

Rank-65614 over GF(64)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(64) is 1091047558

General information

Number of lines	15
Number of points	4417
Number of singular points	1
Number of Eckardt points	0
Number of double points	36
Number of single points	897
Number of points off lines	3483
Number of Hesse planes	0
Number of axes	0
Type of points on lines	65^{15}
Type of lines on points	$6, 2^{36}, 1^{897}, 0^{3483}$

Singular Points

The surface has 1 singular points:

$$0 : P_2 = \mathbf{P}(0, 0, 1, 0) = \mathbf{P}(0, 0, 1, 0)$$

The 15 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & \epsilon^9 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12520384} = \begin{bmatrix} 1 & 0 & 0 & 47 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12520384} = \mathbf{Pl}(0, 47, 1, 0, 0, 0)_{112}$$

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^{18} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2933440} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2933440} = \mathbf{Pl}(0, 11, 1, 0, 0, 0)_{76} \\
\ell_2 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^{36} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9591040} = \begin{bmatrix} 1 & 0 & 0 & 36 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9591040} = \mathbf{Pl}(0, 36, 1, 0, 0, 0)_{101} \\
\ell_3 &= \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17043521} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17043521} = \mathbf{Pl}(0, 1, 0, 0, 0, 1)_{270465} \\
\ell_4 &= \begin{bmatrix} 0 & 1 & 0 & \epsilon^{21} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17047161} = \begin{bmatrix} 0 & 1 & 0 & 57 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17047161} = \mathbf{Pl}(0, 57, 0, 0, 0, 1)_{270521} \\
\ell_5 &= \begin{bmatrix} 0 & 1 & 0 & \epsilon^{42} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17047096} = \begin{bmatrix} 0 & 1 & 0 & 56 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17047096} = \mathbf{Pl}(0, 56, 0, 0, 0, 1)_{270520} \\
\ell_6 &= \begin{bmatrix} 1 & 0 & \epsilon^3 & \epsilon^{18} \\ 0 & 1 & \epsilon^{60} & \epsilon^{21} \end{bmatrix}_{2966292} = \begin{bmatrix} 1 & 0 & 8 & 11 \\ 0 & 1 & 12 & 57 \end{bmatrix}_{2966292} = \mathbf{Pl}(45, 7, 15, 21, 11, 1)_{3228611} \\
\ell_7 &= \begin{bmatrix} 1 & 0 & \epsilon^{45} & \epsilon^{18} \\ 0 & 1 & \epsilon^{18} & 1 \end{bmatrix}_{3083376} = \begin{bmatrix} 1 & 0 & 37 & 11 \\ 0 & 1 & 11 & 1 \end{bmatrix}_{3083376} = \mathbf{Pl}(37, 11, 46, 36, 11, 1)_{3349689} \\
\ell_8 &= \begin{bmatrix} 1 & 0 & \epsilon^{24} & \epsilon^{18} \\ 0 & 1 & \epsilon^{39} & \epsilon^{42} \end{bmatrix}_{3120180} = \begin{bmatrix} 1 & 0 & 45 & 11 \\ 0 & 1 & 7 & 56 \end{bmatrix}_{3120180} = \mathbf{Pl}(8, 12, 33, 49, 11, 1)_{3298882} \\
\ell_9 &= \begin{bmatrix} 1 & 0 & \epsilon^6 & \epsilon^{36} \\ 0 & 1 & \epsilon^{57} & \epsilon^{42} \end{bmatrix}_{9727890} = \begin{bmatrix} 1 & 0 & 33 & 36 \\ 0 & 1 & 49 & 56 \end{bmatrix}_{9727890} = \mathbf{Pl}(15, 21, 52, 54, 36, 1)_{9926804} \\
\ell_{10} &= \begin{bmatrix} 1 & 0 & \epsilon^{33} & \epsilon^9 \\ 0 & 1 & \epsilon^{30} & \epsilon^{42} \end{bmatrix}_{12736298} = \begin{bmatrix} 1 & 0 & 52 & 47 \\ 0 & 1 & 54 & 56 \end{bmatrix}_{12736298} = \mathbf{Pl}(62, 25, 45, 7, 47, 1)_{12782956} \\
\ell_{11} &= \begin{bmatrix} 1 & 0 & \epsilon^{27} & \epsilon^{36} \\ 0 & 1 & \epsilon^{36} & 1 \end{bmatrix}_{9778450} = \begin{bmatrix} 1 & 0 & 46 & 36 \\ 0 & 1 & 36 & 1 \end{bmatrix}_{9778450} = \mathbf{Pl}(46, 36, 10, 47, 36, 1)_{9762783} \\
\ell_{12} &= \begin{bmatrix} 1 & 0 & \epsilon^{54} & \epsilon^9 \\ 0 & 1 & \epsilon^9 & 1 \end{bmatrix}_{12558009} = \begin{bmatrix} 1 & 0 & 10 & 47 \\ 0 & 1 & 47 & 1 \end{bmatrix}_{12558009} = \mathbf{Pl}(10, 47, 37, 11, 47, 1)_{12751656} \\
\ell_{13} &= \begin{bmatrix} 1 & 0 & \epsilon^{48} & \epsilon^{36} \\ 0 & 1 & \epsilon^{15} & \epsilon^{21} \end{bmatrix}_{9653028} = \begin{bmatrix} 1 & 0 & 15 & 36 \\ 0 & 1 & 21 & 57 \end{bmatrix}_{9653028} = \mathbf{Pl}(33, 49, 62, 25, 36, 1)_{9965882} \\
\ell_{14} &= \begin{bmatrix} 1 & 0 & \epsilon^{12} & \epsilon^9 \\ 0 & 1 & \epsilon^{51} & \epsilon^{21} \end{bmatrix}_{12777943} = \begin{bmatrix} 1 & 0 & 62 & 47 \\ 0 & 1 & 25 & 57 \end{bmatrix}_{12777943} = \mathbf{Pl}(52, 54, 8, 12, 47, 1)_{12638424}
\end{aligned}$$

Rank of lines: (12520384, 2933440, 9591040, 17043521, 17047161, 17047096, 2966292, 3083376, 3120180, 9727890, 12736298, 9778450, 12558009, 9653028, 12777943)

Rank of points on Klein quadric: (112, 76, 101, 270465, 270521, 270520, 3228611, 3349689, 3298882, 9926804, 12782956, 9762783, 12751656, 9965882, 12638424)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 36 Double points:

The double points on the surface are:

$$\begin{aligned}
P_{188491} &= (10, 0, 45, 1) = \ell_0 \cap \ell_{10} \\
P_{155723} &= (10, 0, 37, 1) = \ell_0 \cap \ell_{12} \\
P_{36939} &= (10, 0, 8, 1) = \ell_0 \cap \ell_{14} \\
P_{65638} &= (37, 0, 15, 1) = \ell_1 \cap \ell_6 \\
P_{192614} &= (37, 0, 46, 1) = \ell_1 \cap \ell_7 \\
P_{139366} &= (37, 0, 33, 1) = \ell_1 \cap \ell_8 \\
P_{217199} &= (46, 0, 52, 1) = \ell_2 \cap \ell_9 \\
P_{45167} &= (46, 0, 10, 1) = \ell_2 \cap \ell_{11} \\
P_{258159} &= (46, 0, 62, 1) = \ell_2 \cap \ell_{13} \\
P_{49281} &= (0, 1, 11, 1) = \ell_3 \cap \ell_7 \\
P_{151681} &= (0, 1, 36, 1) = \ell_3 \cap \ell_{11} \\
P_{196737} &= (0, 1, 47, 1) = \ell_3 \cap \ell_{12} \\
P_{36417} &= (0, 56, 7, 1) = \ell_4 \cap \ell_6 \\
P_{208449} &= (0, 56, 49, 1) = \ell_4 \cap \ell_{13} \\
P_{228929} &= (0, 56, 54, 1) = \ell_4 \cap \ell_{14} \\
P_{56961} &= (0, 57, 12, 1) = \ell_5 \cap \ell_8 \\
P_{93825} &= (0, 57, 21, 1) = \ell_5 \cap \ell_9 \\
P_{110209} &= (0, 57, 25, 1) = \ell_5 \cap \ell_{10} \\
P_{198867} &= (18, 34, 47, 1) = \ell_6 \cap \ell_9
\end{aligned}$$

$$\begin{aligned}
P_{152863} &= (30, 19, 36, 1) = \ell_6 \cap \ell_{10} \\
P_{106814} &= (61, 3, 25, 1) = \ell_6 \cap \ell_{11} \\
P_{92731} &= (58, 39, 21, 1) = \ell_6 \cap \ell_{12} \\
P_{228094} &= (61, 42, 54, 1) = \ell_7 \cap \ell_9 \\
P_{206651} &= (58, 27, 49, 1) = \ell_7 \cap \ell_{10} \\
P_{106835} &= (18, 4, 25, 1) = \ell_7 \cap \ell_{13} \\
P_{91295} &= (30, 17, 21, 1) = \ell_7 \cap \ell_{14} \\
P_{227795} &= (18, 38, 54, 1) = \ell_8 \cap \ell_{11} \\
P_{205023} &= (30, 2, 49, 1) = \ell_8 \cap \ell_{12} \\
P_{199358} &= (61, 41, 47, 1) = \ell_8 \cap \ell_{13} \\
P_{155515} &= (58, 60, 36, 1) = \ell_8 \cap \ell_{14} \\
P_{33193} &= (40, 5, 7, 1) = \ell_9 \cap \ell_{12} \\
P_{53028} &= (35, 59, 11, 1) = \ell_9 \cap \ell_{14} \\
P_{33892} &= (35, 16, 7, 1) = \ell_{10} \cap \ell_{11} \\
P_{51241} &= (40, 31, 11, 1) = \ell_{10} \cap \ell_{13} \\
P_{55017} &= (40, 26, 12, 1) = \ell_{11} \cap \ell_{14} \\
P_{56100} &= (35, 43, 12, 1) = \ell_{12} \cap \ell_{13}
\end{aligned}$$

Single Points

The surface has 897 single points:
The single points on the surface are:

$$\begin{aligned}
0 : P_{571} &= (56, 7, 1, 0) \text{ lies on line } \ell_6 \\
1 : P_{772} &= (1, 11, 1, 0) \text{ lies on line } \ell_7 \\
2 : P_{892} &= (57, 12, 1, 0) \text{ lies on line } \ell_8 \\
3 : P_{1468} &= (57, 21, 1, 0) \text{ lies on line } \ell_9 \\
4 : P_{1724} &= (57, 25, 1, 0) \text{ lies on line } \ell_{10} \\
5 : P_{2372} &= (1, 36, 1, 0) \text{ lies on line } \ell_{11} \\
6 : P_{3076} &= (1, 47, 1, 0) \text{ lies on line } \ell_{12} \\
7 : P_{3259} &= (56, 49, 1, 0) \text{ lies on line } \ell_{13} \\
8 : P_{3579} &= (56, 54, 1, 0) \text{ lies on line } \ell_{14} \\
9 : P_{4172} &= (10, 0, 0, 1) \text{ lies on line } \ell_0 \\
10 : P_{4199} &= (37, 0, 0, 1) \text{ lies on line } \ell_1 \\
11 : P_{4208} &= (46, 0, 0, 1) \text{ lies on line } \ell_2 \\
12 : P_{4226} &= (0, 1, 0, 1) \text{ lies on line } \ell_3 \\
13 : P_{4685} &= (11, 8, 0, 1) \text{ lies on line } \ell_8 \\
14 : P_{4849} &= (47, 10, 0, 1) \text{ lies on line } \ell_{12} \\
15 : P_{5158} &= (36, 15, 0, 1) \text{ lies on line } \ell_9 \\
16 : P_{6310} &= (36, 33, 0, 1) \text{ lies on line } \ell_{13} \\
17 : P_{6541} &= (11, 37, 0, 1) \text{ lies on line } \ell_7 \\
18 : P_{7053} &= (11, 45, 0, 1) \text{ lies on line } \ell_6 \\
19 : P_{7142} &= (36, 46, 0, 1) \text{ lies on line } \ell_{11} \\
20 : P_{7537} &= (47, 52, 0, 1) \text{ lies on line } \ell_{14} \\
21 : P_{7746} &= (0, 56, 0, 1) \text{ lies on line } \ell_4 \\
22 : P_{7810} &= (0, 57, 0, 1) \text{ lies on line } \ell_5 \\
23 : P_{8177} &= (47, 62, 0, 1) \text{ lies on line } \ell_{10} \\
24 : P_{8268} &= (10, 0, 1, 1) \text{ lies on line } \ell_0 \\
25 : P_{8295} &= (37, 0, 1, 1) \text{ lies on line } \ell_1 \\
26 : P_{8304} &= (46, 0, 1, 1) \text{ lies on line } \ell_2 \\
27 : P_{8322} &= (0, 1, 1, 1) \text{ lies on line } \ell_3
\end{aligned}$$

