (22, 52, 4, 1)$ lies on line ℓ_{15}
217 : $P_{24641} = (0, 0, 5, 1)$ lies on line ℓ_2
218 : $P_{26311} = (6, 26, 5, 1)$ lies on line ℓ_{14}
219 : $P_{26355} = (50, 26, 5, 1)$ lies on line ℓ_{15}
220 : $P_{27295} = (30, 41, 5, 1)$ lies on line ℓ_{11}
221 : $P_{27326} = (61, 41, 5, 1)$ lies on line ℓ_{10}
222 : $P_{28142} = (45, 54, 5, 1)$ lies on line ℓ_{12}
223 : $P_{28159} = (62, 54, 5, 1)$ lies on line ℓ_{13}
224 : $P_{28737} = (0, 0, 6, 1)$ lies on line ℓ_2
225 : $P_{29337} = (24, 9, 6, 1)$ lies on line ℓ_{14}
226 : $P_{29376} = (63, 9, 6, 1)$ lies on line ℓ_{15}
227 : $P_{32271} = (14, 55, 6, 1)$ lies on line ℓ_{11}
228 : $P_{32308} = (51, 55, 6, 1)$ lies on line ℓ_{10}
229 : $P_{32366} = (45, 56, 6, 1)$ lies on line ℓ_{13}
230 : $P_{32369} = (48, 56, 6, 1)$ lies on line ℓ_{12}
231 : $P_{32833} = (0, 0, 7, 1)$ lies on line ℓ_2
232 : $P_{34692} = (3, 29, 7, 1)$ lies on line ℓ_{13}
233 : $P_{34748} = (59, 29, 7, 1)$ lies on line ℓ_{12}
234 : $P_{35347} = (18, 39, 7, 1)$ lies on line ℓ_{14}
235 : $P_{35356} = (27, 39, 7, 1)$ lies on line ℓ_{15}
236 : $P_{36759} = (22, 61, 7, 1)$ lies on line ℓ_{10}
237 : $P_{36770} = (33, 61, 7, 1)$ lies on line ℓ_{11}
238 : $P_{36929} = (0, 0, 8, 1)$ lies on line ℓ_2
239 : $P_{38550} = (21, 25, 8, 1)$ lies on line ℓ_{14}
240 : $P_{38563} = (34, 25, 8, 1)$ lies on line ℓ_{15}
241 : $P_{39732} = (51, 43, 8, 1)$ lies on line ℓ_{12}
242 : $P_{39742} = (61, 43, 8, 1)$ lies on line ℓ_{13}
243 : $P_{40657} = (16, 58, 8, 1)$ lies on line ℓ_{11}
244 : $P_{40673} = (32, 58, 8, 1)$ lies on line ℓ_{10}
245 : $P_{41025} = (0, 0, 9, 1)$ lies on line ℓ_2
246 : $P_{41940} = (19, 14, 9, 1)$ lies on line ℓ_{13}
247 : $P_{41977} = (56, 14, 9, 1)$ lies on line ℓ_{12}
248 : $P_{44102} = (5, 48, 9, 1)$ lies on line ℓ_{10}
249 : $P_{44160} = (63, 48, 9, 1)$ lies on line ℓ_{11}
250 : $P_{44551} = (6, 55, 9, 1)$ lies on line ℓ_{15}
251 : $P_{44576} = (31, 55, 9, 1)$ lies on line ℓ_{14}
252 : $P_{45221} = (36, 1, 10, 1)$ lies on line ℓ_4
253 : $P_{45222} = (37, 1, 10, 1)$ lies on line ℓ_8
254 : $P_{45288} = (39, 2, 10, 1)$ lies on line ℓ_4
255 : $P_{45292} = (43, 2, 10, 1)$ lies on line ℓ_8
256 : $P_{45327} = (14, 3, 10, 1)$ lies on line ℓ_8
257 : $P_{45351} = (38, 3, 10, 1)$ lies on line ℓ_4
258 : $P_{45410} = (33, 4, 10, 1)$ lies on line ℓ_4
259 : $P_{45432} = (55, 4, 10, 1)$ lies on line ℓ_8
260 : $P_{45459} = (18, 5, 10, 1)$ lies on line ℓ_8
261 : $P_{45473} = (32, 5, 10, 1)$ lies on line ℓ_4
262 : $P_{45533} = (28, 6, 10, 1)$ lies on line ℓ_8
263 : $P_{45540} = (35, 6, 10, 1)$ lies on line ℓ_4
264 : $P_{45603} = (34, 7, 10, 1)$ lies on line ℓ_4
265 : $P_{45626} = (57, 7, 10, 1)$ lies on line ℓ_8
266 : $P_{45648} = (15, 8, 10, 1)$ lies on line ℓ_8
267 : $P_{45678} = (45, 8, 10, 1)$ lies on line ℓ_4
268 : $P_{45739} = (42, 9, 10, 1)$ lies on line ℓ_8
269 : $P_{45741} = (44, 9, 10, 1)$ lies on line ℓ_4
270 : $P_{45797} = (36, 10, 10, 1)$ lies on line ℓ_8
271 : $P_{45808} = (47, 10, 10, 1)$ lies on line ℓ_4
272 : $P_{45826} = (1, 11, 10, 1)$ lies on line ℓ_8
273 : $P_{45871} = (46, 11, 10, 1)$ lies on line ℓ_4
274 : $P_{45930} = (41, 12, 10, 1)$ lies on line ℓ_4
275 : $P_{45945} = (56, 12, 10, 1)$ lies on line ℓ_8
276 : $P_{45982} = (29, 13, 10, 1)$ lies on line ℓ_8
277 : $P_{45993} = (40, 13, 10, 1)$ lies on line ℓ_4
278 : $P_{46036} = (19, 14, 10, 1)$ lies on line ℓ_8
279 : $P_{46060} = (43, 14, 10, 1)$ lies on line ℓ_4

