

Rank-65550 over GF(64)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^3 + X_1^3 + X_3^3 + X_0X_1X_2 = 0$$

(1, 1, 0, 1, 0, 0, 0, 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	3
Number of double points	27
Number of single points	906
Number of points off lines	3480
Number of Hesse planes	0
Number of axes	0
Type of points on lines	65^{15}
Type of lines on points	$6, 3^3, 2^{27}, 1^{906}, 0^{3480}$

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:

$$\begin{aligned} \ell_0 &= \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{array} \right]_{270400} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{array} \right]_{270400} = \mathbf{Pl}(0, 1, 1, 0, 0, 0)_{66} \\ \ell_1 &= \left[\begin{array}{cccc} 1 & 0 & 0 & \epsilon^{21} \\ 0 & 0 & 1 & 0 \end{array} \right]_{15183424} = \left[\begin{array}{cccc} 1 & 0 & 0 & 57 \\ 0 & 0 & 1 & 0 \end{array} \right]_{15183424} = \mathbf{Pl}(0, 57, 1, 0, 0, 0)_{122} \end{aligned}$$

$$\begin{aligned}
\ell_2 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^{42} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{14917120} = \begin{bmatrix} 1 & 0 & 0 & 56 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{14917120} = \mathbf{Pl}(0, 56, 1, 0, 0, 0)_{121} \\
\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 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{270530} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{270530} = \mathbf{Pl}(1, 0, 1, 1, 1, 1)_{544579} \\
\ell_7 &= \begin{bmatrix} 1 & 0 & 1 & \epsilon^{21} \\ 0 & 1 & 1 & \epsilon^{21} \end{bmatrix}_{15187138} = \begin{bmatrix} 1 & 0 & 1 & 57 \\ 0 & 1 & 1 & 57 \end{bmatrix}_{15187138} = \mathbf{Pl}(56, 0, 56, 57, 57, 1)_{15228099} \\
\ell_8 &= \begin{bmatrix} 1 & 0 & 1 & \epsilon^{42} \\ 0 & 1 & 1 & \epsilon^{42} \end{bmatrix}_{14920770} = \begin{bmatrix} 1 & 0 & 1 & 56 \\ 0 & 1 & 1 & 56 \end{bmatrix}_{14920770} = \mathbf{Pl}(57, 0, 57, 56, 56, 1)_{14966147} \\
\ell_9 &= \begin{bmatrix} 1 & 0 & \epsilon^{42} & \epsilon^{42} \\ 0 & 1 & \epsilon^{21} & \epsilon^{21} \end{bmatrix}_{15149745} = \begin{bmatrix} 1 & 0 & 56 & 56 \\ 0 & 1 & 57 & 57 \end{bmatrix}_{15149745} = \mathbf{Pl}(56, 0, 1, 1, 56, 1)_{14959034} \\
\ell_{10} &= \begin{bmatrix} 1 & 0 & \epsilon^{42} & 1 \\ 0 & 1 & \epsilon^{21} & \epsilon^{42} \end{bmatrix}_{502961} = \begin{bmatrix} 1 & 0 & 56 & 1 \\ 0 & 1 & 57 & 56 \end{bmatrix}_{502961} = \mathbf{Pl}(57, 0, 56, 57, 1, 1)_{551620} \\
\ell_{11} &= \begin{bmatrix} 1 & 0 & \epsilon^{42} & \epsilon^{21} \\ 0 & 1 & \epsilon^{21} & 1 \end{bmatrix}_{15412465} = \begin{bmatrix} 1 & 0 & 56 & 57 \\ 0 & 1 & 57 & 1 \end{bmatrix}_{15412465} = \mathbf{Pl}(1, 0, 57, 56, 57, 1)_{15228171} \\
\ell_{12} &= \begin{bmatrix} 1 & 0 & \epsilon^{21} & \epsilon^{21} \\ 0 & 1 & \epsilon^{42} & \epsilon^{42} \end{bmatrix}_{15420145} = \begin{bmatrix} 1 & 0 & 57 & 57 \\ 0 & 1 & 56 & 56 \end{bmatrix}_{15420145} = \mathbf{Pl}(57, 0, 1, 1, 57, 1)_{15221115} \\
\ell_{13} &= \begin{bmatrix} 1 & 0 & \epsilon^{21} & \epsilon^{42} \\ 0 & 1 & \epsilon^{42} & 1 \end{bmatrix}_{15150321} = \begin{bmatrix} 1 & 0 & 57 & 56 \\ 0 & 1 & 56 & 1 \end{bmatrix}_{15150321} = \mathbf{Pl}(1, 0, 56, 57, 56, 1)_{14965964} \\
\ell_{14} &= \begin{bmatrix} 1 & 0 & \epsilon^{21} & 1 \\ 0 & 1 & \epsilon^{42} & \epsilon^{21} \end{bmatrix}_{507185} = \begin{bmatrix} 1 & 0 & 57 & 1 \\ 0 & 1 & 56 & 57 \end{bmatrix}_{507185} = \mathbf{Pl}(56, 0, 57, 56, 1, 1)_{551746}
\end{aligned}$$

Rank of lines: (270400, 15183424, 14917120, 17043521, 17047161, 17047096, 270530, 15187138, 14920770, 15149745, 502961, 15412465, 15420145, 15150321, 507185)

Rank of points on Klein quadric: (66, 122, 121, 270465, 270521, 270520, 544579, 15228099, 14966147, 14959034, 551620, 15228171, 15221115, 14965964, 551746)

Eckardt Points

The surface has 3 Eckardt points:

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

$$1 : P_{60} = \mathbf{P}(\epsilon^{42}, 1, 0, 0) = \mathbf{P}(56, 1, 0, 0),$$

$$2 : P_{61} = \mathbf{P}(\epsilon^{21}, 1, 0, 0) = \mathbf{P}(57, 1, 0, 0).$$

Double Points

The surface has 27 Double points:

The double points on the surface are:

$$\begin{aligned}
P_{8259} &= (1, 0, 1, 1) = \ell_0 \cap \ell_6 \\
P_{233538} &= (1, 0, 56, 1) = \ell_0 \cap \ell_{10} \\
P_{237634} &= (1, 0, 57, 1) = \ell_0 \cap \ell_{14} \\
P_{233593} &= (56, 0, 56, 1) = \ell_1 \cap \ell_7 \\
P_{237689} &= (56, 0, 57, 1) = \ell_1 \cap \ell_{11} \\
P_{8314} &= (56, 0, 1, 1) = \ell_1 \cap \ell_{12} \\
P_{237690} &= (57, 0, 57, 1) = \ell_2 \cap \ell_8 \\
P_{8315} &= (57, 0, 1, 1) = \ell_2 \cap \ell_9 \\
P_{233594} &= (57, 0, 56, 1) = \ell_2 \cap \ell_{13} \\
P_{8322} &= (0, 1, 1, 1) = \ell_3 \cap \ell_6 \\
P_{237697} &= (0, 1, 57, 1) = \ell_3 \cap \ell_{11} \\
P_{233601} &= (0, 1, 56, 1) = \ell_3 \cap \ell_{13} \\
P_{237121} &= (0, 56, 56, 1) = \ell_4 \cap \ell_7 \\
P_{11841} &= (0, 56, 1, 1) = \ell_4 \cap \ell_9
\end{aligned}$$

$$\begin{aligned}
P_{241217} &= (0, 56, 57, 1) = \ell_4 \cap \ell_{14} \\
P_{241281} &= (0, 57, 57, 1) = \ell_5 \cap \ell_8 \\
P_{237185} &= (0, 57, 56, 1) = \ell_5 \cap \ell_{10} \\
P_{11905} &= (0, 57, 1, 1) = \ell_5 \cap \ell_{12} \\
P_{11961} &= (56, 57, 1, 1) = \ell_6 \cap \ell_9 \\
P_{11898} &= (57, 56, 1, 1) = \ell_6 \cap \ell_{12} \\
P_{233658} &= (57, 1, 56, 1) = \ell_7 \cap \ell_{10} \\
P_{237186} &= (1, 57, 56, 1) = \ell_7 \cap \ell_{13} \\
P_{241218} &= (1, 56, 57, 1) = \ell_8 \cap \ell_{11} \\
P_{237753} &= (56, 1, 57, 1) = \ell_8 \cap \ell_{14} \\
P_4 &= (1, 1, 1, 1) = \ell_9 \cap \ell_{12} \\
P_{237177} &= (56, 56, 56, 1) = \ell_{10} \cap \ell_{13} \\
P_{241338} &= (57, 57, 57, 1) = \ell_{11} \cap \ell_{14}
\end{aligned}$$

Single Points

The surface has 906 single points:
The single points on the surface are:

$$\begin{aligned}
0 : P_{4163} &= (1, 0, 0, 1) \text{ lies on line } \ell_0 \\
1 : P_{4218} &= (56, 0, 0, 1) \text{ lies on line } \ell_1 \\
2 : P_{4219} &= (57, 0, 0, 1) \text{ lies on line } \ell_2 \\
3 : P_{4226} &= (0, 1, 0, 1) \text{ lies on line } \ell_3 \\
4 : P_{7746} &= (0, 56, 0, 1) \text{ lies on line } \ell_4 \\
5 : P_{7810} &= (0, 57, 0, 1) \text{ lies on line } \ell_5 \\
6 : P_{8388} &= (3, 2, 1, 1) \text{ lies on line } \ell_6 \\
7 : P_{8425} &= (40, 2, 1, 1) \text{ lies on line } \ell_9 \\
8 : P_{8428} &= (43, 2, 1, 1) \text{ lies on line } \ell_{12} \\
9 : P_{8451} &= (2, 3, 1, 1) \text{ lies on line } \ell_6 \\
10 : P_{8465} &= (16, 3, 1, 1) \text{ lies on line } \ell_9 \\
11 : P_{8467} &= (18, 3, 1, 1) \text{ lies on line } \ell_{12} \\
12 : P_{8518} &= (5, 4, 1, 1) \text{ lies on line } \ell_6 \\
13 : P_{8540} &= (27, 4, 1, 1) \text{ lies on line } \ell_9 \\
14 : P_{8543} &= (30, 4, 1, 1) \text{ lies on line } \ell_{12} \\
15 : P_{8581} &= (4, 5, 1, 1) \text{ lies on line } \ell_6 \\
16 : P_{8612} &= (35, 5, 1, 1) \text{ lies on line } \ell_9 \\
17 : P_{8616} &= (39, 5, 1, 1) \text{ lies on line } \ell_{12} \\
18 : P_{8648} &= (7, 6, 1, 1) \text{ lies on line } \ell_6 \\
19 : P_{8651} &= (10, 6, 1, 1) \text{ lies on line } \ell_9 \\
20 : P_{8654} &= (13, 6, 1, 1) \text{ lies on line } \ell_{12} \\
21 : P_{8711} &= (6, 7, 1, 1) \text{ lies on line } \ell_6 \\
22 : P_{8755} &= (50, 7, 1, 1) \text{ lies on line } \ell_9 \\
23 : P_{8757} &= (52, 7, 1, 1) \text{ lies on line } \ell_{12} \\
24 : P_{8778} &= (9, 8, 1, 1) \text{ lies on line } \ell_6 \\
25 : P_{8790} &= (21, 8, 1, 1) \text{ lies on line } \ell_{12} \\
26 : P_{8797} &= (28, 8, 1, 1) \text{ lies on line } \ell_9 \\
27 : P_{8841} &= (8, 9, 1, 1) \text{ lies on line } \ell_6 \\
28 : P_{8869} &= (36, 9, 1, 1) \text{ lies on line } \ell_9 \\
29 : P_{8877} &= (44, 9, 1, 1) \text{ lies on line } \ell_{12} \\
30 : P_{8903} &= (6, 10, 1, 1) \text{ lies on line } \ell_{12} \\
31 : P_{8908} &= (11, 10, 1, 1) \text{ lies on line } \ell_6 \\
32 : P_{8910} &= (13, 10, 1, 1) \text{ lies on line } \ell_9
\end{aligned}$$