$$\begin{aligned}
28 : P_{8408} &= (23, 2, 1, 1) \text{ lies on line } \ell_{14} \\
29 : P_{8563} &= (50, 4, 1, 1) \text{ lies on line } \ell_8 \\
30 : P_{8934} &= (37, 10, 1, 1) \text{ lies on line } \ell_{11} \\
31 : P_{9309} &= (28, 16, 1, 1) \text{ lies on line } \ell_{13} \\
32 : P_{9950} &= (29, 26, 1, 1) \text{ lies on line } \ell_9 \\
33 : P_{10671} &= (46, 37, 1, 1) \text{ lies on line } \ell_{12} \\
34 : P_{10775} &= (22, 39, 1, 1) \text{ lies on line } \ell_{10} \\
35 : P_{10996} &= (51, 42, 1, 1) \text{ lies on line } \ell_6 \\
36 : P_{11211} &= (10, 46, 1, 1) \text{ lies on line } \ell_7 \\
37 : P_{11841} &= (0, 56, 1, 1) \text{ lies on line } \ell_4 \\
38 : P_{11905} &= (0, 57, 1, 1) \text{ lies on line } \ell_5 \\
39 : P_{12363} &= (10, 0, 2, 1) \text{ lies on line } \ell_0 \\
40 : P_{12390} &= (37, 0, 2, 1) \text{ lies on line } \ell_1 \\
41 : P_{12399} &= (46, 0, 2, 1) \text{ lies on line } \ell_2 \\
42 : P_{12417} &= (0, 1, 2, 1) \text{ lies on line } \ell_3 \\
43 : P_{12839} &= (38, 7, 2, 1) \text{ lies on line } \ell_{11} \\
44 : P_{13181} &= (60, 12, 2, 1) \text{ lies on line } \ell_{10} \\
45 : P_{13401} &= (24, 16, 2, 1) \text{ lies on line } \ell_8 \\
46 : P_{14582} &= (53, 34, 2, 1) \text{ lies on line } \ell_{13} \\
47 : P_{14619} &= (26, 35, 2, 1) \text{ lies on line } \ell_6 \\
48 : P_{14776} &= (55, 37, 2, 1) \text{ lies on line } \ell_9 \\
49 : P_{15626} &= (9, 51, 2, 1) \text{ lies on line } \ell_7 \\
50 : P_{15790} &= (45, 53, 2, 1) \text{ lies on line } \ell_{12} \\
51 : P_{15937} &= (0, 56, 2, 1) \text{ lies on line } \ell_4 \\
52 : P_{16001} &= (0, 57, 2, 1) \text{ lies on line } \ell_5 \\
53 : P_{16063} &= (62, 57, 2, 1) \text{ lies on line } \ell_{14} \\
54 : P_{16459} &= (10, 0, 3, 1) \text{ lies on line } \ell_0 \\
55 : P_{16486} &= (37, 0, 3, 1) \text{ lies on line } \ell_1
\end{aligned}$$

- 56 : $P_{16495} = (46, 0, 3, 1)$ lies on line ℓ_2
 57 : $P_{16513} = (0, 1, 3, 1)$ lies on line ℓ_3
 58 : $P_{17415} = (6, 15, 3, 1)$ lies on line ℓ_{14}
 59 : $P_{17678} = (13, 19, 3, 1)$ lies on line ℓ_{13}
 60 : $P_{17798} = (5, 21, 3, 1)$ lies on line ℓ_{10}
 61 : $P_{18157} = (44, 26, 3, 1)$ lies on line ℓ_{12}
 62 : $P_{18274} = (33, 28, 3, 1)$ lies on line ℓ_8
 63 : $P_{18728} = (39, 35, 3, 1)$ lies on line ℓ_{11}
 64 : $P_{18787} = (34, 36, 3, 1)$ lies on line ℓ_6
 65 : $P_{19535} = (14, 48, 3, 1)$ lies on line ℓ_9
 66 : $P_{20033} = (0, 56, 3, 1)$ lies on line ℓ_4
 67 : $P_{20041} = (8, 56, 3, 1)$ lies on line ℓ_7
 68 : $P_{20097} = (0, 57, 3, 1)$ lies on line ℓ_5
 69 : $P_{20555} = (10, 0, 4, 1)$ lies on line ℓ_0
 70 : $P_{20582} = (37, 0, 4, 1)$ lies on line ℓ_1
 71 : $P_{20591} = (46, 0, 4, 1)$ lies on line ℓ_2
 72 : $P_{20609} = (0, 1, 4, 1)$ lies on line ℓ_3
 73 : $P_{21136} = (15, 9, 4, 1)$ lies on line ℓ_7
 74 : $P_{21932} = (43, 21, 4, 1)$ lies on line ℓ_{12}
 75 : $P_{22433} = (32, 29, 4, 1)$ lies on line ℓ_{11}
 76 : $P_{23047} = (6, 39, 4, 1)$ lies on line ℓ_{13}
 77 : $P_{23502} = (13, 46, 4, 1)$ lies on line ℓ_{14}
 78 : $P_{23722} = (41, 49, 4, 1)$ lies on line ℓ_6
 79 : $P_{24129} = (0, 56, 4, 1)$ lies on line ℓ_4
 80 : $P_{24174} = (45, 56, 4, 1)$ lies on line ℓ_8
 81 : $P_{24193} = (0, 57, 4, 1)$ lies on line ℓ_5
 82 : $P_{24259} = (2, 58, 4, 1)$ lies on line ℓ_9
 83 : $P_{24330} = (9, 59, 4, 1)$ lies on line ℓ_{10}
 84 : $P_{24651} = (10, 0, 5, 1)$ lies on line ℓ_0
 85 : $P_{24678} = (37, 0, 5, 1)$ lies on line ℓ_1
 86 : $P_{24687} = (46, 0, 5, 1)$ lies on line ℓ_2
 87 : $P_{24705} = (0, 1, 5, 1)$ lies on line ℓ_3
 88 : $P_{24783} = (14, 2, 5, 1)$ lies on line ℓ_7
 89 : $P_{26111} = (62, 22, 5, 1)$ lies on line ℓ_{13}
 90 : $P_{26230} = (53, 24, 5, 1)$ lies on line ℓ_{14}
 91 : $P_{26865} = (48, 34, 5, 1)$ lies on line ℓ_{10}
 92 : $P_{27708} = (59, 47, 5, 1)$ lies on line ℓ_9
 93 : $P_{27989} = (20, 52, 5, 1)$ lies on line ℓ_8
 94 : $P_{28114} = (17, 54, 5, 1)$ lies on line ℓ_6
 95 : $P_{28225} = (0, 56, 5, 1)$ lies on line ℓ_4
 96 : $P_{28289} = (0, 57, 5, 1)$ lies on line ℓ_5
 97 : $P_{28322} = (33, 57, 5, 1)$ lies on line ℓ_{11}
 98 : $P_{28395} = (42, 58, 5, 1)$ lies on line ℓ_{12}
 99 : $P_{28747} = (10, 0, 6, 1)$ lies on line ℓ_0
 100 : $P_{28774} = (37, 0, 6, 1)$ lies on line ℓ_1
 101 : $P_{28783} = (46, 0, 6, 1)$ lies on line ℓ_2
 102 : $P_{28801} = (0, 1, 6, 1)$ lies on line ℓ_3
 103 : $P_{29339} = (26, 9, 6, 1)$ lies on line ℓ_{10}
 104 : $P_{29778} = (17, 16, 6, 1)$ lies on line ℓ_9
 105 : $P_{30734} = (13, 31, 6, 1)$ lies on line ℓ_7
 106 : $P_{30847} = (62, 32, 6, 1)$ lies on line ℓ_8
 107 : $P_{31005} = (28, 35, 6, 1)$ lies on line ℓ_{14}
 108 : $P_{31064} = (23, 36, 6, 1)$ lies on line ℓ_{13}
 109 : $P_{31466} = (41, 42, 6, 1)$ lies on line ℓ_{12}
 110 : $P_{32099} = (34, 52, 6, 1)$ lies on line ℓ_{11}
 111 : $P_{32321} = (0, 56, 6, 1)$ lies on line ℓ_4
 112 : $P_{32385} = (0, 57, 6, 1)$ lies on line ℓ_5
 113 : $P_{32825} = (56, 63, 6, 1)$ lies on line ℓ_6
 114 : $P_{32843} = (10, 0, 7, 1)$ lies on line ℓ_0
 115 : $P_{32870} = (37, 0, 7, 1)$ lies on line ℓ_1
 116 : $P_{32879} = (46, 0, 7, 1)$ lies on line ℓ_2
 117 : $P_{32897} = (0, 1, 7, 1)$ lies on line ℓ_3
 118 : $P_{34125} = (12, 20, 7, 1)$ lies on line ℓ_7
 119 : $P_{34213} = (36, 21, 7, 1)$ lies on line ℓ_{14}
 120 : $P_{34224} = (47, 21, 7, 1)$ lies on line ℓ_{13}
 121 : $P_{35656} = (7, 44, 7, 1)$ lies on line ℓ_8
 122 : $P_{36481} = (0, 57, 7, 1)$ lies on line ℓ_5
 123 : $P_{36966} = (37, 0, 8, 1)$ lies on line ℓ_1
 124 : $P_{36975} = (46, 0, 8, 1)$ lies on line ℓ_2
 125 : $P_{36993} = (0, 1, 8, 1)$ lies on line ℓ_3
 126 : $P_{37194} = (9, 4, 8, 1)$ lies on line ℓ_9
 127 : $P_{37543} = (38, 9, 8, 1)$ lies on line ℓ_8
 128 : $P_{38319} = (46, 21, 8, 1)$ lies on line ℓ_6
 129 : $P_{38724} = (3, 28, 8, 1)$ lies on line ℓ_7
 130 : $P_{39597} = (44, 41, 8, 1)$ lies on line ℓ_{11}
 131 : $P_{39810} = (1, 45, 8, 1)$ lies on line ℓ_{13}
 132 : $P_{40259} = (2, 52, 8, 1)$ lies on line ℓ_{10}
 133 : $P_{40296} = (39, 52, 8, 1)$ lies on line ℓ_{12}
 134 : $P_{40513} = (0, 56, 8, 1)$ lies on line ℓ_4
 135 : $P_{40577} = (0, 57, 8, 1)$ lies on line ℓ_5
 136 : $P_{41035} = (10, 0, 9, 1)$ lies on line ℓ_0
 137 : $P_{41062} = (37, 0, 9, 1)$ lies on line ℓ_1
 138 : $P_{41071} = (46, 0, 9, 1)$ lies on line ℓ_2
 139 : $P_{41089} = (0, 1, 9, 1)$ lies on line ℓ_3
 140 : $P_{41376} = (31, 5, 9, 1)$ lies on line ℓ_8
 141 : $P_{41902} = (45, 13, 9, 1)$ lies on line ℓ_{11}
 142 : $P_{42161} = (48, 17, 9, 1)$ lies on line ℓ_9
 143 : $P_{42199} = (22, 18, 9, 1)$ lies on line ℓ_6
 144 : $P_{42499} = (2, 23, 9, 1)$ lies on line ℓ_7
 145 : $P_{42791} = (38, 27, 9, 1)$ lies on line ℓ_{12}
 146 : $P_{42874} = (57, 28, 9, 1)$ lies on line ℓ_{13}
 147 : $P_{43964} = (59, 45, 9, 1)$ lies on line ℓ_{10}
 148 : $P_{44531} = (50, 54, 9, 1)$ lies on line ℓ_{14}
 149 : $P_{44609} = (0, 56, 9, 1)$ lies on line ℓ_4
 150 : $P_{44673} = (0, 57, 9, 1)$ lies on line ℓ_5
 151 : $P_{45131} = (10, 0, 10, 1)$ lies on line ℓ_0
 152 : $P_{45158} = (37, 0, 10, 1)$ lies on line ℓ_1
 153 : $P_{45185} = (0, 1, 10, 1)$ lies on line ℓ_3
 154 : $P_{45522} = (17, 6, 10, 1)$ lies on line ℓ_{10}
 155 : $P_{45762} = (1, 10, 10, 1)$ lies on line ℓ_7
 156 : $P_{45862} = (37, 11, 10, 1)$ lies on line ℓ_{12}
 157 : $P_{45980} = (27, 13, 10, 1)$ lies on line ℓ_{14}
 158 : $P_{46262} = (53, 17, 10, 1)$ lies on line ℓ_8
 159 : $P_{46912} = (63, 27, 10, 1)$ lies on line ℓ_6
 160 : $P_{48081} = (16, 46, 10, 1)$ lies on line ℓ_{13}
 161 : $P_{48091} = (26, 46, 10, 1)$ lies on line ℓ_9
 162 : $P_{48705} = (0, 56, 10, 1)$ lies on line ℓ_4
 163 : $P_{48769} = (0, 57, 10, 1)$ lies on line ℓ_5

