

Rank-65900 over GF(64)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(64) is -2130177978

General information

Number of lines	15
Number of points	4417
Number of singular points	1
Number of Eckardt points	1
Number of double points	33
Number of single points	900
Number of points off lines	3482
Number of Hesse planes	0
Number of axes	0
Type of points on lines	65^{15}
Type of lines on points	$6, 3, 2^{33}, 1^{900}, 0^{3482}$

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:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & \epsilon^9 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{12516288} = \begin{bmatrix} 1 & 0 & 0 & 47 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{12516288} = \mathbf{Pl}(10, 0, 0, 1, 0, 0)_{139}$$

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^{18} \\ 0 & 1 & 0 & 0 \end{bmatrix}_{2929344} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{2929344} = \mathbf{Pl}(37, 0, 0, 1, 0, 0)_{166} \\
\ell_2 &= \begin{bmatrix} 1 & 0 & 0 & \epsilon^{36} \\ 0 & 1 & 0 & 0 \end{bmatrix}_{9586944} = \begin{bmatrix} 1 & 0 & 0 & 36 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{9586944} = \mathbf{Pl}(46, 0, 0, 1, 0, 0)_{175} \\
\ell_3 &= \begin{bmatrix} 1 & \epsilon^{21} & 0 & \epsilon^{18} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3170617} = \begin{bmatrix} 1 & 57 & 0 & 11 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3170617} = \mathbf{Pl}(0, 12, 56, 0, 0, 1)_{277588} \\
\ell_4 &= \begin{bmatrix} 1 & \epsilon^{21} & 0 & \epsilon^{36} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9828217} = \begin{bmatrix} 1 & 57 & 0 & 36 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9828217} = \mathbf{Pl}(0, 21, 56, 0, 0, 1)_{277597} \\
\ell_5 &= \begin{bmatrix} 1 & \epsilon^{42} & 0 & \epsilon^{36} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9824056} = \begin{bmatrix} 1 & 56 & 0 & 36 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{9824056} = \mathbf{Pl}(0, 49, 57, 0, 0, 1)_{277752} \\
\ell_6 &= \begin{bmatrix} 1 & \epsilon^{42} & 0 & \epsilon^{18} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3166456} = \begin{bmatrix} 1 & 56 & 0 & 11 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3166456} = \mathbf{Pl}(0, 7, 57, 0, 0, 1)_{277710} \\
\ell_7 &= \begin{bmatrix} 1 & \epsilon^{42} & 0 & \epsilon^9 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12753400} = \begin{bmatrix} 1 & 56 & 0 & 47 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12753400} = \mathbf{Pl}(0, 54, 57, 0, 0, 1)_{277757} \\
\ell_8 &= \begin{bmatrix} 1 & \epsilon^{21} & 0 & \epsilon^9 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12757561} = \begin{bmatrix} 1 & 57 & 0 & 47 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{12757561} = \mathbf{Pl}(0, 25, 56, 0, 0, 1)_{277601} \\
\ell_9 &= \begin{bmatrix} 1 & 0 & \epsilon^{58} & \epsilon^{14} \\ 0 & 1 & \epsilon^{45} & \epsilon^{36} \end{bmatrix}_{15460456} = \begin{bmatrix} 1 & 0 & 3 & 58 \\ 0 & 1 & 37 & 36 \end{bmatrix}_{15460456} = \mathbf{Pl}(14, 38, 34, 22, 28, 1)_{7761367} \\
\ell_{10} &= \begin{bmatrix} 1 & 0 & \epsilon^{23} & \epsilon^{49} \\ 0 & 1 & \epsilon^{45} & \epsilon^{36} \end{bmatrix}_{8149579} = \begin{bmatrix} 1 & 0 & 38 & 30 \\ 0 & 1 & 37 & 36 \end{bmatrix}_{8149579} = \mathbf{Pl}(32, 3, 41, 23, 29, 1)_{8048098} \\
\ell_{11} &= \begin{bmatrix} 1 & 0 & \epsilon^{53} & \epsilon^{28} \\ 0 & 1 & \epsilon^{27} & \epsilon^9 \end{bmatrix}_{16268403} = \begin{bmatrix} 1 & 0 & 5 & 61 \\ 0 & 1 & 46 & 47 \end{bmatrix}_{16268403} = \mathbf{Pl}(53, 43, 59, 51, 22, 1)_{6285253} \\
\ell_{12} &= \begin{bmatrix} 1 & 0 & \epsilon^{29} & \epsilon^7 \\ 0 & 1 & \epsilon^{54} & \epsilon^{18} \end{bmatrix}_{9433701} = \begin{bmatrix} 1 & 0 & 27 & 35 \\ 0 & 1 & 10 & 11 \end{bmatrix}_{9433701} = \mathbf{Pl}(44, 17, 19, 28, 50, 1)_{13468378} \\
\ell_{13} &= \begin{bmatrix} 1 & 0 & \epsilon^{46} & \epsilon^{35} \\ 0 & 1 & \epsilon^{27} & \epsilon^9 \end{bmatrix}_{4975449} = \begin{bmatrix} 1 & 0 & 43 & 18 \\ 0 & 1 & 46 & 47 \end{bmatrix}_{4975449} = \mathbf{Pl}(63, 5, 31, 50, 23, 1)_{6437660} \\
\ell_{14} &= \begin{bmatrix} 1 & 0 & \epsilon^{43} & \epsilon^{56} \\ 0 & 1 & \epsilon^{54} & \epsilon^{18} \end{bmatrix}_{10723611} = \begin{bmatrix} 1 & 0 & 17 & 40 \\ 0 & 1 & 10 & 11 \end{bmatrix}_{10723611} = \mathbf{Pl}(9, 27, 60, 29, 51, 1)_{13888805}
\end{aligned}$$

Rank of lines: (12516288, 2929344, 9586944, 3170617, 9828217, 9824056, 3166456, 12753400, 12757561, 15460456, 8149579, 16268403, 9433701, 4975449, 10723611)

Rank of points on Klein quadric: (139, 166, 175, 277588, 277597, 277752, 277710, 277757, 277601, 7761367, 8048098, 6285253, 13468378, 6437660, 13888805)

Eckardt Points

The surface has 1 Eckardt points:
 $0 : P_1 = \mathbf{P}(0, 1, 0, 0) = \mathbf{P}(0, 1, 0, 0).$

Double Points

The surface has 33 Double points:
The double points on the surface are:

$$\begin{aligned}
P_{7500} &= (10, 52, 0, 1) = \ell_0 \cap \ell_7 \\
P_{8140} &= (10, 62, 0, 1) = \ell_0 \cap \ell_8 \\
P_{7564} &= (10, 53, 0, 1) = \ell_0 \cap \ell_{11} \\
P_{8204} &= (10, 63, 0, 1) = \ell_0 \cap \ell_{13} \\
P_{4711} &= (37, 8, 0, 1) = \ell_1 \cap \ell_3 \\
P_{7079} &= (37, 45, 0, 1) = \ell_1 \cap \ell_6 \\
P_{7015} &= (37, 44, 0, 1) = \ell_1 \cap \ell_{12} \\
P_{4775} &= (37, 9, 0, 1) = \ell_1 \cap \ell_{14} \\
P_{5168} &= (46, 15, 0, 1) = \ell_2 \cap \ell_4 \\
P_{6320} &= (46, 33, 0, 1) = \ell_2 \cap \ell_5 \\
P_{5104} &= (46, 14, 0, 1) = \ell_2 \cap \ell_9 \\
P_{6256} &= (46, 32, 0, 1) = \ell_2 \cap \ell_{10} \\
P_{8806} &= (37, 8, 1, 1) = \ell_3 \cap \ell_9 \\
P_{152166} &= (37, 8, 36, 1) = \ell_3 \cap \ell_{11} \\
P_{197679} &= (46, 15, 47, 1) = \ell_4 \cap \ell_{12} \\
P_{9263} &= (46, 15, 1, 1) = \ell_4 \cap \ell_{13} \\
P_{10415} &= (46, 33, 1, 1) = \ell_5 \cap \ell_{11}
\end{aligned}$$

$$\begin{aligned}
P_{198831} &= (46, 33, 47, 1) = \ell_5 \cap \ell_{14} \\
P_{11174} &= (37, 45, 1, 1) = \ell_6 \cap \ell_{10} \\
P_{154534} &= (37, 45, 36, 1) = \ell_6 \cap \ell_{13} \\
P_{52555} &= (10, 52, 11, 1) = \ell_7 \cap \ell_9 \\
P_{11595} &= (10, 52, 1, 1) = \ell_7 \cap \ell_{12} \\
P_{53195} &= (10, 62, 11, 1) = \ell_8 \cap \ell_{10} \\
P_{12235} &= (10, 62, 1, 1) = \ell_8 \cap \ell_{14} \\
P_{199617} &= (0, 46, 47, 1) = \ell_9 \cap \ell_{10} \\
P_{195148} &= (11, 40, 46, 1) = \ell_9 \cap \ell_{13} \\
P_{156912} &= (47, 18, 37, 1) = \ell_9 \cap \ell_{14} \\
P_{194828} &= (11, 35, 46, 1) = \ell_{10} \cap \ell_{11} \\
P_{159664} &= (47, 61, 37, 1) = \ell_{10} \cap \ell_{12} \\
P_{47077} &= (36, 30, 10, 1) = \ell_{11} \cap \ell_{12} \\
P_{49857} &= (0, 10, 11, 1) = \ell_{11} \cap \ell_{13} \\
P_{153985} &= (0, 37, 36, 1) = \ell_{12} \cap \ell_{14} \\
P_{48869} &= (36, 58, 10, 1) = \ell_{13} \cap \ell_{14}
\end{aligned}$$