$$\begin{aligned}
33 : P_{8971} &= (10, 11, 1, 1) \text{ lies on line } \ell_6 \\
34 : P_{9014} &= (53, 11, 1, 1) \text{ lies on line } \ell_9 \\
35 : P_{9024} &= (63, 11, 1, 1) \text{ lies on line } \ell_{12} \\
36 : P_{9038} &= (13, 12, 1, 1) \text{ lies on line } \ell_6 \\
37 : P_{9076} &= (51, 12, 1, 1) \text{ lies on line } \ell_{12} \\
38 : P_{9087} &= (62, 12, 1, 1) \text{ lies on line } \ell_9 \\
39 : P_{9095} &= (6, 13, 1, 1) \text{ lies on line } \ell_9 \\
40 : P_{9099} &= (10, 13, 1, 1) \text{ lies on line } \ell_{12} \\
41 : P_{9101} &= (12, 13, 1, 1) \text{ lies on line } \ell_6 \\
42 : P_{9168} &= (15, 14, 1, 1) \text{ lies on line } \ell_6 \\
43 : P_{9185} &= (32, 14, 1, 1) \text{ lies on line } \ell_{12} \\
44 : P_{9200} &= (47, 14, 1, 1) \text{ lies on line } \ell_9 \\
45 : P_{9231} &= (14, 15, 1, 1) \text{ lies on line } \ell_6 \\
46 : P_{9240} &= (23, 15, 1, 1) \text{ lies on line } \ell_9 \\
47 : P_{9242} &= (25, 15, 1, 1) \text{ lies on line } \ell_{12} \\
48 : P_{9284} &= (3, 16, 1, 1) \text{ lies on line } \ell_{12} \\
49 : P_{9298} &= (17, 16, 1, 1) \text{ lies on line } \ell_6 \\
50 : P_{9299} &= (18, 16, 1, 1) \text{ lies on line } \ell_9 \\
51 : P_{9361} &= (16, 17, 1, 1) \text{ lies on line } \ell_6 \\
52 : P_{9387} &= (42, 17, 1, 1) \text{ lies on line } \ell_9 \\
53 : P_{9403} &= (58, 17, 1, 1) \text{ lies on line } \ell_{12} \\
54 : P_{9412} &= (3, 18, 1, 1) \text{ lies on line } \ell_9 \\
55 : P_{9425} &= (16, 18, 1, 1) \text{ lies on line } \ell_{12} \\
56 : P_{9428} &= (19, 18, 1, 1) \text{ lies on line } \ell_6 \\
57 : P_{9491} &= (18, 19, 1, 1) \text{ lies on line } \ell_6 \\
58 : P_{9514} &= (41, 19, 1, 1) \text{ lies on line } \ell_{12} \\
59 : P_{9532} &= (59, 19, 1, 1) \text{ lies on line } \ell_9 \\
60 : P_{9558} &= (21, 20, 1, 1) \text{ lies on line } \ell_6 \\
61 : P_{9574} &= (37, 20, 1, 1) \text{ lies on line } \ell_{12} \\
62 : P_{9585} &= (48, 20, 1, 1) \text{ lies on line } \ell_9 \\
63 : P_{9609} &= (8, 21, 1, 1) \text{ lies on line } \ell_9 \\
64 : P_{9621} &= (20, 21, 1, 1) \text{ lies on line } \ell_6 \\
65 : P_{9629} &= (28, 21, 1, 1) \text{ lies on line } \ell_{12}
\end{aligned}$$

66 : $P_{9688} = (23, 22, 1, 1)$ lies on line ℓ_6
 67 : $P_{9698} = (33, 22, 1, 1)$ lies on line ℓ_9
 68 : $P_{9719} = (54, 22, 1, 1)$ lies on line ℓ_{12}
 69 : $P_{9744} = (15, 23, 1, 1)$ lies on line ℓ_{12}
 70 : $P_{9751} = (22, 23, 1, 1)$ lies on line ℓ_6
 71 : $P_{9754} = (25, 23, 1, 1)$ lies on line ℓ_9
 72 : $P_{9818} = (25, 24, 1, 1)$ lies on line ℓ_6
 73 : $P_{9839} = (46, 24, 1, 1)$ lies on line ℓ_{12}
 74 : $P_{9848} = (55, 24, 1, 1)$ lies on line ℓ_9
 75 : $P_{9872} = (15, 25, 1, 1)$ lies on line ℓ_9
 76 : $P_{9880} = (23, 25, 1, 1)$ lies on line ℓ_{12}
 77 : $P_{9881} = (24, 25, 1, 1)$ lies on line ℓ_6
 78 : $P_{9948} = (27, 26, 1, 1)$ lies on line ℓ_6
 79 : $P_{9959} = (38, 26, 1, 1)$ lies on line ℓ_9
 80 : $P_{9982} = (61, 26, 1, 1)$ lies on line ℓ_{12}
 81 : $P_{9989} = (4, 27, 1, 1)$ lies on line ℓ_{12}
 82 : $P_{10011} = (26, 27, 1, 1)$ lies on line ℓ_6
 83 : $P_{10015} = (30, 27, 1, 1)$ lies on line ℓ_9
 84 : $P_{10057} = (8, 28, 1, 1)$ lies on line ℓ_{12}
 85 : $P_{10070} = (21, 28, 1, 1)$ lies on line ℓ_9
 86 : $P_{10078} = (29, 28, 1, 1)$ lies on line ℓ_6
 87 : $P_{10141} = (28, 29, 1, 1)$ lies on line ℓ_6
 88 : $P_{10158} = (45, 29, 1, 1)$ lies on line ℓ_9
 89 : $P_{10162} = (49, 29, 1, 1)$ lies on line ℓ_{12}
 90 : $P_{10181} = (4, 30, 1, 1)$ lies on line ℓ_9
 91 : $P_{10204} = (27, 30, 1, 1)$ lies on line ℓ_{12}
 92 : $P_{10208} = (31, 30, 1, 1)$ lies on line ℓ_6
 93 : $P_{10271} = (30, 31, 1, 1)$ lies on line ℓ_6
 94 : $P_{10275} = (34, 31, 1, 1)$ lies on line ℓ_{12}
 95 : $P_{10301} = (60, 31, 1, 1)$ lies on line ℓ_9
 96 : $P_{10319} = (14, 32, 1, 1)$ lies on line ℓ_9
 97 : $P_{10338} = (33, 32, 1, 1)$ lies on line ℓ_6
 98 : $P_{10352} = (47, 32, 1, 1)$ lies on line ℓ_{12}
 99 : $P_{10391} = (22, 33, 1, 1)$ lies on line ℓ_{12}
 100 : $P_{10401} = (32, 33, 1, 1)$ lies on line ℓ_6
 101 : $P_{10423} = (54, 33, 1, 1)$ lies on line ℓ_9
 102 : $P_{10464} = (31, 34, 1, 1)$ lies on line ℓ_9
 103 : $P_{10468} = (35, 34, 1, 1)$ lies on line ℓ_6
 104 : $P_{10493} = (60, 34, 1, 1)$ lies on line ℓ_{12}
 105 : $P_{10502} = (5, 35, 1, 1)$ lies on line ℓ_{12}
 106 : $P_{10531} = (34, 35, 1, 1)$ lies on line ℓ_6
 107 : $P_{10536} = (39, 35, 1, 1)$ lies on line ℓ_9
 108 : $P_{10570} = (9, 36, 1, 1)$ lies on line ℓ_{12}
 109 : $P_{10598} = (37, 36, 1, 1)$ lies on line ℓ_6
 110 : $P_{10605} = (44, 36, 1, 1)$ lies on line ℓ_9
 111 : $P_{10645} = (20, 37, 1, 1)$ lies on line ℓ_9
 112 : $P_{10661} = (36, 37, 1, 1)$ lies on line ℓ_6
 113 : $P_{10673} = (48, 37, 1, 1)$ lies on line ℓ_{12}
 114 : $P_{10715} = (26, 38, 1, 1)$ lies on line ℓ_{12}
 115 : $P_{10728} = (39, 38, 1, 1)$ lies on line ℓ_6
 116 : $P_{10750} = (61, 38, 1, 1)$ lies on line ℓ_9
 117 : $P_{10758} = (5, 39, 1, 1)$ lies on line ℓ_9
 118 : $P_{10788} = (35, 39, 1, 1)$ lies on line ℓ_{12}
 119 : $P_{10791} = (38, 39, 1, 1)$ lies on line ℓ_6

120 : $P_{10819} = (2, 40, 1, 1)$ lies on line ℓ_{12}
 121 : $P_{10858} = (41, 40, 1, 1)$ lies on line ℓ_6
 122 : $P_{10860} = (43, 40, 1, 1)$ lies on line ℓ_9
 123 : $P_{10900} = (19, 41, 1, 1)$ lies on line ℓ_9
 124 : $P_{10921} = (40, 41, 1, 1)$ lies on line ℓ_6
 125 : $P_{10940} = (59, 41, 1, 1)$ lies on line ℓ_{12}
 126 : $P_{10962} = (17, 42, 1, 1)$ lies on line ℓ_{12}
 127 : $P_{10988} = (43, 42, 1, 1)$ lies on line ℓ_6
 128 : $P_{11003} = (58, 42, 1, 1)$ lies on line ℓ_9
 129 : $P_{11011} = (2, 43, 1, 1)$ lies on line ℓ_9
 130 : $P_{11049} = (40, 43, 1, 1)$ lies on line ℓ_{12}
 131 : $P_{11051} = (42, 43, 1, 1)$ lies on line ℓ_6
 132 : $P_{11082} = (9, 44, 1, 1)$ lies on line ℓ_9
 133 : $P_{11109} = (36, 44, 1, 1)$ lies on line ℓ_{12}
 134 : $P_{11118} = (45, 44, 1, 1)$ lies on line ℓ_6
 135 : $P_{11166} = (29, 45, 1, 1)$ lies on line ℓ_{12}
 136 : $P_{11181} = (44, 45, 1, 1)$ lies on line ℓ_6
 137 : $P_{11186} = (49, 45, 1, 1)$ lies on line ℓ_9
 138 : $P_{11225} = (24, 46, 1, 1)$ lies on line ℓ_9
 139 : $P_{11248} = (47, 46, 1, 1)$ lies on line ℓ_6
 140 : $P_{11256} = (55, 46, 1, 1)$ lies on line ℓ_{12}
 141 : $P_{11279} = (14, 47, 1, 1)$ lies on line ℓ_{12}
 142 : $P_{11297} = (32, 47, 1, 1)$ lies on line ℓ_9
 143 : $P_{11311} = (46, 47, 1, 1)$ lies on line ℓ_6
 144 : $P_{11349} = (20, 48, 1, 1)$ lies on line ℓ_{12}
 145 : $P_{11366} = (37, 48, 1, 1)$ lies on line ℓ_9
 146 : $P_{11378} = (49, 48, 1, 1)$ lies on line ℓ_6
 147 : $P_{11422} = (29, 49, 1, 1)$ lies on line ℓ_9
 148 : $P_{11438} = (45, 49, 1, 1)$ lies on line ℓ_{12}
 149 : $P_{11441} = (48, 49, 1, 1)$ lies on line ℓ_6
 150 : $P_{11464} = (7, 50, 1, 1)$ lies on line ℓ_{12}
 151 : $P_{11508} = (51, 50, 1, 1)$ lies on line ℓ_6
 152 : $P_{11509} = (52, 50, 1, 1)$ lies on line ℓ_9
 153 : $P_{11533} = (12, 51, 1, 1)$ lies on line ℓ_9
 154 : $P_{11571} = (50, 51, 1, 1)$ lies on line ℓ_6
 155 : $P_{11583} = (62, 51, 1, 1)$ lies on line ℓ_{12}
 156 : $P_{11592} = (7, 52, 1, 1)$ lies on line ℓ_9
 157 : $P_{11635} = (50, 52, 1, 1)$ lies on line ℓ_{12}
 158 : $P_{11638} = (53, 52, 1, 1)$ lies on line ℓ_6
 159 : $P_{11660} = (11, 53, 1, 1)$ lies on line ℓ_{12}
 160 : $P_{11701} = (52, 53, 1, 1)$ lies on line ℓ_6
 161 : $P_{11712} = (63, 53, 1, 1)$ lies on line ℓ_9
 162 : $P_{11735} = (22, 54, 1, 1)$ lies on line ℓ_9
 163 : $P_{11746} = (33, 54, 1, 1)$ lies on line ℓ_{12}
 164 : $P_{11768} = (55, 54, 1, 1)$ lies on line ℓ_6
 165 : $P_{11801} = (24, 55, 1, 1)$ lies on line ℓ_{12}
 166 : $P_{11823} = (46, 55, 1, 1)$ lies on line ℓ_9
 167 : $P_{11831} = (54, 55, 1, 1)$ lies on line ℓ_6
 168 : $P_{11986} = (17, 58, 1, 1)$ lies on line ℓ_9
 169 : $P_{12011} = (42, 58, 1, 1)$ lies on line ℓ_{12}
 170 : $P_{12028} = (59, 58, 1, 1)$ lies on line ℓ_6
 171 : $P_{12052} = (19, 59, 1, 1)$ lies on line ℓ_{12}
 172 : $P_{12074} = (41, 59, 1, 1)$ lies on line ℓ_9
 173 : $P_{12091} = (58, 59, 1, 1)$ lies on line ℓ_6