280 : $P_{46123} = (42, 15, 10, 1)$ lies on line ℓ_4
281 : $P_{46135} = (54, 15, 10, 1)$ lies on line ℓ_8
282 : $P_{46175} = (30, 16, 10, 1)$ lies on line ℓ_8
283 : $P_{46198} = (53, 16, 10, 1)$ lies on line ℓ_4
284 : $P_{46261} = (52, 17, 10, 1)$ lies on line ℓ_4
285 : $P_{46268} = (59, 17, 10, 1)$ lies on line ℓ_8
286 : $P_{46326} = (53, 18, 10, 1)$ lies on line ℓ_8
287 : $P_{46328} = (55, 18, 10, 1)$ lies on line ℓ_4
288 : $P_{46353} = (16, 19, 10, 1)$ lies on line ℓ_8
289 : $P_{46391} = (54, 19, 10, 1)$ lies on line ℓ_4
290 : $P_{46442} = (41, 20, 10, 1)$ lies on line ℓ_8
291 : $P_{46450} = (49, 20, 10, 1)$ lies on line ℓ_4
292 : $P_{46477} = (12, 21, 10, 1)$ lies on line ℓ_8
293 : $P_{46513} = (48, 21, 10, 1)$ lies on line ℓ_4
294 : $P_{46531} = (2, 22, 10, 1)$ lies on line ℓ_8
295 : $P_{46580} = (51, 22, 10, 1)$ lies on line ℓ_4
296 : $P_{46632} = (39, 23, 10, 1)$ lies on line ℓ_8
297 : $P_{46643} = (50, 23, 10, 1)$ lies on line ℓ_4
298 : $P_{46674} = (17, 24, 10, 1)$ lies on line ℓ_8
299 : $P_{46718} = (61, 24, 10, 1)$ lies on line ℓ_4
300 : $P_{46773} = (52, 25, 10, 1)$ lies on line ℓ_8
301 : $P_{46781} = (60, 25, 10, 1)$ lies on line ℓ_4
302 : $P_{46843} = (58, 26, 10, 1)$ lies on line ℓ_8
303 : $P_{46848} = (63, 26, 10, 1)$ lies on line ℓ_4
304 : $P_{46880} = (31, 27, 10, 1)$ lies on line ℓ_8
305 : $P_{46911} = (62, 27, 10, 1)$ lies on line ℓ_4
306 : $P_{46951} = (38, 28, 10, 1)$ lies on line ℓ_8
307 : $P_{46970} = (57, 28, 10, 1)$ lies on line ℓ_4
308 : $P_{46980} = (3, 29, 10, 1)$ lies on line ℓ_8
309 : $P_{47033} = (56, 29, 10, 1)$ lies on line ℓ_4
310 : $P_{47054} = (13, 30, 10, 1)$ lies on line ℓ_8
311 : $P_{47100} = (59, 30, 10, 1)$ lies on line ℓ_4
312 : $P_{47145} = (40, 31, 10, 1)$ lies on line ℓ_8
313 : $P_{47163} = (58, 31, 10, 1)$ lies on line ℓ_4
314 : $P_{47174} = (5, 32, 10, 1)$ lies on line ℓ_4
315 : $P_{47229} = (60, 32, 10, 1)$ lies on line ℓ_8
316 : $P_{47237} = (4, 33, 10, 1)$ lies on line ℓ_4
317 : $P_{47258} = (25, 33, 10, 1)$ lies on line ℓ_8
318 : $P_{47304} = (7, 34, 10, 1)$ lies on line ℓ_4
319 : $P_{47320} = (23, 34, 10, 1)$ lies on line ℓ_8
320 : $P_{47367} = (6, 35, 10, 1)$ lies on line ℓ_4
321 : $P_{47411} = (50, 35, 10, 1)$ lies on line ℓ_8
322 : $P_{47489} = (0, 37, 10, 1)$ lies on line ℓ_4
323 : $P_{47535} = (46, 37, 10, 1)$ lies on line ℓ_8
324 : $P_{47556} = (3, 38, 10, 1)$ lies on line ℓ_4
325 : $P_{47585} = (32, 38, 10, 1)$ lies on line ℓ_8
326 : $P_{47619} = (2, 39, 10, 1)$ lies on line ℓ_4
327 : $P_{47622} = (5, 39, 10, 1)$ lies on line ℓ_8
328 : $P_{47694} = (13, 40, 10, 1)$ lies on line ℓ_4
329 : $P_{47732} = (51, 40, 10, 1)$ lies on line ℓ_8
330 : $P_{47757} = (12, 41, 10, 1)$ lies on line ℓ_4
331 : $P_{47767} = (22, 41, 10, 1)$ lies on line ℓ_8
332 : $P_{47824} = (15, 42, 10, 1)$ lies on line ℓ_4
333 : $P_{47833} = (24, 42, 10, 1)$ lies on line ℓ_8
334 : $P_{47887} = (14, 43, 10, 1)$ lies on line ℓ_4
335 : $P_{47934} = (61, 43, 10, 1)$ lies on line ℓ_8
336 : $P_{47941} = (4, 44, 10, 1)$ lies on line ℓ_8
337 : $P_{47946} = (9, 44, 10, 1)$ lies on line ℓ_4
338 : $P_{48009} = (8, 45, 10, 1)$ lies on line ℓ_4
339 : $P_{48034} = (33, 45, 10, 1)$ lies on line ℓ_8
340 : $P_{48214} = (21, 48, 10, 1)$ lies on line ℓ_4
341 : $P_{48227} = (34, 48, 10, 1)$ lies on line ℓ_8
342 : $P_{48264} = (7, 49, 10, 1)$ lies on line ℓ_8
343 : $P_{48277} = (20, 49, 10, 1)$ lies on line ℓ_4
344 : $P_{48330} = (9, 50, 10, 1)$ lies on line ℓ_8
345 : $P_{48344} = (23, 50, 10, 1)$ lies on line ℓ_4
346 : $P_{48407} = (22, 51, 10, 1)$ lies on line ℓ_4
347 : $P_{48429} = (44, 51, 10, 1)$ lies on line ℓ_8
348 : $P_{48466} = (17, 52, 10, 1)$ lies on line ℓ_4
349 : $P_{48470} = (21, 52, 10, 1)$ lies on line ℓ_8
350 : $P_{48529} = (16, 53, 10, 1)$ lies on line ℓ_4
351 : $P_{48561} = (48, 53, 10, 1)$ lies on line ℓ_8
352 : $P_{48596} = (19, 54, 10, 1)$ lies on line ℓ_4
353 : $P_{48639} = (62, 54, 10, 1)$ lies on line ℓ_8
354 : $P_{48659} = (18, 55, 10, 1)$ lies on line ℓ_4
355 : $P_{48668} = (27, 55, 10, 1)$ lies on line ℓ_8
356 : $P_{48734} = (29, 56, 10, 1)$ lies on line ℓ_4
357 : $P_{48750} = (45, 56, 10, 1)$ lies on line ℓ_8
358 : $P_{48777} = (8, 57, 10, 1)$ lies on line ℓ_8
359 : $P_{48797} = (28, 57, 10, 1)$ lies on line ℓ_4
360 : $P_{48839} = (6, 58, 10, 1)$ lies on line ℓ_8
361 : $P_{48864} = (31, 58, 10, 1)$ lies on line ℓ_4
362 : $P_{48927} = (30, 59, 10, 1)$ lies on line ℓ_4
363 : $P_{48932} = (35, 59, 10, 1)$ lies on line ℓ_8
364 : $P_{48986} = (25, 60, 10, 1)$ lies on line ℓ_4
365 : $P_{48987} = (26, 60, 10, 1)$ lies on line ℓ_8
366 : $P_{49049} = (24, 61, 10, 1)$ lies on line ℓ_4
367 : $P_{49088} = (63, 61, 10, 1)$ lies on line ℓ_8
368 : $P_{49116} = (27, 62, 10, 1)$ lies on line ℓ_4
369 : $P_{49138} = (49, 62, 10, 1)$ lies on line ℓ_8
370 : $P_{49173} = (20, 63, 10, 1)$ lies on line ℓ_8
371 : $P_{49179} = (26, 63, 10, 1)$ lies on line ℓ_4
372 : $P_{49217} = (0, 0, 11, 1)$ lies on line ℓ_2
373 : $P_{49868} = (11, 10, 11, 1)$ lies on line ℓ_{14}
374 : $P_{49904} = (47, 10, 11, 1)$ lies on line ℓ_{15}
375 : $P_{51521} = (0, 36, 11, 1)$ lies on line ℓ_{11}
376 : $P_{51567} = (46, 36, 11, 1)$ lies on line ℓ_{10}
377 : $P_{53313} = (0, 0, 12, 1)$ lies on line ℓ_2
378 : $P_{53458} = (17, 2, 12, 1)$ lies on line ℓ_{15}
379 : $P_{53502} = (61, 2, 12, 1)$ lies on line ℓ_{14}
380 : $P_{54480} = (15, 18, 12, 1)$ lies on line ℓ_{11}
381 : $P_{54488} = (23, 18, 12, 1)$ lies on line ℓ_{10}
382 : $P_{55136} = (31, 28, 12, 1)$ lies on line ℓ_{12}
383 : $P_{55143} = (38, 28, 12, 1)$ lies on line ℓ_{13}
384 : $P_{57409} = (0, 0, 13, 1)$ lies on line ℓ_2
385 : $P_{58977} = (32, 24, 13, 1)$ lies on line ℓ_{11}
386 : $P_{58995} = (50, 24, 13, 1)$ lies on line ℓ_{10}
387 : $P_{60278} = (53, 44, 13, 1)$ lies on line ℓ_{15}