Single Points

The surface has 900 single points:
The single points on the surface are:

$$\begin{aligned}
0 : P_{462} &= (11, 6, 1, 0) \text{ lies on line } \ell_9 \\
1 : P_{910} &= (11, 13, 1, 0) \text{ lies on line } \ell_{10} \\
2 : P_{1383} &= (36, 20, 1, 0) \text{ lies on line } \ell_{11} \\
3 : P_{1650} &= (47, 24, 1, 0) \text{ lies on line } \ell_{12} \\
4 : P_{3175} &= (36, 48, 1, 0) \text{ lies on line } \ell_{13} \\
5 : P_{3634} &= (47, 55, 1, 0) \text{ lies on line } \ell_{14} \\
6 : P_{4172} &= (10, 0, 0, 1) \text{ lies on line } \ell_0 \\
7 : P_{4199} &= (37, 0, 0, 1) \text{ lies on line } \ell_1 \\
8 : P_{4208} &= (46, 0, 0, 1) \text{ lies on line } \ell_2 \\
9 : P_{4236} &= (10, 1, 0, 1) \text{ lies on line } \ell_0 \\
10 : P_{4263} &= (37, 1, 0, 1) \text{ lies on line } \ell_1 \\
11 : P_{4272} &= (46, 1, 0, 1) \text{ lies on line } \ell_2 \\
12 : P_{4300} &= (10, 2, 0, 1) \text{ lies on line } \ell_0 \\
13 : P_{4327} &= (37, 2, 0, 1) \text{ lies on line } \ell_1 \\
14 : P_{4336} &= (46, 2, 0, 1) \text{ lies on line } \ell_2 \\
15 : P_{4364} &= (10, 3, 0, 1) \text{ lies on line } \ell_0 \\
16 : P_{4391} &= (37, 3, 0, 1) \text{ lies on line } \ell_1 \\
17 : P_{4400} &= (46, 3, 0, 1) \text{ lies on line } \ell_2 \\
18 : P_{4428} &= (10, 4, 0, 1) \text{ lies on line } \ell_0 \\
19 : P_{4455} &= (37, 4, 0, 1) \text{ lies on line } \ell_1 \\
20 : P_{4464} &= (46, 4, 0, 1) \text{ lies on line } \ell_2 \\
21 : P_{4492} &= (10, 5, 0, 1) \text{ lies on line } \ell_0 \\
22 : P_{4519} &= (37, 5, 0, 1) \text{ lies on line } \ell_1 \\
23 : P_{4528} &= (46, 5, 0, 1) \text{ lies on line } \ell_2 \\
24 : P_{4556} &= (10, 6, 0, 1) \text{ lies on line } \ell_0 \\
25 : P_{4583} &= (37, 6, 0, 1) \text{ lies on line } \ell_1 \\
26 : P_{4592} &= (46, 6, 0, 1) \text{ lies on line } \ell_2 \\
27 : P_{4620} &= (10, 7, 0, 1) \text{ lies on line } \ell_0 \\
28 : P_{4647} &= (37, 7, 0, 1) \text{ lies on line } \ell_1 \\
29 : P_{4656} &= (46, 7, 0, 1) \text{ lies on line } \ell_2
\end{aligned}$$

$$\begin{aligned}
30 : P_{4684} &= (10, 8, 0, 1) \text{ lies on line } \ell_0 \\
31 : P_{4720} &= (46, 8, 0, 1) \text{ lies on line } \ell_2 \\
32 : P_{4748} &= (10, 9, 0, 1) \text{ lies on line } \ell_0 \\
33 : P_{4784} &= (46, 9, 0, 1) \text{ lies on line } \ell_2 \\
34 : P_{4812} &= (10, 10, 0, 1) \text{ lies on line } \ell_0 \\
35 : P_{4839} &= (37, 10, 0, 1) \text{ lies on line } \ell_1 \\
36 : P_{4848} &= (46, 10, 0, 1) \text{ lies on line } \ell_2 \\
37 : P_{4876} &= (10, 11, 0, 1) \text{ lies on line } \ell_0 \\
38 : P_{4903} &= (37, 11, 0, 1) \text{ lies on line } \ell_1 \\
39 : P_{4912} &= (46, 11, 0, 1) \text{ lies on line } \ell_2 \\
40 : P_{4940} &= (10, 12, 0, 1) \text{ lies on line } \ell_0 \\
41 : P_{4967} &= (37, 12, 0, 1) \text{ lies on line } \ell_1 \\
42 : P_{4976} &= (46, 12, 0, 1) \text{ lies on line } \ell_2 \\
43 : P_{5004} &= (10, 13, 0, 1) \text{ lies on line } \ell_0 \\
44 : P_{5031} &= (37, 13, 0, 1) \text{ lies on line } \ell_1 \\
45 : P_{5040} &= (46, 13, 0, 1) \text{ lies on line } \ell_2 \\
46 : P_{5068} &= (10, 14, 0, 1) \text{ lies on line } \ell_0 \\
47 : P_{5095} &= (37, 14, 0, 1) \text{ lies on line } \ell_1 \\
48 : P_{5132} &= (10, 15, 0, 1) \text{ lies on line } \ell_0 \\
49 : P_{5159} &= (37, 15, 0, 1) \text{ lies on line } \ell_1 \\
50 : P_{5196} &= (10, 16, 0, 1) \text{ lies on line } \ell_0 \\
51 : P_{5223} &= (37, 16, 0, 1) \text{ lies on line } \ell_1 \\
52 : P_{5232} &= (46, 16, 0, 1) \text{ lies on line } \ell_2 \\
53 : P_{5260} &= (10, 17, 0, 1) \text{ lies on line } \ell_0 \\
54 : P_{5287} &= (37, 17, 0, 1) \text{ lies on line } \ell_1 \\
55 : P_{5296} &= (46, 17, 0, 1) \text{ lies on line } \ell_2 \\
56 : P_{5324} &= (10, 18, 0, 1) \text{ lies on line } \ell_0 \\
57 : P_{5351} &= (37, 18, 0, 1) \text{ lies on line } \ell_1 \\
58 : P_{5360} &= (46, 18, 0, 1) \text{ lies on line } \ell_2 \\
59 : P_{5388} &= (10, 19, 0, 1) \text{ lies on line } \ell_0
\end{aligned}$$

60 : $P_{5415} = (37, 19, 0, 1)$ lies on line ℓ_1
 61 : $P_{5424} = (46, 19, 0, 1)$ lies on line ℓ_2
 62 : $P_{5452} = (10, 20, 0, 1)$ lies on line ℓ_0
 63 : $P_{5479} = (37, 20, 0, 1)$ lies on line ℓ_1
 64 : $P_{5488} = (46, 20, 0, 1)$ lies on line ℓ_2
 65 : $P_{5516} = (10, 21, 0, 1)$ lies on line ℓ_0
 66 : $P_{5543} = (37, 21, 0, 1)$ lies on line ℓ_1
 67 : $P_{5552} = (46, 21, 0, 1)$ lies on line ℓ_2
 68 : $P_{5580} = (10, 22, 0, 1)$ lies on line ℓ_0
 69 : $P_{5607} = (37, 22, 0, 1)$ lies on line ℓ_1
 70 : $P_{5616} = (46, 22, 0, 1)$ lies on line ℓ_2
 71 : $P_{5644} = (10, 23, 0, 1)$ lies on line ℓ_0
 72 : $P_{5671} = (37, 23, 0, 1)$ lies on line ℓ_1
 73 : $P_{5680} = (46, 23, 0, 1)$ lies on line ℓ_2
 74 : $P_{5708} = (10, 24, 0, 1)$ lies on line ℓ_0
 75 : $P_{5735} = (37, 24, 0, 1)$ lies on line ℓ_1
 76 : $P_{5744} = (46, 24, 0, 1)$ lies on line ℓ_2
 77 : $P_{5772} = (10, 25, 0, 1)$ lies on line ℓ_0
 78 : $P_{5799} = (37, 25, 0, 1)$ lies on line ℓ_1
 79 : $P_{5808} = (46, 25, 0, 1)$ lies on line ℓ_2
 80 : $P_{5836} = (10, 26, 0, 1)$ lies on line ℓ_0
 81 : $P_{5863} = (37, 26, 0, 1)$ lies on line ℓ_1
 82 : $P_{5872} = (46, 26, 0, 1)$ lies on line ℓ_2
 83 : $P_{5900} = (10, 27, 0, 1)$ lies on line ℓ_0
 84 : $P_{5927} = (37, 27, 0, 1)$ lies on line ℓ_1
 85 : $P_{5936} = (46, 27, 0, 1)$ lies on line ℓ_2
 86 : $P_{5964} = (10, 28, 0, 1)$ lies on line ℓ_0
 87 : $P_{5991} = (37, 28, 0, 1)$ lies on line ℓ_1
 88 : $P_{6000} = (46, 28, 0, 1)$ lies on line ℓ_2
 89 : $P_{6028} = (10, 29, 0, 1)$ lies on line ℓ_0
 90 : $P_{6055} = (37, 29, 0, 1)$ lies on line ℓ_1
 91 : $P_{6064} = (46, 29, 0, 1)$ lies on line ℓ_2
 92 : $P_{6092} = (10, 30, 0, 1)$ lies on line ℓ_0
 93 : $P_{6119} = (37, 30, 0, 1)$ lies on line ℓ_1
 94 : $P_{6128} = (46, 30, 0, 1)$ lies on line ℓ_2
 95 : $P_{6156} = (10, 31, 0, 1)$ lies on line ℓ_0
 96 : $P_{6183} = (37, 31, 0, 1)$ lies on line ℓ_1
 97 : $P_{6192} = (46, 31, 0, 1)$ lies on line ℓ_2
 98 : $P_{6220} = (10, 32, 0, 1)$ lies on line ℓ_0
 99 : $P_{6247} = (37, 32, 0, 1)$ lies on line ℓ_1
 100 : $P_{6284} = (10, 33, 0, 1)$ lies on line ℓ_0
 101 : $P_{6311} = (37, 33, 0, 1)$ lies on line ℓ_1
 102 : $P_{6348} = (10, 34, 0, 1)$ lies on line ℓ_0
 103 : $P_{6375} = (37, 34, 0, 1)$ lies on line ℓ_1
 104 : $P_{6384} = (46, 34, 0, 1)$ lies on line ℓ_2
 105 : $P_{6412} = (10, 35, 0, 1)$ lies on line ℓ_0
 106 : $P_{6439} = (37, 35, 0, 1)$ lies on line ℓ_1
 107 : $P_{6448} = (46, 35, 0, 1)$ lies on line ℓ_2
 108 : $P_{6476} = (10, 36, 0, 1)$ lies on line ℓ_0
 109 : $P_{6503} = (37, 36, 0, 1)$ lies on line ℓ_1
 110 : $P_{6512} = (46, 36, 0, 1)$ lies on line ℓ_2
 111 : $P_{6540} = (10, 37, 0, 1)$ lies on line ℓ_0
 112 : $P_{6567} = (37, 37, 0, 1)$ lies on line ℓ_1
 113 : $P_{6576} = (46, 37, 0, 1)$ lies on line ℓ_2