174 : $P_{12128} = (31, 60, 1, 1)$ lies on line ℓ_{12}
 175 : $P_{12131} = (34, 60, 1, 1)$ lies on line ℓ_9
 176 : $P_{12158} = (61, 60, 1, 1)$ lies on line ℓ_6
 177 : $P_{12187} = (26, 61, 1, 1)$ lies on line ℓ_9
 178 : $P_{12199} = (38, 61, 1, 1)$ lies on line ℓ_{12}
 179 : $P_{12221} = (60, 61, 1, 1)$ lies on line ℓ_6
 180 : $P_{12237} = (12, 62, 1, 1)$ lies on line ℓ_{12}
 181 : $P_{12276} = (51, 62, 1, 1)$ lies on line ℓ_9
 182 : $P_{12288} = (63, 62, 1, 1)$ lies on line ℓ_6
 183 : $P_{12300} = (11, 63, 1, 1)$ lies on line ℓ_9
 184 : $P_{12342} = (53, 63, 1, 1)$ lies on line ℓ_{12}
 185 : $P_{12351} = (62, 63, 1, 1)$ lies on line ℓ_6
 186 : $P_{12354} = (1, 0, 2, 1)$ lies on line ℓ_0
 187 : $P_{12409} = (56, 0, 2, 1)$ lies on line ℓ_1
 188 : $P_{12410} = (57, 0, 2, 1)$ lies on line ℓ_2
 189 : $P_{12417} = (0, 1, 2, 1)$ lies on line ℓ_3
 190 : $P_{15937} = (0, 56, 2, 1)$ lies on line ℓ_4
 191 : $P_{16001} = (0, 57, 2, 1)$ lies on line ℓ_5
 192 : $P_{16450} = (1, 0, 3, 1)$ lies on line ℓ_0
 193 : $P_{16505} = (56, 0, 3, 1)$ lies on line ℓ_1
 194 : $P_{16506} = (57, 0, 3, 1)$ lies on line ℓ_2
 195 : $P_{16513} = (0, 1, 3, 1)$ lies on line ℓ_3
 196 : $P_{20033} = (0, 56, 3, 1)$ lies on line ℓ_4
 197 : $P_{20097} = (0, 57, 3, 1)$ lies on line ℓ_5
 198 : $P_{20546} = (1, 0, 4, 1)$ lies on line ℓ_0
 199 : $P_{20601} = (56, 0, 4, 1)$ lies on line ℓ_1
 200 : $P_{20602} = (57, 0, 4, 1)$ lies on line ℓ_2
 201 : $P_{20609} = (0, 1, 4, 1)$ lies on line ℓ_3
 202 : $P_{24129} = (0, 56, 4, 1)$ lies on line ℓ_4
 203 : $P_{24193} = (0, 57, 4, 1)$ lies on line ℓ_5
 204 : $P_{24642} = (1, 0, 5, 1)$ lies on line ℓ_0
 205 : $P_{24697} = (56, 0, 5, 1)$ lies on line ℓ_1
 206 : $P_{24698} = (57, 0, 5, 1)$ lies on line ℓ_2
 207 : $P_{24705} = (0, 1, 5, 1)$ lies on line ℓ_3
 208 : $P_{28225} = (0, 56, 5, 1)$ lies on line ℓ_4
 209 : $P_{28289} = (0, 57, 5, 1)$ lies on line ℓ_5
 210 : $P_{28738} = (1, 0, 6, 1)$ lies on line ℓ_0
 211 : $P_{28793} = (56, 0, 6, 1)$ lies on line ℓ_1
 212 : $P_{28794} = (57, 0, 6, 1)$ lies on line ℓ_2
 213 : $P_{28801} = (0, 1, 6, 1)$ lies on line ℓ_3
 214 : $P_{32321} = (0, 56, 6, 1)$ lies on line ℓ_4
 215 : $P_{32385} = (0, 57, 6, 1)$ lies on line ℓ_5
 216 : $P_{32834} = (1, 0, 7, 1)$ lies on line ℓ_0
 217 : $P_{32889} = (56, 0, 7, 1)$ lies on line ℓ_1
 218 : $P_{32890} = (57, 0, 7, 1)$ lies on line ℓ_2
 219 : $P_{32897} = (0, 1, 7, 1)$ lies on line ℓ_3
 220 : $P_{36417} = (0, 56, 7, 1)$ lies on line ℓ_4
 221 : $P_{36481} = (0, 57, 7, 1)$ lies on line ℓ_5
 222 : $P_{36930} = (1, 0, 8, 1)$ lies on line ℓ_0
 223 : $P_{36985} = (56, 0, 8, 1)$ lies on line ℓ_1
 224 : $P_{36986} = (57, 0, 8, 1)$ lies on line ℓ_2
 225 : $P_{36993} = (0, 1, 8, 1)$ lies on line ℓ_3
 226 : $P_{40513} = (0, 56, 8, 1)$ lies on line ℓ_4
 227 : $P_{40577} = (0, 57, 8, 1)$ lies on line ℓ_5

228 : $P_{41026} = (1, 0, 9, 1)$ lies on line ℓ_0
 229 : $P_{41081} = (56, 0, 9, 1)$ lies on line ℓ_1
 230 : $P_{41082} = (57, 0, 9, 1)$ lies on line ℓ_2
 231 : $P_{41089} = (0, 1, 9, 1)$ lies on line ℓ_3
 232 : $P_{44609} = (0, 56, 9, 1)$ lies on line ℓ_4
 233 : $P_{44673} = (0, 57, 9, 1)$ lies on line ℓ_5
 234 : $P_{45122} = (1, 0, 10, 1)$ lies on line ℓ_0
 235 : $P_{45177} = (56, 0, 10, 1)$ lies on line ℓ_1
 236 : $P_{45178} = (57, 0, 10, 1)$ lies on line ℓ_2
 237 : $P_{45185} = (0, 1, 10, 1)$ lies on line ℓ_3
 238 : $P_{48705} = (0, 56, 10, 1)$ lies on line ℓ_4
 239 : $P_{48769} = (0, 57, 10, 1)$ lies on line ℓ_5
 240 : $P_{49218} = (1, 0, 11, 1)$ lies on line ℓ_0
 241 : $P_{49273} = (56, 0, 11, 1)$ lies on line ℓ_1
 242 : $P_{49274} = (57, 0, 11, 1)$ lies on line ℓ_2
 243 : $P_{49281} = (0, 1, 11, 1)$ lies on line ℓ_3
 244 : $P_{52801} = (0, 56, 11, 1)$ lies on line ℓ_4
 245 : $P_{52865} = (0, 57, 11, 1)$ lies on line ℓ_5
 246 : $P_{53314} = (1, 0, 12, 1)$ lies on line ℓ_0
 247 : $P_{53369} = (56, 0, 12, 1)$ lies on line ℓ_1
 248 : $P_{53370} = (57, 0, 12, 1)$ lies on line ℓ_2
 249 : $P_{53377} = (0, 1, 12, 1)$ lies on line ℓ_3
 250 : $P_{56897} = (0, 56, 12, 1)$ lies on line ℓ_4
 251 : $P_{56961} = (0, 57, 12, 1)$ lies on line ℓ_5
 252 : $P_{57410} = (1, 0, 13, 1)$ lies on line ℓ_0
 253 : $P_{57465} = (56, 0, 13, 1)$ lies on line ℓ_1
 254 : $P_{57466} = (57, 0, 13, 1)$ lies on line ℓ_2
 255 : $P_{57473} = (0, 1, 13, 1)$ lies on line ℓ_3
 256 : $P_{60993} = (0, 56, 13, 1)$ lies on line ℓ_4
 257 : $P_{61057} = (0, 57, 13, 1)$ lies on line ℓ_5
 258 : $P_{61506} = (1, 0, 14, 1)$ lies on line ℓ_0
 259 : $P_{61561} = (56, 0, 14, 1)$ lies on line ℓ_1
 260 : $P_{61562} = (57, 0, 14, 1)$ lies on line ℓ_2
 261 : $P_{61569} = (0, 1, 14, 1)$ lies on line ℓ_3
 262 : $P_{65089} = (0, 56, 14, 1)$ lies on line ℓ_4
 263 : $P_{65153} = (0, 57, 14, 1)$ lies on line ℓ_5
 264 : $P_{65602} = (1, 0, 15, 1)$ lies on line ℓ_0
 265 : $P_{65657} = (56, 0, 15, 1)$ lies on line ℓ_1
 266 : $P_{65658} = (57, 0, 15, 1)$ lies on line ℓ_2
 267 : $P_{65665} = (0, 1, 15, 1)$ lies on line ℓ_3
 268 : $P_{69185} = (0, 56, 15, 1)$ lies on line ℓ_4
 269 : $P_{69249} = (0, 57, 15, 1)$ lies on line ℓ_5
 270 : $P_{69698} = (1, 0, 16, 1)$ lies on line ℓ_0
 271 : $P_{69753} = (56, 0, 16, 1)$ lies on line ℓ_1
 272 : $P_{69754} = (57, 0, 16, 1)$ lies on line ℓ_2
 273 : $P_{69761} = (0, 1, 16, 1)$ lies on line ℓ_3
 274 : $P_{73281} = (0, 56, 16, 1)$ lies on line ℓ_4
 275 : $P_{73345} = (0, 57, 16, 1)$ lies on line ℓ_5
 276 : $P_{73794} = (1, 0, 17, 1)$ lies on line ℓ_0
 277 : $P_{73849} = (56, 0, 17, 1)$ lies on line ℓ_1
 278 : $P_{73850} = (57, 0, 17, 1)$ lies on line ℓ_2
 279 : $P_{73857} = (0, 1, 17, 1)$ lies on line ℓ_3
 280 : $P_{77377} = (0, 56, 17, 1)$ lies on line ℓ_4
 281 : $P_{77441} = (0, 57, 17, 1)$ lies on line ℓ_5