388 : $P_{60280} = (55, 44, 13, 1)$ lies on line ℓ_{14}
389 : $P_{61065} = (8, 57, 13, 1)$ lies on line ℓ_{13}
390 : $P_{61077} = (20, 57, 13, 1)$ lies on line ℓ_{12}
391 : $P_{61505} = (0, 0, 14, 1)$ lies on line ℓ_2
392 : $P_{61937} = (48, 6, 14, 1)$ lies on line ℓ_{11}
393 : $P_{61949} = (60, 6, 14, 1)$ lies on line ℓ_{10}
394 : $P_{65034} = (9, 55, 14, 1)$ lies on line ℓ_{12}
395 : $P_{65052} = (27, 55, 14, 1)$ lies on line ℓ_{13}
396 : $P_{65578} = (41, 63, 14, 1)$ lies on line ℓ_{14}
397 : $P_{65593} = (56, 63, 14, 1)$ lies on line ℓ_{15}
398 : $P_{65601} = (0, 0, 15, 1)$ lies on line ℓ_2
399 : $P_{66394} = (25, 12, 15, 1)$ lies on line ℓ_{10}
400 : $P_{66400} = (31, 12, 15, 1)$ lies on line ℓ_{11}
401 : $P_{66717} = (28, 17, 15, 1)$ lies on line ℓ_{15}
402 : $P_{66724} = (35, 17, 15, 1)$ lies on line ℓ_{14}
403 : $P_{66755} = (2, 18, 15, 1)$ lies on line ℓ_{12}
404 : $P_{66806} = (53, 18, 15, 1)$ lies on line ℓ_{13}
405 : $P_{69697} = (0, 0, 16, 1)$ lies on line ℓ_2
406 : $P_{70258} = (49, 8, 16, 1)$ lies on line ℓ_{10}
407 : $P_{70260} = (51, 8, 16, 1)$ lies on line ℓ_{11}
408 : $P_{71912} = (39, 34, 16, 1)$ lies on line ℓ_{14}
409 : $P_{71916} = (43, 34, 16, 1)$ lies on line ℓ_{15}
410 : $P_{73415} = (6, 58, 16, 1)$ lies on line ℓ_{13}
411 : $P_{73434} = (25, 58, 16, 1)$ lies on line ℓ_{12}
412 : $P_{73793} = (0, 0, 17, 1)$ lies on line ℓ_2
413 : $P_{73941} = (20, 2, 17, 1)$ lies on line ℓ_{10}
414 : $P_{73949} = (28, 2, 17, 1)$ lies on line ℓ_{11}
415 : $P_{74576} = (15, 12, 17, 1)$ lies on line ℓ_{15}
416 : $P_{74606} = (45, 12, 17, 1)$ lies on line ℓ_{14}
417 : $P_{75795} = (18, 31, 17, 1)$ lies on line ℓ_{12}
418 : $P_{75817} = (40, 31, 17, 1)$ lies on line ℓ_{13}
419 : $P_{77889} = (0, 0, 18, 1)$ lies on line ℓ_2
420 : $P_{78992} = (15, 17, 18, 1)$ lies on line ℓ_{12}
421 : $P_{79036} = (59, 17, 18, 1)$ lies on line ℓ_{13}
422 : $P_{79693} = (12, 28, 18, 1)$ lies on line ℓ_{11}
423 : $P_{79707} = (26, 28, 18, 1)$ lies on line ℓ_{10}
424 : $P_{79875} = (2, 31, 18, 1)$ lies on line ℓ_{15}
425 : $P_{79924} = (51, 31, 18, 1)$ lies on line ℓ_{14}
426 : $P_{81985} = (0, 0, 19, 1)$ lies on line ℓ_2
427 : $P_{83428} = (35, 22, 19, 1)$ lies on line ℓ_{11}
428 : $P_{83456} = (63, 22, 19, 1)$ lies on line ℓ_{10}
429 : $P_{85159} = (38, 49, 19, 1)$ lies on line ℓ_{15}
430 : $P_{85178} = (57, 49, 19, 1)$ lies on line ℓ_{14}
431 : $P_{85317} = (4, 52, 19, 1)$ lies on line ℓ_{12}
432 : $P_{85334} = (21, 52, 19, 1)$ lies on line ℓ_{13}
433 : $P_{86081} = (0, 0, 20, 1)$ lies on line ℓ_2
434 : $P_{86942} = (29, 13, 20, 1)$ lies on line ℓ_{13}
435 : $P_{86966} = (53, 13, 20, 1)$ lies on line ℓ_{12}
436 : $P_{88135} = (6, 32, 20, 1)$ lies on line ℓ_{10}
437 : $P_{88173} = (44, 32, 20, 1)$ lies on line ℓ_{11}
438 : $P_{89744} = (15, 57, 20, 1)$ lies on line ℓ_{14}
439 : $P_{89753} = (24, 57, 20, 1)$ lies on line ℓ_{15}
440 : $P_{90177} = (0, 0, 21, 1)$ lies on line ℓ_2
441 : $P_{91654} = (5, 23, 21, 1)$ lies on line ℓ_{14}
442 : $P_{91709} = (60, 23, 21, 1)$ lies on line ℓ_{15}
443 : $P_{92788} = (51, 40, 21, 1)$ lies on line ℓ_{13}
444 : $P_{92799} = (62, 40, 21, 1)$ lies on line ℓ_{12}
445 : $P_{92868} = (3, 42, 21, 1)$ lies on line ℓ_{11}
446 : $P_{92900} = (35, 42, 21, 1)$ lies on line ℓ_{10}
447 : $P_{94273} = (0, 0, 22, 1)$ lies on line ℓ_2
448 : $P_{94556} = (27, 4, 22, 1)$ lies on line ℓ_{14}
449 : $P_{94578} = (49, 4, 22, 1)$ lies on line ℓ_{15}
450 : $P_{96737} = (32, 38, 22, 1)$ lies on line ℓ_{13}
451 : $P_{96740} = (35, 38, 22, 1)$ lies on line ℓ_{12}
452 : $P_{97620} = (19, 52, 22, 1)$ lies on line ℓ_{11}
453 : $P_{97646} = (45, 52, 22, 1)$ lies on line ℓ_{10}
454 : $P_{98369} = (0, 0, 23, 1)$ lies on line ℓ_2
455 : $P_{98575} = (14, 3, 23, 1)$ lies on line ℓ_{13}
456 : $P_{98601} = (40, 3, 23, 1)$ lies on line ℓ_{12}
457 : $P_{101074} = (17, 42, 23, 1)$ lies on line ℓ_{14}
458 : $P_{101078} = (21, 42, 23, 1)$ lies on line ℓ_{15}
459 : $P_{102345} = (8, 62, 23, 1)$ lies on line ℓ_{10}
460 : $P_{102397} = (60, 62, 23, 1)$ lies on line ℓ_{11}
461 : $P_{102465} = (0, 0, 24, 1)$ lies on line ℓ_2
462 : $P_{103767} = (22, 20, 24, 1)$ lies on line ℓ_{14}
463 : $P_{103789} = (44, 20, 24, 1)$ lies on line ℓ_{15}
464 : $P_{105889} = (32, 53, 24, 1)$ lies on line ℓ_{12}
465 : $P_{105905} = (48, 53, 24, 1)$ lies on line ℓ_{13}
466 : $P_{106126} = (13, 57, 24, 1)$ lies on line ℓ_{11}
467 : $P_{106175} = (62, 57, 24, 1)$ lies on line ℓ_{10}
468 : $P_{106561} = (0, 0, 25, 1)$ lies on line ℓ_2
469 : $P_{107615} = (30, 16, 25, 1)$ lies on line ℓ_{13}
470 : $P_{107628} = (43, 16, 25, 1)$ lies on line ℓ_{12}
471 : $P_{109852} = (27, 51, 25, 1)$ lies on line ℓ_{10}
472 : $P_{109859} = (34, 51, 25, 1)$ lies on line ℓ_{11}
473 : $P_{110281} = (8, 58, 25, 1)$ lies on line ℓ_{15}
474 : $P_{110301} = (28, 58, 25, 1)$ lies on line ℓ_{14}
475 : $P_{110657} = (0, 0, 26, 1)$ lies on line ℓ_2
476 : $P_{112590} = (13, 30, 26, 1)$ lies on line ℓ_{13}
477 : $P_{112631} = (54, 30, 26, 1)$ lies on line ℓ_{12}
478 : $P_{113283} = (2, 41, 26, 1)$ lies on line ℓ_{14}
479 : $P_{113286} = (5, 41, 26, 1)$ lies on line ℓ_{15}
480 : $P_{113558} = (21, 45, 26, 1)$ lies on line ℓ_{10}
481 : $P_{113587} = (50, 45, 26, 1)$ lies on line ℓ_{11}
482 : $P_{114753} = (0, 0, 27, 1)$ lies on line ℓ_2
483 : $P_{115209} = (8, 7, 27, 1)$ lies on line ℓ_{14}
484 : $P_{115234} = (33, 7, 27, 1)$ lies on line ℓ_{15}
485 : $P_{117278} = (29, 39, 27, 1)$ lies on line ℓ_{11}
486 : $P_{117297} = (48, 39, 27, 1)$ lies on line ℓ_{10}
487 : $P_{118564} = (35, 59, 27, 1)$ lies on line ℓ_{13}
488 : $P_{118590} = (61, 59, 27, 1)$ lies on line ℓ_{12}
489 : $P_{118849} = (0, 0, 28, 1)$ lies on line ℓ_2
490 : $P_{118989} = (12, 2, 28, 1)$ lies on line ℓ_{12}
491 : $P_{119020} = (43, 2, 28, 1)$ lies on line ℓ_{13}
492 : $P_{119840} = (31, 15, 28, 1)$ lies on line ℓ_{15}
493 : $P_{119871} = (62, 15, 28, 1)$ lies on line ℓ_{14}
494 : $P_{119946} = (9, 17, 28, 1)$ lies on line ℓ_{10}
495 : $P_{119955} = (18, 17, 28, 1)$ lies on line ℓ_{11}