114 : $P_{6604} = (10, 38, 0, 1)$ lies on line ℓ_0
 115 : $P_{6631} = (37, 38, 0, 1)$ lies on line ℓ_1
 116 : $P_{6640} = (46, 38, 0, 1)$ lies on line ℓ_2
 117 : $P_{6668} = (10, 39, 0, 1)$ lies on line ℓ_0
 118 : $P_{6695} = (37, 39, 0, 1)$ lies on line ℓ_1
 119 : $P_{6704} = (46, 39, 0, 1)$ lies on line ℓ_2
 120 : $P_{6732} = (10, 40, 0, 1)$ lies on line ℓ_0
 121 : $P_{6759} = (37, 40, 0, 1)$ lies on line ℓ_1
 122 : $P_{6768} = (46, 40, 0, 1)$ lies on line ℓ_2
 123 : $P_{6796} = (10, 41, 0, 1)$ lies on line ℓ_0
 124 : $P_{6823} = (37, 41, 0, 1)$ lies on line ℓ_1
 125 : $P_{6832} = (46, 41, 0, 1)$ lies on line ℓ_2
 126 : $P_{6860} = (10, 42, 0, 1)$ lies on line ℓ_0
 127 : $P_{6887} = (37, 42, 0, 1)$ lies on line ℓ_1
 128 : $P_{6896} = (46, 42, 0, 1)$ lies on line ℓ_2
 129 : $P_{6924} = (10, 43, 0, 1)$ lies on line ℓ_0
 130 : $P_{6951} = (37, 43, 0, 1)$ lies on line ℓ_1
 131 : $P_{6960} = (46, 43, 0, 1)$ lies on line ℓ_2
 132 : $P_{6988} = (10, 44, 0, 1)$ lies on line ℓ_0
 133 : $P_{7024} = (46, 44, 0, 1)$ lies on line ℓ_2
 134 : $P_{7052} = (10, 45, 0, 1)$ lies on line ℓ_0
 135 : $P_{7088} = (46, 45, 0, 1)$ lies on line ℓ_2
 136 : $P_{7116} = (10, 46, 0, 1)$ lies on line ℓ_0
 137 : $P_{7143} = (37, 46, 0, 1)$ lies on line ℓ_1
 138 : $P_{7152} = (46, 46, 0, 1)$ lies on line ℓ_2
 139 : $P_{7180} = (10, 47, 0, 1)$ lies on line ℓ_0
 140 : $P_{7207} = (37, 47, 0, 1)$ lies on line ℓ_1
 141 : $P_{7216} = (46, 47, 0, 1)$ lies on line ℓ_2
 142 : $P_{7244} = (10, 48, 0, 1)$ lies on line ℓ_0
 143 : $P_{7271} = (37, 48, 0, 1)$ lies on line ℓ_1
 144 : $P_{7280} = (46, 48, 0, 1)$ lies on line ℓ_2
 145 : $P_{7308} = (10, 49, 0, 1)$ lies on line ℓ_0
 146 : $P_{7335} = (37, 49, 0, 1)$ lies on line ℓ_1
 147 : $P_{7344} = (46, 49, 0, 1)$ lies on line ℓ_2
 148 : $P_{7372} = (10, 50, 0, 1)$ lies on line ℓ_0
 149 : $P_{7399} = (37, 50, 0, 1)$ lies on line ℓ_1
 150 : $P_{7408} = (46, 50, 0, 1)$ lies on line ℓ_2
 151 : $P_{7436} = (10, 51, 0, 1)$ lies on line ℓ_0
 152 : $P_{7463} = (37, 51, 0, 1)$ lies on line ℓ_1
 153 : $P_{7472} = (46, 51, 0, 1)$ lies on line ℓ_2
 154 : $P_{7527} = (37, 52, 0, 1)$ lies on line ℓ_1
 155 : $P_{7536} = (46, 52, 0, 1)$ lies on line ℓ_2
 156 : $P_{7591} = (37, 53, 0, 1)$ lies on line ℓ_1
 157 : $P_{7600} = (46, 53, 0, 1)$ lies on line ℓ_2
 158 : $P_{7628} = (10, 54, 0, 1)$ lies on line ℓ_0
 159 : $P_{7655} = (37, 54, 0, 1)$ lies on line ℓ_1
 160 : $P_{7664} = (46, 54, 0, 1)$ lies on line ℓ_2
 161 : $P_{7692} = (10, 55, 0, 1)$ lies on line ℓ_0
 162 : $P_{7719} = (37, 55, 0, 1)$ lies on line ℓ_1
 163 : $P_{7728} = (46, 55, 0, 1)$ lies on line ℓ_2
 164 : $P_{7756} = (10, 56, 0, 1)$ lies on line ℓ_0
 165 : $P_{7783} = (37, 56, 0, 1)$ lies on line ℓ_1
 166 : $P_{7792} = (46, 56, 0, 1)$ lies on line ℓ_2
 167 : $P_{7820} = (10, 57, 0, 1)$ lies on line ℓ_0

168 : $P_{7847} = (37, 57, 0, 1)$ lies on line ℓ_1
 169 : $P_{7856} = (46, 57, 0, 1)$ lies on line ℓ_2
 170 : $P_{7884} = (10, 58, 0, 1)$ lies on line ℓ_0
 171 : $P_{7911} = (37, 58, 0, 1)$ lies on line ℓ_1
 172 : $P_{7920} = (46, 58, 0, 1)$ lies on line ℓ_2
 173 : $P_{7948} = (10, 59, 0, 1)$ lies on line ℓ_0
 174 : $P_{7975} = (37, 59, 0, 1)$ lies on line ℓ_1
 175 : $P_{7984} = (46, 59, 0, 1)$ lies on line ℓ_2
 176 : $P_{8012} = (10, 60, 0, 1)$ lies on line ℓ_0
 177 : $P_{8039} = (37, 60, 0, 1)$ lies on line ℓ_1
 178 : $P_{8048} = (46, 60, 0, 1)$ lies on line ℓ_2
 179 : $P_{8076} = (10, 61, 0, 1)$ lies on line ℓ_0
 180 : $P_{8103} = (37, 61, 0, 1)$ lies on line ℓ_1
 181 : $P_{8112} = (46, 61, 0, 1)$ lies on line ℓ_2
 182 : $P_{8167} = (37, 62, 0, 1)$ lies on line ℓ_1
 183 : $P_{8176} = (46, 62, 0, 1)$ lies on line ℓ_2
 184 : $P_{8231} = (37, 63, 0, 1)$ lies on line ℓ_1
 185 : $P_{8240} = (46, 63, 0, 1)$ lies on line ℓ_2
 186 : $P_{12537} = (56, 2, 2, 1)$ lies on line ℓ_9
 187 : $P_{12763} = (26, 6, 2, 1)$ lies on line ℓ_{14}
 188 : $P_{12902} = (37, 8, 2, 1)$ lies on line ℓ_3
 189 : $P_{13359} = (46, 15, 2, 1)$ lies on line ℓ_4
 190 : $P_{14171} = (26, 28, 2, 1)$ lies on line ℓ_{12}
 191 : $P_{14244} = (35, 29, 2, 1)$ lies on line ℓ_{11}
 192 : $P_{14511} = (46, 33, 2, 1)$ lies on line ℓ_5
 193 : $P_{15270} = (37, 45, 2, 1)$ lies on line ℓ_6
 194 : $P_{15691} = (10, 52, 2, 1)$ lies on line ℓ_7
 195 : $P_{16121} = (56, 58, 2, 1)$ lies on line ℓ_{10}
 196 : $P_{16331} = (10, 62, 2, 1)$ lies on line ℓ_8
 197 : $P_{16356} = (35, 62, 2, 1)$ lies on line ℓ_{13}
 198 : $P_{16756} = (51, 4, 3, 1)$ lies on line ℓ_9
 199 : $P_{16758} = (53, 4, 3, 1)$ lies on line ℓ_{12}
 200 : $P_{16998} = (37, 8, 3, 1)$ lies on line ℓ_3
 201 : $P_{17032} = (7, 9, 3, 1)$ lies on line ℓ_{11}
 202 : $P_{17352} = (7, 14, 3, 1)$ lies on line ℓ_{13}
 203 : $P_{17455} = (46, 15, 3, 1)$ lies on line ℓ_4
 204 : $P_{18607} = (46, 33, 3, 1)$ lies on line ℓ_5
 205 : $P_{19366} = (37, 45, 3, 1)$ lies on line ℓ_6
 206 : $P_{19638} = (53, 49, 3, 1)$ lies on line ℓ_{14}
 207 : $P_{19787} = (10, 52, 3, 1)$ lies on line ℓ_7
 208 : $P_{20020} = (51, 55, 3, 1)$ lies on line ℓ_{10}
 209 : $P_{20427} = (10, 62, 3, 1)$ lies on line ℓ_8
 210 : $P_{20858} = (57, 4, 4, 1)$ lies on line ℓ_{11}
 211 : $P_{21094} = (37, 8, 4, 1)$ lies on line ℓ_3
 212 : $P_{21551} = (46, 15, 4, 1)$ lies on line ℓ_4
 213 : $P_{21827} = (2, 20, 4, 1)$ lies on line ℓ_{10}
 214 : $P_{21955} = (2, 22, 4, 1)$ lies on line ℓ_9
 215 : $P_{22075} = (58, 23, 4, 1)$ lies on line ℓ_{14}
 216 : $P_{22703} = (46, 33, 4, 1)$ lies on line ℓ_5
 217 : $P_{23462} = (37, 45, 4, 1)$ lies on line ℓ_6
 218 : $P_{23483} = (58, 45, 4, 1)$ lies on line ℓ_{12}
 219 : $P_{23883} = (10, 52, 4, 1)$ lies on line ℓ_7
 220 : $P_{24506} = (57, 61, 4, 1)$ lies on line ℓ_{13}
 221 : $P_{24523} = (10, 62, 4, 1)$ lies on line ℓ_8
 222 : $P_{25190} = (37, 8, 5, 1)$ lies on line ℓ_3
 223 : $P_{25502} = (29, 13, 5, 1)$ lies on line ℓ_{13}
 224 : $P_{25647} = (46, 15, 5, 1)$ lies on line ℓ_4
 225 : $P_{25674} = (9, 16, 5, 1)$ lies on line ℓ_9
 226 : $P_{25694} = (29, 16, 5, 1)$ lies on line ℓ_{11}
 227 : $P_{26250} = (9, 25, 5, 1)$ lies on line ℓ_{10}
 228 : $P_{26710} = (21, 32, 5, 1)$ lies on line ℓ_{14}
 229 : $P_{26799} = (46, 33, 5, 1)$ lies on line ℓ_5
 230 : $P_{27558} = (37, 45, 5, 1)$ lies on line ℓ_6
 231 : $P_{27979} = (10, 52, 5, 1)$ lies on line ℓ_7
 232 : $P_{28054} = (21, 53, 5, 1)$ lies on line ℓ_{12}
 233 : $P_{28619} = (10, 62, 5, 1)$ lies on line ℓ_8
 234 : $P_{29286} = (37, 8, 6, 1)$ lies on line ℓ_3
 235 : $P_{29653} = (20, 14, 6, 1)$ lies on line ℓ_{10}
 236 : $P_{29743} = (46, 15, 6, 1)$ lies on line ℓ_4
 237 : $P_{30278} = (5, 24, 6, 1)$ lies on line ℓ_{14}
 238 : $P_{30421} = (20, 26, 6, 1)$ lies on line ℓ_9
 239 : $P_{30598} = (5, 29, 6, 1)$ lies on line ℓ_{12}
 240 : $P_{30895} = (46, 33, 6, 1)$ lies on line ℓ_5
 241 : $P_{31569} = (16, 44, 6, 1)$ lies on line ℓ_{11}
 242 : $P_{31654} = (37, 45, 6, 1)$ lies on line ℓ_6
 243 : $P_{32075} = (10, 52, 6, 1)$ lies on line ℓ_7
 244 : $P_{32593} = (16, 60, 6, 1)$ lies on line ℓ_{13}
 245 : $P_{32715} = (10, 62, 6, 1)$ lies on line ℓ_8
 246 : $P_{33056} = (31, 3, 7, 1)$ lies on line ℓ_{10}
 247 : $P_{33195} = (42, 5, 7, 1)$ lies on line ℓ_{12}
 248 : $P_{33382} = (37, 8, 7, 1)$ lies on line ℓ_3
 249 : $P_{33653} = (52, 12, 7, 1)$ lies on line ℓ_{13}
 250 : $P_{33839} = (46, 15, 7, 1)$ lies on line ℓ_4
 251 : $P_{34656} = (31, 28, 7, 1)$ lies on line ℓ_9
 252 : $P_{34991} = (46, 33, 7, 1)$ lies on line ℓ_5
 253 : $P_{35750} = (37, 45, 7, 1)$ lies on line ℓ_6
 254 : $P_{35883} = (42, 47, 7, 1)$ lies on line ℓ_{14}
 255 : $P_{36171} = (10, 52, 7, 1)$ lies on line ℓ_7
 256 : $P_{36469} = (52, 56, 7, 1)$ lies on line ℓ_{11}
 257 : $P_{36811} = (10, 62, 7, 1)$ lies on line ℓ_8
 258 : $P_{37478} = (37, 8, 8, 1)$ lies on line ℓ_3
 259 : $P_{37935} = (46, 15, 8, 1)$ lies on line ℓ_4
 260 : $P_{39087} = (46, 33, 8, 1)$ lies on line ℓ_5
 261 : $P_{39576} = (23, 41, 8, 1)$ lies on line ℓ_{10}
 262 : $P_{39846} = (37, 45, 8, 1)$ lies on line ℓ_6
 263 : $P_{39900} = (27, 46, 8, 1)$ lies on line ℓ_{12}
 264 : $P_{40267} = (10, 52, 8, 1)$ lies on line ℓ_7
 265 : $P_{40348} = (27, 53, 8, 1)$ lies on line ℓ_{14}
 266 : $P_{40398} = (13, 54, 8, 1)$ lies on line ℓ_{11}
 267 : $P_{40718} = (13, 59, 8, 1)$ lies on line ℓ_{13}
 268 : $P_{40907} = (10, 62, 8, 1)$ lies on line ℓ_8
 269 : $P_{40920} = (23, 62, 8, 1)$ lies on line ℓ_9
 270 : $P_{41205} = (52, 2, 9, 1)$ lies on line ℓ_{14}
 271 : $P_{41574} = (37, 8, 9, 1)$ lies on line ℓ_3
 272 : $P_{41770} = (41, 11, 9, 1)$ lies on line ℓ_{13}
 273 : $P_{42031} = (46, 15, 9, 1)$ lies on line ℓ_4
 274 : $P_{43183} = (46, 33, 9, 1)$ lies on line ℓ_5
 275 : $P_{43242} = (41, 34, 9, 1)$ lies on line ℓ_{11}