164 : $P_{49227} = (10, 0, 11, 1)$ lies on line ℓ_0
 165 : $P_{49254} = (37, 0, 11, 1)$ lies on line ℓ_1
 166 : $P_{49263} = (46, 0, 11, 1)$ lies on line ℓ_2
 167 : $P_{51016} = (7, 28, 11, 1)$ lies on line ℓ_6
 168 : $P_{51085} = (12, 29, 11, 1)$ lies on line ℓ_8
 169 : $P_{51557} = (36, 36, 11, 1)$ lies on line ℓ_{12}
 170 : $P_{51568} = (47, 36, 11, 1)$ lies on line ℓ_{11}
 171 : $P_{52801} = (0, 56, 11, 1)$ lies on line ℓ_4
 172 : $P_{52865} = (0, 57, 11, 1)$ lies on line ℓ_5
 173 : $P_{53323} = (10, 0, 12, 1)$ lies on line ℓ_0
 174 : $P_{53350} = (37, 0, 12, 1)$ lies on line ℓ_1
 175 : $P_{53359} = (46, 0, 12, 1)$ lies on line ℓ_2
 176 : $P_{53377} = (0, 1, 12, 1)$ lies on line ℓ_3
 177 : $P_{53901} = (12, 9, 12, 1)$ lies on line ℓ_6
 178 : $P_{56392} = (7, 48, 12, 1)$ lies on line ℓ_7
 179 : $P_{56485} = (36, 49, 12, 1)$ lies on line ℓ_{10}
 180 : $P_{56496} = (47, 49, 12, 1)$ lies on line ℓ_9
 181 : $P_{56897} = (0, 56, 12, 1)$ lies on line ℓ_4
 182 : $P_{57419} = (10, 0, 13, 1)$ lies on line ℓ_0
 183 : $P_{57446} = (37, 0, 13, 1)$ lies on line ℓ_1
 184 : $P_{57455} = (46, 0, 13, 1)$ lies on line ℓ_2
 185 : $P_{57473} = (0, 1, 13, 1)$ lies on line ℓ_3
 186 : $P_{57699} = (34, 4, 13, 1)$ lies on line ℓ_{12}
 187 : $P_{58357} = (52, 14, 13, 1)$ lies on line ℓ_6
 188 : $P_{59100} = (27, 26, 13, 1)$ lies on line ℓ_{13}
 189 : $P_{59735} = (22, 36, 13, 1)$ lies on line ℓ_9
 190 : $P_{59998} = (29, 40, 13, 1)$ lies on line ℓ_{10}
 191 : $P_{60241} = (16, 44, 13, 1)$ lies on line ℓ_{14}
 192 : $P_{60858} = (57, 53, 13, 1)$ lies on line ℓ_8
 193 : $P_{60993} = (0, 56, 13, 1)$ lies on line ℓ_4
 194 : $P_{61057} = (0, 57, 13, 1)$ lies on line ℓ_5
 195 : $P_{61191} = (6, 59, 13, 1)$ lies on line ℓ_7
 196 : $P_{61418} = (41, 62, 13, 1)$ lies on line ℓ_{11}
 197 : $P_{61515} = (10, 0, 14, 1)$ lies on line ℓ_0
 198 : $P_{61542} = (37, 0, 14, 1)$ lies on line ℓ_1
 199 : $P_{61551} = (46, 0, 14, 1)$ lies on line ℓ_2
 200 : $P_{61569} = (0, 1, 14, 1)$ lies on line ℓ_3
 201 : $P_{61752} = (55, 3, 14, 1)$ lies on line ℓ_{10}
 202 : $P_{61982} = (29, 7, 14, 1)$ lies on line ℓ_6
 203 : $P_{62818} = (33, 20, 14, 1)$ lies on line ℓ_{12}
 204 : $P_{63034} = (57, 23, 14, 1)$ lies on line ℓ_{14}
 205 : $P_{63293} = (60, 27, 14, 1)$ lies on line ℓ_9
 206 : $P_{63636} = (19, 33, 14, 1)$ lies on line ℓ_8
 207 : $P_{63942} = (5, 38, 14, 1)$ lies on line ℓ_7
 208 : $P_{64115} = (50, 40, 14, 1)$ lies on line ℓ_{13}
 209 : $P_{64811} = (42, 51, 14, 1)$ lies on line ℓ_{11}
 210 : $P_{65089} = (0, 56, 14, 1)$ lies on line ℓ_4
 211 : $P_{65153} = (0, 57, 14, 1)$ lies on line ℓ_5
 212 : $P_{65611} = (10, 0, 15, 1)$ lies on line ℓ_0
 213 : $P_{65647} = (46, 0, 15, 1)$ lies on line ℓ_2
 214 : $P_{65665} = (0, 1, 15, 1)$ lies on line ℓ_3
 215 : $P_{66502} = (5, 14, 15, 1)$ lies on line ℓ_9
 216 : $P_{67116} = (43, 23, 15, 1)$ lies on line ℓ_{11}
 217 : $P_{67211} = (10, 25, 15, 1)$ lies on line ℓ_{13}
 218 : $P_{67279} = (14, 26, 15, 1)$ lies on line ℓ_{10}
 219 : $P_{67714} = (1, 33, 15, 1)$ lies on line ℓ_{14}
 220 : $P_{68485} = (4, 45, 15, 1)$ lies on line ℓ_7
 221 : $P_{68523} = (42, 45, 15, 1)$ lies on line ℓ_8
 222 : $P_{69185} = (0, 56, 15, 1)$ lies on line ℓ_4
 223 : $P_{69249} = (0, 57, 15, 1)$ lies on line ℓ_5
 224 : $P_{69409} = (32, 59, 15, 1)$ lies on line ℓ_{12}
 225 : $P_{69707} = (10, 0, 16, 1)$ lies on line ℓ_0
 226 : $P_{69734} = (37, 0, 16, 1)$ lies on line ℓ_1
 227 : $P_{69743} = (46, 0, 16, 1)$ lies on line ℓ_2
 228 : $P_{69761} = (0, 1, 16, 1)$ lies on line ℓ_3
 229 : $P_{70385} = (48, 10, 16, 1)$ lies on line ℓ_8
 230 : $P_{71232} = (63, 23, 16, 1)$ lies on line ℓ_{12}
 231 : $P_{71328} = (31, 25, 16, 1)$ lies on line ℓ_9
 232 : $P_{71797} = (52, 32, 16, 1)$ lies on line ℓ_{11}
 233 : $P_{72405} = (20, 42, 16, 1)$ lies on line ℓ_{10}
 234 : $P_{73180} = (27, 54, 16, 1)$ lies on line ℓ_7
 235 : $P_{73281} = (0, 56, 16, 1)$ lies on line ℓ_4
 236 : $P_{73345} = (0, 57, 16, 1)$ lies on line ℓ_5
 237 : $P_{73360} = (15, 57, 16, 1)$ lies on line ℓ_{13}
 238 : $P_{73569} = (32, 60, 16, 1)$ lies on line ℓ_6
 239 : $P_{73605} = (4, 61, 16, 1)$ lies on line ℓ_{14}
 240 : $P_{73803} = (10, 0, 17, 1)$ lies on line ℓ_0
 241 : $P_{73830} = (37, 0, 17, 1)$ lies on line ℓ_1
 242 : $P_{73839} = (46, 0, 17, 1)$ lies on line ℓ_2
 243 : $P_{73857} = (0, 1, 17, 1)$ lies on line ℓ_3
 244 : $P_{74102} = (53, 4, 17, 1)$ lies on line ℓ_{11}
 245 : $P_{74186} = (9, 6, 17, 1)$ lies on line ℓ_8
 246 : $P_{74360} = (55, 8, 17, 1)$ lies on line ℓ_{13}
 247 : $P_{74557} = (60, 11, 17, 1)$ lies on line ℓ_{14}
 248 : $P_{74599} = (38, 12, 17, 1)$ lies on line ℓ_9
 249 : $P_{77102} = (45, 51, 17, 1)$ lies on line ℓ_{10}
 250 : $P_{77377} = (0, 56, 17, 1)$ lies on line ℓ_4
 251 : $P_{77439} = (62, 56, 17, 1)$ lies on line ℓ_{12}
 252 : $P_{77441} = (0, 57, 17, 1)$ lies on line ℓ_5
 253 : $P_{77593} = (24, 59, 17, 1)$ lies on line ℓ_6
 254 : $P_{77723} = (26, 61, 17, 1)$ lies on line ℓ_7
 255 : $P_{77899} = (10, 0, 18, 1)$ lies on line ℓ_0
 256 : $P_{77926} = (37, 0, 18, 1)$ lies on line ℓ_1
 257 : $P_{77935} = (46, 0, 18, 1)$ lies on line ℓ_2
 258 : $P_{77953} = (0, 1, 18, 1)$ lies on line ℓ_3
 259 : $P_{78519} = (54, 9, 18, 1)$ lies on line ℓ_{11}
 260 : $P_{79076} = (35, 18, 18, 1)$ lies on line ℓ_8
 261 : $P_{79432} = (7, 24, 18, 1)$ lies on line ℓ_{10}
 262 : $P_{79962} = (25, 32, 18, 1)$ lies on line ℓ_7
 263 : $P_{80510} = (61, 40, 18, 1)$ lies on line ℓ_{12}
 264 : $P_{80982} = (21, 48, 18, 1)$ lies on line ℓ_{14}
 265 : $P_{81138} = (49, 50, 18, 1)$ lies on line ℓ_6
 266 : $P_{81165} = (12, 51, 18, 1)$ lies on line ℓ_9
 267 : $P_{81473} = (0, 56, 18, 1)$ lies on line ℓ_4
 268 : $P_{81537} = (0, 57, 18, 1)$ lies on line ℓ_5
 269 : $P_{81631} = (30, 58, 18, 1)$ lies on line ℓ_{13}
 270 : $P_{81995} = (10, 0, 19, 1)$ lies on line ℓ_0
 271 : $P_{82022} = (37, 0, 19, 1)$ lies on line ℓ_1