496 : $P_{122945} = (0, 0, 29, 1)$ lies on line ℓ_2
497 : $P_{124717} = (44, 27, 29, 1)$ lies on line ℓ_{10}
498 : $P_{124734} = (61, 27, 29, 1)$ lies on line ℓ_{11}
499 : $P_{125109} = (52, 33, 29, 1)$ lies on line ℓ_{14}
500 : $P_{125116} = (59, 33, 29, 1)$ lies on line ℓ_{15}
501 : $P_{125446} = (5, 39, 29, 1)$ lies on line ℓ_{13}
502 : $P_{125448} = (7, 39, 29, 1)$ lies on line ℓ_{12}
503 : $P_{127041} = (0, 0, 30, 1)$ lies on line ℓ_2
504 : $P_{127395} = (34, 5, 30, 1)$ lies on line ℓ_{10}
505 : $P_{127406} = (45, 5, 30, 1)$ lies on line ℓ_{11}
506 : $P_{129687} = (22, 41, 30, 1)$ lies on line ℓ_{13}
507 : $P_{129691} = (26, 41, 30, 1)$ lies on line ℓ_{12}
508 : $P_{130283} = (42, 50, 30, 1)$ lies on line ℓ_{14}
509 : $P_{130295} = (54, 50, 30, 1)$ lies on line ℓ_{15}
510 : $P_{131137} = (0, 0, 31, 1)$ lies on line ℓ_2
511 : $P_{131922} = (17, 12, 31, 1)$ lies on line ℓ_{12}
512 : $P_{131961} = (56, 12, 31, 1)$ lies on line ℓ_{13}
513 : $P_{132099} = (2, 15, 31, 1)$ lies on line ℓ_{11}
514 : $P_{132104} = (7, 15, 31, 1)$ lies on line ℓ_{10}
515 : $P_{132947} = (18, 28, 31, 1)$ lies on line ℓ_{15}
516 : $P_{132961} = (32, 28, 31, 1)$ lies on line ℓ_{14}
517 : $P_{135233} = (0, 0, 32, 1)$ lies on line ℓ_2
518 : $P_{136084} = (19, 13, 32, 1)$ lies on line ℓ_{10}
519 : $P_{136085} = (20, 13, 32, 1)$ lies on line ℓ_{11}
520 : $P_{136786} = (17, 24, 32, 1)$ lies on line ℓ_{13}
521 : $P_{136813} = (44, 24, 32, 1)$ lies on line ℓ_{12}
522 : $P_{138659} = (34, 53, 32, 1)$ lies on line ℓ_{14}
523 : $P_{138682} = (57, 53, 32, 1)$ lies on line ℓ_{15}
524 : $P_{139329} = (0, 0, 33, 1)$ lies on line ℓ_2
525 : $P_{139831} = (54, 7, 33, 1)$ lies on line ℓ_{10}
526 : $P_{139836} = (59, 7, 33, 1)$ lies on line ℓ_{11}
527 : $P_{141086} = (29, 27, 33, 1)$ lies on line ℓ_{15}
528 : $P_{141097} = (40, 27, 33, 1)$ lies on line ℓ_{14}
529 : $P_{143272} = (39, 61, 33, 1)$ lies on line ℓ_{12}
530 : $P_{143296} = (63, 61, 33, 1)$ lies on line ℓ_{13}
531 : $P_{143425} = (0, 0, 34, 1)$ lies on line ℓ_2
532 : $P_{143953} = (16, 8, 34, 1)$ lies on line ℓ_{15}
533 : $P_{143991} = (54, 8, 34, 1)$ lies on line ℓ_{14}
534 : $P_{145068} = (43, 25, 34, 1)$ lies on line ℓ_{11}
535 : $P_{145081} = (56, 25, 34, 1)$ lies on line ℓ_{10}
536 : $P_{146733} = (44, 51, 34, 1)$ lies on line ℓ_{13}
537 : $P_{146747} = (58, 51, 34, 1)$ lies on line ℓ_{12}
538 : $P_{147521} = (0, 0, 35, 1)$ lies on line ℓ_2
539 : $P_{148741} = (4, 19, 35, 1)$ lies on line ℓ_{11}
540 : $P_{148766} = (29, 19, 35, 1)$ lies on line ℓ_{10}
541 : $P_{148931} = (2, 22, 35, 1)$ lies on line ℓ_{13}
542 : $P_{148978} = (49, 22, 35, 1)$ lies on line ℓ_{12}
543 : $P_{150005} = (52, 38, 35, 1)$ lies on line ℓ_{15}
544 : $P_{150013} = (60, 38, 35, 1)$ lies on line ℓ_{14}
545 : $P_{151617} = (0, 0, 36, 1)$ lies on line ℓ_2
546 : $P_{153996} = (11, 37, 36, 1)$ lies on line ℓ_{11}
547 : $P_{154021} = (36, 37, 36, 1)$ lies on line ℓ_{10}
548 : $P_{154625} = (0, 47, 36, 1)$ lies on line ℓ_{12}
549 : $P_{154635} = (10, 47, 36, 1)$ lies on line ℓ_{13}
550 : $P_{155823} = (46, 1, 37, 1)$ lies on line ℓ_9
551 : $P_{155824} = (47, 1, 37, 1)$ lies on line ℓ_5
552 : $P_{155885} = (44, 2, 37, 1)$ lies on line ℓ_5
553 : $P_{155902} = (61, 2, 37, 1)$ lies on line ℓ_9
554 : $P_{155924} = (19, 3, 37, 1)$ lies on line ℓ_9
555 : $P_{155950} = (45, 3, 37, 1)$ lies on line ℓ_5
556 : $P_{155996} = (27, 4, 37, 1)$ lies on line ℓ_9
557 : $P_{156011} = (42, 4, 37, 1)$ lies on line ℓ_5
558 : $P_{156076} = (43, 5, 37, 1)$ lies on line ℓ_5
559 : $P_{156086} = (53, 5, 37, 1)$ lies on line ℓ_9
560 : $P_{156135} = (38, 6, 37, 1)$ lies on line ℓ_9
561 : $P_{156137} = (40, 6, 37, 1)$ lies on line ℓ_5
562 : $P_{156169} = (8, 7, 37, 1)$ lies on line ℓ_9
563 : $P_{156202} = (41, 7, 37, 1)$ lies on line ℓ_5
564 : $P_{156263} = (38, 8, 37, 1)$ lies on line ℓ_5
565 : $P_{156279} = (54, 8, 37, 1)$ lies on line ℓ_9
566 : $P_{156313} = (24, 9, 37, 1)$ lies on line ℓ_9
567 : $P_{156328} = (39, 9, 37, 1)$ lies on line ℓ_5
568 : $P_{156515} = (34, 12, 37, 1)$ lies on line ℓ_5
569 : $P_{156526} = (45, 12, 37, 1)$ lies on line ℓ_9
570 : $P_{156548} = (3, 13, 37, 1)$ lies on line ℓ_9
571 : $P_{156580} = (35, 13, 37, 1)$ lies on line ℓ_5
572 : $P_{156625} = (16, 14, 37, 1)$ lies on line ℓ_9
573 : $P_{156641} = (32, 14, 37, 1)$ lies on line ℓ_5
574 : $P_{156706} = (33, 15, 37, 1)$ lies on line ℓ_5
575 : $P_{156735} = (62, 15, 37, 1)$ lies on line ℓ_9
576 : $P_{156750} = (13, 16, 37, 1)$ lies on line ℓ_9
577 : $P_{156799} = (62, 16, 37, 1)$ lies on line ℓ_5
578 : $P_{156836} = (35, 17, 37, 1)$ lies on line ℓ_9
579 : $P_{156864} = (63, 17, 37, 1)$ lies on line ℓ_5
580 : $P_{156913} = (48, 18, 37, 1)$ lies on line ℓ_9
581 : $P_{156925} = (60, 18, 37, 1)$ lies on line ℓ_5
582 : $P_{156959} = (30, 19, 37, 1)$ lies on line ℓ_9
583 : $P_{156990} = (61, 19, 37, 1)$ lies on line ℓ_5
584 : $P_{157015} = (22, 20, 37, 1)$ lies on line ℓ_9
585 : $P_{157051} = (58, 20, 37, 1)$ lies on line ℓ_5
586 : $P_{157113} = (56, 21, 37, 1)$ lies on line ℓ_9
587 : $P_{157116} = (59, 21, 37, 1)$ lies on line ℓ_5
588 : $P_{157164} = (43, 22, 37, 1)$ lies on line ℓ_9
589 : $P_{157177} = (56, 22, 37, 1)$ lies on line ℓ_5
590 : $P_{157190} = (5, 23, 37, 1)$ lies on line ℓ_9
591 : $P_{157242} = (57, 23, 37, 1)$ lies on line ℓ_5
592 : $P_{157303} = (54, 24, 37, 1)$ lies on line ℓ_5
593 : $P_{157308} = (59, 24, 37, 1)$ lies on line ℓ_9
594 : $P_{157334} = (21, 25, 37, 1)$ lies on line ℓ_9
595 : $P_{157368} = (55, 25, 37, 1)$ lies on line ℓ_5
596 : $P_{157383} = (6, 26, 37, 1)$ lies on line ℓ_9
597 : $P_{157429} = (52, 26, 37, 1)$ lies on line ℓ_5
598 : $P_{157481} = (40, 27, 37, 1)$ lies on line ℓ_9
599 : $P_{157494} = (53, 27, 37, 1)$ lies on line ℓ_5
600 : $P_{157537} = (32, 28, 37, 1)$ lies on line ℓ_9
601 : $P_{157555} = (50, 28, 37, 1)$ lies on line ℓ_5
602 : $P_{157583} = (14, 29, 37, 1)$ lies on line ℓ_9
603 : $P_{157620} = (51, 29, 37, 1)$ lies on line ℓ_5