276 : $P_{43357} = (28, 36, 9, 1)$ lies on line ℓ_{10}
 277 : $P_{43942} = (37, 45, 9, 1)$ lies on line ℓ_6
 278 : $P_{44363} = (10, 52, 9, 1)$ lies on line ℓ_7
 279 : $P_{44533} = (52, 54, 9, 1)$ lies on line ℓ_{12}
 280 : $P_{44637} = (28, 56, 9, 1)$ lies on line ℓ_9
 281 : $P_{45003} = (10, 62, 9, 1)$ lies on line ℓ_8
 282 : $P_{45670} = (37, 8, 10, 1)$ lies on line ℓ_3
 283 : $P_{46127} = (46, 15, 10, 1)$ lies on line ℓ_4
 284 : $P_{47279} = (46, 33, 10, 1)$ lies on line ℓ_5
 285 : $P_{48038} = (37, 45, 10, 1)$ lies on line ℓ_6
 286 : $P_{48322} = (1, 50, 10, 1)$ lies on line ℓ_9
 287 : $P_{48386} = (1, 51, 10, 1)$ lies on line ℓ_{10}
 288 : $P_{48459} = (10, 52, 10, 1)$ lies on line ℓ_7
 289 : $P_{49099} = (10, 62, 10, 1)$ lies on line ℓ_8
 290 : $P_{49612} = (11, 6, 11, 1)$ lies on line ℓ_{12}
 291 : $P_{49766} = (37, 8, 11, 1)$ lies on line ℓ_3
 292 : $P_{50060} = (11, 13, 11, 1)$ lies on line ℓ_{14}
 293 : $P_{50223} = (46, 15, 11, 1)$ lies on line ℓ_4
 294 : $P_{51375} = (46, 33, 11, 1)$ lies on line ℓ_5
 295 : $P_{52134} = (37, 45, 11, 1)$ lies on line ℓ_6
 296 : $P_{53823} = (62, 7, 12, 1)$ lies on line ℓ_{11}
 297 : $P_{53862} = (37, 8, 12, 1)$ lies on line ℓ_3
 298 : $P_{54319} = (46, 15, 12, 1)$ lies on line ℓ_4
 299 : $P_{55228} = (59, 29, 12, 1)$ lies on line ℓ_{10}
 300 : $P_{55471} = (46, 33, 12, 1)$ lies on line ℓ_5
 301 : $P_{55804} = (59, 38, 12, 1)$ lies on line ℓ_9
 302 : $P_{56069} = (4, 43, 12, 1)$ lies on line ℓ_{14}
 303 : $P_{56230} = (37, 45, 12, 1)$ lies on line ℓ_6
 304 : $P_{56325} = (4, 47, 12, 1)$ lies on line ℓ_{12}
 305 : $P_{56651} = (10, 52, 12, 1)$ lies on line ℓ_7
 306 : $P_{57023} = (62, 57, 12, 1)$ lies on line ℓ_{13}
 307 : $P_{57291} = (10, 62, 12, 1)$ lies on line ℓ_8
 308 : $P_{57958} = (37, 8, 13, 1)$ lies on line ℓ_3
 309 : $P_{58011} = (26, 9, 13, 1)$ lies on line ℓ_{13}
 310 : $P_{58415} = (46, 15, 13, 1)$ lies on line ℓ_4
 311 : $P_{58481} = (48, 16, 13, 1)$ lies on line ℓ_{10}
 312 : $P_{58651} = (26, 19, 13, 1)$ lies on line ℓ_{11}
 313 : $P_{59244} = (43, 28, 13, 1)$ lies on line ℓ_{14}
 314 : $P_{59505} = (48, 32, 13, 1)$ lies on line ℓ_9
 315 : $P_{59567} = (46, 33, 13, 1)$ lies on line ℓ_5
 316 : $P_{60326} = (37, 45, 13, 1)$ lies on line ℓ_6
 317 : $P_{60747} = (10, 52, 13, 1)$ lies on line ℓ_7
 318 : $P_{60972} = (43, 55, 13, 1)$ lies on line ℓ_{12}
 319 : $P_{61387} = (10, 62, 13, 1)$ lies on line ℓ_8
 320 : $P_{61998} = (45, 7, 14, 1)$ lies on line ℓ_{10}
 321 : $P_{62054} = (37, 8, 14, 1)$ lies on line ℓ_3
 322 : $P_{62511} = (46, 15, 14, 1)$ lies on line ℓ_4
 323 : $P_{63548} = (59, 31, 14, 1)$ lies on line ℓ_{12}
 324 : $P_{63663} = (46, 33, 14, 1)$ lies on line ℓ_5
 325 : $P_{63868} = (59, 36, 14, 1)$ lies on line ℓ_{14}
 326 : $P_{64238} = (45, 42, 14, 1)$ lies on line ℓ_9
 327 : $P_{64422} = (37, 45, 14, 1)$ lies on line ℓ_6
 328 : $P_{64536} = (23, 47, 14, 1)$ lies on line ℓ_{11}
 329 : $P_{64843} = (10, 52, 14, 1)$ lies on line ℓ_7