272 : $P_{82031} = (46, 0, 19, 1)$ lies on line ℓ_2
 273 : $P_{82049} = (0, 1, 19, 1)$ lies on line ℓ_3
 274 : $P_{82111} = (62, 1, 19, 1)$ lies on line ℓ_{10}
 275 : $P_{82414} = (45, 6, 19, 1)$ lies on line ℓ_{14}
 276 : $P_{82493} = (60, 7, 19, 1)$ lies on line ℓ_{12}
 277 : $P_{82727} = (38, 11, 19, 1)$ lies on line ℓ_{13}
 278 : $P_{83931} = (26, 30, 19, 1)$ lies on line ℓ_8
 279 : $P_{84470} = (53, 38, 19, 1)$ lies on line ℓ_9
 280 : $P_{84761} = (24, 43, 19, 1)$ lies on line ℓ_7
 281 : $P_{84920} = (55, 45, 19, 1)$ lies on line ℓ_{11}
 282 : $P_{85386} = (9, 53, 19, 1)$ lies on line ℓ_6
 283 : $P_{85569} = (0, 56, 19, 1)$ lies on line ℓ_4
 284 : $P_{85633} = (0, 57, 19, 1)$ lies on line ℓ_5
 285 : $P_{86091} = (10, 0, 20, 1)$ lies on line ℓ_0
 286 : $P_{86118} = (37, 0, 20, 1)$ lies on line ℓ_1
 287 : $P_{86127} = (46, 0, 20, 1)$ lies on line ℓ_2
 288 : $P_{86145} = (0, 1, 20, 1)$ lies on line ℓ_3
 289 : $P_{86652} = (59, 8, 20, 1)$ lies on line ℓ_{12}
 290 : $P_{87345} = (48, 19, 20, 1)$ lies on line ℓ_{11}
 291 : $P_{87776} = (31, 26, 20, 1)$ lies on line ℓ_7
 292 : $P_{88131} = (2, 32, 20, 1)$ lies on line ℓ_6
 293 : $P_{88615} = (38, 39, 20, 1)$ lies on line ℓ_{14}
 294 : $P_{88954} = (57, 44, 20, 1)$ lies on line ℓ_9
 295 : $P_{89139} = (50, 47, 20, 1)$ lies on line ℓ_{10}
 296 : $P_{89665} = (0, 56, 20, 1)$ lies on line ℓ_4
 297 : $P_{89729} = (0, 57, 20, 1)$ lies on line ℓ_5
 298 : $P_{89815} = (22, 58, 20, 1)$ lies on line ℓ_8
 299 : $P_{90158} = (45, 63, 20, 1)$ lies on line ℓ_{13}
 300 : $P_{90187} = (10, 0, 21, 1)$ lies on line ℓ_0
 301 : $P_{90214} = (37, 0, 21, 1)$ lies on line ℓ_1
 302 : $P_{90223} = (46, 0, 21, 1)$ lies on line ℓ_2
 303 : $P_{90241} = (0, 1, 21, 1)$ lies on line ℓ_3
 304 : $P_{91094} = (21, 14, 21, 1)$ lies on line ℓ_{13}
 305 : $P_{93644} = (11, 54, 21, 1)$ lies on line ℓ_{10}
 306 : $P_{93680} = (47, 54, 21, 1)$ lies on line ℓ_8
 307 : $P_{93746} = (49, 55, 21, 1)$ lies on line ℓ_{11}
 308 : $P_{93761} = (0, 56, 21, 1)$ lies on line ℓ_4
 309 : $P_{94283} = (10, 0, 22, 1)$ lies on line ℓ_0
 310 : $P_{94310} = (37, 0, 22, 1)$ lies on line ℓ_1
 311 : $P_{94319} = (46, 0, 22, 1)$ lies on line ℓ_2
 312 : $P_{94337} = (0, 1, 22, 1)$ lies on line ℓ_3
 313 : $P_{94699} = (42, 6, 22, 1)$ lies on line ℓ_9
 314 : $P_{95070} = (29, 12, 22, 1)$ lies on line ℓ_7
 315 : $P_{96162} = (33, 29, 22, 1)$ lies on line ℓ_{10}
 316 : $P_{96454} = (5, 34, 22, 1)$ lies on line ℓ_8
 317 : $P_{97016} = (55, 42, 22, 1)$ lies on line ℓ_{14}
 318 : $P_{97236} = (19, 46, 22, 1)$ lies on line ℓ_6
 319 : $P_{97850} = (57, 55, 22, 1)$ lies on line ℓ_{12}
 320 : $P_{97857} = (0, 56, 22, 1)$ lies on line ℓ_4
 321 : $P_{97921} = (0, 57, 22, 1)$ lies on line ℓ_5
 322 : $P_{98035} = (50, 58, 22, 1)$ lies on line ℓ_{11}
 323 : $P_{98173} = (60, 60, 22, 1)$ lies on line ℓ_{13}
 324 : $P_{98379} = (10, 0, 23, 1)$ lies on line ℓ_0
 325 : $P_{98406} = (37, 0, 23, 1)$ lies on line ℓ_1

326 : $P_{98415} = (46, 0, 23, 1)$ lies on line ℓ_2
 327 : $P_{98433} = (0, 1, 23, 1)$ lies on line ℓ_3
 328 : $P_{98649} = (24, 4, 23, 1)$ lies on line ℓ_{10}
 329 : $P_{98845} = (28, 7, 23, 1)$ lies on line ℓ_7
 330 : $P_{99205} = (4, 13, 23, 1)$ lies on line ℓ_{13}
 331 : $P_{99604} = (19, 19, 23, 1)$ lies on line ℓ_9
 332 : $P_{99961} = (56, 24, 23, 1)$ lies on line ℓ_{12}
 333 : $P_{100176} = (15, 28, 23, 1)$ lies on line ℓ_{14}
 334 : $P_{100340} = (51, 30, 23, 1)$ lies on line ℓ_{11}
 335 : $P_{101036} = (43, 41, 23, 1)$ lies on line ℓ_6
 336 : $P_{101373} = (60, 46, 23, 1)$ lies on line ℓ_8
 337 : $P_{101953} = (0, 56, 23, 1)$ lies on line ℓ_4
 338 : $P_{102017} = (0, 57, 23, 1)$ lies on line ℓ_5
 339 : $P_{102475} = (10, 0, 24, 1)$ lies on line ℓ_0
 340 : $P_{102502} = (37, 0, 24, 1)$ lies on line ℓ_1
 341 : $P_{102511} = (46, 0, 24, 1)$ lies on line ℓ_2
 342 : $P_{102529} = (0, 1, 24, 1)$ lies on line ℓ_3
 343 : $P_{102726} = (5, 4, 24, 1)$ lies on line ℓ_6
 344 : $P_{103074} = (33, 9, 24, 1)$ lies on line ℓ_{14}
 345 : $P_{103198} = (29, 11, 24, 1)$ lies on line ℓ_8
 346 : $P_{103444} = (19, 15, 24, 1)$ lies on line ℓ_7
 347 : $P_{103667} = (50, 18, 24, 1)$ lies on line ℓ_9
 348 : $P_{104570} = (57, 32, 24, 1)$ lies on line ℓ_{10}
 349 : $P_{105021} = (60, 39, 24, 1)$ lies on line ℓ_{11}
 350 : $P_{105144} = (55, 41, 24, 1)$ lies on line ℓ_{12}
 351 : $P_{105899} = (42, 53, 24, 1)$ lies on line ℓ_{13}
 352 : $P_{106049} = (0, 56, 24, 1)$ lies on line ℓ_4
 353 : $P_{106113} = (0, 57, 24, 1)$ lies on line ℓ_5
 354 : $P_{106571} = (10, 0, 25, 1)$ lies on line ℓ_0
 355 : $P_{106598} = (37, 0, 25, 1)$ lies on line ℓ_1
 356 : $P_{106607} = (46, 0, 25, 1)$ lies on line ℓ_2
 357 : $P_{106625} = (0, 1, 25, 1)$ lies on line ℓ_3
 358 : $P_{106999} = (54, 6, 25, 1)$ lies on line ℓ_{12}
 359 : $P_{107020} = (11, 7, 25, 1)$ lies on line ℓ_9
 360 : $P_{107045} = (36, 7, 25, 1)$ lies on line ℓ_8
 361 : $P_{110145} = (0, 56, 25, 1)$ lies on line ℓ_4
 362 : $P_{110618} = (25, 63, 25, 1)$ lies on line ℓ_{14}
 363 : $P_{110667} = (10, 0, 26, 1)$ lies on line ℓ_0
 364 : $P_{110694} = (37, 0, 26, 1)$ lies on line ℓ_1
 365 : $P_{110703} = (46, 0, 26, 1)$ lies on line ℓ_2
 366 : $P_{110721} = (0, 1, 26, 1)$ lies on line ℓ_3
 367 : $P_{110961} = (48, 4, 26, 1)$ lies on line ℓ_{14}
 368 : $P_{111317} = (20, 10, 26, 1)$ lies on line ℓ_6
 369 : $P_{111615} = (62, 14, 26, 1)$ lies on line ℓ_{11}
 370 : $P_{111851} = (42, 18, 26, 1)$ lies on line ℓ_{10}
 371 : $P_{111887} = (14, 19, 26, 1)$ lies on line ℓ_8
 372 : $P_{112118} = (53, 22, 26, 1)$ lies on line ℓ_{12}
 373 : $P_{112274} = (17, 25, 26, 1)$ lies on line ℓ_7
 374 : $P_{114172} = (59, 54, 26, 1)$ lies on line ℓ_{13}
 375 : $P_{114241} = (0, 56, 26, 1)$ lies on line ℓ_4
 376 : $P_{114274} = (33, 56, 26, 1)$ lies on line ℓ_9
 377 : $P_{114305} = (0, 57, 26, 1)$ lies on line ℓ_5
 378 : $P_{114763} = (10, 0, 27, 1)$ lies on line ℓ_0
 379 : $P_{114790} = (37, 0, 27, 1)$ lies on line ℓ_1

380 : $P_{114799} = (46, 0, 27, 1)$ lies on line ℓ_2
 381 : $P_{114817} = (0, 1, 27, 1)$ lies on line ℓ_3
 382 : $P_{115204} = (3, 7, 27, 1)$ lies on line ℓ_{13}
 383 : $P_{115476} = (19, 11, 27, 1)$ lies on line ℓ_{10}
 384 : $P_{115629} = (44, 13, 27, 1)$ lies on line ℓ_6
 385 : $P_{115921} = (16, 18, 27, 1)$ lies on line ℓ_7
 386 : $P_{116792} = (55, 31, 27, 1)$ lies on line ℓ_8
 387 : $P_{117504} = (63, 42, 27, 1)$ lies on line ℓ_{11}
 388 : $P_{117657} = (24, 45, 27, 1)$ lies on line ℓ_9
 389 : $P_{117961} = (8, 50, 27, 1)$ lies on line ℓ_{14}
 390 : $P_{118337} = (0, 56, 27, 1)$ lies on line ℓ_4
 391 : $P_{118401} = (0, 57, 27, 1)$ lies on line ℓ_5
 392 : $P_{118453} = (52, 57, 27, 1)$ lies on line ℓ_{12}
 393 : $P_{118859} = (10, 0, 28, 1)$ lies on line ℓ_0
 394 : $P_{118886} = (37, 0, 28, 1)$ lies on line ℓ_1
 395 : $P_{118895} = (46, 0, 28, 1)$ lies on line ℓ_2
 396 : $P_{118913} = (0, 1, 28, 1)$ lies on line ℓ_3
 397 : $P_{120068} = (3, 19, 28, 1)$ lies on line ℓ_{14}
 398 : $P_{120185} = (56, 20, 28, 1)$ lies on line ℓ_{11}
 399 : $P_{120424} = (39, 24, 28, 1)$ lies on line ℓ_6
 400 : $P_{121112} = (23, 35, 28, 1)$ lies on line ℓ_7
 401 : $P_{121248} = (31, 37, 28, 1)$ lies on line ℓ_{10}
 402 : $P_{121365} = (20, 39, 28, 1)$ lies on line ℓ_9
 403 : $P_{122121} = (8, 51, 28, 1)$ lies on line ℓ_{13}
 404 : $P_{122356} = (51, 54, 28, 1)$ lies on line ℓ_{12}
 405 : $P_{122433} = (0, 56, 28, 1)$ lies on line ℓ_4
 406 : $P_{122497} = (0, 57, 28, 1)$ lies on line ℓ_5
 407 : $P_{122684} = (59, 59, 28, 1)$ lies on line ℓ_8
 408 : $P_{122955} = (10, 0, 29, 1)$ lies on line ℓ_0
 409 : $P_{122982} = (37, 0, 29, 1)$ lies on line ℓ_1
 410 : $P_{122991} = (46, 0, 29, 1)$ lies on line ℓ_2
 411 : $P_{123009} = (0, 1, 29, 1)$ lies on line ℓ_3
 412 : $P_{123121} = (48, 2, 29, 1)$ lies on line ℓ_{13}
 413 : $P_{124595} = (50, 25, 29, 1)$ lies on line ℓ_{12}
 414 : $P_{124960} = (31, 31, 29, 1)$ lies on line ℓ_6
 415 : $P_{125372} = (59, 37, 29, 1)$ lies on line ℓ_{14}
 416 : $P_{125527} = (22, 40, 29, 1)$ lies on line ℓ_7
 417 : $P_{126074} = (57, 48, 29, 1)$ lies on line ℓ_{11}
 418 : $P_{126190} = (45, 50, 29, 1)$ lies on line ℓ_9
 419 : $P_{126467} = (2, 55, 29, 1)$ lies on line ℓ_8
 420 : $P_{126529} = (0, 56, 29, 1)$ lies on line ℓ_4
 421 : $P_{126593} = (0, 57, 29, 1)$ lies on line ℓ_5
 422 : $P_{126823} = (38, 60, 29, 1)$ lies on line ℓ_{10}
 423 : $P_{127051} = (10, 0, 30, 1)$ lies on line ℓ_0
 424 : $P_{127078} = (37, 0, 30, 1)$ lies on line ℓ_1
 425 : $P_{127087} = (46, 0, 30, 1)$ lies on line ℓ_2
 426 : $P_{127105} = (0, 1, 30, 1)$ lies on line ℓ_3
 427 : $P_{127666} = (49, 9, 30, 1)$ lies on line ℓ_{12}
 428 : $P_{127880} = (7, 13, 30, 1)$ lies on line ℓ_9
 429 : $P_{128503} = (54, 22, 30, 1)$ lies on line ℓ_6
 430 : $P_{128525} = (12, 23, 30, 1)$ lies on line ℓ_{10}
 431 : $P_{128979} = (18, 30, 30, 1)$ lies on line ℓ_{14}
 432 : $P_{129321} = (40, 35, 30, 1)$ lies on line ℓ_8
 433 : $P_{130138} = (25, 48, 30, 1)$ lies on line ℓ_{13}