282 : $P_{77890} = (1, 0, 18, 1)$ lies on line ℓ_0
 283 : $P_{77945} = (56, 0, 18, 1)$ lies on line ℓ_1
 284 : $P_{77946} = (57, 0, 18, 1)$ lies on line ℓ_2
 285 : $P_{77953} = (0, 1, 18, 1)$ lies on line ℓ_3
 286 : $P_{81473} = (0, 56, 18, 1)$ lies on line ℓ_4
 287 : $P_{81537} = (0, 57, 18, 1)$ lies on line ℓ_5
 288 : $P_{81986} = (1, 0, 19, 1)$ lies on line ℓ_0
 289 : $P_{82041} = (56, 0, 19, 1)$ lies on line ℓ_1
 290 : $P_{82042} = (57, 0, 19, 1)$ lies on line ℓ_2
 291 : $P_{82049} = (0, 1, 19, 1)$ lies on line ℓ_3
 292 : $P_{85569} = (0, 56, 19, 1)$ lies on line ℓ_4
 293 : $P_{85633} = (0, 57, 19, 1)$ lies on line ℓ_5
 294 : $P_{86082} = (1, 0, 20, 1)$ lies on line ℓ_0
 295 : $P_{86137} = (56, 0, 20, 1)$ lies on line ℓ_1
 296 : $P_{86138} = (57, 0, 20, 1)$ lies on line ℓ_2
 297 : $P_{86145} = (0, 1, 20, 1)$ lies on line ℓ_3
 298 : $P_{89665} = (0, 56, 20, 1)$ lies on line ℓ_4
 299 : $P_{89729} = (0, 57, 20, 1)$ lies on line ℓ_5
 300 : $P_{90178} = (1, 0, 21, 1)$ lies on line ℓ_0
 301 : $P_{90233} = (56, 0, 21, 1)$ lies on line ℓ_1
 302 : $P_{90234} = (57, 0, 21, 1)$ lies on line ℓ_2
 303 : $P_{90241} = (0, 1, 21, 1)$ lies on line ℓ_3
 304 : $P_{93761} = (0, 56, 21, 1)$ lies on line ℓ_4
 305 : $P_{93825} = (0, 57, 21, 1)$ lies on line ℓ_5
 306 : $P_{94274} = (1, 0, 22, 1)$ lies on line ℓ_0
 307 : $P_{94329} = (56, 0, 22, 1)$ lies on line ℓ_1
 308 : $P_{94330} = (57, 0, 22, 1)$ lies on line ℓ_2
 309 : $P_{94337} = (0, 1, 22, 1)$ lies on line ℓ_3
 310 : $P_{97857} = (0, 56, 22, 1)$ lies on line ℓ_4
 311 : $P_{97921} = (0, 57, 22, 1)$ lies on line ℓ_5
 312 : $P_{98370} = (1, 0, 23, 1)$ lies on line ℓ_0
 313 : $P_{98425} = (56, 0, 23, 1)$ lies on line ℓ_1
 314 : $P_{98426} = (57, 0, 23, 1)$ lies on line ℓ_2
 315 : $P_{98433} = (0, 1, 23, 1)$ lies on line ℓ_3
 316 : $P_{101953} = (0, 56, 23, 1)$ lies on line ℓ_4
 317 : $P_{102017} = (0, 57, 23, 1)$ lies on line ℓ_5
 318 : $P_{102466} = (1, 0, 24, 1)$ lies on line ℓ_0
 319 : $P_{102521} = (56, 0, 24, 1)$ lies on line ℓ_1
 320 : $P_{102522} = (57, 0, 24, 1)$ lies on line ℓ_2
 321 : $P_{102529} = (0, 1, 24, 1)$ lies on line ℓ_3
 322 : $P_{106049} = (0, 56, 24, 1)$ lies on line ℓ_4
 323 : $P_{106113} = (0, 57, 24, 1)$ lies on line ℓ_5
 324 : $P_{106562} = (1, 0, 25, 1)$ lies on line ℓ_0
 325 : $P_{106617} = (56, 0, 25, 1)$ lies on line ℓ_1
 326 : $P_{106618} = (57, 0, 25, 1)$ lies on line ℓ_2
 327 : $P_{106625} = (0, 1, 25, 1)$ lies on line ℓ_3
 328 : $P_{110145} = (0, 56, 25, 1)$ lies on line ℓ_4
 329 : $P_{110209} = (0, 57, 25, 1)$ lies on line ℓ_5
 330 : $P_{110658} = (1, 0, 26, 1)$ lies on line ℓ_0
 331 : $P_{110713} = (56, 0, 26, 1)$ lies on line ℓ_1
 332 : $P_{110714} = (57, 0, 26, 1)$ lies on line ℓ_2
 333 : $P_{110721} = (0, 1, 26, 1)$ lies on line ℓ_3
 334 : $P_{114241} = (0, 56, 26, 1)$ lies on line ℓ_4
 335 : $P_{114305} = (0, 57, 26, 1)$ lies on line ℓ_5

336 : $P_{114754} = (1, 0, 27, 1)$ lies on line ℓ_0
 337 : $P_{114809} = (56, 0, 27, 1)$ lies on line ℓ_1
 338 : $P_{114810} = (57, 0, 27, 1)$ lies on line ℓ_2
 339 : $P_{114817} = (0, 1, 27, 1)$ lies on line ℓ_3
 340 : $P_{118337} = (0, 56, 27, 1)$ lies on line ℓ_4
 341 : $P_{118401} = (0, 57, 27, 1)$ lies on line ℓ_5
 342 : $P_{118850} = (1, 0, 28, 1)$ lies on line ℓ_0
 343 : $P_{118905} = (56, 0, 28, 1)$ lies on line ℓ_1
 344 : $P_{118906} = (57, 0, 28, 1)$ lies on line ℓ_2
 345 : $P_{118913} = (0, 1, 28, 1)$ lies on line ℓ_3
 346 : $P_{122433} = (0, 56, 28, 1)$ lies on line ℓ_4
 347 : $P_{122497} = (0, 57, 28, 1)$ lies on line ℓ_5
 348 : $P_{122946} = (1, 0, 29, 1)$ lies on line ℓ_0
 349 : $P_{123001} = (56, 0, 29, 1)$ lies on line ℓ_1
 350 : $P_{123002} = (57, 0, 29, 1)$ lies on line ℓ_2
 351 : $P_{123009} = (0, 1, 29, 1)$ lies on line ℓ_3
 352 : $P_{126529} = (0, 56, 29, 1)$ lies on line ℓ_4
 353 : $P_{126593} = (0, 57, 29, 1)$ lies on line ℓ_5
 354 : $P_{127042} = (1, 0, 30, 1)$ lies on line ℓ_0
 355 : $P_{127097} = (56, 0, 30, 1)$ lies on line ℓ_1
 356 : $P_{127098} = (57, 0, 30, 1)$ lies on line ℓ_2
 357 : $P_{127105} = (0, 1, 30, 1)$ lies on line ℓ_3
 358 : $P_{130625} = (0, 56, 30, 1)$ lies on line ℓ_4
 359 : $P_{130689} = (0, 57, 30, 1)$ lies on line ℓ_5
 360 : $P_{131138} = (1, 0, 31, 1)$ lies on line ℓ_0
 361 : $P_{131193} = (56, 0, 31, 1)$ lies on line ℓ_1
 362 : $P_{131194} = (57, 0, 31, 1)$ lies on line ℓ_2
 363 : $P_{131201} = (0, 1, 31, 1)$ lies on line ℓ_3
 364 : $P_{134721} = (0, 56, 31, 1)$ lies on line ℓ_4
 365 : $P_{134785} = (0, 57, 31, 1)$ lies on line ℓ_5
 366 : $P_{135234} = (1, 0, 32, 1)$ lies on line ℓ_0
 367 : $P_{135289} = (56, 0, 32, 1)$ lies on line ℓ_1
 368 : $P_{135290} = (57, 0, 32, 1)$ lies on line ℓ_2
 369 : $P_{135297} = (0, 1, 32, 1)$ lies on line ℓ_3
 370 : $P_{138817} = (0, 56, 32, 1)$ lies on line ℓ_4
 371 : $P_{138881} = (0, 57, 32, 1)$ lies on line ℓ_5
 372 : $P_{139330} = (1, 0, 33, 1)$ lies on line ℓ_0
 373 : $P_{139385} = (56, 0, 33, 1)$ lies on line ℓ_1
 374 : $P_{139386} = (57, 0, 33, 1)$ lies on line ℓ_2
 375 : $P_{139393} = (0, 1, 33, 1)$ lies on line ℓ_3
 376 : $P_{142913} = (0, 56, 33, 1)$ lies on line ℓ_4
 377 : $P_{142977} = (0, 57, 33, 1)$ lies on line ℓ_5
 378 : $P_{143426} = (1, 0, 34, 1)$ lies on line ℓ_0
 379 : $P_{143481} = (56, 0, 34, 1)$ lies on line ℓ_1
 380 : $P_{143482} = (57, 0, 34, 1)$ lies on line ℓ_2
 381 : $P_{143489} = (0, 1, 34, 1)$ lies on line ℓ_3
 382 : $P_{147009} = (0, 56, 34, 1)$ lies on line ℓ_4
 383 : $P_{147073} = (0, 57, 34, 1)$ lies on line ℓ_5
 384 : $P_{147522} = (1, 0, 35, 1)$ lies on line ℓ_0
 385 : $P_{147577} = (56, 0, 35, 1)$ lies on line ℓ_1
 386 : $P_{147578} = (57, 0, 35, 1)$ lies on line ℓ_2
 387 : $P_{147585} = (0, 1, 35, 1)$ lies on line ℓ_3
 388 : $P_{151105} = (0, 56, 35, 1)$ lies on line ℓ_4
 389 : $P_{151169} = (0, 57, 35, 1)$ lies on line ℓ_5

390 : $P_{151618} = (1, 0, 36, 1)$ lies on line ℓ_0
 391 : $P_{151673} = (56, 0, 36, 1)$ lies on line ℓ_1
 392 : $P_{151674} = (57, 0, 36, 1)$ lies on line ℓ_2
 393 : $P_{151681} = (0, 1, 36, 1)$ lies on line ℓ_3
 394 : $P_{155201} = (0, 56, 36, 1)$ lies on line ℓ_4
 395 : $P_{155265} = (0, 57, 36, 1)$ lies on line ℓ_5
 396 : $P_{155714} = (1, 0, 37, 1)$ lies on line ℓ_0
 397 : $P_{155769} = (56, 0, 37, 1)$ lies on line ℓ_1
 398 : $P_{155770} = (57, 0, 37, 1)$ lies on line ℓ_2
 399 : $P_{155777} = (0, 1, 37, 1)$ lies on line ℓ_3
 400 : $P_{159297} = (0, 56, 37, 1)$ lies on line ℓ_4
 401 : $P_{159361} = (0, 57, 37, 1)$ lies on line ℓ_5
 402 : $P_{159810} = (1, 0, 38, 1)$ lies on line ℓ_0
 403 : $P_{159865} = (56, 0, 38, 1)$ lies on line ℓ_1
 404 : $P_{159866} = (57, 0, 38, 1)$ lies on line ℓ_2
 405 : $P_{159873} = (0, 1, 38, 1)$ lies on line ℓ_3
 406 : $P_{163393} = (0, 56, 38, 1)$ lies on line ℓ_4
 407 : $P_{163457} = (0, 57, 38, 1)$ lies on line ℓ_5
 408 : $P_{163906} = (1, 0, 39, 1)$ lies on line ℓ_0
 409 : $P_{163961} = (56, 0, 39, 1)$ lies on line ℓ_1
 410 : $P_{163962} = (57, 0, 39, 1)$ lies on line ℓ_2
 411 : $P_{163969} = (0, 1, 39, 1)$ lies on line ℓ_3
 412 : $P_{167489} = (0, 56, 39, 1)$ lies on line ℓ_4
 413 : $P_{167553} = (0, 57, 39, 1)$ lies on line ℓ_5
 414 : $P_{168002} = (1, 0, 40, 1)$ lies on line ℓ_0
 415 : $P_{168057} = (56, 0, 40, 1)$ lies on line ℓ_1
 416 : $P_{168058} = (57, 0, 40, 1)$ lies on line ℓ_2
 417 : $P_{168065} = (0, 1, 40, 1)$ lies on line ℓ_3
 418 : $P_{171585} = (0, 56, 40, 1)$ lies on line ℓ_4
 419 : $P_{171649} = (0, 57, 40, 1)$ lies on line ℓ_5
 420 : $P_{172098} = (1, 0, 41, 1)$ lies on line ℓ_0
 421 : $P_{172153} = (56, 0, 41, 1)$ lies on line ℓ_1
 422 : $P_{172154} = (57, 0, 41, 1)$ lies on line ℓ_2
 423 : $P_{172161} = (0, 1, 41, 1)$ lies on line ℓ_3
 424 : $P_{175681} = (0, 56, 41, 1)$ lies on line ℓ_4
 425 : $P_{175745} = (0, 57, 41, 1)$ lies on line ℓ_5
 426 : $P_{176194} = (1, 0, 42, 1)$ lies on line ℓ_0
 427 : $P_{176249} = (56, 0, 42, 1)$ lies on line ℓ_1
 428 : $P_{176250} = (57, 0, 42, 1)$ lies on line ℓ_2
 429 : $P_{176257} = (0, 1, 42, 1)$ lies on line ℓ_3
 430 : $P_{179777} = (0, 56, 42, 1)$ lies on line ℓ_4
 431 : $P_{179841} = (0, 57, 42, 1)$ lies on line ℓ_5
 432 : $P_{180290} = (1, 0, 43, 1)$ lies on line ℓ_0
 433 : $P_{180345} = (56, 0, 43, 1)$ lies on line ℓ_1
 434 : $P_{180346} = (57, 0, 43, 1)$ lies on line ℓ_2
 435 : $P_{180353} = (0, 1, 43, 1)$ lies on line ℓ_3
 436 : $P_{183873} = (0, 56, 43, 1)$ lies on line ℓ_4
 437 : $P_{183937} = (0, 57, 43, 1)$ lies on line ℓ_5
 438 : $P_{184386} = (1, 0, 44, 1)$ lies on line ℓ_0
 439 : $P_{184441} = (56, 0, 44, 1)$ lies on line ℓ_1
 440 : $P_{184442} = (57, 0, 44, 1)$ lies on line ℓ_2
 441 : $P_{184449} = (0, 1, 44, 1)$ lies on line ℓ_3
 442 : $P_{187969} = (0, 56, 44, 1)$ lies on line ℓ_4
 443 : $P_{188033} = (0, 57, 44, 1)$ lies on line ℓ_5