604 : $P_{157662} = (29, 30, 37, 1)$ lies on line ℓ_9
605 : $P_{157681} = (48, 30, 37, 1)$ lies on line ℓ_5
606 : $P_{157746} = (49, 31, 37, 1)$ lies on line ℓ_5
607 : $P_{157748} = (51, 31, 37, 1)$ lies on line ℓ_9
608 : $P_{157775} = (14, 32, 37, 1)$ lies on line ℓ_5
609 : $P_{157787} = (26, 32, 37, 1)$ lies on line ℓ_9
610 : $P_{157840} = (15, 33, 37, 1)$ lies on line ℓ_5
611 : $P_{157877} = (52, 33, 37, 1)$ lies on line ℓ_9
612 : $P_{157901} = (12, 34, 37, 1)$ lies on line ℓ_5
613 : $P_{157928} = (39, 34, 37, 1)$ lies on line ℓ_9
614 : $P_{157962} = (9, 35, 37, 1)$ lies on line ℓ_9
615 : $P_{157966} = (13, 35, 37, 1)$ lies on line ℓ_5
616 : $P_{158018} = (1, 36, 37, 1)$ lies on line ℓ_9
617 : $P_{158027} = (10, 36, 37, 1)$ lies on line ℓ_5
618 : $P_{158092} = (11, 37, 37, 1)$ lies on line ℓ_5
619 : $P_{158128} = (47, 37, 37, 1)$ lies on line ℓ_9
620 : $P_{158153} = (8, 38, 37, 1)$ lies on line ℓ_5
621 : $P_{158205} = (60, 38, 37, 1)$ lies on line ℓ_9
622 : $P_{158218} = (9, 39, 37, 1)$ lies on line ℓ_5
623 : $P_{158227} = (18, 39, 37, 1)$ lies on line ℓ_9
624 : $P_{158279} = (6, 40, 37, 1)$ lies on line ℓ_5
625 : $P_{158317} = (44, 40, 37, 1)$ lies on line ℓ_9
626 : $P_{158339} = (2, 41, 37, 1)$ lies on line ℓ_9
627 : $P_{158344} = (7, 41, 37, 1)$ lies on line ℓ_5
628 : $P_{158405} = (4, 42, 37, 1)$ lies on line ℓ_5
629 : $P_{158418} = (17, 42, 37, 1)$ lies on line ℓ_9
630 : $P_{158470} = (5, 43, 37, 1)$ lies on line ℓ_5
631 : $P_{158528} = (63, 43, 37, 1)$ lies on line ℓ_9
632 : $P_{158531} = (2, 44, 37, 1)$ lies on line ℓ_5
633 : $P_{158584} = (55, 44, 37, 1)$ lies on line ℓ_9
634 : $P_{158596} = (3, 45, 37, 1)$ lies on line ℓ_5
635 : $P_{158618} = (25, 45, 37, 1)$ lies on line ℓ_9
636 : $P_{158657} = (0, 46, 37, 1)$ lies on line ℓ_5
637 : $P_{158667} = (10, 46, 37, 1)$ lies on line ℓ_9
638 : $P_{158808} = (23, 48, 37, 1)$ lies on line ℓ_9
639 : $P_{158815} = (30, 48, 37, 1)$ lies on line ℓ_5
640 : $P_{158880} = (31, 49, 37, 1)$ lies on line ℓ_5
641 : $P_{158906} = (57, 49, 37, 1)$ lies on line ℓ_9
642 : $P_{158941} = (28, 50, 37, 1)$ lies on line ℓ_5
643 : $P_{158955} = (42, 50, 37, 1)$ lies on line ℓ_9
644 : $P_{158981} = (4, 51, 37, 1)$ lies on line ℓ_9
645 : $P_{159006} = (29, 51, 37, 1)$ lies on line ℓ_5
646 : $P_{159053} = (12, 52, 37, 1)$ lies on line ℓ_9
647 : $P_{159067} = (26, 52, 37, 1)$ lies on line ℓ_5
648 : $P_{159132} = (27, 53, 37, 1)$ lies on line ℓ_5
649 : $P_{159139} = (34, 53, 37, 1)$ lies on line ℓ_9
650 : $P_{159193} = (24, 54, 37, 1)$ lies on line ℓ_5
651 : $P_{159218} = (49, 54, 37, 1)$ lies on line ℓ_9
652 : $P_{159258} = (25, 55, 37, 1)$ lies on line ℓ_5
653 : $P_{159264} = (31, 55, 37, 1)$ lies on line ℓ_9
654 : $P_{159319} = (22, 56, 37, 1)$ lies on line ℓ_5
655 : $P_{159330} = (33, 56, 37, 1)$ lies on line ℓ_9
656 : $P_{159376} = (15, 57, 37, 1)$ lies on line ℓ_9
657 : $P_{159384} = (23, 57, 37, 1)$ lies on line ℓ_5
658 : $P_{159445} = (20, 58, 37, 1)$ lies on line ℓ_5
659 : $P_{159453} = (28, 58, 37, 1)$ lies on line ℓ_9
660 : $P_{159510} = (21, 59, 37, 1)$ lies on line ℓ_5
661 : $P_{159539} = (50, 59, 37, 1)$ lies on line ℓ_9
662 : $P_{159571} = (18, 60, 37, 1)$ lies on line ℓ_5
663 : $P_{159611} = (58, 60, 37, 1)$ lies on line ℓ_9
664 : $P_{159636} = (19, 61, 37, 1)$ lies on line ℓ_5
665 : $P_{159637} = (20, 61, 37, 1)$ lies on line ℓ_9
666 : $P_{159688} = (7, 62, 37, 1)$ lies on line ℓ_9
667 : $P_{159697} = (16, 62, 37, 1)$ lies on line ℓ_5
668 : $P_{159762} = (17, 63, 37, 1)$ lies on line ℓ_5
669 : $P_{159786} = (41, 63, 37, 1)$ lies on line ℓ_9
670 : $P_{159809} = (0, 0, 38, 1)$ lies on line ℓ_2
671 : $P_{160087} = (22, 4, 38, 1)$ lies on line ℓ_{12}
672 : $P_{160120} = (55, 4, 38, 1)$ lies on line ℓ_{13}
673 : $P_{161055} = (30, 19, 38, 1)$ lies on line ℓ_{14}
674 : $P_{161060} = (35, 19, 38, 1)$ lies on line ℓ_{15}
675 : $P_{162960} = (15, 49, 38, 1)$ lies on line ℓ_{10}
676 : $P_{162997} = (52, 49, 38, 1)$ lies on line ℓ_{11}
677 : $P_{163905} = (0, 0, 39, 1)$ lies on line ℓ_2
678 : $P_{166042} = (25, 33, 39, 1)$ lies on line ℓ_{13}
679 : $P_{166046} = (29, 33, 39, 1)$ lies on line ℓ_{12}
680 : $P_{167708} = (27, 59, 39, 1)$ lies on line ℓ_{11}
681 : $P_{167723} = (42, 59, 39, 1)$ lies on line ℓ_{10}
682 : $P_{167816} = (7, 61, 39, 1)$ lies on line ℓ_{15}
683 : $P_{167829} = (20, 61, 39, 1)$ lies on line ℓ_{14}
684 : $P_{168001} = (0, 0, 40, 1)$ lies on line ℓ_2
685 : $P_{168212} = (19, 3, 40, 1)$ lies on line ℓ_{14}
686 : $P_{168255} = (62, 3, 40, 1)$ lies on line ℓ_{15}
687 : $P_{169494} = (21, 23, 40, 1)$ lies on line ℓ_{12}
688 : $P_{169512} = (39, 23, 40, 1)$ lies on line ℓ_{13}
689 : $P_{171869} = (28, 60, 40, 1)$ lies on line ℓ_{10}
690 : $P_{171883} = (42, 60, 40, 1)$ lies on line ℓ_{11}
691 : $P_{172097} = (0, 0, 41, 1)$ lies on line ℓ_2
692 : $P_{175002} = (25, 45, 41, 1)$ lies on line ℓ_{14}
693 : $P_{175003} = (26, 45, 41, 1)$ lies on line ℓ_{15}
694 : $P_{175306} = (9, 50, 41, 1)$ lies on line ℓ_{13}
695 : $P_{175327} = (30, 50, 41, 1)$ lies on line ℓ_{12}
696 : $P_{175558} = (5, 54, 41, 1)$ lies on line ℓ_{11}
697 : $P_{175610} = (57, 54, 41, 1)$ lies on line ℓ_{10}
698 : $P_{176193} = (0, 0, 42, 1)$ lies on line ℓ_2
699 : $P_{178774} = (21, 40, 42, 1)$ lies on line ℓ_{11}
700 : $P_{178808} = (55, 40, 42, 1)$ lies on line ℓ_{10}
701 : $P_{180036} = (3, 60, 42, 1)$ lies on line ℓ_{12}
702 : $P_{180059} = (26, 60, 42, 1)$ lies on line ℓ_{13}
703 : $P_{180168} = (7, 62, 42, 1)$ lies on line ℓ_{14}
704 : $P_{180184} = (23, 62, 42, 1)$ lies on line ℓ_{15}
705 : $P_{180289} = (0, 0, 43, 1)$ lies on line ℓ_2
706 : $P_{181326} = (13, 16, 43, 1)$ lies on line ℓ_{14}
707 : $P_{181364} = (51, 16, 43, 1)$ lies on line ℓ_{15}
708 : $P_{181897} = (8, 25, 43, 1)$ lies on line ℓ_{12}
709 : $P_{181941} = (52, 25, 43, 1)$ lies on line ℓ_{13}
710 : $P_{182483} = (18, 34, 43, 1)$ lies on line ℓ_{10}
711 : $P_{182523} = (58, 34, 43, 1)$ lies on line ℓ_{11}