434 : $P_{130454} = (21, 53, 30, 1)$ lies on line ℓ_7
 435 : $P_{130625} = (0, 56, 30, 1)$ lies on line ℓ_4
 436 : $P_{130689} = (0, 57, 30, 1)$ lies on line ℓ_5
 437 : $P_{131003} = (58, 61, 30, 1)$ lies on line ℓ_{11}
 438 : $P_{131147} = (10, 0, 31, 1)$ lies on line ℓ_0
 439 : $P_{131174} = (37, 0, 31, 1)$ lies on line ℓ_1
 440 : $P_{131183} = (46, 0, 31, 1)$ lies on line ℓ_2
 441 : $P_{131201} = (0, 1, 31, 1)$ lies on line ℓ_3
 442 : $P_{131234} = (33, 1, 31, 1)$ lies on line ℓ_{13}
 443 : $P_{132086} = (53, 14, 31, 1)$ lies on line ℓ_{10}
 444 : $P_{132239} = (14, 17, 31, 1)$ lies on line ℓ_6
 445 : $P_{132735} = (62, 24, 31, 1)$ lies on line ℓ_9
 446 : $P_{132796} = (59, 25, 31, 1)$ lies on line ℓ_{11}
 447 : $P_{133617} = (48, 38, 31, 1)$ lies on line ℓ_{12}
 448 : $P_{133739} = (42, 40, 31, 1)$ lies on line ℓ_{14}
 449 : $P_{134162} = (17, 47, 31, 1)$ lies on line ℓ_8
 450 : $P_{134721} = (0, 56, 31, 1)$ lies on line ℓ_4
 451 : $P_{134785} = (0, 57, 31, 1)$ lies on line ℓ_5
 452 : $P_{135125} = (20, 62, 31, 1)$ lies on line ℓ_7
 453 : $P_{135243} = (10, 0, 32, 1)$ lies on line ℓ_0
 454 : $P_{135270} = (37, 0, 32, 1)$ lies on line ℓ_1
 455 : $P_{135279} = (46, 0, 32, 1)$ lies on line ℓ_2
 456 : $P_{135297} = (0, 1, 32, 1)$ lies on line ℓ_3
 457 : $P_{135468} = (43, 3, 32, 1)$ lies on line ℓ_7
 458 : $P_{136029} = (28, 12, 32, 1)$ lies on line ℓ_8
 459 : $P_{136253} = (60, 15, 32, 1)$ lies on line ℓ_6
 460 : $P_{136340} = (19, 17, 32, 1)$ lies on line ℓ_{13}
 461 : $P_{136697} = (56, 22, 32, 1)$ lies on line ℓ_{10}
 462 : $P_{137524} = (51, 35, 32, 1)$ lies on line ℓ_9
 463 : $P_{137689} = (24, 38, 32, 1)$ lies on line ℓ_{14}
 464 : $P_{138320} = (15, 48, 32, 1)$ lies on line ℓ_{12}
 465 : $P_{138437} = (4, 50, 32, 1)$ lies on line ℓ_{11}
 466 : $P_{138817} = (0, 56, 32, 1)$ lies on line ℓ_4
 467 : $P_{138881} = (0, 57, 32, 1)$ lies on line ℓ_5
 468 : $P_{139339} = (10, 0, 33, 1)$ lies on line ℓ_0
 469 : $P_{139375} = (46, 0, 33, 1)$ lies on line ℓ_2
 470 : $P_{139393} = (0, 1, 33, 1)$ lies on line ℓ_3
 471 : $P_{139845} = (4, 8, 33, 1)$ lies on line ℓ_6
 472 : $P_{139883} = (42, 8, 33, 1)$ lies on line ℓ_7
 473 : $P_{140290} = (1, 15, 33, 1)$ lies on line ℓ_{10}
 474 : $P_{140385} = (32, 16, 33, 1)$ lies on line ℓ_{14}
 475 : $P_{140742} = (5, 22, 33, 1)$ lies on line ℓ_{11}
 476 : $P_{141327} = (14, 31, 33, 1)$ lies on line ℓ_{12}
 477 : $P_{141420} = (43, 32, 33, 1)$ lies on line ℓ_{13}
 478 : $P_{142795} = (10, 54, 33, 1)$ lies on line ℓ_9
 479 : $P_{142913} = (0, 56, 33, 1)$ lies on line ℓ_4
 480 : $P_{142977} = (0, 57, 33, 1)$ lies on line ℓ_5
 481 : $P_{143435} = (10, 0, 34, 1)$ lies on line ℓ_0
 482 : $P_{143462} = (37, 0, 34, 1)$ lies on line ℓ_1
 483 : $P_{143471} = (46, 0, 34, 1)$ lies on line ℓ_2
 484 : $P_{143489} = (0, 1, 34, 1)$ lies on line ℓ_3
 485 : $P_{143534} = (45, 1, 34, 1)$ lies on line ℓ_6
 486 : $P_{144033} = (32, 9, 34, 1)$ lies on line ℓ_9
 487 : $P_{144398} = (13, 15, 34, 1)$ lies on line ℓ_{12}

488 : $P_{144579} = (2, 18, 34, 1)$ lies on line ℓ_{13}
 489 : $P_{144720} = (15, 20, 34, 1)$ lies on line ℓ_8
 490 : $P_{144810} = (41, 21, 34, 1)$ lies on line ℓ_7
 491 : $P_{145159} = (6, 27, 34, 1)$ lies on line ℓ_{11}
 492 : $P_{145772} = (43, 36, 34, 1)$ lies on line ℓ_{10}
 493 : $P_{146186} = (9, 43, 34, 1)$ lies on line ℓ_{14}
 494 : $P_{147009} = (0, 56, 34, 1)$ lies on line ℓ_4
 495 : $P_{147073} = (0, 57, 34, 1)$ lies on line ℓ_5
 496 : $P_{147531} = (10, 0, 35, 1)$ lies on line ℓ_0
 497 : $P_{147558} = (37, 0, 35, 1)$ lies on line ℓ_1
 498 : $P_{147567} = (46, 0, 35, 1)$ lies on line ℓ_2
 499 : $P_{147585} = (0, 1, 35, 1)$ lies on line ℓ_3
 500 : $P_{147926} = (21, 6, 35, 1)$ lies on line ℓ_6
 501 : $P_{149111} = (54, 24, 35, 1)$ lies on line ℓ_8
 502 : $P_{149338} = (25, 28, 35, 1)$ lies on line ℓ_9
 503 : $P_{149426} = (49, 29, 35, 1)$ lies on line ℓ_{14}
 504 : $P_{149481} = (40, 30, 35, 1)$ lies on line ℓ_7
 505 : $P_{149581} = (12, 32, 35, 1)$ lies on line ℓ_{12}
 506 : $P_{149819} = (58, 35, 35, 1)$ lies on line ℓ_{13}
 507 : $P_{151105} = (0, 56, 35, 1)$ lies on line ℓ_4
 508 : $P_{151169} = (0, 57, 35, 1)$ lies on line ℓ_5
 509 : $P_{151443} = (18, 61, 35, 1)$ lies on line ℓ_{10}
 510 : $P_{151560} = (7, 63, 35, 1)$ lies on line ℓ_{11}
 511 : $P_{151627} = (10, 0, 36, 1)$ lies on line ℓ_0
 512 : $P_{151654} = (37, 0, 36, 1)$ lies on line ℓ_1
 513 : $P_{151663} = (46, 0, 36, 1)$ lies on line ℓ_2
 514 : $P_{153046} = (21, 22, 36, 1)$ lies on line ℓ_9
 515 : $P_{153138} = (49, 23, 36, 1)$ lies on line ℓ_{13}
 516 : $P_{154636} = (11, 47, 36, 1)$ lies on line ℓ_{12}
 517 : $P_{154672} = (47, 47, 36, 1)$ lies on line ℓ_7
 518 : $P_{155201} = (0, 56, 36, 1)$ lies on line ℓ_4
 519 : $P_{155265} = (0, 57, 36, 1)$ lies on line ℓ_5
 520 : $P_{155750} = (37, 0, 37, 1)$ lies on line ℓ_1
 521 : $P_{155759} = (46, 0, 37, 1)$ lies on line ℓ_2
 522 : $P_{155777} = (0, 1, 37, 1)$ lies on line ℓ_3
 523 : $P_{155949} = (44, 3, 37, 1)$ lies on line ℓ_9
 524 : $P_{156355} = (2, 10, 37, 1)$ lies on line ℓ_{14}
 525 : $P_{156392} = (39, 10, 37, 1)$ lies on line ℓ_{10}
 526 : $P_{157031} = (38, 20, 37, 1)$ lies on line ℓ_6
 527 : $P_{158063} = (46, 36, 37, 1)$ lies on line ℓ_7
 528 : $P_{158082} = (1, 37, 37, 1)$ lies on line ℓ_{11}
 529 : $P_{158154} = (9, 38, 37, 1)$ lies on line ℓ_{13}
 530 : $P_{158788} = (3, 48, 37, 1)$ lies on line ℓ_8
 531 : $P_{159297} = (0, 56, 37, 1)$ lies on line ℓ_4
 532 : $P_{159361} = (0, 57, 37, 1)$ lies on line ℓ_5
 533 : $P_{159819} = (10, 0, 38, 1)$ lies on line ℓ_0
 534 : $P_{159846} = (37, 0, 38, 1)$ lies on line ℓ_1
 535 : $P_{159855} = (46, 0, 38, 1)$ lies on line ℓ_2
 536 : $P_{159873} = (0, 1, 38, 1)$ lies on line ℓ_3
 537 : $P_{160842} = (9, 16, 38, 1)$ lies on line ℓ_{12}
 538 : $P_{161121} = (32, 20, 38, 1)$ lies on line ℓ_{13}
 539 : $P_{161680} = (15, 29, 38, 1)$ lies on line ℓ_6
 540 : $P_{161934} = (13, 33, 38, 1)$ lies on line ℓ_{10}
 541 : $P_{162154} = (41, 36, 38, 1)$ lies on line ℓ_8