330 : $P_{65112} = (23, 56, 14, 1)$ lies on line ℓ_{13}
 331 : $P_{65483} = (10, 62, 14, 1)$ lies on line ℓ_8
 332 : $P_{66069} = (20, 7, 15, 1)$ lies on line ℓ_{12}
 333 : $P_{66150} = (37, 8, 15, 1)$ lies on line ℓ_3
 334 : $P_{66164} = (51, 8, 15, 1)$ lies on line ℓ_{13}
 335 : $P_{66279} = (38, 10, 15, 1)$ lies on line ℓ_{10}
 336 : $P_{66607} = (46, 15, 15, 1)$ lies on line ℓ_4
 337 : $P_{66837} = (20, 19, 15, 1)$ lies on line ℓ_{14}
 338 : $P_{67759} = (46, 33, 15, 1)$ lies on line ℓ_5
 339 : $P_{68455} = (38, 44, 15, 1)$ lies on line ℓ_9
 340 : $P_{68518} = (37, 45, 15, 1)$ lies on line ℓ_6
 341 : $P_{68939} = (10, 52, 15, 1)$ lies on line ℓ_7
 342 : $P_{69428} = (51, 59, 15, 1)$ lies on line ℓ_{11}
 343 : $P_{69579} = (10, 62, 15, 1)$ lies on line ℓ_8
 344 : $P_{70246} = (37, 8, 16, 1)$ lies on line ℓ_3
 345 : $P_{70703} = (46, 15, 16, 1)$ lies on line ℓ_4
 346 : $P_{70718} = (61, 15, 16, 1)$ lies on line ℓ_9
 347 : $P_{70777} = (56, 16, 16, 1)$ lies on line ℓ_{14}
 348 : $P_{71855} = (46, 33, 16, 1)$ lies on line ℓ_5
 349 : $P_{72313} = (56, 40, 16, 1)$ lies on line ℓ_{12}
 350 : $P_{72614} = (37, 45, 16, 1)$ lies on line ℓ_6
 351 : $P_{72958} = (61, 50, 16, 1)$ lies on line ℓ_{10}
 352 : $P_{72965} = (4, 51, 16, 1)$ lies on line ℓ_{11}
 353 : $P_{73035} = (10, 52, 16, 1)$ lies on line ℓ_7
 354 : $P_{73221} = (4, 55, 16, 1)$ lies on line ℓ_{13}
 355 : $P_{73675} = (10, 62, 16, 1)$ lies on line ℓ_8
 356 : $P_{74273} = (32, 7, 17, 1)$ lies on line ℓ_{13}
 357 : $P_{74342} = (37, 8, 17, 1)$ lies on line ℓ_3
 358 : $P_{74423} = (54, 9, 17, 1)$ lies on line ℓ_9
 359 : $P_{74799} = (46, 15, 17, 1)$ lies on line ℓ_4
 360 : $P_{75951} = (46, 33, 17, 1)$ lies on line ℓ_5
 361 : $P_{76312} = (23, 39, 17, 1)$ lies on line ℓ_{14}
 362 : $P_{76321} = (32, 39, 17, 1)$ lies on line ℓ_{11}
 363 : $P_{76710} = (37, 45, 17, 1)$ lies on line ℓ_6
 364 : $P_{76888} = (23, 48, 17, 1)$ lies on line ℓ_{12}
 365 : $P_{77131} = (10, 52, 17, 1)$ lies on line ℓ_7
 366 : $P_{77771} = (10, 62, 17, 1)$ lies on line ℓ_8
 367 : $P_{77879} = (54, 63, 17, 1)$ lies on line ℓ_{10}
 368 : $P_{78124} = (43, 3, 18, 1)$ lies on line ℓ_9
 369 : $P_{78438} = (37, 8, 18, 1)$ lies on line ℓ_3
 370 : $P_{78895} = (46, 15, 18, 1)$ lies on line ℓ_4
 371 : $P_{79432} = (7, 24, 18, 1)$ lies on line ℓ_{12}
 372 : $P_{79662} = (45, 27, 18, 1)$ lies on line ℓ_{11}
 373 : $P_{79880} = (7, 31, 18, 1)$ lies on line ℓ_{14}
 374 : $P_{80047} = (46, 33, 18, 1)$ lies on line ℓ_5
 375 : $P_{80492} = (43, 40, 18, 1)$ lies on line ℓ_{10}
 376 : $P_{80806} = (37, 45, 18, 1)$ lies on line ℓ_6
 377 : $P_{81227} = (10, 52, 18, 1)$ lies on line ℓ_7
 378 : $P_{81390} = (45, 54, 18, 1)$ lies on line ℓ_{13}
 379 : $P_{81867} = (10, 62, 18, 1)$ lies on line ℓ_8
 380 : $P_{82025} = (40, 0, 19, 1)$ lies on line ℓ_{12}
 381 : $P_{82337} = (32, 5, 19, 1)$ lies on line ℓ_9
 382 : $P_{82378} = (9, 6, 19, 1)$ lies on line ℓ_{13}
 383 : $P_{82534} = (37, 8, 19, 1)$ lies on line ℓ_3

384 : $P_{82954} = (9, 15, 19, 1)$ lies on line ℓ_{11}
 385 : $P_{82991} = (46, 15, 19, 1)$ lies on line ℓ_4
 386 : $P_{84143} = (46, 33, 19, 1)$ lies on line ℓ_5
 387 : $P_{84385} = (32, 37, 19, 1)$ lies on line ℓ_{10}
 388 : $P_{84585} = (40, 40, 19, 1)$ lies on line ℓ_{14}
 389 : $P_{84902} = (37, 45, 19, 1)$ lies on line ℓ_6
 390 : $P_{85323} = (10, 52, 19, 1)$ lies on line ℓ_7
 391 : $P_{85963} = (10, 62, 19, 1)$ lies on line ℓ_8
 392 : $P_{86264} = (55, 2, 20, 1)$ lies on line ℓ_{11}
 393 : $P_{86482} = (17, 6, 20, 1)$ lies on line ℓ_{10}
 394 : $P_{86630} = (37, 8, 20, 1)$ lies on line ℓ_3
 395 : $P_{87016} = (39, 14, 20, 1)$ lies on line ℓ_{14}
 396 : $P_{87087} = (46, 15, 20, 1)$ lies on line ℓ_4
 397 : $P_{87570} = (17, 23, 20, 1)$ lies on line ℓ_9
 398 : $P_{88239} = (46, 33, 20, 1)$ lies on line ℓ_5
 399 : $P_{88744} = (39, 41, 20, 1)$ lies on line ℓ_{12}
 400 : $P_{88998} = (37, 45, 20, 1)$ lies on line ℓ_6
 401 : $P_{89419} = (10, 52, 20, 1)$ lies on line ℓ_7
 402 : $P_{89528} = (55, 53, 20, 1)$ lies on line ℓ_{13}
 403 : $P_{90059} = (10, 62, 20, 1)$ lies on line ℓ_8
 404 : $P_{90516} = (19, 5, 21, 1)$ lies on line ℓ_{13}
 405 : $P_{90726} = (37, 8, 21, 1)$ lies on line ℓ_3
 406 : $P_{90907} = (26, 11, 21, 1)$ lies on line ℓ_{10}
 407 : $P_{91183} = (46, 15, 21, 1)$ lies on line ℓ_4
 408 : $P_{91291} = (26, 17, 21, 1)$ lies on line ℓ_9
 409 : $P_{91604} = (19, 22, 21, 1)$ lies on line ℓ_{11}
 410 : $P_{92335} = (46, 33, 21, 1)$ lies on line ℓ_5
 411 : $P_{93094} = (37, 45, 21, 1)$ lies on line ℓ_6
 412 : $P_{93321} = (8, 49, 21, 1)$ lies on line ℓ_{12}
 413 : $P_{93515} = (10, 52, 21, 1)$ lies on line ℓ_7
 414 : $P_{93833} = (8, 57, 21, 1)$ lies on line ℓ_{14}
 415 : $P_{94155} = (10, 62, 21, 1)$ lies on line ℓ_8
 416 : $P_{94361} = (24, 1, 22, 1)$ lies on line ℓ_{14}
 417 : $P_{94822} = (37, 8, 22, 1)$ lies on line ℓ_3
 418 : $P_{95279} = (46, 15, 22, 1)$ lies on line ℓ_4
 419 : $P_{95897} = (24, 25, 22, 1)$ lies on line ℓ_{12}
 420 : $P_{96008} = (7, 27, 22, 1)$ lies on line ℓ_9
 421 : $P_{96072} = (7, 28, 22, 1)$ lies on line ℓ_{10}
 422 : $P_{96431} = (46, 33, 22, 1)$ lies on line ℓ_5
 423 : $P_{96991} = (30, 42, 22, 1)$ lies on line ℓ_{11}
 424 : $P_{97190} = (37, 45, 22, 1)$ lies on line ℓ_6
 425 : $P_{97611} = (10, 52, 22, 1)$ lies on line ℓ_7
 426 : $P_{97631} = (30, 52, 22, 1)$ lies on line ℓ_{13}
 427 : $P_{98251} = (10, 62, 22, 1)$ lies on line ℓ_8
 428 : $P_{98488} = (55, 1, 23, 1)$ lies on line ℓ_{12}
 429 : $P_{98683} = (58, 4, 23, 1)$ lies on line ℓ_{13}
 430 : $P_{98918} = (37, 8, 23, 1)$ lies on line ℓ_3
 431 : $P_{99375} = (46, 15, 23, 1)$ lies on line ℓ_4
 432 : $P_{99469} = (12, 17, 23, 1)$ lies on line ℓ_{10}
 433 : $P_{100237} = (12, 29, 23, 1)$ lies on line ℓ_9
 434 : $P_{100527} = (46, 33, 23, 1)$ lies on line ℓ_5
 435 : $P_{101286} = (37, 45, 23, 1)$ lies on line ℓ_6
 436 : $P_{101707} = (10, 52, 23, 1)$ lies on line ℓ_7
 437 : $P_{101880} = (55, 54, 23, 1)$ lies on line ℓ_{14}