444 : $P_{188482} = (1, 0, 45, 1)$ lies on line ℓ_0
 445 : $P_{188537} = (56, 0, 45, 1)$ lies on line ℓ_1
 446 : $P_{188538} = (57, 0, 45, 1)$ lies on line ℓ_2
 447 : $P_{188545} = (0, 1, 45, 1)$ lies on line ℓ_3
 448 : $P_{192065} = (0, 56, 45, 1)$ lies on line ℓ_4
 449 : $P_{192129} = (0, 57, 45, 1)$ lies on line ℓ_5
 450 : $P_{192578} = (1, 0, 46, 1)$ lies on line ℓ_0
 451 : $P_{192633} = (56, 0, 46, 1)$ lies on line ℓ_1
 452 : $P_{192634} = (57, 0, 46, 1)$ lies on line ℓ_2
 453 : $P_{192641} = (0, 1, 46, 1)$ lies on line ℓ_3
 454 : $P_{196161} = (0, 56, 46, 1)$ lies on line ℓ_4
 455 : $P_{196225} = (0, 57, 46, 1)$ lies on line ℓ_5
 456 : $P_{196674} = (1, 0, 47, 1)$ lies on line ℓ_0
 457 : $P_{196729} = (56, 0, 47, 1)$ lies on line ℓ_1
 458 : $P_{196730} = (57, 0, 47, 1)$ lies on line ℓ_2
 459 : $P_{196737} = (0, 1, 47, 1)$ lies on line ℓ_3
 460 : $P_{200257} = (0, 56, 47, 1)$ lies on line ℓ_4
 461 : $P_{200321} = (0, 57, 47, 1)$ lies on line ℓ_5
 462 : $P_{200770} = (1, 0, 48, 1)$ lies on line ℓ_0
 463 : $P_{200825} = (56, 0, 48, 1)$ lies on line ℓ_1
 464 : $P_{200826} = (57, 0, 48, 1)$ lies on line ℓ_2
 465 : $P_{200833} = (0, 1, 48, 1)$ lies on line ℓ_3
 466 : $P_{204353} = (0, 56, 48, 1)$ lies on line ℓ_4
 467 : $P_{204417} = (0, 57, 48, 1)$ lies on line ℓ_5
 468 : $P_{204866} = (1, 0, 49, 1)$ lies on line ℓ_0
 469 : $P_{204921} = (56, 0, 49, 1)$ lies on line ℓ_1
 470 : $P_{204922} = (57, 0, 49, 1)$ lies on line ℓ_2
 471 : $P_{204929} = (0, 1, 49, 1)$ lies on line ℓ_3
 472 : $P_{208449} = (0, 56, 49, 1)$ lies on line ℓ_4
 473 : $P_{208513} = (0, 57, 49, 1)$ lies on line ℓ_5
 474 : $P_{208962} = (1, 0, 50, 1)$ lies on line ℓ_0
 475 : $P_{209017} = (56, 0, 50, 1)$ lies on line ℓ_1
 476 : $P_{209018} = (57, 0, 50, 1)$ lies on line ℓ_2
 477 : $P_{209025} = (0, 1, 50, 1)$ lies on line ℓ_3
 478 : $P_{212545} = (0, 56, 50, 1)$ lies on line ℓ_4
 479 : $P_{212609} = (0, 57, 50, 1)$ lies on line ℓ_5
 480 : $P_{213058} = (1, 0, 51, 1)$ lies on line ℓ_0
 481 : $P_{213113} = (56, 0, 51, 1)$ lies on line ℓ_1
 482 : $P_{213114} = (57, 0, 51, 1)$ lies on line ℓ_2
 483 : $P_{213121} = (0, 1, 51, 1)$ lies on line ℓ_3
 484 : $P_{216641} = (0, 56, 51, 1)$ lies on line ℓ_4
 485 : $P_{216705} = (0, 57, 51, 1)$ lies on line ℓ_5
 486 : $P_{217154} = (1, 0, 52, 1)$ lies on line ℓ_0
 487 : $P_{217209} = (56, 0, 52, 1)$ lies on line ℓ_1
 488 : $P_{217210} = (57, 0, 52, 1)$ lies on line ℓ_2
 489 : $P_{217217} = (0, 1, 52, 1)$ lies on line ℓ_3
 490 : $P_{220737} = (0, 56, 52, 1)$ lies on line ℓ_4
 491 : $P_{220801} = (0, 57, 52, 1)$ lies on line ℓ_5
 492 : $P_{221250} = (1, 0, 53, 1)$ lies on line ℓ_0
 493 : $P_{221305} = (56, 0, 53, 1)$ lies on line ℓ_1
 494 : $P_{221306} = (57, 0, 53, 1)$ lies on line ℓ_2
 495 : $P_{221313} = (0, 1, 53, 1)$ lies on line ℓ_3
 496 : $P_{224833} = (0, 56, 53, 1)$ lies on line ℓ_4
 497 : $P_{224897} = (0, 57, 53, 1)$ lies on line ℓ_5

498 : $P_{225346} = (1, 0, 54, 1)$ lies on line ℓ_0
 499 : $P_{225401} = (56, 0, 54, 1)$ lies on line ℓ_1
 500 : $P_{225402} = (57, 0, 54, 1)$ lies on line ℓ_2
 501 : $P_{225409} = (0, 1, 54, 1)$ lies on line ℓ_3
 502 : $P_{228929} = (0, 56, 54, 1)$ lies on line ℓ_4
 503 : $P_{228993} = (0, 57, 54, 1)$ lies on line ℓ_5
 504 : $P_{229442} = (1, 0, 55, 1)$ lies on line ℓ_0
 505 : $P_{229497} = (56, 0, 55, 1)$ lies on line ℓ_1
 506 : $P_{229498} = (57, 0, 55, 1)$ lies on line ℓ_2
 507 : $P_{229505} = (0, 1, 55, 1)$ lies on line ℓ_3
 508 : $P_{233025} = (0, 56, 55, 1)$ lies on line ℓ_4
 509 : $P_{233089} = (0, 57, 55, 1)$ lies on line ℓ_5
 510 : $P_{233681} = (16, 2, 56, 1)$ lies on line ℓ_{10}
 511 : $P_{233707} = (42, 2, 56, 1)$ lies on line ℓ_{13}
 512 : $P_{233723} = (58, 2, 56, 1)$ lies on line ℓ_7
 513 : $P_{233748} = (19, 3, 56, 1)$ lies on line ℓ_{13}
 514 : $P_{233769} = (40, 3, 56, 1)$ lies on line ℓ_{10}
 515 : $P_{233788} = (59, 3, 56, 1)$ lies on line ℓ_7
 516 : $P_{233824} = (31, 4, 56, 1)$ lies on line ℓ_{13}
 517 : $P_{233828} = (35, 4, 56, 1)$ lies on line ℓ_{10}
 518 : $P_{233853} = (60, 4, 56, 1)$ lies on line ℓ_7
 519 : $P_{233884} = (27, 5, 56, 1)$ lies on line ℓ_{10}
 520 : $P_{233895} = (38, 5, 56, 1)$ lies on line ℓ_{13}
 521 : $P_{233918} = (61, 5, 56, 1)$ lies on line ℓ_7
 522 : $P_{233933} = (12, 6, 56, 1)$ lies on line ℓ_{13}
 523 : $P_{233971} = (50, 6, 56, 1)$ lies on line ℓ_{10}
 524 : $P_{233983} = (62, 6, 56, 1)$ lies on line ℓ_7
 525 : $P_{233995} = (10, 7, 56, 1)$ lies on line ℓ_{10}
 526 : $P_{234038} = (53, 7, 56, 1)$ lies on line ℓ_{13}
 527 : $P_{234048} = (63, 7, 56, 1)$ lies on line ℓ_7
 528 : $P_{234069} = (20, 8, 56, 1)$ lies on line ℓ_{13}
 529 : $P_{234085} = (36, 8, 56, 1)$ lies on line ℓ_{10}
 530 : $P_{234097} = (48, 8, 56, 1)$ lies on line ℓ_7
 531 : $P_{234141} = (28, 9, 56, 1)$ lies on line ℓ_{10}
 532 : $P_{234158} = (45, 9, 56, 1)$ lies on line ℓ_{13}
 533 : $P_{234162} = (49, 9, 56, 1)$ lies on line ℓ_7
 534 : $P_{234184} = (7, 10, 56, 1)$ lies on line ℓ_{13}
 535 : $P_{234227} = (50, 10, 56, 1)$ lies on line ℓ_7
 536 : $P_{234230} = (53, 10, 56, 1)$ lies on line ℓ_{10}
 537 : $P_{234254} = (13, 11, 56, 1)$ lies on line ℓ_{10}
 538 : $P_{234292} = (51, 11, 56, 1)$ lies on line ℓ_7
 539 : $P_{234303} = (62, 11, 56, 1)$ lies on line ℓ_{13}
 540 : $P_{234311} = (6, 12, 56, 1)$ lies on line ℓ_{10}
 541 : $P_{234355} = (50, 12, 56, 1)$ lies on line ℓ_{13}
 542 : $P_{234357} = (52, 12, 56, 1)$ lies on line ℓ_7
 543 : $P_{234380} = (11, 13, 56, 1)$ lies on line ℓ_{13}
 544 : $P_{234422} = (53, 13, 56, 1)$ lies on line ℓ_7
 545 : $P_{234431} = (62, 13, 56, 1)$ lies on line ℓ_{10}
 546 : $P_{234456} = (23, 14, 56, 1)$ lies on line ℓ_{10}
 547 : $P_{234466} = (33, 14, 56, 1)$ lies on line ℓ_{13}
 548 : $P_{234487} = (54, 14, 56, 1)$ lies on line ℓ_7
 549 : $P_{234521} = (24, 15, 56, 1)$ lies on line ℓ_{13}
 550 : $P_{234544} = (47, 15, 56, 1)$ lies on line ℓ_{10}
 551 : $P_{234552} = (55, 15, 56, 1)$ lies on line ℓ_7