712 : $P_{184385} = (0, 0, 44, 1)$ lies on line ℓ_2
713 : $P_{185708} = (43, 20, 44, 1)$ lies on line ℓ_{10}
714 : $P_{185718} = (53, 20, 44, 1)$ lies on line ℓ_{11}
715 : $P_{185934} = (13, 24, 44, 1)$ lies on line ℓ_{15}
716 : $P_{185980} = (59, 24, 44, 1)$ lies on line ℓ_{14}
717 : $P_{186490} = (57, 32, 44, 1)$ lies on line ℓ_{12}
718 : $P_{186493} = (60, 32, 44, 1)$ lies on line ℓ_{13}
719 : $P_{188481} = (0, 0, 45, 1)$ lies on line ℓ_2
720 : $P_{188819} = (18, 5, 45, 1)$ lies on line ℓ_{13}
721 : $P_{188851} = (50, 5, 45, 1)$ lies on line ℓ_{12}
722 : $P_{190415} = (14, 30, 45, 1)$ lies on line ℓ_{10}
723 : $P_{190427} = (26, 30, 45, 1)$ lies on line ℓ_{11}
724 : $P_{191978} = (41, 54, 45, 1)$ lies on line ℓ_{15}
725 : $P_{191986} = (49, 54, 45, 1)$ lies on line ℓ_{14}
726 : $P_{192651} = (10, 1, 46, 1)$ lies on line ℓ_7
727 : $P_{192652} = (11, 1, 46, 1)$ lies on line ℓ_6
728 : $P_{192713} = (8, 2, 46, 1)$ lies on line ℓ_6
729 : $P_{192725} = (20, 2, 46, 1)$ lies on line ℓ_7
730 : $P_{192778} = (9, 3, 46, 1)$ lies on line ℓ_6
731 : $P_{192799} = (30, 3, 46, 1)$ lies on line ℓ_7
732 : $P_{192847} = (14, 4, 46, 1)$ lies on line ℓ_6
733 : $P_{192873} = (40, 4, 46, 1)$ lies on line ℓ_7
734 : $P_{192912} = (15, 5, 46, 1)$ lies on line ℓ_6
735 : $P_{192931} = (34, 5, 46, 1)$ lies on line ℓ_7
736 : $P_{192973} = (12, 6, 46, 1)$ lies on line ℓ_6
737 : $P_{193021} = (60, 6, 46, 1)$ lies on line ℓ_7
738 : $P_{193038} = (13, 7, 46, 1)$ lies on line ℓ_6
739 : $P_{193079} = (54, 7, 46, 1)$ lies on line ℓ_7
740 : $P_{193091} = (2, 8, 46, 1)$ lies on line ℓ_6
741 : $P_{193138} = (49, 8, 46, 1)$ lies on line ℓ_7
742 : $P_{193156} = (3, 9, 46, 1)$ lies on line ℓ_6
743 : $P_{193212} = (59, 9, 46, 1)$ lies on line ℓ_7
744 : $P_{193217} = (0, 10, 46, 1)$ lies on line ℓ_6
745 : $P_{193254} = (37, 10, 46, 1)$ lies on line ℓ_7
746 : $P_{193351} = (6, 12, 46, 1)$ lies on line ℓ_6
747 : $P_{193370} = (25, 12, 46, 1)$ lies on line ℓ_7
748 : $P_{193416} = (7, 13, 46, 1)$ lies on line ℓ_6
749 : $P_{193428} = (19, 13, 46, 1)$ lies on line ℓ_7
750 : $P_{193477} = (4, 14, 46, 1)$ lies on line ℓ_6
751 : $P_{193486} = (13, 14, 46, 1)$ lies on line ℓ_7
752 : $P_{193542} = (5, 15, 46, 1)$ lies on line ℓ_6
753 : $P_{193544} = (7, 15, 46, 1)$ lies on line ℓ_7
754 : $P_{193604} = (3, 16, 46, 1)$ lies on line ℓ_7
755 : $P_{193627} = (26, 16, 46, 1)$ lies on line ℓ_6
756 : $P_{193674} = (9, 17, 46, 1)$ lies on line ℓ_7
757 : $P_{193692} = (27, 17, 46, 1)$ lies on line ℓ_6
758 : $P_{193752} = (23, 18, 46, 1)$ lies on line ℓ_7
759 : $P_{193753} = (24, 18, 46, 1)$ lies on line ℓ_6
760 : $P_{193818} = (25, 19, 46, 1)$ lies on line ℓ_6
761 : $P_{193822} = (29, 19, 46, 1)$ lies on line ℓ_7
762 : $P_{193887} = (30, 20, 46, 1)$ lies on line ℓ_6
763 : $P_{193900} = (43, 20, 46, 1)$ lies on line ℓ_7
764 : $P_{193952} = (31, 21, 46, 1)$ lies on line ℓ_6
765 : $P_{193954} = (33, 21, 46, 1)$ lies on line ℓ_7
766 : $P_{194013} = (28, 22, 46, 1)$ lies on line ℓ_6
767 : $P_{194048} = (63, 22, 46, 1)$ lies on line ℓ_7
768 : $P_{194078} = (29, 23, 46, 1)$ lies on line ℓ_6
769 : $P_{194102} = (53, 23, 46, 1)$ lies on line ℓ_7
770 : $P_{194131} = (18, 24, 46, 1)$ lies on line ℓ_6
771 : $P_{194163} = (50, 24, 46, 1)$ lies on line ℓ_7
772 : $P_{194196} = (19, 25, 46, 1)$ lies on line ℓ_6
773 : $P_{194233} = (56, 25, 46, 1)$ lies on line ℓ_7
774 : $P_{194257} = (16, 26, 46, 1)$ lies on line ℓ_6
775 : $P_{194279} = (38, 26, 46, 1)$ lies on line ℓ_7
776 : $P_{194322} = (17, 27, 46, 1)$ lies on line ℓ_6
777 : $P_{194349} = (44, 27, 46, 1)$ lies on line ℓ_7
778 : $P_{194391} = (22, 28, 46, 1)$ lies on line ℓ_6
779 : $P_{194395} = (26, 28, 46, 1)$ lies on line ℓ_7
780 : $P_{194449} = (16, 29, 46, 1)$ lies on line ℓ_7
781 : $P_{194456} = (23, 29, 46, 1)$ lies on line ℓ_6
782 : $P_{194511} = (14, 30, 46, 1)$ lies on line ℓ_7
783 : $P_{194517} = (20, 30, 46, 1)$ lies on line ℓ_6
784 : $P_{194565} = (4, 31, 46, 1)$ lies on line ℓ_7
785 : $P_{194582} = (21, 31, 46, 1)$ lies on line ℓ_6
786 : $P_{194631} = (6, 32, 46, 1)$ lies on line ℓ_7
787 : $P_{194667} = (42, 32, 46, 1)$ lies on line ℓ_6
788 : $P_{194701} = (12, 33, 46, 1)$ lies on line ℓ_7
789 : $P_{194732} = (43, 33, 46, 1)$ lies on line ℓ_6
790 : $P_{194771} = (18, 34, 46, 1)$ lies on line ℓ_7
791 : $P_{194793} = (40, 34, 46, 1)$ lies on line ℓ_6
792 : $P_{194841} = (24, 35, 46, 1)$ lies on line ℓ_7
793 : $P_{194858} = (41, 35, 46, 1)$ lies on line ℓ_6
794 : $P_{195053} = (44, 38, 46, 1)$ lies on line ℓ_6
795 : $P_{195067} = (58, 38, 46, 1)$ lies on line ℓ_7
796 : $P_{195118} = (45, 39, 46, 1)$ lies on line ℓ_6
797 : $P_{195121} = (48, 39, 46, 1)$ lies on line ℓ_7
798 : $P_{195171} = (34, 40, 46, 1)$ lies on line ℓ_6
799 : $P_{195192} = (55, 40, 46, 1)$ lies on line ℓ_7
800 : $P_{195236} = (35, 41, 46, 1)$ lies on line ℓ_6
801 : $P_{195262} = (61, 41, 46, 1)$ lies on line ℓ_7
802 : $P_{195297} = (32, 42, 46, 1)$ lies on line ℓ_6
803 : $P_{195300} = (35, 42, 46, 1)$ lies on line ℓ_7
804 : $P_{195362} = (33, 43, 46, 1)$ lies on line ℓ_6
805 : $P_{195370} = (41, 43, 46, 1)$ lies on line ℓ_7
806 : $P_{195424} = (31, 44, 46, 1)$ lies on line ℓ_7
807 : $P_{195431} = (38, 44, 46, 1)$ lies on line ℓ_6
808 : $P_{195478} = (21, 45, 46, 1)$ lies on line ℓ_7
809 : $P_{195496} = (39, 45, 46, 1)$ lies on line ℓ_6
810 : $P_{195532} = (11, 46, 46, 1)$ lies on line ℓ_7
811 : $P_{195557} = (36, 46, 46, 1)$ lies on line ℓ_6
812 : $P_{195586} = (1, 47, 46, 1)$ lies on line ℓ_7
813 : $P_{195622} = (37, 47, 46, 1)$ lies on line ℓ_6
814 : $P_{195654} = (5, 48, 46, 1)$ lies on line ℓ_7
815 : $P_{195707} = (58, 48, 46, 1)$ lies on line ℓ_6
816 : $P_{195728} = (15, 49, 46, 1)$ lies on line ℓ_7
817 : $P_{195772} = (59, 49, 46, 1)$ lies on line ℓ_6
818 : $P_{195794} = (17, 50, 46, 1)$ lies on line ℓ_7
819 : $P_{195833} = (56, 50, 46, 1)$ lies on line ℓ_6