438 : $P_{102347} = (10, 62, 23, 1)$ lies on line ℓ_8
 439 : $P_{102395} = (58, 62, 23, 1)$ lies on line ℓ_{11}
 440 : $P_{103014} = (37, 8, 24, 1)$ lies on line ℓ_3
 441 : $P_{103471} = (46, 15, 24, 1)$ lies on line ℓ_4
 442 : $P_{104623} = (46, 33, 24, 1)$ lies on line ℓ_5
 443 : $P_{105159} = (6, 42, 24, 1)$ lies on line ℓ_{12}
 444 : $P_{105287} = (6, 44, 24, 1)$ lies on line ℓ_{14}
 445 : $P_{105382} = (37, 45, 24, 1)$ lies on line ℓ_6
 446 : $P_{105540} = (3, 48, 24, 1)$ lies on line ℓ_{11}
 447 : $P_{105732} = (3, 51, 24, 1)$ lies on line ℓ_{13}
 448 : $P_{105803} = (10, 52, 24, 1)$ lies on line ℓ_7
 449 : $P_{106245} = (4, 59, 24, 1)$ lies on line ℓ_{10}
 450 : $P_{106443} = (10, 62, 24, 1)$ lies on line ℓ_8
 451 : $P_{106501} = (4, 63, 24, 1)$ lies on line ℓ_9
 452 : $P_{106792} = (39, 3, 25, 1)$ lies on line ℓ_{13}
 453 : $P_{107110} = (37, 8, 25, 1)$ lies on line ℓ_3
 454 : $P_{107567} = (46, 15, 25, 1)$ lies on line ℓ_4
 455 : $P_{108330} = (41, 27, 25, 1)$ lies on line ℓ_{14}
 456 : $P_{108719} = (46, 33, 25, 1)$ lies on line ℓ_5
 457 : $P_{108904} = (39, 36, 25, 1)$ lies on line ℓ_{11}
 458 : $P_{109478} = (37, 45, 25, 1)$ lies on line ℓ_6
 459 : $P_{109802} = (41, 50, 25, 1)$ lies on line ℓ_{12}
 460 : $P_{109899} = (10, 52, 25, 1)$ lies on line ℓ_7
 461 : $P_{110032} = (15, 54, 25, 1)$ lies on line ℓ_{10}
 462 : $P_{110224} = (15, 57, 25, 1)$ lies on line ℓ_9
 463 : $P_{110539} = (10, 62, 25, 1)$ lies on line ℓ_8
 464 : $P_{111206} = (37, 8, 26, 1)$ lies on line ℓ_3
 465 : $P_{111663} = (46, 15, 26, 1)$ lies on line ℓ_4
 466 : $P_{112235} = (42, 24, 26, 1)$ lies on line ℓ_{11}
 467 : $P_{112378} = (57, 26, 26, 1)$ lies on line ℓ_{12}
 468 : $P_{112787} = (18, 33, 26, 1)$ lies on line ℓ_{10}
 469 : $P_{112815} = (46, 33, 26, 1)$ lies on line ℓ_5
 470 : $P_{112954} = (57, 35, 26, 1)$ lies on line ℓ_{14}
 471 : $P_{113574} = (37, 45, 26, 1)$ lies on line ℓ_6
 472 : $P_{113899} = (42, 50, 26, 1)$ lies on line ℓ_{13}
 473 : $P_{113939} = (18, 51, 26, 1)$ lies on line ℓ_9
 474 : $P_{113995} = (10, 52, 26, 1)$ lies on line ℓ_7
 475 : $P_{114635} = (10, 62, 26, 1)$ lies on line ℓ_8
 476 : $P_{114895} = (14, 2, 27, 1)$ lies on line ℓ_{13}
 477 : $P_{114903} = (22, 2, 27, 1)$ lies on line ℓ_{12}
 478 : $P_{115302} = (37, 8, 27, 1)$ lies on line ℓ_3
 479 : $P_{115535} = (14, 12, 27, 1)$ lies on line ℓ_{11}
 480 : $P_{115759} = (46, 15, 27, 1)$ lies on line ℓ_4
 481 : $P_{116055} = (22, 20, 27, 1)$ lies on line ℓ_{14}
 482 : $P_{116911} = (46, 33, 27, 1)$ lies on line ℓ_5
 483 : $P_{117594} = (25, 44, 27, 1)$ lies on line ℓ_{10}
 484 : $P_{117670} = (37, 45, 27, 1)$ lies on line ℓ_6
 485 : $P_{118091} = (10, 52, 27, 1)$ lies on line ℓ_7
 486 : $P_{118170} = (25, 53, 27, 1)$ lies on line ℓ_9
 487 : $P_{118731} = (10, 62, 27, 1)$ lies on line ℓ_8
 488 : $P_{118961} = (48, 1, 28, 1)$ lies on line ℓ_{11}
 489 : $P_{119398} = (37, 8, 28, 1)$ lies on line ℓ_3
 490 : $P_{119849} = (40, 15, 28, 1)$ lies on line ℓ_{10}
 491 : $P_{119855} = (46, 15, 28, 1)$ lies on line ℓ_4

492 : $P_{121007} = (46, 33, 28, 1)$ lies on line ℓ_5
 493 : $P_{121385} = (40, 39, 28, 1)$ lies on line ℓ_9
 494 : $P_{121626} = (25, 43, 28, 1)$ lies on line ℓ_{12}
 495 : $P_{121766} = (37, 45, 28, 1)$ lies on line ℓ_6
 496 : $P_{122033} = (48, 49, 28, 1)$ lies on line ℓ_{13}
 497 : $P_{122074} = (25, 50, 28, 1)$ lies on line ℓ_{14}
 498 : $P_{122187} = (10, 52, 28, 1)$ lies on line ℓ_7
 499 : $P_{122827} = (10, 62, 28, 1)$ lies on line ℓ_8
 500 : $P_{123029} = (20, 1, 29, 1)$ lies on line ℓ_{13}
 501 : $P_{123108} = (35, 2, 29, 1)$ lies on line ℓ_{10}
 502 : $P_{123319} = (54, 5, 29, 1)$ lies on line ℓ_{14}
 503 : $P_{123494} = (37, 8, 29, 1)$ lies on line ℓ_3
 504 : $P_{123951} = (46, 15, 29, 1)$ lies on line ℓ_4
 505 : $P_{124309} = (20, 21, 29, 1)$ lies on line ℓ_{11}
 506 : $P_{125092} = (35, 33, 29, 1)$ lies on line ℓ_9
 507 : $P_{125103} = (46, 33, 29, 1)$ lies on line ℓ_5
 508 : $P_{125862} = (37, 45, 29, 1)$ lies on line ℓ_6
 509 : $P_{126263} = (54, 51, 29, 1)$ lies on line ℓ_{12}
 510 : $P_{126283} = (10, 52, 29, 1)$ lies on line ℓ_7
 511 : $P_{126923} = (10, 62, 29, 1)$ lies on line ℓ_8
 512 : $P_{127590} = (37, 8, 30, 1)$ lies on line ℓ_3
 513 : $P_{128047} = (46, 15, 30, 1)$ lies on line ℓ_4
 514 : $P_{128447} = (62, 21, 30, 1)$ lies on line ℓ_{10}
 515 : $P_{128807} = (38, 27, 30, 1)$ lies on line ℓ_{12}
 516 : $P_{129199} = (46, 33, 30, 1)$ lies on line ℓ_5
 517 : $P_{129690} = (25, 41, 30, 1)$ lies on line ℓ_{11}
 518 : $P_{129855} = (62, 43, 30, 1)$ lies on line ℓ_9
 519 : $P_{129958} = (37, 45, 30, 1)$ lies on line ℓ_6
 520 : $P_{130138} = (25, 48, 30, 1)$ lies on line ℓ_{13}
 521 : $P_{130379} = (10, 52, 30, 1)$ lies on line ℓ_7
 522 : $P_{130983} = (38, 61, 30, 1)$ lies on line ℓ_{14}
 523 : $P_{131019} = (10, 62, 30, 1)$ lies on line ℓ_8
 524 : $P_{131198} = (61, 0, 31, 1)$ lies on line ℓ_{13}
 525 : $P_{131338} = (9, 3, 31, 1)$ lies on line ℓ_{12}
 526 : $P_{131686} = (37, 8, 31, 1)$ lies on line ℓ_3
 527 : $P_{131786} = (9, 10, 31, 1)$ lies on line ℓ_{14}
 528 : $P_{132143} = (46, 15, 31, 1)$ lies on line ℓ_4
 529 : $P_{132726} = (53, 24, 31, 1)$ lies on line ℓ_{10}
 530 : $P_{133295} = (46, 33, 31, 1)$ lies on line ℓ_5
 531 : $P_{134054} = (37, 45, 31, 1)$ lies on line ℓ_6
 532 : $P_{134070} = (53, 45, 31, 1)$ lies on line ℓ_9
 533 : $P_{134475} = (10, 52, 31, 1)$ lies on line ℓ_7
 534 : $P_{135102} = (61, 61, 31, 1)$ lies on line ℓ_{11}
 535 : $P_{135115} = (10, 62, 31, 1)$ lies on line ℓ_8
 536 : $P_{135497} = (8, 4, 32, 1)$ lies on line ℓ_{10}
 537 : $P_{135782} = (37, 8, 32, 1)$ lies on line ℓ_3
 538 : $P_{136009} = (8, 12, 32, 1)$ lies on line ℓ_9
 539 : $P_{136239} = (46, 15, 32, 1)$ lies on line ℓ_4
 540 : $P_{137391} = (46, 33, 32, 1)$ lies on line ℓ_5
 541 : $P_{137568} = (31, 36, 32, 1)$ lies on line ℓ_{12}
 542 : $P_{138150} = (37, 45, 32, 1)$ lies on line ℓ_6
 543 : $P_{138263} = (22, 47, 32, 1)$ lies on line ℓ_{13}
 544 : $P_{138571} = (10, 52, 32, 1)$ lies on line ℓ_7
 545 : $P_{138903} = (22, 57, 32, 1)$ lies on line ℓ_{11}

546 : $P_{139040} = (31, 59, 32, 1)$ lies on line ℓ_{14}
 547 : $P_{139211} = (10, 62, 32, 1)$ lies on line ℓ_8
 548 : $P_{139878} = (37, 8, 33, 1)$ lies on line ℓ_3
 549 : $P_{139908} = (3, 9, 33, 1)$ lies on line ℓ_{10}
 550 : $P_{139972} = (3, 10, 33, 1)$ lies on line ℓ_9
 551 : $P_{140145} = (48, 12, 33, 1)$ lies on line ℓ_{14}
 552 : $P_{140335} = (46, 15, 33, 1)$ lies on line ℓ_4
 553 : $P_{141363} = (50, 31, 33, 1)$ lies on line ℓ_{13}
 554 : $P_{141487} = (46, 33, 33, 1)$ lies on line ℓ_5
 555 : $P_{142246} = (37, 45, 33, 1)$ lies on line ℓ_6
 556 : $P_{142259} = (50, 45, 33, 1)$ lies on line ℓ_{11}
 557 : $P_{142667} = (10, 52, 33, 1)$ lies on line ℓ_7
 558 : $P_{143217} = (48, 60, 33, 1)$ lies on line ℓ_{12}
 559 : $P_{143307} = (10, 62, 33, 1)$ lies on line ℓ_8
 560 : $P_{143455} = (30, 0, 34, 1)$ lies on line ℓ_9
 561 : $P_{143974} = (37, 8, 34, 1)$ lies on line ℓ_3
 562 : $P_{144431} = (46, 15, 34, 1)$ lies on line ℓ_4
 563 : $P_{144576} = (63, 17, 34, 1)$ lies on line ℓ_{11}
 564 : $P_{144737} = (32, 20, 34, 1)$ lies on line ℓ_{12}
 565 : $P_{145375} = (30, 30, 34, 1)$ lies on line ℓ_{10}
 566 : $P_{145583} = (46, 33, 34, 1)$ lies on line ℓ_5
 567 : $P_{146342} = (37, 45, 34, 1)$ lies on line ℓ_6
 568 : $P_{146432} = (63, 46, 34, 1)$ lies on line ℓ_{13}
 569 : $P_{146763} = (10, 52, 34, 1)$ lies on line ℓ_7
 570 : $P_{146785} = (32, 52, 34, 1)$ lies on line ℓ_{14}
 571 : $P_{147403} = (10, 62, 34, 1)$ lies on line ℓ_8
 572 : $P_{147728} = (15, 3, 35, 1)$ lies on line ℓ_{14}
 573 : $P_{147868} = (27, 5, 35, 1)$ lies on line ℓ_{11}
 574 : $P_{147926} = (21, 6, 35, 1)$ lies on line ℓ_9
 575 : $P_{148070} = (37, 8, 35, 1)$ lies on line ℓ_3
 576 : $P_{148304} = (15, 12, 35, 1)$ lies on line ℓ_{12}
 577 : $P_{148527} = (46, 15, 35, 1)$ lies on line ℓ_4
 578 : $P_{148758} = (21, 19, 35, 1)$ lies on line ℓ_{10}
 579 : $P_{149468} = (27, 30, 35, 1)$ lies on line ℓ_{13}
 580 : $P_{149679} = (46, 33, 35, 1)$ lies on line ℓ_5
 581 : $P_{150438} = (37, 45, 35, 1)$ lies on line ℓ_6
 582 : $P_{150859} = (10, 52, 35, 1)$ lies on line ℓ_7
 583 : $P_{151499} = (10, 62, 35, 1)$ lies on line ℓ_8
 584 : $P_{152623} = (46, 15, 36, 1)$ lies on line ℓ_4
 585 : $P_{152933} = (36, 20, 36, 1)$ lies on line ℓ_9
 586 : $P_{153775} = (46, 33, 36, 1)$ lies on line ℓ_5
 587 : $P_{154725} = (36, 48, 36, 1)$ lies on line ℓ_{10}
 588 : $P_{154955} = (10, 52, 36, 1)$ lies on line ℓ_7
 589 : $P_{155595} = (10, 62, 36, 1)$ lies on line ℓ_8
 590 : $P_{156262} = (37, 8, 37, 1)$ lies on line ℓ_3
 591 : $P_{156719} = (46, 15, 37, 1)$ lies on line ℓ_4
 592 : $P_{157506} = (1, 28, 37, 1)$ lies on line ℓ_{11}
 593 : $P_{157570} = (1, 29, 37, 1)$ lies on line ℓ_{13}
 594 : $P_{157871} = (46, 33, 37, 1)$ lies on line ℓ_5
 595 : $P_{158630} = (37, 45, 37, 1)$ lies on line ℓ_6
 596 : $P_{159051} = (10, 52, 37, 1)$ lies on line ℓ_7
 597 : $P_{159691} = (10, 62, 37, 1)$ lies on line ℓ_8
 598 : $P_{160358} = (37, 8, 38, 1)$ lies on line ℓ_3
 599 : $P_{160815} = (46, 15, 38, 1)$ lies on line ℓ_4