552 : $P_{234563} = (2, 16, 56, 1)$ lies on line ℓ_{13}
 553 : $P_{234601} = (40, 16, 56, 1)$ lies on line ℓ_7
 554 : $P_{234603} = (42, 16, 56, 1)$ lies on line ℓ_{10}
 555 : $P_{234643} = (18, 17, 56, 1)$ lies on line ℓ_{10}
 556 : $P_{234666} = (41, 17, 56, 1)$ lies on line ℓ_7
 557 : $P_{234684} = (59, 17, 56, 1)$ lies on line ℓ_{13}
 558 : $P_{234706} = (17, 18, 56, 1)$ lies on line ℓ_{13}
 559 : $P_{234731} = (42, 18, 56, 1)$ lies on line ℓ_7
 560 : $P_{234748} = (59, 18, 56, 1)$ lies on line ℓ_{10}
 561 : $P_{234756} = (3, 19, 56, 1)$ lies on line ℓ_{10}
 562 : $P_{234793} = (40, 19, 56, 1)$ lies on line ℓ_{13}
 563 : $P_{234796} = (43, 19, 56, 1)$ lies on line ℓ_7
 564 : $P_{234825} = (8, 20, 56, 1)$ lies on line ℓ_{10}
 565 : $P_{234853} = (36, 20, 56, 1)$ lies on line ℓ_{13}
 566 : $P_{234861} = (44, 20, 56, 1)$ lies on line ℓ_7
 567 : $P_{234910} = (29, 21, 56, 1)$ lies on line ℓ_{13}
 568 : $P_{234926} = (45, 21, 56, 1)$ lies on line ℓ_7
 569 : $P_{234929} = (48, 21, 56, 1)$ lies on line ℓ_{10}
 570 : $P_{234970} = (25, 22, 56, 1)$ lies on line ℓ_{10}
 571 : $P_{234991} = (46, 22, 56, 1)$ lies on line ℓ_7
 572 : $P_{235000} = (55, 22, 56, 1)$ lies on line ℓ_{13}
 573 : $P_{235023} = (14, 23, 56, 1)$ lies on line ℓ_{13}
 574 : $P_{235042} = (33, 23, 56, 1)$ lies on line ℓ_{10}
 575 : $P_{235056} = (47, 23, 56, 1)$ lies on line ℓ_7
 576 : $P_{235088} = (15, 24, 56, 1)$ lies on line ℓ_{10}
 577 : $P_{235105} = (32, 24, 56, 1)$ lies on line ℓ_7
 578 : $P_{235120} = (47, 24, 56, 1)$ lies on line ℓ_{13}
 579 : $P_{235159} = (22, 25, 56, 1)$ lies on line ℓ_{13}
 580 : $P_{235170} = (33, 25, 56, 1)$ lies on line ℓ_7
 581 : $P_{235192} = (55, 25, 56, 1)$ lies on line ℓ_{10}
 582 : $P_{235231} = (30, 26, 56, 1)$ lies on line ℓ_{10}
 583 : $P_{235235} = (34, 26, 56, 1)$ lies on line ℓ_7
 584 : $P_{235261} = (60, 26, 56, 1)$ lies on line ℓ_{13}
 585 : $P_{235270} = (5, 27, 56, 1)$ lies on line ℓ_{13}
 586 : $P_{235300} = (35, 27, 56, 1)$ lies on line ℓ_7
 587 : $P_{235303} = (38, 27, 56, 1)$ lies on line ℓ_{10}
 588 : $P_{235338} = (9, 28, 56, 1)$ lies on line ℓ_{13}
 589 : $P_{235365} = (36, 28, 56, 1)$ lies on line ℓ_7
 590 : $P_{235374} = (45, 28, 56, 1)$ lies on line ℓ_{10}
 591 : $P_{235414} = (21, 29, 56, 1)$ lies on line ℓ_{10}
 592 : $P_{235430} = (37, 29, 56, 1)$ lies on line ℓ_7
 593 : $P_{235441} = (48, 29, 56, 1)$ lies on line ℓ_{13}
 594 : $P_{235483} = (26, 30, 56, 1)$ lies on line ℓ_{13}
 595 : $P_{235495} = (38, 30, 56, 1)$ lies on line ℓ_7
 596 : $P_{235517} = (60, 30, 56, 1)$ lies on line ℓ_{10}
 597 : $P_{235525} = (4, 31, 56, 1)$ lies on line ℓ_{10}
 598 : $P_{235556} = (35, 31, 56, 1)$ lies on line ℓ_{13}
 599 : $P_{235560} = (39, 31, 56, 1)$ lies on line ℓ_7
 600 : $P_{235609} = (24, 32, 56, 1)$ lies on line ℓ_7
 601 : $P_{235631} = (46, 32, 56, 1)$ lies on line ℓ_{13}
 602 : $P_{235639} = (54, 32, 56, 1)$ lies on line ℓ_{10}
 603 : $P_{235663} = (14, 33, 56, 1)$ lies on line ℓ_{10}
 604 : $P_{235672} = (23, 33, 56, 1)$ lies on line ℓ_{13}
 605 : $P_{235674} = (25, 33, 56, 1)$ lies on line ℓ_7

606 : $P_{235739} = (26, 34, 56, 1)$ lies on line ℓ_7
 607 : $P_{235752} = (39, 34, 56, 1)$ lies on line ℓ_{10}
 608 : $P_{235774} = (61, 34, 56, 1)$ lies on line ℓ_{13}
 609 : $P_{235781} = (4, 35, 56, 1)$ lies on line ℓ_{13}
 610 : $P_{235804} = (27, 35, 56, 1)$ lies on line ℓ_7
 611 : $P_{235808} = (31, 35, 56, 1)$ lies on line ℓ_{10}
 612 : $P_{235849} = (8, 36, 56, 1)$ lies on line ℓ_{13}
 613 : $P_{235861} = (20, 36, 56, 1)$ lies on line ℓ_{10}
 614 : $P_{235869} = (28, 36, 56, 1)$ lies on line ℓ_7
 615 : $P_{235934} = (29, 37, 56, 1)$ lies on line ℓ_7
 616 : $P_{235949} = (44, 37, 56, 1)$ lies on line ℓ_{10}
 617 : $P_{235954} = (49, 37, 56, 1)$ lies on line ℓ_{13}
 618 : $P_{235974} = (5, 38, 56, 1)$ lies on line ℓ_{10}
 619 : $P_{235996} = (27, 38, 56, 1)$ lies on line ℓ_{13}
 620 : $P_{235999} = (30, 38, 56, 1)$ lies on line ℓ_7
 621 : $P_{236064} = (31, 39, 56, 1)$ lies on line ℓ_7
 622 : $P_{236067} = (34, 39, 56, 1)$ lies on line ℓ_{13}
 623 : $P_{236094} = (61, 39, 56, 1)$ lies on line ℓ_{10}
 624 : $P_{236100} = (3, 40, 56, 1)$ lies on line ℓ_{13}
 625 : $P_{236113} = (16, 40, 56, 1)$ lies on line ℓ_7
 626 : $P_{236116} = (19, 40, 56, 1)$ lies on line ℓ_{10}
 627 : $P_{236178} = (17, 41, 56, 1)$ lies on line ℓ_7
 628 : $P_{236204} = (43, 41, 56, 1)$ lies on line ℓ_{10}
 629 : $P_{236219} = (58, 41, 56, 1)$ lies on line ℓ_{13}
 630 : $P_{236227} = (2, 42, 56, 1)$ lies on line ℓ_{10}
 631 : $P_{236241} = (16, 42, 56, 1)$ lies on line ℓ_{13}
 632 : $P_{236243} = (18, 42, 56, 1)$ lies on line ℓ_7
 633 : $P_{236308} = (19, 43, 56, 1)$ lies on line ℓ_7
 634 : $P_{236330} = (41, 43, 56, 1)$ lies on line ℓ_{13}
 635 : $P_{236347} = (58, 43, 56, 1)$ lies on line ℓ_{10}
 636 : $P_{236373} = (20, 44, 56, 1)$ lies on line ℓ_7
 637 : $P_{236390} = (37, 44, 56, 1)$ lies on line ℓ_{13}
 638 : $P_{236402} = (49, 44, 56, 1)$ lies on line ℓ_{10}
 639 : $P_{236426} = (9, 45, 56, 1)$ lies on line ℓ_{10}
 640 : $P_{236438} = (21, 45, 56, 1)$ lies on line ℓ_7
 641 : $P_{236445} = (28, 45, 56, 1)$ lies on line ℓ_{13}
 642 : $P_{236503} = (22, 46, 56, 1)$ lies on line ℓ_7
 643 : $P_{236513} = (32, 46, 56, 1)$ lies on line ℓ_{10}
 644 : $P_{236535} = (54, 46, 56, 1)$ lies on line ℓ_{13}
 645 : $P_{236560} = (15, 47, 56, 1)$ lies on line ℓ_{13}
 646 : $P_{236568} = (23, 47, 56, 1)$ lies on line ℓ_7
 647 : $P_{236569} = (24, 47, 56, 1)$ lies on line ℓ_{10}
 648 : $P_{236617} = (8, 48, 56, 1)$ lies on line ℓ_7
 649 : $P_{236630} = (21, 48, 56, 1)$ lies on line ℓ_{13}
 650 : $P_{236638} = (29, 48, 56, 1)$ lies on line ℓ_{10}
 651 : $P_{236682} = (9, 49, 56, 1)$ lies on line ℓ_7
 652 : $P_{236710} = (37, 49, 56, 1)$ lies on line ℓ_{10}
 653 : $P_{236717} = (44, 49, 56, 1)$ lies on line ℓ_{13}
 654 : $P_{236743} = (6, 50, 56, 1)$ lies on line ℓ_{13}
 655 : $P_{236747} = (10, 50, 56, 1)$ lies on line ℓ_7
 656 : $P_{236749} = (12, 50, 56, 1)$ lies on line ℓ_{10}
 657 : $P_{236812} = (11, 51, 56, 1)$ lies on line ℓ_7
 658 : $P_{236853} = (52, 51, 56, 1)$ lies on line ℓ_{10}
 659 : $P_{236864} = (63, 51, 56, 1)$ lies on line ℓ_{13}

660 : $P_{236877} = (12, 52, 56, 1)$ lies on line ℓ_7
 661 : $P_{236916} = (51, 52, 56, 1)$ lies on line ℓ_{13}
 662 : $P_{236928} = (63, 52, 56, 1)$ lies on line ℓ_{10}
 663 : $P_{236936} = (7, 53, 56, 1)$ lies on line ℓ_{10}
 664 : $P_{236939} = (10, 53, 56, 1)$ lies on line ℓ_{13}
 665 : $P_{236942} = (13, 53, 56, 1)$ lies on line ℓ_7
 666 : $P_{237007} = (14, 54, 56, 1)$ lies on line ℓ_7
 667 : $P_{237025} = (32, 54, 56, 1)$ lies on line ℓ_{13}
 668 : $P_{237039} = (46, 54, 56, 1)$ lies on line ℓ_{10}
 669 : $P_{237072} = (15, 55, 56, 1)$ lies on line ℓ_7
 670 : $P_{237079} = (22, 55, 56, 1)$ lies on line ℓ_{10}
 671 : $P_{237082} = (25, 55, 56, 1)$ lies on line ℓ_{13}
 672 : $P_{237251} = (2, 58, 56, 1)$ lies on line ℓ_7
 673 : $P_{237290} = (41, 58, 56, 1)$ lies on line ℓ_{10}
 674 : $P_{237292} = (43, 58, 56, 1)$ lies on line ℓ_{13}
 675 : $P_{237316} = (3, 59, 56, 1)$ lies on line ℓ_7
 676 : $P_{237330} = (17, 59, 56, 1)$ lies on line ℓ_{10}
 677 : $P_{237331} = (18, 59, 56, 1)$ lies on line ℓ_{13}
 678 : $P_{237381} = (4, 60, 56, 1)$ lies on line ℓ_7
 679 : $P_{237403} = (26, 60, 56, 1)$ lies on line ℓ_{10}
 680 : $P_{237407} = (30, 60, 56, 1)$ lies on line ℓ_{13}
 681 : $P_{237446} = (5, 61, 56, 1)$ lies on line ℓ_7
 682 : $P_{237475} = (34, 61, 56, 1)$ lies on line ℓ_{10}
 683 : $P_{237480} = (39, 61, 56, 1)$ lies on line ℓ_{13}
 684 : $P_{237511} = (6, 62, 56, 1)$ lies on line ℓ_7
 685 : $P_{237516} = (11, 62, 56, 1)$ lies on line ℓ_{10}
 686 : $P_{237518} = (13, 62, 56, 1)$ lies on line ℓ_{13}
 687 : $P_{237576} = (7, 63, 56, 1)$ lies on line ℓ_7
 688 : $P_{237620} = (51, 63, 56, 1)$ lies on line ℓ_{10}
 689 : $P_{237621} = (52, 63, 56, 1)$ lies on line ℓ_{13}
 690 : $P_{237779} = (18, 2, 57, 1)$ lies on line ℓ_{14}
 691 : $P_{237802} = (41, 2, 57, 1)$ lies on line ℓ_{11}
 692 : $P_{237820} = (59, 2, 57, 1)$ lies on line ℓ_8
 693 : $P_{237842} = (17, 3, 57, 1)$ lies on line ℓ_{11}
 694 : $P_{237868} = (43, 3, 57, 1)$ lies on line ℓ_{14}
 695 : $P_{237883} = (58, 3, 57, 1)$ lies on line ℓ_8
 696 : $P_{237915} = (26, 4, 57, 1)$ lies on line ℓ_{11}
 697 : $P_{237928} = (39, 4, 57, 1)$ lies on line ℓ_{14}
 698 : $P_{237950} = (61, 4, 57, 1)$ lies on line ℓ_8
 699 : $P_{237983} = (30, 5, 57, 1)$ lies on line ℓ_{14}
 700 : $P_{237987} = (34, 5, 57, 1)$ lies on line ℓ_{11}
 701 : $P_{238013} = (60, 5, 57, 1)$ lies on line ℓ_8
 702 : $P_{238028} = (11, 6, 57, 1)$ lies on line ℓ_{11}
 703 : $P_{238069} = (52, 6, 57, 1)$ lies on line ℓ_{14}
 704 : $P_{238080} = (63, 6, 57, 1)$ lies on line ℓ_8
 705 : $P_{238094} = (13, 7, 57, 1)$ lies on line ℓ_{14}
 706 : $P_{238132} = (51, 7, 57, 1)$ lies on line ℓ_{11}
 707 : $P_{238143} = (62, 7, 57, 1)$ lies on line ℓ_8
 708 : $P_{238174} = (29, 8, 57, 1)$ lies on line ℓ_{11}
 709 : $P_{238189} = (44, 8, 57, 1)$ lies on line ℓ_{14}
 710 : $P_{238194} = (49, 8, 57, 1)$ lies on line ℓ_8
 711 : $P_{238230} = (21, 9, 57, 1)$ lies on line ℓ_{14}
 712 : $P_{238246} = (37, 9, 57, 1)$ lies on line ℓ_{11}
 713 : $P_{238257} = (48, 9, 57, 1)$ lies on line ℓ_8