542 : $P_{162371} = (2, 40, 38, 1)$ lies on line ℓ_{11}
 543 : $P_{162988} = (43, 49, 38, 1)$ lies on line ℓ_{14}
 544 : $P_{163393} = (0, 56, 38, 1)$ lies on line ℓ_4
 545 : $P_{163457} = (0, 57, 38, 1)$ lies on line ℓ_5
 546 : $P_{163502} = (45, 57, 38, 1)$ lies on line ℓ_7
 547 : $P_{163655} = (6, 60, 38, 1)$ lies on line ℓ_9
 548 : $P_{163915} = (10, 0, 39, 1)$ lies on line ℓ_0
 549 : $P_{163942} = (37, 0, 39, 1)$ lies on line ℓ_1
 550 : $P_{163951} = (46, 0, 39, 1)$ lies on line ℓ_2
 551 : $P_{163969} = (0, 1, 39, 1)$ lies on line ℓ_3
 552 : $P_{164372} = (19, 7, 39, 1)$ lies on line ℓ_{14}
 553 : $P_{164676} = (3, 12, 39, 1)$ lies on line ℓ_{11}
 554 : $P_{165624} = (55, 26, 39, 1)$ lies on line ℓ_6
 555 : $P_{166297} = (24, 37, 39, 1)$ lies on line ℓ_{13}
 556 : $P_{166481} = (16, 40, 39, 1)$ lies on line ℓ_8
 557 : $P_{166592} = (63, 41, 39, 1)$ lies on line ℓ_9
 558 : $P_{167149} = (44, 50, 39, 1)$ lies on line ℓ_7
 559 : $P_{167489} = (0, 56, 39, 1)$ lies on line ℓ_4
 560 : $P_{167541} = (52, 56, 39, 1)$ lies on line ℓ_{10}
 561 : $P_{167553} = (0, 57, 39, 1)$ lies on line ℓ_5
 562 : $P_{167945} = (8, 63, 39, 1)$ lies on line ℓ_{12}
 563 : $P_{168011} = (10, 0, 40, 1)$ lies on line ℓ_0
 564 : $P_{168038} = (37, 0, 40, 1)$ lies on line ℓ_1
 565 : $P_{168047} = (46, 0, 40, 1)$ lies on line ℓ_2
 566 : $P_{168065} = (0, 1, 40, 1)$ lies on line ℓ_3
 567 : $P_{168882} = (49, 13, 40, 1)$ lies on line ℓ_8
 568 : $P_{168904} = (7, 14, 40, 1)$ lies on line ℓ_{12}
 569 : $P_{169214} = (61, 18, 40, 1)$ lies on line ℓ_{14}
 570 : $P_{169814} = (21, 28, 40, 1)$ lies on line ℓ_{10}
 571 : $P_{169911} = (54, 29, 40, 1)$ lies on line ℓ_{13}
 572 : $P_{170591} = (30, 40, 40, 1)$ lies on line ℓ_9
 573 : $P_{171405} = (12, 53, 40, 1)$ lies on line ℓ_{11}
 574 : $P_{171546} = (25, 55, 40, 1)$ lies on line ℓ_6
 575 : $P_{171585} = (0, 56, 40, 1)$ lies on line ℓ_4
 576 : $P_{171649} = (0, 57, 40, 1)$ lies on line ℓ_5
 577 : $P_{171748} = (35, 58, 40, 1)$ lies on line ℓ_7
 578 : $P_{172107} = (10, 0, 41, 1)$ lies on line ℓ_0
 579 : $P_{172134} = (37, 0, 41, 1)$ lies on line ℓ_1
 580 : $P_{172143} = (46, 0, 41, 1)$ lies on line ℓ_2
 581 : $P_{172161} = (0, 1, 41, 1)$ lies on line ℓ_3
 582 : $P_{172169} = (8, 1, 41, 1)$ lies on line ℓ_8
 583 : $P_{172461} = (44, 5, 41, 1)$ lies on line ℓ_{10}
 584 : $P_{173198} = (13, 17, 41, 1)$ lies on line ℓ_{11}
 585 : $P_{174215} = (6, 33, 41, 1)$ lies on line ℓ_{12}
 586 : $P_{174406} = (5, 36, 41, 1)$ lies on line ℓ_{14}
 587 : $P_{174927} = (14, 44, 41, 1)$ lies on line ℓ_{13}
 588 : $P_{175202} = (33, 48, 41, 1)$ lies on line ℓ_6
 589 : $P_{175267} = (34, 49, 41, 1)$ lies on line ℓ_7
 590 : $P_{175681} = (0, 56, 41, 1)$ lies on line ℓ_4
 591 : $P_{175745} = (0, 57, 41, 1)$ lies on line ℓ_5
 592 : $P_{176040} = (39, 61, 41, 1)$ lies on line ℓ_9
 593 : $P_{176203} = (10, 0, 42, 1)$ lies on line ℓ_0
 594 : $P_{176230} = (37, 0, 42, 1)$ lies on line ℓ_1
 595 : $P_{176239} = (46, 0, 42, 1)$ lies on line ℓ_2

596 : $P_{176257} = (0, 1, 42, 1)$ lies on line ℓ_3
 597 : $P_{176334} = (13, 2, 42, 1)$ lies on line ℓ_9
 598 : $P_{177571} = (34, 21, 42, 1)$ lies on line ℓ_8
 599 : $P_{177999} = (14, 28, 42, 1)$ lies on line ℓ_{11}
 600 : $P_{178152} = (39, 30, 42, 1)$ lies on line ℓ_{13}
 601 : $P_{178221} = (44, 31, 42, 1)$ lies on line ℓ_{14}
 602 : $P_{179042} = (33, 44, 42, 1)$ lies on line ℓ_7
 603 : $P_{179143} = (6, 46, 42, 1)$ lies on line ℓ_{10}
 604 : $P_{179334} = (5, 49, 42, 1)$ lies on line ℓ_{12}
 605 : $P_{179777} = (0, 56, 42, 1)$ lies on line ℓ_4
 606 : $P_{179841} = (0, 57, 42, 1)$ lies on line ℓ_5
 607 : $P_{179849} = (8, 57, 42, 1)$ lies on line ℓ_6
 608 : $P_{180299} = (10, 0, 43, 1)$ lies on line ℓ_0
 609 : $P_{180326} = (37, 0, 43, 1)$ lies on line ℓ_1
 610 : $P_{180335} = (46, 0, 43, 1)$ lies on line ℓ_2
 611 : $P_{180353} = (0, 1, 43, 1)$ lies on line ℓ_3
 612 : $P_{181813} = (52, 23, 43, 1)$ lies on line ℓ_9
 613 : $P_{181916} = (27, 25, 43, 1)$ lies on line ℓ_8
 614 : $P_{182213} = (4, 30, 43, 1)$ lies on line ℓ_{12}
 615 : $P_{182817} = (32, 39, 43, 1)$ lies on line ℓ_7
 616 : $P_{182933} = (20, 41, 43, 1)$ lies on line ℓ_{14}
 617 : $P_{183328} = (31, 47, 43, 1)$ lies on line ℓ_{13}
 618 : $P_{183872} = (63, 55, 43, 1)$ lies on line ℓ_{10}
 619 : $P_{183873} = (0, 56, 43, 1)$ lies on line ℓ_4
 620 : $P_{183888} = (15, 56, 43, 1)$ lies on line ℓ_{11}
 621 : $P_{183937} = (0, 57, 43, 1)$ lies on line ℓ_5
 622 : $P_{184305} = (48, 62, 43, 1)$ lies on line ℓ_6
 623 : $P_{184395} = (10, 0, 44, 1)$ lies on line ℓ_0
 624 : $P_{184422} = (37, 0, 44, 1)$ lies on line ℓ_1
 625 : $P_{184431} = (46, 0, 44, 1)$ lies on line ℓ_2
 626 : $P_{184449} = (0, 1, 44, 1)$ lies on line ℓ_3
 627 : $P_{184777} = (8, 6, 44, 1)$ lies on line ℓ_{11}
 628 : $P_{184928} = (31, 8, 44, 1)$ lies on line ℓ_{14}
 629 : $P_{185476} = (3, 17, 44, 1)$ lies on line ℓ_{12}
 630 : $P_{185832} = (39, 22, 44, 1)$ lies on line ℓ_7
 631 : $P_{186036} = (51, 25, 44, 1)$ lies on line ℓ_{10}
 632 : $P_{186133} = (20, 27, 44, 1)$ lies on line ℓ_{13}
 633 : $P_{186297} = (56, 29, 44, 1)$ lies on line ℓ_9
 634 : $P_{187196} = (59, 43, 44, 1)$ lies on line ℓ_6
 635 : $P_{187969} = (0, 56, 44, 1)$ lies on line ℓ_4
 636 : $P_{188033} = (0, 57, 44, 1)$ lies on line ℓ_5
 637 : $P_{188312} = (23, 61, 44, 1)$ lies on line ℓ_8
 638 : $P_{188518} = (37, 0, 45, 1)$ lies on line ℓ_1
 639 : $P_{188527} = (46, 0, 45, 1)$ lies on line ℓ_2
 640 : $P_{188545} = (0, 1, 45, 1)$ lies on line ℓ_3
 641 : $P_{188994} = (1, 8, 45, 1)$ lies on line ℓ_9
 642 : $P_{190375} = (38, 29, 45, 1)$ lies on line ℓ_7
 643 : $P_{190666} = (9, 34, 45, 1)$ lies on line ℓ_{11}
 644 : $P_{191213} = (44, 42, 45, 1)$ lies on line ℓ_{13}
 645 : $P_{191300} = (3, 44, 45, 1)$ lies on line ℓ_6
 646 : $P_{191663} = (46, 49, 45, 1)$ lies on line ℓ_8
 647 : $P_{192065} = (0, 56, 45, 1)$ lies on line ℓ_4
 648 : $P_{192129} = (0, 57, 45, 1)$ lies on line ℓ_5
 649 : $P_{192451} = (2, 62, 45, 1)$ lies on line ℓ_{12}

650 : $P_{192488} = (39, 62, 45, 1)$ lies on line ℓ_{14}
 651 : $P_{192587} = (10, 0, 46, 1)$ lies on line ℓ_0
 652 : $P_{192623} = (46, 0, 46, 1)$ lies on line ℓ_2
 653 : $P_{192641} = (0, 1, 46, 1)$ lies on line ℓ_3
 654 : $P_{192911} = (14, 5, 46, 1)$ lies on line ℓ_{14}
 655 : $P_{194118} = (5, 24, 46, 1)$ lies on line ℓ_{13}
 656 : $P_{194949} = (4, 37, 46, 1)$ lies on line ℓ_8
 657 : $P_{194987} = (42, 37, 46, 1)$ lies on line ℓ_6
 658 : $P_{195361} = (32, 43, 46, 1)$ lies on line ℓ_{10}
 659 : $P_{195522} = (1, 46, 46, 1)$ lies on line ℓ_{12}
 660 : $P_{195595} = (10, 47, 46, 1)$ lies on line ℓ_{11}
 661 : $P_{196140} = (43, 55, 46, 1)$ lies on line ℓ_9
 662 : $P_{196161} = (0, 56, 46, 1)$ lies on line ℓ_4
 663 : $P_{196225} = (0, 57, 46, 1)$ lies on line ℓ_5
 664 : $P_{196683} = (10, 0, 47, 1)$ lies on line ℓ_0
 665 : $P_{196710} = (37, 0, 47, 1)$ lies on line ℓ_1
 666 : $P_{196719} = (46, 0, 47, 1)$ lies on line ℓ_2
 667 : $P_{197388} = (11, 11, 47, 1)$ lies on line ℓ_{11}
 668 : $P_{197413} = (36, 11, 47, 1)$ lies on line ℓ_7
 669 : $P_{199898} = (25, 50, 47, 1)$ lies on line ℓ_{10}
 670 : $P_{199991} = (54, 51, 47, 1)$ lies on line ℓ_{14}
 671 : $P_{200257} = (0, 56, 47, 1)$ lies on line ℓ_4
 672 : $P_{200321} = (0, 57, 47, 1)$ lies on line ℓ_5
 673 : $P_{200779} = (10, 0, 48, 1)$ lies on line ℓ_0
 674 : $P_{200806} = (37, 0, 48, 1)$ lies on line ℓ_1
 675 : $P_{200815} = (46, 0, 48, 1)$ lies on line ℓ_2
 676 : $P_{200833} = (0, 1, 48, 1)$ lies on line ℓ_3
 677 : $P_{200900} = (3, 2, 48, 1)$ lies on line ℓ_{10}
 678 : $P_{201401} = (56, 9, 48, 1)$ lies on line ℓ_{13}
 679 : $P_{201704} = (39, 14, 48, 1)$ lies on line ℓ_8
 680 : $P_{201852} = (59, 16, 48, 1)$ lies on line ℓ_7
 681 : $P_{202712} = (23, 30, 48, 1)$ lies on line ℓ_6
 682 : $P_{203680} = (31, 45, 48, 1)$ lies on line ℓ_{12}
 683 : $P_{203828} = (51, 47, 48, 1)$ lies on line ℓ_{14}
 684 : $P_{204169} = (8, 53, 48, 1)$ lies on line ℓ_9
 685 : $P_{204353} = (0, 56, 48, 1)$ lies on line ℓ_4
 686 : $P_{204417} = (0, 57, 48, 1)$ lies on line ℓ_5
 687 : $P_{204629} = (20, 60, 48, 1)$ lies on line ℓ_{11}
 688 : $P_{204875} = (10, 0, 49, 1)$ lies on line ℓ_0
 689 : $P_{204902} = (37, 0, 49, 1)$ lies on line ℓ_1
 690 : $P_{204911} = (46, 0, 49, 1)$ lies on line ℓ_2
 691 : $P_{204929} = (0, 1, 49, 1)$ lies on line ℓ_3
 692 : $P_{206422} = (21, 24, 49, 1)$ lies on line ℓ_{11}
 693 : $P_{206476} = (11, 25, 49, 1)$ lies on line ℓ_{14}
 694 : $P_{206512} = (47, 25, 49, 1)$ lies on line ℓ_6
 695 : $P_{206962} = (49, 32, 49, 1)$ lies on line ℓ_9
 696 : $P_{208513} = (0, 57, 49, 1)$ lies on line ℓ_5
 697 : $P_{208971} = (10, 0, 50, 1)$ lies on line ℓ_0
 698 : $P_{208998} = (37, 0, 50, 1)$ lies on line ℓ_1
 699 : $P_{209007} = (46, 0, 50, 1)$ lies on line ℓ_2
 700 : $P_{209025} = (0, 1, 50, 1)$ lies on line ℓ_3
 701 : $P_{209402} = (57, 6, 50, 1)$ lies on line ℓ_7
 702 : $P_{209642} = (41, 10, 50, 1)$ lies on line ℓ_{13}
 703 : $P_{209991} = (6, 16, 50, 1)$ lies on line ℓ_6