600 : $P_{161216} = (63, 21, 38, 1)$ lies on line ℓ_{12}
 601 : $P_{161395} = (50, 24, 38, 1)$ lies on line ℓ_9
 602 : $P_{161869} = (12, 32, 38, 1)$ lies on line ℓ_{11}
 603 : $P_{161967} = (46, 33, 38, 1)$ lies on line ℓ_5
 604 : $P_{162547} = (50, 42, 38, 1)$ lies on line ℓ_{10}
 605 : $P_{162560} = (63, 42, 38, 1)$ lies on line ℓ_{14}
 606 : $P_{162637} = (12, 44, 38, 1)$ lies on line ℓ_{13}
 607 : $P_{162726} = (37, 45, 38, 1)$ lies on line ℓ_6
 608 : $P_{163147} = (10, 52, 38, 1)$ lies on line ℓ_7
 609 : $P_{163787} = (10, 62, 38, 1)$ lies on line ℓ_8
 610 : $P_{164454} = (37, 8, 39, 1)$ lies on line ℓ_3
 611 : $P_{164753} = (16, 13, 39, 1)$ lies on line ℓ_{12}
 612 : $P_{164911} = (46, 15, 39, 1)$ lies on line ℓ_4
 613 : $P_{165737} = (40, 28, 39, 1)$ lies on line ℓ_{13}
 614 : $P_{165777} = (16, 29, 39, 1)$ lies on line ℓ_{14}
 615 : $P_{165882} = (57, 30, 39, 1)$ lies on line ℓ_9
 616 : $P_{166063} = (46, 33, 39, 1)$ lies on line ℓ_5
 617 : $P_{166458} = (57, 39, 39, 1)$ lies on line ℓ_{10}
 618 : $P_{166822} = (37, 45, 39, 1)$ lies on line ℓ_6
 619 : $P_{167243} = (10, 52, 39, 1)$ lies on line ℓ_7
 620 : $P_{167273} = (40, 52, 39, 1)$ lies on line ℓ_{11}
 621 : $P_{167883} = (10, 62, 39, 1)$ lies on line ℓ_8
 622 : $P_{168482} = (33, 7, 40, 1)$ lies on line ℓ_{14}
 623 : $P_{168550} = (37, 8, 40, 1)$ lies on line ℓ_3
 624 : $P_{168882} = (49, 13, 40, 1)$ lies on line ℓ_{10}
 625 : $P_{169007} = (46, 15, 40, 1)$ lies on line ℓ_4
 626 : $P_{170159} = (46, 33, 40, 1)$ lies on line ℓ_5
 627 : $P_{170466} = (33, 38, 40, 1)$ lies on line ℓ_{12}
 628 : $P_{170770} = (17, 43, 40, 1)$ lies on line ℓ_{13}
 629 : $P_{170918} = (37, 45, 40, 1)$ lies on line ℓ_6
 630 : $P_{171339} = (10, 52, 40, 1)$ lies on line ℓ_7
 631 : $P_{171730} = (17, 58, 40, 1)$ lies on line ℓ_{11}
 632 : $P_{171890} = (49, 60, 40, 1)$ lies on line ℓ_9
 633 : $P_{171979} = (10, 62, 40, 1)$ lies on line ℓ_8
 634 : $P_{172155} = (58, 0, 41, 1)$ lies on line ℓ_{10}
 635 : $P_{172646} = (37, 8, 41, 1)$ lies on line ℓ_3
 636 : $P_{173103} = (46, 15, 41, 1)$ lies on line ℓ_4
 637 : $P_{173878} = (53, 27, 41, 1)$ lies on line ℓ_{13}
 638 : $P_{174255} = (46, 33, 41, 1)$ lies on line ℓ_5
 639 : $P_{175014} = (37, 45, 41, 1)$ lies on line ℓ_6
 640 : $P_{175094} = (53, 46, 41, 1)$ lies on line ℓ_{11}
 641 : $P_{175183} = (14, 48, 41, 1)$ lies on line ℓ_{14}
 642 : $P_{175435} = (10, 52, 41, 1)$ lies on line ℓ_7
 643 : $P_{175867} = (58, 58, 41, 1)$ lies on line ℓ_9
 644 : $P_{176075} = (10, 62, 41, 1)$ lies on line ℓ_8
 645 : $P_{176079} = (14, 62, 41, 1)$ lies on line ℓ_{12}
 646 : $P_{176735} = (30, 8, 42, 1)$ lies on line ℓ_{14}
 647 : $P_{176742} = (37, 8, 42, 1)$ lies on line ℓ_3
 648 : $P_{177199} = (46, 15, 42, 1)$ lies on line ℓ_4
 649 : $P_{177401} = (56, 18, 42, 1)$ lies on line ℓ_{11}
 650 : $P_{177631} = (30, 22, 42, 1)$ lies on line ℓ_{12}
 651 : $P_{177704} = (39, 23, 42, 1)$ lies on line ℓ_{10}
 652 : $P_{178351} = (46, 33, 42, 1)$ lies on line ℓ_5
 653 : $P_{178937} = (56, 42, 42, 1)$ lies on line ℓ_{13}

654 : $P_{179110} = (37, 45, 42, 1)$ lies on line ℓ_6
 655 : $P_{179304} = (39, 48, 42, 1)$ lies on line ℓ_9
 656 : $P_{179531} = (10, 52, 42, 1)$ lies on line ℓ_7
 657 : $P_{180171} = (10, 62, 42, 1)$ lies on line ℓ_8
 658 : $P_{180701} = (28, 6, 43, 1)$ lies on line ℓ_{11}
 659 : $P_{180838} = (37, 8, 43, 1)$ lies on line ℓ_3
 660 : $P_{181234} = (49, 14, 43, 1)$ lies on line ℓ_{12}
 661 : $P_{181295} = (46, 15, 43, 1)$ lies on line ℓ_4
 662 : $P_{181981} = (28, 26, 43, 1)$ lies on line ℓ_{13}
 663 : $P_{181997} = (44, 26, 43, 1)$ lies on line ℓ_{10}
 664 : $P_{182447} = (46, 33, 43, 1)$ lies on line ℓ_5
 665 : $P_{183206} = (37, 45, 43, 1)$ lies on line ℓ_6
 666 : $P_{183627} = (10, 52, 43, 1)$ lies on line ℓ_7
 667 : $P_{183789} = (44, 54, 43, 1)$ lies on line ℓ_9
 668 : $P_{184267} = (10, 62, 43, 1)$ lies on line ℓ_8
 669 : $P_{184370} = (49, 63, 43, 1)$ lies on line ℓ_{14}
 670 : $P_{184934} = (37, 8, 44, 1)$ lies on line ℓ_3
 671 : $P_{185123} = (34, 11, 44, 1)$ lies on line ℓ_{11}
 672 : $P_{185391} = (46, 15, 44, 1)$ lies on line ℓ_4
 673 : $P_{186047} = (62, 25, 44, 1)$ lies on line ℓ_{14}
 674 : $P_{186543} = (46, 33, 44, 1)$ lies on line ℓ_5
 675 : $P_{186718} = (29, 36, 44, 1)$ lies on line ℓ_9
 676 : $P_{186943} = (62, 39, 44, 1)$ lies on line ℓ_{12}
 677 : $P_{187043} = (34, 41, 44, 1)$ lies on line ℓ_{13}
 678 : $P_{187302} = (37, 45, 44, 1)$ lies on line ℓ_6
 679 : $P_{187723} = (10, 52, 44, 1)$ lies on line ℓ_7
 680 : $P_{188062} = (29, 57, 44, 1)$ lies on line ℓ_{10}
 681 : $P_{188363} = (10, 62, 44, 1)$ lies on line ℓ_8
 682 : $P_{189030} = (37, 8, 45, 1)$ lies on line ℓ_3
 683 : $P_{189487} = (46, 15, 45, 1)$ lies on line ℓ_4
 684 : $P_{190087} = (6, 25, 45, 1)$ lies on line ℓ_{13}
 685 : $P_{190471} = (6, 31, 45, 1)$ lies on line ℓ_{11}
 686 : $P_{190639} = (46, 33, 45, 1)$ lies on line ℓ_5
 687 : $P_{190679} = (22, 34, 45, 1)$ lies on line ℓ_9
 688 : $P_{191398} = (37, 45, 45, 1)$ lies on line ℓ_6
 689 : $P_{191442} = (17, 46, 45, 1)$ lies on line ℓ_{14}
 690 : $P_{191819} = (10, 52, 45, 1)$ lies on line ℓ_7
 691 : $P_{191831} = (22, 52, 45, 1)$ lies on line ℓ_{10}
 692 : $P_{192459} = (10, 62, 45, 1)$ lies on line ℓ_8
 693 : $P_{192530} = (17, 63, 45, 1)$ lies on line ℓ_{12}
 694 : $P_{193126} = (37, 8, 46, 1)$ lies on line ℓ_3
 695 : $P_{193583} = (46, 15, 46, 1)$ lies on line ℓ_4
 696 : $P_{193986} = (1, 22, 46, 1)$ lies on line ℓ_{14}
 697 : $P_{194050} = (1, 23, 46, 1)$ lies on line ℓ_{12}
 698 : $P_{194735} = (46, 33, 46, 1)$ lies on line ℓ_5
 699 : $P_{195494} = (37, 45, 46, 1)$ lies on line ℓ_6
 700 : $P_{195915} = (10, 52, 46, 1)$ lies on line ℓ_7
 701 : $P_{196555} = (10, 62, 46, 1)$ lies on line ℓ_8
 702 : $P_{197222} = (37, 8, 47, 1)$ lies on line ℓ_3
 703 : $P_{198256} = (47, 24, 47, 1)$ lies on line ℓ_{13}
 704 : $P_{199590} = (37, 45, 47, 1)$ lies on line ℓ_6
 705 : $P_{200011} = (10, 52, 47, 1)$ lies on line ℓ_7
 706 : $P_{200240} = (47, 55, 47, 1)$ lies on line ℓ_{11}
 707 : $P_{200651} = (10, 62, 47, 1)$ lies on line ℓ_8