714 : $P_{238285} = (12, 10, 57, 1)$ lies on line ℓ_{11}
 715 : $P_{238324} = (51, 10, 57, 1)$ lies on line ℓ_8
 716 : $P_{238336} = (63, 10, 57, 1)$ lies on line ℓ_{14}
 717 : $P_{238343} = (6, 11, 57, 1)$ lies on line ℓ_{14}
 718 : $P_{238387} = (50, 11, 57, 1)$ lies on line ℓ_8
 719 : $P_{238389} = (52, 11, 57, 1)$ lies on line ℓ_{11}
 720 : $P_{238411} = (10, 12, 57, 1)$ lies on line ℓ_{14}
 721 : $P_{238454} = (53, 12, 57, 1)$ lies on line ℓ_8
 722 : $P_{238464} = (63, 12, 57, 1)$ lies on line ℓ_{11}
 723 : $P_{238472} = (7, 13, 57, 1)$ lies on line ℓ_{11}
 724 : $P_{238516} = (51, 13, 57, 1)$ lies on line ℓ_{14}
 725 : $P_{238517} = (52, 13, 57, 1)$ lies on line ℓ_8
 726 : $P_{238554} = (25, 14, 57, 1)$ lies on line ℓ_{14}
 727 : $P_{238575} = (46, 14, 57, 1)$ lies on line ℓ_{11}
 728 : $P_{238584} = (55, 14, 57, 1)$ lies on line ℓ_8
 729 : $P_{238615} = (22, 15, 57, 1)$ lies on line ℓ_{11}
 730 : $P_{238625} = (32, 15, 57, 1)$ lies on line ℓ_{14}
 731 : $P_{238647} = (54, 15, 57, 1)$ lies on line ℓ_8
 732 : $P_{238676} = (19, 16, 57, 1)$ lies on line ℓ_{11}
 733 : $P_{238698} = (41, 16, 57, 1)$ lies on line ℓ_8
 734 : $P_{238715} = (58, 16, 57, 1)$ lies on line ℓ_{14}
 735 : $P_{238724} = (3, 17, 57, 1)$ lies on line ℓ_{14}
 736 : $P_{238761} = (40, 17, 57, 1)$ lies on line ℓ_8
 737 : $P_{238764} = (43, 17, 57, 1)$ lies on line ℓ_{11}
 738 : $P_{238787} = (2, 18, 57, 1)$ lies on line ℓ_{11}
 739 : $P_{238826} = (41, 18, 57, 1)$ lies on line ℓ_{14}
 740 : $P_{238828} = (43, 18, 57, 1)$ lies on line ℓ_8
 741 : $P_{238865} = (16, 19, 57, 1)$ lies on line ℓ_{14}
 742 : $P_{238891} = (42, 19, 57, 1)$ lies on line ℓ_8
 743 : $P_{238907} = (58, 19, 57, 1)$ lies on line ℓ_{11}
 744 : $P_{238941} = (28, 20, 57, 1)$ lies on line ℓ_{14}
 745 : $P_{238958} = (45, 20, 57, 1)$ lies on line ℓ_8
 746 : $P_{238962} = (49, 20, 57, 1)$ lies on line ℓ_{11}
 747 : $P_{238986} = (9, 21, 57, 1)$ lies on line ℓ_{11}
 748 : $P_{239014} = (37, 21, 57, 1)$ lies on line ℓ_{14}
 749 : $P_{239021} = (44, 21, 57, 1)$ lies on line ℓ_8
 750 : $P_{239056} = (15, 22, 57, 1)$ lies on line ℓ_{14}
 751 : $P_{239073} = (32, 22, 57, 1)$ lies on line ℓ_{11}
 752 : $P_{239088} = (47, 22, 57, 1)$ lies on line ℓ_8
 753 : $P_{239129} = (24, 23, 57, 1)$ lies on line ℓ_{11}
 754 : $P_{239151} = (46, 23, 57, 1)$ lies on line ℓ_8
 755 : $P_{239159} = (54, 23, 57, 1)$ lies on line ℓ_{14}
 756 : $P_{239192} = (23, 24, 57, 1)$ lies on line ℓ_{14}
 757 : $P_{239202} = (33, 24, 57, 1)$ lies on line ℓ_8
 758 : $P_{239223} = (54, 24, 57, 1)$ lies on line ℓ_{11}
 759 : $P_{239247} = (14, 25, 57, 1)$ lies on line ℓ_{11}
 760 : $P_{239265} = (32, 25, 57, 1)$ lies on line ℓ_8
 761 : $P_{239279} = (46, 25, 57, 1)$ lies on line ℓ_{14}
 762 : $P_{239301} = (4, 26, 57, 1)$ lies on line ℓ_{14}
 763 : $P_{239332} = (35, 26, 57, 1)$ lies on line ℓ_8
 764 : $P_{239336} = (39, 26, 57, 1)$ lies on line ℓ_{11}
 765 : $P_{239392} = (31, 27, 57, 1)$ lies on line ℓ_{11}
 766 : $P_{239395} = (34, 27, 57, 1)$ lies on line ℓ_8
 767 : $P_{239422} = (61, 27, 57, 1)$ lies on line ℓ_{14}

768 : $P_{239445} = (20, 28, 57, 1)$ lies on line ℓ_{11}
 769 : $P_{239462} = (37, 28, 57, 1)$ lies on line ℓ_8
 770 : $P_{239474} = (49, 28, 57, 1)$ lies on line ℓ_{14}
 771 : $P_{239497} = (8, 29, 57, 1)$ lies on line ℓ_{14}
 772 : $P_{239525} = (36, 29, 57, 1)$ lies on line ℓ_8
 773 : $P_{239533} = (44, 29, 57, 1)$ lies on line ℓ_{11}
 774 : $P_{239558} = (5, 30, 57, 1)$ lies on line ℓ_{11}
 775 : $P_{239587} = (34, 30, 57, 1)$ lies on line ℓ_{14}
 776 : $P_{239592} = (39, 30, 57, 1)$ lies on line ℓ_8
 777 : $P_{239644} = (27, 31, 57, 1)$ lies on line ℓ_{14}
 778 : $P_{239655} = (38, 31, 57, 1)$ lies on line ℓ_8
 779 : $P_{239678} = (61, 31, 57, 1)$ lies on line ℓ_{11}
 780 : $P_{239696} = (15, 32, 57, 1)$ lies on line ℓ_{11}
 781 : $P_{239703} = (22, 32, 57, 1)$ lies on line ℓ_{14}
 782 : $P_{239706} = (25, 32, 57, 1)$ lies on line ℓ_8
 783 : $P_{239769} = (24, 33, 57, 1)$ lies on line ℓ_8
 784 : $P_{239792} = (47, 33, 57, 1)$ lies on line ℓ_{14}
 785 : $P_{239800} = (55, 33, 57, 1)$ lies on line ℓ_{11}
 786 : $P_{239814} = (5, 34, 57, 1)$ lies on line ℓ_{14}
 787 : $P_{239836} = (27, 34, 57, 1)$ lies on line ℓ_8
 788 : $P_{239839} = (30, 34, 57, 1)$ lies on line ℓ_{11}
 789 : $P_{239899} = (26, 35, 57, 1)$ lies on line ℓ_8
 790 : $P_{239911} = (38, 35, 57, 1)$ lies on line ℓ_{11}
 791 : $P_{239933} = (60, 35, 57, 1)$ lies on line ℓ_{14}
 792 : $P_{239966} = (29, 36, 57, 1)$ lies on line ℓ_8
 793 : $P_{239982} = (45, 36, 57, 1)$ lies on line ℓ_{11}
 794 : $P_{239985} = (48, 36, 57, 1)$ lies on line ℓ_{14}
 795 : $P_{240010} = (9, 37, 57, 1)$ lies on line ℓ_{14}
 796 : $P_{240022} = (21, 37, 57, 1)$ lies on line ℓ_{11}
 797 : $P_{240029} = (28, 37, 57, 1)$ lies on line ℓ_8
 798 : $P_{240096} = (31, 38, 57, 1)$ lies on line ℓ_8
 799 : $P_{240100} = (35, 38, 57, 1)$ lies on line ℓ_{14}
 800 : $P_{240125} = (60, 38, 57, 1)$ lies on line ℓ_{11}
 801 : $P_{240133} = (4, 39, 57, 1)$ lies on line ℓ_{11}
 802 : $P_{240155} = (26, 39, 57, 1)$ lies on line ℓ_{14}
 803 : $P_{240159} = (30, 39, 57, 1)$ lies on line ℓ_8
 804 : $P_{240210} = (17, 40, 57, 1)$ lies on line ℓ_8
 805 : $P_{240235} = (42, 40, 57, 1)$ lies on line ℓ_{11}
 806 : $P_{240252} = (59, 40, 57, 1)$ lies on line ℓ_{14}
 807 : $P_{240259} = (2, 41, 57, 1)$ lies on line ℓ_{14}
 808 : $P_{240273} = (16, 41, 57, 1)$ lies on line ℓ_8
 809 : $P_{240275} = (18, 41, 57, 1)$ lies on line ℓ_{11}
 810 : $P_{240340} = (19, 42, 57, 1)$ lies on line ℓ_8
 811 : $P_{240361} = (40, 42, 57, 1)$ lies on line ℓ_{14}
 812 : $P_{240380} = (59, 42, 57, 1)$ lies on line ℓ_{11}
 813 : $P_{240388} = (3, 43, 57, 1)$ lies on line ℓ_{11}
 814 : $P_{240402} = (17, 43, 57, 1)$ lies on line ℓ_{14}
 815 : $P_{240403} = (18, 43, 57, 1)$ lies on line ℓ_8
 816 : $P_{240457} = (8, 44, 57, 1)$ lies on line ℓ_{11}
 817 : $P_{240470} = (21, 44, 57, 1)$ lies on line ℓ_8
 818 : $P_{240478} = (29, 44, 57, 1)$ lies on line ℓ_{14}
 819 : $P_{240533} = (20, 45, 57, 1)$ lies on line ℓ_8
 820 : $P_{240549} = (36, 45, 57, 1)$ lies on line ℓ_{14}
 821 : $P_{240561} = (48, 45, 57, 1)$ lies on line ℓ_{11}