820 : $P_{195868} = (27, 51, 46, 1)$ lies on line ℓ_7
821 : $P_{195898} = (57, 51, 46, 1)$ lies on line ℓ_6
822 : $P_{195950} = (45, 52, 46, 1)$ lies on line ℓ_7
823 : $P_{195967} = (62, 52, 46, 1)$ lies on line ℓ_6
824 : $P_{196008} = (39, 53, 46, 1)$ lies on line ℓ_7
825 : $P_{196032} = (63, 53, 46, 1)$ lies on line ℓ_6
826 : $P_{196090} = (57, 54, 46, 1)$ lies on line ℓ_7
827 : $P_{196093} = (60, 54, 46, 1)$ lies on line ℓ_6
828 : $P_{196148} = (51, 55, 46, 1)$ lies on line ℓ_7
829 : $P_{196158} = (61, 55, 46, 1)$ lies on line ℓ_6
830 : $P_{196211} = (50, 56, 46, 1)$ lies on line ℓ_6
831 : $P_{196213} = (52, 56, 46, 1)$ lies on line ℓ_7
832 : $P_{196276} = (51, 57, 46, 1)$ lies on line ℓ_6
833 : $P_{196287} = (62, 57, 46, 1)$ lies on line ℓ_7
834 : $P_{196321} = (32, 58, 46, 1)$ lies on line ℓ_7
835 : $P_{196337} = (48, 58, 46, 1)$ lies on line ℓ_6
836 : $P_{196395} = (42, 59, 46, 1)$ lies on line ℓ_7
837 : $P_{196402} = (49, 59, 46, 1)$ lies on line ℓ_6
838 : $P_{196445} = (28, 60, 46, 1)$ lies on line ℓ_7
839 : $P_{196471} = (54, 60, 46, 1)$ lies on line ℓ_6
840 : $P_{196503} = (22, 61, 46, 1)$ lies on line ℓ_7
841 : $P_{196536} = (55, 61, 46, 1)$ lies on line ℓ_6
842 : $P_{196553} = (8, 62, 46, 1)$ lies on line ℓ_7
843 : $P_{196597} = (52, 62, 46, 1)$ lies on line ℓ_6
844 : $P_{196611} = (2, 63, 46, 1)$ lies on line ℓ_7
845 : $P_{196662} = (53, 63, 46, 1)$ lies on line ℓ_6
846 : $P_{196673} = (0, 0, 47, 1)$ lies on line ℓ_2
847 : $P_{197377} = (0, 11, 47, 1)$ lies on line ℓ_{15}
848 : $P_{197414} = (37, 11, 47, 1)$ lies on line ℓ_{14}
849 : $P_{199653} = (36, 46, 47, 1)$ lies on line ℓ_{12}
850 : $P_{199664} = (47, 46, 47, 1)$ lies on line ℓ_{13}
851 : $P_{200769} = (0, 0, 48, 1)$ lies on line ℓ_2
852 : $P_{201181} = (28, 6, 48, 1)$ lies on line ℓ_{13}
853 : $P_{201216} = (63, 6, 48, 1)$ lies on line ℓ_{12}
854 : $P_{201674} = (9, 14, 48, 1)$ lies on line ℓ_{11}
855 : $P_{201678} = (13, 14, 48, 1)$ lies on line ℓ_{10}
856 : $P_{204386} = (33, 56, 48, 1)$ lies on line ℓ_{14}
857 : $P_{204408} = (55, 56, 48, 1)$ lies on line ℓ_{15}
858 : $P_{204865} = (0, 0, 49, 1)$ lies on line ℓ_2
859 : $P_{205159} = (38, 4, 49, 1)$ lies on line ℓ_{11}
860 : $P_{205161} = (40, 4, 49, 1)$ lies on line ℓ_{10}
861 : $P_{206292} = (19, 22, 49, 1)$ lies on line ℓ_{15}
862 : $P_{206316} = (43, 22, 49, 1)$ lies on line ℓ_{14}
863 : $P_{207155} = (50, 35, 49, 1)$ lies on line ℓ_{13}
864 : $P_{207157} = (52, 35, 49, 1)$ lies on line ℓ_{12}
865 : $P_{208961} = (0, 0, 50, 1)$ lies on line ℓ_2
866 : $P_{209311} = (30, 5, 50, 1)$ lies on line ℓ_{15}
867 : $P_{209334} = (53, 5, 50, 1)$ lies on line ℓ_{14}
868 : $P_{210663} = (38, 26, 50, 1)$ lies on line ℓ_{10}
869 : $P_{210679} = (54, 26, 50, 1)$ lies on line ℓ_{11}
870 : $P_{211874} = (33, 45, 50, 1)$ lies on line ℓ_{13}
871 : $P_{211882} = (41, 45, 50, 1)$ lies on line ℓ_{12}
872 : $P_{213057} = (0, 0, 51, 1)$ lies on line ℓ_2
873 : $P_{213584} = (15, 8, 51, 1)$ lies on line ℓ_{13}
874 : $P_{213603} = (34, 8, 51, 1)$ lies on line ℓ_{12}
875 : $P_{214084} = (3, 16, 51, 1)$ lies on line ℓ_{10}
876 : $P_{214106} = (25, 16, 51, 1)$ lies on line ℓ_{11}
877 : $P_{215867} = (58, 43, 51, 1)$ lies on line ℓ_{15}
878 : $P_{215872} = (63, 43, 51, 1)$ lies on line ℓ_{14}
879 : $P_{217153} = (0, 0, 52, 1)$ lies on line ℓ_2
880 : $P_{219397} = (4, 35, 52, 1)$ lies on line ℓ_{15}
881 : $P_{219402} = (9, 35, 52, 1)$ lies on line ℓ_{14}
882 : $P_{219607} = (22, 38, 52, 1)$ lies on line ℓ_{11}
883 : $P_{219643} = (58, 38, 52, 1)$ lies on line ℓ_{10}
884 : $P_{220296} = (7, 49, 52, 1)$ lies on line ℓ_{13}
885 : $P_{220308} = (19, 49, 52, 1)$ lies on line ℓ_{12}
886 : $P_{221249} = (0, 0, 53, 1)$ lies on line ℓ_2
887 : $P_{222084} = (3, 13, 53, 1)$ lies on line ℓ_{14}
888 : $P_{222113} = (32, 13, 53, 1)$ lies on line ℓ_{15}
889 : $P_{222553} = (24, 20, 53, 1)$ lies on line ℓ_{12}
890 : $P_{222570} = (41, 20, 53, 1)$ lies on line ℓ_{13}
891 : $P_{224096} = (31, 44, 53, 1)$ lies on line ℓ_{10}
892 : $P_{224122} = (57, 44, 53, 1)$ lies on line ℓ_{11}
893 : $P_{225345} = (0, 0, 54, 1)$ lies on line ℓ_2
894 : $P_{227014} = (5, 26, 54, 1)$ lies on line ℓ_{12}
895 : $P_{227067} = (58, 26, 54, 1)$ lies on line ℓ_{13}
896 : $P_{227294} = (29, 30, 54, 1)$ lies on line ℓ_{14}
897 : $P_{227310} = (45, 30, 54, 1)$ lies on line ℓ_{15}
898 : $P_{228562} = (17, 50, 54, 1)$ lies on line ℓ_{10}
899 : $P_{228586} = (41, 50, 54, 1)$ lies on line ℓ_{11}
900 : $P_{229441} = (0, 0, 55, 1)$ lies on line ℓ_2
901 : $P_{232522} = (9, 48, 55, 1)$ lies on line ℓ_{15}
902 : $P_{232536} = (23, 48, 55, 1)$ lies on line ℓ_{14}
903 : $P_{233031} = (6, 56, 55, 1)$ lies on line ℓ_{11}
904 : $P_{233077} = (52, 56, 55, 1)$ lies on line ℓ_{10}
905 : $P_{233487} = (14, 63, 55, 1)$ lies on line ℓ_{12}
906 : $P_{233493} = (20, 63, 55, 1)$ lies on line ℓ_{13}
907 : $P_{233537} = (0, 0, 56, 1)$ lies on line ℓ_2
908 : $P_{234119} = (6, 9, 56, 1)$ lies on line ℓ_{12}
909 : $P_{234155} = (42, 9, 56, 1)$ lies on line ℓ_{13}
910 : $P_{234449} = (16, 14, 56, 1)$ lies on line ℓ_{14}
911 : $P_{234481} = (48, 14, 56, 1)$ lies on line ℓ_{15}
912 : $P_{237571} = (2, 63, 56, 1)$ lies on line ℓ_{10}
913 : $P_{237624} = (55, 63, 56, 1)$ lies on line ℓ_{11}
914 : $P_{237633} = (0, 0, 57, 1)$ lies on line ℓ_2
915 : $P_{239701} = (20, 32, 57, 1)$ lies on line ℓ_{15}
916 : $P_{239707} = (26, 32, 57, 1)$ lies on line ℓ_{14}
917 : $P_{240453} = (4, 44, 57, 1)$ lies on line ℓ_{13}
918 : $P_{240462} = (13, 44, 57, 1)$ lies on line ℓ_{12}
919 : $P_{241049} = (24, 53, 57, 1)$ lies on line ℓ_{11}
920 : $P_{241064} = (39, 53, 57, 1)$ lies on line ℓ_{10}
921 : $P_{241729} = (0, 0, 58, 1)$ lies on line ℓ_2
922 : $P_{243921} = (16, 34, 58, 1)$ lies on line ℓ_{12}
923 : $P_{243928} = (23, 34, 58, 1)$ lies on line ℓ_{13}
924 : $P_{244489} = (8, 43, 58, 1)$ lies on line ℓ_{11}
925 : $P_{244522} = (41, 43, 58, 1)$ lies on line ℓ_{10}
926 : $P_{244997} = (4, 51, 58, 1)$ lies on line ℓ_{14}
927 : $P_{245018} = (25, 51, 58, 1)$ lies on line ℓ_{15}