704 : $P_{210142} = (29, 18, 50, 1)$ lies on line ℓ_{12}
 705 : $P_{210327} = (22, 21, 50, 1)$ lies on line ℓ_{11}
 706 : $P_{210421} = (52, 22, 50, 1)$ lies on line ℓ_8
 707 : $P_{210972} = (27, 31, 50, 1)$ lies on line ℓ_9
 708 : $P_{211171} = (34, 34, 50, 1)$ lies on line ℓ_{14}
 709 : $P_{212049} = (16, 48, 50, 1)$ lies on line ℓ_{10}
 710 : $P_{212545} = (0, 56, 50, 1)$ lies on line ℓ_4
 711 : $P_{212609} = (0, 57, 50, 1)$ lies on line ℓ_5
 712 : $P_{213067} = (10, 0, 51, 1)$ lies on line ℓ_0
 713 : $P_{213094} = (37, 0, 51, 1)$ lies on line ℓ_1
 714 : $P_{213103} = (46, 0, 51, 1)$ lies on line ℓ_2
 715 : $P_{213121} = (0, 1, 51, 1)$ lies on line ℓ_3
 716 : $P_{213731} = (34, 10, 51, 1)$ lies on line ℓ_9
 717 : $P_{213945} = (56, 13, 51, 1)$ lies on line ℓ_7
 718 : $P_{214363} = (26, 20, 51, 1)$ lies on line ℓ_{14}
 719 : $P_{214591} = (62, 23, 51, 1)$ lies on line ℓ_6
 720 : $P_{214734} = (13, 26, 51, 1)$ lies on line ℓ_8
 721 : $P_{215722} = (41, 41, 51, 1)$ lies on line ℓ_{10}
 722 : $P_{216216} = (23, 49, 51, 1)$ lies on line ℓ_{11}
 723 : $P_{216641} = (0, 56, 51, 1)$ lies on line ℓ_4
 724 : $P_{216705} = (0, 57, 51, 1)$ lies on line ℓ_5
 725 : $P_{216850} = (17, 59, 51, 1)$ lies on line ℓ_{13}
 726 : $P_{216989} = (28, 61, 51, 1)$ lies on line ℓ_{12}
 727 : $P_{217163} = (10, 0, 52, 1)$ lies on line ℓ_0
 728 : $P_{217190} = (37, 0, 52, 1)$ lies on line ℓ_1
 729 : $P_{217217} = (0, 1, 52, 1)$ lies on line ℓ_3
 730 : $P_{217334} = (53, 2, 52, 1)$ lies on line ℓ_6
 731 : $P_{217638} = (37, 7, 52, 1)$ lies on line ℓ_{10}
 732 : $P_{218129} = (16, 15, 52, 1)$ lies on line ℓ_{11}
 733 : $P_{218139} = (26, 15, 52, 1)$ lies on line ℓ_{13}
 734 : $P_{220380} = (27, 50, 52, 1)$ lies on line ℓ_{12}
 735 : $P_{220562} = (17, 53, 52, 1)$ lies on line ℓ_{14}
 736 : $P_{220737} = (0, 56, 52, 1)$ lies on line ℓ_4
 737 : $P_{220801} = (0, 57, 52, 1)$ lies on line ℓ_5
 738 : $P_{221056} = (63, 60, 52, 1)$ lies on line ℓ_7
 739 : $P_{221122} = (1, 62, 52, 1)$ lies on line ℓ_8
 740 : $P_{221259} = (10, 0, 53, 1)$ lies on line ℓ_0
 741 : $P_{221286} = (37, 0, 53, 1)$ lies on line ℓ_1
 742 : $P_{221295} = (46, 0, 53, 1)$ lies on line ℓ_2
 743 : $P_{221313} = (0, 1, 53, 1)$ lies on line ℓ_3
 744 : $P_{221482} = (41, 3, 53, 1)$ lies on line ℓ_{14}
 745 : $P_{221582} = (13, 5, 53, 1)$ lies on line ℓ_6
 746 : $P_{222616} = (23, 21, 53, 1)$ lies on line ℓ_9
 747 : $P_{223131} = (26, 29, 53, 1)$ lies on line ℓ_{12}
 748 : $P_{223197} = (28, 30, 53, 1)$ lies on line ℓ_{10}
 749 : $P_{224018} = (17, 43, 53, 1)$ lies on line ℓ_{11}
 750 : $P_{224505} = (56, 50, 53, 1)$ lies on line ℓ_8
 751 : $P_{224831} = (62, 55, 53, 1)$ lies on line ℓ_7
 752 : $P_{224833} = (0, 56, 53, 1)$ lies on line ℓ_4
 753 : $P_{224897} = (0, 57, 53, 1)$ lies on line ℓ_5
 754 : $P_{225251} = (34, 62, 53, 1)$ lies on line ℓ_{13}
 755 : $P_{225355} = (10, 0, 54, 1)$ lies on line ℓ_0
 756 : $P_{225382} = (37, 0, 54, 1)$ lies on line ℓ_1
 757 : $P_{225391} = (46, 0, 54, 1)$ lies on line ℓ_2

758 : $P_{225409} = (0, 1, 54, 1)$ lies on line ℓ_3
 759 : $P_{226124} = (11, 12, 54, 1)$ lies on line ℓ_{13}
 760 : $P_{226149} = (36, 12, 54, 1)$ lies on line ℓ_6
 761 : $P_{226202} = (25, 13, 54, 1)$ lies on line ℓ_{12}
 762 : $P_{228791} = (54, 53, 54, 1)$ lies on line ℓ_{10}
 763 : $P_{228993} = (0, 57, 54, 1)$ lies on line ℓ_5
 764 : $P_{229451} = (10, 0, 55, 1)$ lies on line ℓ_0
 765 : $P_{229478} = (37, 0, 55, 1)$ lies on line ℓ_1
 766 : $P_{229487} = (46, 0, 55, 1)$ lies on line ℓ_2
 767 : $P_{229505} = (0, 1, 55, 1)$ lies on line ℓ_3
 768 : $P_{229588} = (19, 2, 55, 1)$ lies on line ℓ_{11}
 769 : $P_{230173} = (28, 11, 55, 1)$ lies on line ℓ_6
 770 : $P_{230393} = (56, 14, 55, 1)$ lies on line ℓ_{14}
 771 : $P_{231613} = (60, 33, 55, 1)$ lies on line ℓ_7
 772 : $P_{231641} = (24, 34, 55, 1)$ lies on line ℓ_{12}
 773 : $P_{232172} = (43, 42, 55, 1)$ lies on line ℓ_8
 774 : $P_{232272} = (15, 44, 55, 1)$ lies on line ℓ_{10}
 775 : $P_{233025} = (0, 56, 55, 1)$ lies on line ℓ_4
 776 : $P_{233089} = (0, 57, 55, 1)$ lies on line ℓ_5
 777 : $P_{233396} = (51, 61, 55, 1)$ lies on line ℓ_{13}
 778 : $P_{233477} = (4, 63, 55, 1)$ lies on line ℓ_9
 779 : $P_{233547} = (10, 0, 56, 1)$ lies on line ℓ_0
 780 : $P_{233574} = (37, 0, 56, 1)$ lies on line ℓ_1
 781 : $P_{233583} = (46, 0, 56, 1)$ lies on line ℓ_2
 782 : $P_{233601} = (0, 1, 56, 1)$ lies on line ℓ_3
 783 : $P_{233886} = (29, 5, 56, 1)$ lies on line ℓ_{13}
 784 : $P_{234095} = (46, 8, 56, 1)$ lies on line ℓ_{10}
 785 : $P_{234507} = (10, 15, 56, 1)$ lies on line ℓ_8
 786 : $P_{234776} = (23, 19, 56, 1)$ lies on line ℓ_{12}
 787 : $P_{235287} = (22, 27, 56, 1)$ lies on line ℓ_{14}
 788 : $P_{236019} = (50, 38, 56, 1)$ lies on line ℓ_6
 789 : $P_{236212} = (51, 41, 56, 1)$ lies on line ℓ_7
 790 : $P_{237121} = (0, 56, 56, 1)$ lies on line ℓ_4
 791 : $P_{237185} = (0, 57, 56, 1)$ lies on line ℓ_5
 792 : $P_{237341} = (28, 59, 56, 1)$ lies on line ℓ_{11}
 793 : $P_{237542} = (37, 62, 56, 1)$ lies on line ℓ_9
 794 : $P_{237643} = (10, 0, 57, 1)$ lies on line ℓ_0
 795 : $P_{237670} = (37, 0, 57, 1)$ lies on line ℓ_1
 796 : $P_{237679} = (46, 0, 57, 1)$ lies on line ℓ_2
 797 : $P_{237697} = (0, 1, 57, 1)$ lies on line ℓ_3
 798 : $P_{237876} = (51, 3, 57, 1)$ lies on line ℓ_8
 799 : $P_{238744} = (23, 17, 57, 1)$ lies on line ℓ_{10}
 800 : $P_{239646} = (29, 31, 57, 1)$ lies on line ℓ_{11}
 801 : $P_{239755} = (10, 33, 57, 1)$ lies on line ℓ_6
 802 : $P_{239859} = (50, 34, 57, 1)$ lies on line ℓ_7
 803 : $P_{240413} = (28, 43, 57, 1)$ lies on line ℓ_9
 804 : $P_{240559} = (46, 45, 57, 1)$ lies on line ℓ_{14}
 805 : $P_{240998} = (37, 52, 57, 1)$ lies on line ℓ_{13}
 806 : $P_{241217} = (0, 56, 57, 1)$ lies on line ℓ_4
 807 : $P_{241281} = (0, 57, 57, 1)$ lies on line ℓ_5
 808 : $P_{241495} = (22, 60, 57, 1)$ lies on line ℓ_{12}
 809 : $P_{241739} = (10, 0, 58, 1)$ lies on line ℓ_0
 810 : $P_{241766} = (37, 0, 58, 1)$ lies on line ℓ_1
 811 : $P_{241775} = (46, 0, 58, 1)$ lies on line ℓ_2