822 : $P_{240591} = (14, 46, 57, 1)$ lies on line ℓ_{14}	865 : $P_{241651} = (50, 62, 57, 1)$ lies on line ℓ_{11}
823 : $P_{240600} = (23, 46, 57, 1)$ lies on line ℓ_8	866 : $P_{241654} = (53, 62, 57, 1)$ lies on line ℓ_{14}
824 : $P_{240602} = (25, 46, 57, 1)$ lies on line ℓ_{11}	867 : $P_{241671} = (6, 63, 57, 1)$ lies on line ℓ_8
825 : $P_{240663} = (22, 47, 57, 1)$ lies on line ℓ_8	868 : $P_{241675} = (10, 63, 57, 1)$ lies on line ℓ_{11}
826 : $P_{240674} = (33, 47, 57, 1)$ lies on line ℓ_{11}	869 : $P_{241677} = (12, 63, 57, 1)$ lies on line ℓ_{14}
827 : $P_{240696} = (55, 47, 57, 1)$ lies on line ℓ_{14}	870 : $P_{241730} = (1, 0, 58, 1)$ lies on line ℓ_0
828 : $P_{240714} = (9, 48, 57, 1)$ lies on line ℓ_8	871 : $P_{241785} = (56, 0, 58, 1)$ lies on line ℓ_1
829 : $P_{240741} = (36, 48, 57, 1)$ lies on line ℓ_{11}	872 : $P_{241786} = (57, 0, 58, 1)$ lies on line ℓ_2
830 : $P_{240750} = (45, 48, 57, 1)$ lies on line ℓ_{14}	873 : $P_{241793} = (0, 1, 58, 1)$ lies on line ℓ_3
831 : $P_{240777} = (8, 49, 57, 1)$ lies on line ℓ_8	874 : $P_{245313} = (0, 56, 58, 1)$ lies on line ℓ_4
832 : $P_{240789} = (20, 49, 57, 1)$ lies on line ℓ_{14}	875 : $P_{245377} = (0, 57, 58, 1)$ lies on line ℓ_5
833 : $P_{240797} = (28, 49, 57, 1)$ lies on line ℓ_{11}	876 : $P_{245826} = (1, 0, 59, 1)$ lies on line ℓ_0
834 : $P_{240844} = (11, 50, 57, 1)$ lies on line ℓ_8	877 : $P_{245881} = (56, 0, 59, 1)$ lies on line ℓ_1
835 : $P_{240886} = (53, 50, 57, 1)$ lies on line ℓ_{11}	878 : $P_{245882} = (57, 0, 59, 1)$ lies on line ℓ_2
836 : $P_{240895} = (62, 50, 57, 1)$ lies on line ℓ_{14}	879 : $P_{245889} = (0, 1, 59, 1)$ lies on line ℓ_3
837 : $P_{240904} = (7, 51, 57, 1)$ lies on line ℓ_{14}	880 : $P_{249409} = (0, 56, 59, 1)$ lies on line ℓ_4
838 : $P_{240907} = (10, 51, 57, 1)$ lies on line ℓ_8	881 : $P_{249473} = (0, 57, 59, 1)$ lies on line ℓ_5
839 : $P_{240910} = (13, 51, 57, 1)$ lies on line ℓ_{11}	882 : $P_{249922} = (1, 0, 60, 1)$ lies on line ℓ_0
840 : $P_{240967} = (6, 52, 57, 1)$ lies on line ℓ_{11}	883 : $P_{249977} = (56, 0, 60, 1)$ lies on line ℓ_1
841 : $P_{240972} = (11, 52, 57, 1)$ lies on line ℓ_{14}	884 : $P_{249978} = (57, 0, 60, 1)$ lies on line ℓ_2
842 : $P_{240974} = (13, 52, 57, 1)$ lies on line ℓ_8	885 : $P_{249985} = (0, 1, 60, 1)$ lies on line ℓ_3
843 : $P_{241037} = (12, 53, 57, 1)$ lies on line ℓ_8	886 : $P_{253505} = (0, 56, 60, 1)$ lies on line ℓ_4
844 : $P_{241075} = (50, 53, 57, 1)$ lies on line ℓ_{14}	887 : $P_{253569} = (0, 57, 60, 1)$ lies on line ℓ_5
845 : $P_{241087} = (62, 53, 57, 1)$ lies on line ℓ_{11}	888 : $P_{254018} = (1, 0, 61, 1)$ lies on line ℓ_0
846 : $P_{241104} = (15, 54, 57, 1)$ lies on line ℓ_8	889 : $P_{254073} = (56, 0, 61, 1)$ lies on line ℓ_1
847 : $P_{241112} = (23, 54, 57, 1)$ lies on line ℓ_{11}	890 : $P_{254074} = (57, 0, 61, 1)$ lies on line ℓ_2
848 : $P_{241113} = (24, 54, 57, 1)$ lies on line ℓ_{14}	891 : $P_{254081} = (0, 1, 61, 1)$ lies on line ℓ_3
849 : $P_{241167} = (14, 55, 57, 1)$ lies on line ℓ_8	892 : $P_{257601} = (0, 56, 61, 1)$ lies on line ℓ_4
850 : $P_{241186} = (33, 55, 57, 1)$ lies on line ℓ_{14}	893 : $P_{257665} = (0, 57, 61, 1)$ lies on line ℓ_5
851 : $P_{241200} = (47, 55, 57, 1)$ lies on line ℓ_{11}	894 : $P_{258114} = (1, 0, 62, 1)$ lies on line ℓ_0
852 : $P_{241348} = (3, 58, 57, 1)$ lies on line ℓ_8	895 : $P_{258169} = (56, 0, 62, 1)$ lies on line ℓ_1
853 : $P_{241361} = (16, 58, 57, 1)$ lies on line ℓ_{11}	896 : $P_{258170} = (57, 0, 62, 1)$ lies on line ℓ_2
854 : $P_{241364} = (19, 58, 57, 1)$ lies on line ℓ_{14}	897 : $P_{258177} = (0, 1, 62, 1)$ lies on line ℓ_3
855 : $P_{241411} = (2, 59, 57, 1)$ lies on line ℓ_8	898 : $P_{261697} = (0, 56, 62, 1)$ lies on line ℓ_4
856 : $P_{241449} = (40, 59, 57, 1)$ lies on line ℓ_{11}	899 : $P_{261761} = (0, 57, 62, 1)$ lies on line ℓ_5
857 : $P_{241451} = (42, 59, 57, 1)$ lies on line ℓ_{14}	900 : $P_{262210} = (1, 0, 63, 1)$ lies on line ℓ_0
858 : $P_{241478} = (5, 60, 57, 1)$ lies on line ℓ_8	901 : $P_{262265} = (56, 0, 63, 1)$ lies on line ℓ_1
859 : $P_{241508} = (35, 60, 57, 1)$ lies on line ℓ_{11}	902 : $P_{262266} = (57, 0, 63, 1)$ lies on line ℓ_2
860 : $P_{241511} = (38, 60, 57, 1)$ lies on line ℓ_{14}	903 : $P_{262273} = (0, 1, 63, 1)$ lies on line ℓ_3
861 : $P_{241541} = (4, 61, 57, 1)$ lies on line ℓ_8	904 : $P_{265793} = (0, 56, 63, 1)$ lies on line ℓ_4
862 : $P_{241564} = (27, 61, 57, 1)$ lies on line ℓ_{11}	905 : $P_{265857} = (0, 57, 63, 1)$ lies on line ℓ_5
863 : $P_{241568} = (31, 61, 57, 1)$ lies on line ℓ_{14}	
864 : $P_{241608} = (7, 62, 57, 1)$ lies on line ℓ_8	

The single points on the surface are:

Points on surface but on no line

The surface has 3480 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	1	0	0	0	1	0	0	0	1
1	1	0	1	1	1	1	0	1	0	0	0	1	1	0	0
2	1	1	0	1	1	1	0	0	1	1	0	0	0	1	0
3	1	1	1	0	1	1	1	0	0	0	0	1	0	1	0
4	1	1	1	1	0	1	0	1	0	1	0	0	0	0	1
5	1	1	1	1	1	0	0	0	1	0	1	0	1	0	0
6	1	0	0	1	0	0	0	1	1	1	0	0	1	0	0
7	0	1	0	0	1	0	1	0	1	0	1	0	0	1	0
8	0	0	1	0	0	1	1	1	0	0	0	1	0	0	1
9	0	0	1	0	1	0	1	0	0	0	1	1	1	0	0
10	1	0	0	0	0	1	0	1	0	1	0	1	0	1	0
11	0	1	0	1	0	0	0	0	1	1	1	0	0	0	1
12	0	1	0	0	0	1	1	0	0	1	0	0	0	1	1
13	0	0	1	1	0	0	0	1	0	0	1	0	1	0	1
14	1	0	0	0	1	0	0	0	1	0	0	1	1	1	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{14}
in point	P_2	P_2	P_2	P_2	P_2	P_{8259}	P_{233538}	P_{237634}

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_7	ℓ_{11}	ℓ_{12}
in point	P_2	P_2	P_2	P_2	P_2	P_{233593}	P_{237689}	P_{8314}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_8	ℓ_9	ℓ_{13}
in point	P_2	P_2	P_2	P_2	P_2	P_{237690}	P_{8315}	P_{233594}

Line 3 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_6	ℓ_{11}	ℓ_{13}
in point	P_2	P_2	P_2	P_2	P_2	P_{8322}	P_{237697}	P_{233601}

Line 4 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_7	ℓ_9	ℓ_{14}
in point	P_2	P_2	P_2	P_2	P_2	P_{237121}	P_{11841}	P_{241217}

Line 5 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_8	ℓ_{10}	ℓ_{12}
in point	P_2	P_2	P_2	P_2	P_2	P_{241281}	P_{237185}	P_{11905}

Line 6 intersects

Line	ℓ_0	ℓ_3	ℓ_7	ℓ_8	ℓ_9	ℓ_{12}
in point	P_{8259}	P_{8322}	P_5	P_5	P_{11961}	P_{11898}

Line 7 intersects

Line	ℓ_1	ℓ_4	ℓ_6	ℓ_8	ℓ_{10}	ℓ_{13}
in point	P_{233593}	P_{237121}	P_5	P_5	P_{233658}	P_{237186}

Line 8 intersects

Line	ℓ_2	ℓ_5	ℓ_6	ℓ_7	ℓ_{11}	ℓ_{14}
in point	P_{237690}	P_{241281}	P_5	P_5	P_{241218}	P_{237753}

Line 9 intersects

Line	ℓ_2	ℓ_4	ℓ_6	ℓ_{10}	ℓ_{11}	ℓ_{12}
in point	P_{8315}	P_{11841}	P_{11961}	P_{60}	P_{60}	P_4

Line 10 intersects

Line	ℓ_0	ℓ_5	ℓ_7	ℓ_9	ℓ_{11}	ℓ_{13}
in point	P_{233538}	P_{237185}	P_{233658}	P_{60}	P_{60}	P_{237177}

Line 11 intersects

Line	ℓ_1	ℓ_3	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{14}
in point	P_{237689}	P_{237697}	P_{241218}	P_{60}	P_{60}	P_{241338}

Line 12 intersects

Line	ℓ_1	ℓ_5	ℓ_6	ℓ_9	ℓ_{13}	ℓ_{14}
in point	P_{8314}	P_{11905}	P_{11898}	P_4	P_{61}	P_{61}

Line 13 intersects

Line	ℓ_2	ℓ_3	ℓ_7	ℓ_{10}	ℓ_{12}	ℓ_{14}
in point	P_{233594}	P_{233601}	P_{237186}	P_{237177}	P_{61}	P_{61}

Line 14 intersects

Line	ℓ_0	ℓ_4	ℓ_8	ℓ_{11}	ℓ_{12}	ℓ_{13}
in point	P_{237634}	P_{241217}	P_{237753}	P_{241338}	P_{61}	P_{61}

The surface has 4417 points:
Too many to print.