928 : $P_{245825} = (0, 0, 59, 1)$ lies on line ℓ_2
929 : $P_{246300} = (27, 7, 59, 1)$ lies on line ℓ_{12}
930 : $P_{246330} = (57, 7, 59, 1)$ lies on line ℓ_{13}
931 : $P_{247695} = (14, 29, 59, 1)$ lies on line ℓ_{14}
932 : $P_{247742} = (61, 29, 59, 1)$ lies on line ℓ_{15}
933 : $P_{247949} = (12, 33, 59, 1)$ lies on line ℓ_{10}
934 : $P_{247976} = (39, 33, 59, 1)$ lies on line ℓ_{11}
935 : $P_{249921} = (0, 0, 60, 1)$ lies on line ℓ_2
936 : $P_{251268} = (3, 21, 60, 1)$ lies on line ℓ_{15}
937 : $P_{251321} = (56, 21, 60, 1)$ lies on line ℓ_{14}
938 : $P_{251433} = (40, 23, 60, 1)$ lies on line ℓ_{11}
939 : $P_{251446} = (53, 23, 60, 1)$ lies on line ℓ_{10}
940 : $P_{253931} = (42, 62, 60, 1)$ lies on line ℓ_{12}
941 : $P_{253938} = (49, 62, 60, 1)$ lies on line ℓ_{13}
942 : $P_{254017} = (0, 0, 61, 1)$ lies on line ℓ_2
943 : $P_{255776} = (31, 27, 61, 1)$ lies on line ℓ_{13}
944 : $P_{255778} = (33, 27, 61, 1)$ lies on line ℓ_{12}
945 : $P_{255880} = (7, 29, 61, 1)$ lies on line ℓ_{11}
946 : $P_{255889} = (16, 29, 61, 1)$ lies on line ℓ_{10}
947 : $P_{257832} = (39, 59, 61, 1)$ lies on line ℓ_{15}
948 : $P_{257843} = (50, 59, 61, 1)$ lies on line ℓ_{14}
949 : $P_{258113} = (0, 0, 62, 1)$ lies on line ℓ_2
950 : $P_{258328} = (23, 3, 62, 1)$ lies on line ℓ_{11}
951 : $P_{258335} = (30, 3, 62, 1)$ lies on line ℓ_{10}
952 : $P_{259469} = (12, 21, 62, 1)$ lies on line ℓ_{13}
953 : $P_{259517} = (60, 21, 62, 1)$ lies on line ℓ_{12}
954 : $P_{260715} = (42, 40, 62, 1)$ lies on line ℓ_{15}
955 : $P_{260717} = (44, 40, 62, 1)$ lies on line ℓ_{14}
956 : $P_{262209} = (0, 0, 63, 1)$ lies on line ℓ_2
957 : $P_{262607} = (14, 6, 63, 1)$ lies on line ℓ_{15}
958 : $P_{262631} = (38, 6, 63, 1)$ lies on line ℓ_{14}
959 : $P_{262841} = (56, 9, 63, 1)$ lies on line ℓ_{11}
960 : $P_{262844} = (59, 9, 63, 1)$ lies on line ℓ_{10}
961 : $P_{265315} = (34, 48, 63, 1)$ lies on line ℓ_{13}
962 : $P_{265336} = (55, 48, 63, 1)$ lies on line ℓ_{12}

The single points on the surface are:

Points on surface but on no line

The surface has 3420 points not on any line:
Too many to print.

Line Intersection Graph

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0
1	1	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1
2	0	0	0	1	0	0	0	1	1	1	1	0	0	1	1	0
3	1	1	1	0	1	1	1	0	0	0	0	1	1	0	0	1
4	1	0	0	1	0	1	1	0	1	0	1	0	1	0	1	0
5	1	0	0	1	1	0	1	0	0	1	1	0	0	1	0	1
6	1	0	0	1	1	1	0	1	0	0	0	1	0	1	1	0
7	1	0	1	0	0	0	1	0	0	0	1	0	1	0	0	1
8	1	0	1	0	1	0	0	0	0	0	0	1	0	1	0	1
9	1	0	1	0	0	1	0	0	0	0	0	1	1	0	1	0
10	0	1	1	0	1	1	0	1	0	0	0	1	0	0	0	0
11	0	1	0	1	0	0	1	0	1	1	1	0	1	0	0	1
12	0	1	0	1	1	0	0	1	0	1	0	1	0	1	0	1
13	0	1	1	0	0	1	1	0	1	0	0	0	1	0	0	0
14	0	1	1	0	1	0	1	0	0	1	0	0	0	0	0	1
15	0	1	0	1	0	1	0	1	1	0	0	1	1	0	1	0

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9
in point	P_0	P_5	P_5	P_5	P_5	P_{14}	P_{41}	P_{50}

Line 1 intersects

Line	ℓ_0	ℓ_3	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}
in point	P_0	P_4	P_{8331}	P_4	P_4	P_{8358}	P_{8367}	P_4

Line 2 intersects

Line	ℓ_3	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{13}	ℓ_{14}
in point	P_{8258}	P_{192577}	P_{45121}	P_{155713}	P_{192577}	P_{45121}	P_{155713}

Line 3 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_6	ℓ_{11}	ℓ_{12}	ℓ_{15}
in point	P_5	P_4	P_{8258}	P_5	P_5	P_5	P_4	P_4	P_4

Line 4 intersects

Line	ℓ_0	ℓ_3	ℓ_5	ℓ_6	ℓ_8	ℓ_{10}	ℓ_{12}	ℓ_{14}
in point	P_5	P_5	P_5	P_5	P_{48139}	P_{48076}	P_{45158}	P_{47426}

Line 5 intersects

Line	ℓ_0	ℓ_3	ℓ_4	ℓ_6	ℓ_9	ℓ_{10}	ℓ_{13}	ℓ_{15}
in point	P_5	P_5	P_5	P_5	P_{156454}	P_{158722}	P_{156389}	P_{155759}

Line 6 intersects

Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_7	ℓ_{11}	ℓ_{13}	ℓ_{14}
in point	P_5	P_5	P_5	P_5	P_{194927}	P_{192587}	P_{193282}	P_{194992}

Line 7 intersects

Line	ℓ_0	ℓ_2	ℓ_6	ℓ_{10}	ℓ_{12}	ℓ_{15}
in point	P_{14}	P_{192577}	P_{194927}	P_{192577}	P_{193328}	P_{194981}

Line 8 intersects

Line	ℓ_0	ℓ_2	ℓ_4	ℓ_{11}	ℓ_{13}	ℓ_{15}
in point	P_{41}	P_{45121}	P_{48139}	P_{48112}	P_{45121}	P_{47436}

Line 9 intersects

Line	ℓ_0	ℓ_2	ℓ_5	ℓ_{11}	ℓ_{12}	ℓ_{14}
in point	P_{50}	P_{155713}	P_{156454}	P_{158757}	P_{156364}	P_{155713}

Line 10 intersects

Line	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_7	ℓ_{11}
in point	P_{8331}	P_{192577}	P_{48076}	P_{158722}	P_{192577}	P_{197350}

Line 11 intersects

Line	ℓ_1	ℓ_3	ℓ_6	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{12}	ℓ_{15}
in point	P_4	P_4	P_{192587}	P_{48112}	P_{158757}	P_{197350}	P_4	P_4

Line 12 intersects

Line	ℓ_1	ℓ_3	ℓ_4	ℓ_7	ℓ_9	ℓ_{11}	ℓ_{13}	ℓ_{15}
in point	P_4	P_4	P_{45158}	P_{193328}	P_{156364}	P_4	P_{51631}	P_4

Line 13 intersects

Line	ℓ_1	ℓ_2	ℓ_5	ℓ_6	ℓ_8	ℓ_{12}
in point	P_{8358}	P_{45121}	P_{156389}	P_{193282}	P_{45121}	P_{51631}

Line 14 intersects

Line	ℓ_1	ℓ_2	ℓ_4	ℓ_6	ℓ_9	ℓ_{15}
in point	P_{8367}	P_{155713}	P_{47426}	P_{194992}	P_{155713}	P_{154571}

Line 15 intersects

Line	ℓ_1	ℓ_3	ℓ_5	ℓ_7	ℓ_8	ℓ_{11}	ℓ_{12}	ℓ_{14}
in point	P_4	P_4	P_{155759}	P_{194981}	P_{47436}	P_4	P_4	P_{154571}

The surface has 4417 points:
Too many to print.