812 : $P_{241793} = (0, 1, 58, 1)$ lies on line ℓ_3
 813 : $P_{242125} = (12, 6, 58, 1)$ lies on line ℓ_{13}
 814 : $P_{242911} = (30, 18, 58, 1)$ lies on line ℓ_{11}
 815 : $P_{243063} = (54, 20, 58, 1)$ lies on line ℓ_9
 816 : $P_{243144} = (7, 22, 58, 1)$ lies on line ℓ_{14}
 817 : $P_{243226} = (25, 23, 58, 1)$ lies on line ℓ_8
 818 : $P_{244324} = (35, 40, 58, 1)$ lies on line ℓ_6
 819 : $P_{244566} = (21, 44, 58, 1)$ lies on line ℓ_{12}
 820 : $P_{245313} = (0, 56, 58, 1)$ lies on line ℓ_4
 821 : $P_{245377} = (0, 57, 58, 1)$ lies on line ℓ_5
 822 : $P_{245502} = (61, 58, 58, 1)$ lies on line ℓ_{10}
 823 : $P_{245810} = (49, 63, 58, 1)$ lies on line ℓ_7
 824 : $P_{245835} = (10, 0, 59, 1)$ lies on line ℓ_0
 825 : $P_{245862} = (37, 0, 59, 1)$ lies on line ℓ_1
 826 : $P_{245871} = (46, 0, 59, 1)$ lies on line ℓ_2
 827 : $P_{245889} = (0, 1, 59, 1)$ lies on line ℓ_3
 828 : $P_{245904} = (15, 1, 59, 1)$ lies on line ℓ_9
 829 : $P_{246037} = (20, 3, 59, 1)$ lies on line ℓ_{12}
 830 : $P_{247585} = (32, 27, 59, 1)$ lies on line ℓ_8
 831 : $P_{247936} = (63, 32, 59, 1)$ lies on line ℓ_{14}
 832 : $P_{248069} = (4, 35, 59, 1)$ lies on line ℓ_{10}
 833 : $P_{248860} = (27, 47, 59, 1)$ lies on line ℓ_6
 834 : $P_{249201} = (48, 52, 59, 1)$ lies on line ℓ_7
 835 : $P_{249312} = (31, 54, 59, 1)$ lies on line ℓ_{11}
 836 : $P_{249397} = (52, 55, 59, 1)$ lies on line ℓ_{13}
 837 : $P_{249409} = (0, 56, 59, 1)$ lies on line ℓ_4
 838 : $P_{249473} = (0, 57, 59, 1)$ lies on line ℓ_5
 839 : $P_{249931} = (10, 0, 60, 1)$ lies on line ℓ_0
 840 : $P_{249958} = (37, 0, 60, 1)$ lies on line ℓ_1
 841 : $P_{249967} = (46, 0, 60, 1)$ lies on line ℓ_2
 842 : $P_{249985} = (0, 1, 60, 1)$ lies on line ℓ_3
 843 : $P_{250037} = (52, 1, 60, 1)$ lies on line ℓ_{14}
 844 : $P_{250176} = (63, 3, 60, 1)$ lies on line ℓ_{13}
 845 : $P_{250296} = (55, 5, 60, 1)$ lies on line ℓ_7
 846 : $P_{250457} = (24, 8, 60, 1)$ lies on line ℓ_{11}
 847 : $P_{250628} = (3, 11, 60, 1)$ lies on line ℓ_9
 848 : $P_{250708} = (19, 12, 60, 1)$ lies on line ℓ_{12}
 849 : $P_{250761} = (8, 13, 60, 1)$ lies on line ℓ_{10}
 850 : $P_{253505} = (0, 56, 60, 1)$ lies on line ℓ_4
 851 : $P_{253569} = (0, 57, 60, 1)$ lies on line ℓ_5
 852 : $P_{253649} = (16, 58, 60, 1)$ lies on line ℓ_6
 853 : $P_{253997} = (44, 63, 60, 1)$ lies on line ℓ_8
 854 : $P_{254027} = (10, 0, 61, 1)$ lies on line ℓ_0
 855 : $P_{254054} = (37, 0, 61, 1)$ lies on line ℓ_1
 856 : $P_{254063} = (46, 0, 61, 1)$ lies on line ℓ_2
 857 : $P_{254081} = (0, 1, 61, 1)$ lies on line ℓ_3
 858 : $P_{254967} = (54, 14, 61, 1)$ lies on line ℓ_7
 859 : $P_{255346} = (49, 20, 61, 1)$ lies on line ℓ_{10}
 860 : $P_{255995} = (58, 30, 61, 1)$ lies on line ℓ_9
 861 : $P_{256275} = (18, 35, 61, 1)$ lies on line ℓ_{12}
 862 : $P_{256858} = (25, 44, 61, 1)$ lies on line ℓ_{11}
 863 : $P_{257224} = (7, 50, 61, 1)$ lies on line ℓ_{13}
 864 : $P_{257302} = (21, 51, 61, 1)$ lies on line ℓ_8
 865 : $P_{257549} = (12, 55, 61, 1)$ lies on line ℓ_{14}
 866 : $P_{257601} = (0, 56, 61, 1)$ lies on line ℓ_4
 867 : $P_{257665} = (0, 57, 61, 1)$ lies on line ℓ_5
 868 : $P_{257961} = (40, 61, 61, 1)$ lies on line ℓ_6
 869 : $P_{258123} = (10, 0, 62, 1)$ lies on line ℓ_0
 870 : $P_{258150} = (37, 0, 62, 1)$ lies on line ℓ_1
 871 : $P_{258177} = (0, 1, 62, 1)$ lies on line ℓ_3
 872 : $P_{258918} = (37, 12, 62, 1)$ lies on line ℓ_{14}
 873 : $P_{259382} = (53, 19, 62, 1)$ lies on line ℓ_7
 874 : $P_{260241} = (16, 33, 62, 1)$ lies on line ℓ_9
 875 : $P_{260251} = (26, 33, 62, 1)$ lies on line ℓ_{11}
 876 : $P_{260672} = (63, 39, 62, 1)$ lies on line ℓ_8
 877 : $P_{261394} = (17, 51, 62, 1)$ lies on line ℓ_{12}
 878 : $P_{261442} = (1, 52, 62, 1)$ lies on line ℓ_6
 879 : $P_{261697} = (0, 56, 62, 1)$ lies on line ℓ_4
 880 : $P_{261761} = (0, 57, 62, 1)$ lies on line ℓ_5
 881 : $P_{262172} = (27, 63, 62, 1)$ lies on line ℓ_{10}
 882 : $P_{262219} = (10, 0, 63, 1)$ lies on line ℓ_0
 883 : $P_{262246} = (37, 0, 63, 1)$ lies on line ℓ_1
 884 : $P_{262255} = (46, 0, 63, 1)$ lies on line ℓ_2
 885 : $P_{262273} = (0, 1, 63, 1)$ lies on line ℓ_3
 886 : $P_{262556} = (27, 5, 63, 1)$ lies on line ℓ_{11}
 887 : $P_{263797} = (52, 24, 63, 1)$ lies on line ℓ_7
 888 : $P_{264017} = (16, 28, 63, 1)$ lies on line ℓ_{12}
 889 : $P_{264675} = (34, 38, 63, 1)$ lies on line ℓ_{10}
 890 : $P_{264967} = (6, 43, 63, 1)$ lies on line ℓ_8
 891 : $P_{265367} = (22, 49, 63, 1)$ lies on line ℓ_{13}
 892 : $P_{265530} = (57, 51, 63, 1)$ lies on line ℓ_6
 893 : $P_{265578} = (41, 52, 63, 1)$ lies on line ℓ_9
 894 : $P_{265793} = (0, 56, 63, 1)$ lies on line ℓ_4
 895 : $P_{265857} = (0, 57, 63, 1)$ lies on line ℓ_5
 896 : $P_{265950} = (29, 58, 63, 1)$ lies on line ℓ_{14}

The single points on the surface are:

Points on surface but on no line

The surface has 3483 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
0	0	1	1	1	1	1	0	0	0	1	0	1	0	1	
1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	
2	1	1	0	1	1	1	0	0	0	1	0	1	0	1	0
3	1	1	1	0	1	1	0	1	0	0	0	1	1	0	0
4	1	1	1	1	0	1	1	0	0	0	0	0	1	1	
5	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0
6	0	1	0	0	1	0	0	0	0	1	1	1	1	0	0
7	0	1	0	1	0	0	0	0	0	1	1	0	0	1	1
8	0	1	0	0	0	1	0	0	0	0	0	1	1	1	1
9	0	0	1	0	0	1	1	1	0	0	0	0	1	0	1
10	1	0	0	0	0	1	1	1	0	0	0	1	0	1	0
11	0	0	1	1	0	0	1	0	1	0	1	0	0	0	1
12	1	0	0	1	0	0	1	0	1	1	0	0	0	1	0
13	0	0	1	0	1	0	0	1	1	0	1	0	1	0	0
14	1	0	0	0	1	0	0	1	1	1	0	1	0	0	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_{10}	ℓ_{12}	ℓ_{14}
in point	P_2	P_2	P_2	P_2	P_2	P_{188491}	P_{155723}	P_{36939}

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8
in point	P_2	P_2	P_2	P_2	P_2	P_{65638}	P_{192614}	P_{139366}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_9	ℓ_{11}	ℓ_{13}
in point	P_2	P_2	P_2	P_2	P_2	P_{217199}	P_{45167}	P_{258159}

Line 3 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_7	ℓ_{11}	ℓ_{12}
in point	P_2	P_2	P_2	P_2	P_2	P_{49281}	P_{151681}	P_{196737}

Line 4 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_{13}	ℓ_{14}
in point	P_2	P_2	P_2	P_2	P_2	P_{36417}	P_{208449}	P_{228929}

Line 5 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_8	ℓ_9	ℓ_{10}
in point	P_2	P_2	P_2	P_2	P_2	P_{56961}	P_{93825}	P_{110209}

Line 6 intersects

Line	ℓ_1	ℓ_4	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}
in point	P_{65638}	P_{36417}	P_{198867}	P_{152863}	P_{106814}	P_{92731}

Line 7 intersects

Line	ℓ_1	ℓ_3	ℓ_9	ℓ_{10}	ℓ_{13}	ℓ_{14}
in point	P_{192614}	P_{49281}	P_{228094}	P_{206651}	P_{106835}	P_{91295}

Line 8 intersects

Line	ℓ_1	ℓ_5	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}
in point	P_{139366}	P_{56961}	P_{227795}	P_{205023}	P_{199358}	P_{155515}

Line 9 intersects

Line	ℓ_2	ℓ_5	ℓ_6	ℓ_7	ℓ_{12}	ℓ_{14}
in point	P_{217199}	P_{93825}	P_{198867}	P_{228094}	P_{33193}	P_{53028}

Line 10 intersects

Line	ℓ_0	ℓ_5	ℓ_6	ℓ_7	ℓ_{11}	ℓ_{13}
in point	P_{188491}	P_{110209}	P_{152863}	P_{206651}	P_{33892}	P_{51241}

Line 11 intersects

Line	ℓ_2	ℓ_3	ℓ_6	ℓ_8	ℓ_{10}	ℓ_{14}
in point	P_{45167}	P_{151681}	P_{106814}	P_{227795}	P_{33892}	P_{55017}

Line 12 intersects

Line	ℓ_0	ℓ_3	ℓ_6	ℓ_8	ℓ_9	ℓ_{13}
in point	P_{155723}	P_{196737}	P_{92731}	P_{205023}	P_{33193}	P_{56100}

Line 13 intersects

Line	ℓ_2	ℓ_4	ℓ_7	ℓ_8	ℓ_{10}	ℓ_{12}
in point	P_{258159}	P_{208449}	P_{106835}	P_{199358}	P_{51241}	P_{56100}

Line 14 intersects

Line	ℓ_0	ℓ_4	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}
in point	P_{36939}	P_{228929}	P_{91295}	P_{155515}	P_{53028}	P_{55017}

The surface has 4417 points:

Too many to print.