708 : $P_{201318} = (37, 8, 48, 1)$ lies on line ℓ_3
 709 : $P_{201628} = (27, 13, 48, 1)$ lies on line ℓ_9
 710 : $P_{201775} = (46, 15, 48, 1)$ lies on line ℓ_4
 711 : $P_{202204} = (27, 22, 48, 1)$ lies on line ℓ_{10}
 712 : $P_{202819} = (2, 32, 48, 1)$ lies on line ℓ_{12}
 713 : $P_{202927} = (46, 33, 48, 1)$ lies on line ℓ_5
 714 : $P_{202947} = (2, 34, 48, 1)$ lies on line ℓ_{14}
 715 : $P_{203289} = (24, 39, 48, 1)$ lies on line ℓ_{13}
 716 : $P_{203686} = (37, 45, 48, 1)$ lies on line ℓ_6
 717 : $P_{204107} = (10, 52, 48, 1)$ lies on line ℓ_7
 718 : $P_{204747} = (10, 62, 48, 1)$ lies on line ℓ_8
 719 : $P_{204825} = (24, 63, 48, 1)$ lies on line ℓ_{11}
 720 : $P_{205414} = (37, 8, 49, 1)$ lies on line ℓ_3
 721 : $P_{205585} = (16, 11, 49, 1)$ lies on line ℓ_9
 722 : $P_{205871} = (46, 15, 49, 1)$ lies on line ℓ_4
 723 : $P_{206254} = (45, 21, 49, 1)$ lies on line ℓ_{14}
 724 : $P_{206397} = (60, 23, 49, 1)$ lies on line ℓ_{13}
 725 : $P_{206609} = (16, 27, 49, 1)$ lies on line ℓ_{10}
 726 : $P_{207023} = (46, 33, 49, 1)$ lies on line ℓ_5
 727 : $P_{207677} = (60, 43, 49, 1)$ lies on line ℓ_{11}
 728 : $P_{207782} = (37, 45, 49, 1)$ lies on line ℓ_6
 729 : $P_{208203} = (10, 52, 49, 1)$ lies on line ℓ_7
 730 : $P_{208494} = (45, 56, 49, 1)$ lies on line ℓ_{12}
 731 : $P_{208843} = (10, 62, 49, 1)$ lies on line ℓ_8
 732 : $P_{209038} = (13, 1, 50, 1)$ lies on line ℓ_9
 733 : $P_{209510} = (37, 8, 50, 1)$ lies on line ℓ_3
 734 : $P_{209742} = (13, 12, 50, 1)$ lies on line ℓ_{10}
 735 : $P_{209967} = (46, 15, 50, 1)$ lies on line ℓ_4
 736 : $P_{210046} = (61, 16, 50, 1)$ lies on line ℓ_{12}
 737 : $P_{210482} = (49, 23, 50, 1)$ lies on line ℓ_{11}
 738 : $P_{211119} = (46, 33, 50, 1)$ lies on line ℓ_5
 739 : $P_{211442} = (49, 38, 50, 1)$ lies on line ℓ_{13}
 740 : $P_{211878} = (37, 45, 50, 1)$ lies on line ℓ_6
 741 : $P_{211902} = (61, 45, 50, 1)$ lies on line ℓ_{14}
 742 : $P_{212299} = (10, 52, 50, 1)$ lies on line ℓ_7
 743 : $P_{212939} = (10, 62, 50, 1)$ lies on line ℓ_8
 744 : $P_{213127} = (6, 1, 51, 1)$ lies on line ℓ_{10}
 745 : $P_{213270} = (21, 3, 51, 1)$ lies on line ℓ_{11}
 746 : $P_{213511} = (6, 7, 51, 1)$ lies on line ℓ_9
 747 : $P_{213587} = (18, 8, 51, 1)$ lies on line ℓ_{12}
 748 : $P_{213606} = (37, 8, 51, 1)$ lies on line ℓ_3
 749 : $P_{214063} = (46, 15, 51, 1)$ lies on line ℓ_4
 750 : $P_{214486} = (21, 22, 51, 1)$ lies on line ℓ_{13}
 751 : $P_{214739} = (18, 26, 51, 1)$ lies on line ℓ_{14}
 752 : $P_{215215} = (46, 33, 51, 1)$ lies on line ℓ_5
 753 : $P_{215974} = (37, 45, 51, 1)$ lies on line ℓ_6
 754 : $P_{216395} = (10, 52, 51, 1)$ lies on line ℓ_7
 755 : $P_{217035} = (10, 62, 51, 1)$ lies on line ℓ_8
 756 : $P_{217702} = (37, 8, 52, 1)$ lies on line ℓ_3
 757 : $P_{218092} = (43, 14, 52, 1)$ lies on line ℓ_{11}
 758 : $P_{218159} = (46, 15, 52, 1)$ lies on line ℓ_4
 759 : $P_{218552} = (55, 21, 52, 1)$ lies on line ℓ_9
 760 : $P_{219294} = (29, 33, 52, 1)$ lies on line ℓ_{12}
 761 : $P_{219311} = (46, 33, 52, 1)$ lies on line ℓ_5

762 : $P_{219384} = (55, 34, 52, 1)$ lies on line ℓ_{10}
 763 : $P_{219564} = (43, 37, 52, 1)$ lies on line ℓ_{13}
 764 : $P_{220070} = (37, 45, 52, 1)$ lies on line ℓ_6
 765 : $P_{220491} = (10, 52, 52, 1)$ lies on line ℓ_7
 766 : $P_{221022} = (29, 60, 52, 1)$ lies on line ℓ_{14}
 767 : $P_{221131} = (10, 62, 52, 1)$ lies on line ℓ_8
 768 : $P_{221798} = (37, 8, 53, 1)$ lies on line ℓ_3
 769 : $P_{222003} = (50, 11, 53, 1)$ lies on line ℓ_{14}
 770 : $P_{222255} = (46, 15, 53, 1)$ lies on line ℓ_4
 771 : $P_{222525} = (60, 19, 53, 1)$ lies on line ℓ_9
 772 : $P_{222608} = (15, 21, 53, 1)$ lies on line ℓ_{13}
 773 : $P_{222928} = (15, 26, 53, 1)$ lies on line ℓ_{11}
 774 : $P_{223407} = (46, 33, 53, 1)$ lies on line ℓ_5
 775 : $P_{224166} = (37, 45, 53, 1)$ lies on line ℓ_6
 776 : $P_{224317} = (60, 47, 53, 1)$ lies on line ℓ_{10}
 777 : $P_{224587} = (10, 52, 53, 1)$ lies on line ℓ_7
 778 : $P_{224947} = (50, 57, 53, 1)$ lies on line ℓ_{12}
 779 : $P_{225227} = (10, 62, 53, 1)$ lies on line ℓ_8
 780 : $P_{225894} = (37, 8, 54, 1)$ lies on line ℓ_3
 781 : $P_{226351} = (46, 15, 54, 1)$ lies on line ℓ_4
 782 : $P_{226467} = (34, 17, 54, 1)$ lies on line ℓ_{12}
 783 : $P_{226978} = (33, 25, 54, 1)$ lies on line ℓ_9
 784 : $P_{227503} = (46, 33, 54, 1)$ lies on line ℓ_5
 785 : $P_{227651} = (2, 36, 54, 1)$ lies on line ℓ_{13}
 786 : $P_{227779} = (2, 38, 54, 1)$ lies on line ℓ_{11}
 787 : $P_{228262} = (37, 45, 54, 1)$ lies on line ℓ_6
 788 : $P_{228643} = (34, 51, 54, 1)$ lies on line ℓ_{14}
 789 : $P_{228683} = (10, 52, 54, 1)$ lies on line ℓ_7
 790 : $P_{228962} = (33, 56, 54, 1)$ lies on line ℓ_{10}
 791 : $P_{229323} = (10, 62, 54, 1)$ lies on line ℓ_8
 792 : $P_{229710} = (13, 4, 55, 1)$ lies on line ℓ_{14}
 793 : $P_{229990} = (37, 8, 55, 1)$ lies on line ℓ_3
 794 : $P_{230030} = (13, 9, 55, 1)$ lies on line ℓ_{12}
 795 : $P_{230447} = (46, 15, 55, 1)$ lies on line ℓ_4
 796 : $P_{230759} = (38, 20, 55, 1)$ lies on line ℓ_{13}
 797 : $P_{231467} = (42, 31, 55, 1)$ lies on line ℓ_9
 798 : $P_{231599} = (46, 33, 55, 1)$ lies on line ℓ_5
 799 : $P_{232358} = (37, 45, 55, 1)$ lies on line ℓ_6
 800 : $P_{232679} = (38, 50, 55, 1)$ lies on line ℓ_{11}
 801 : $P_{232779} = (10, 52, 55, 1)$ lies on line ℓ_7
 802 : $P_{232875} = (42, 53, 55, 1)$ lies on line ℓ_{10}
 803 : $P_{233419} = (10, 62, 55, 1)$ lies on line ℓ_8
 804 : $P_{234086} = (37, 8, 56, 1)$ lies on line ℓ_3
 805 : $P_{234543} = (46, 15, 56, 1)$ lies on line ℓ_4
 806 : $P_{235517} = (60, 30, 56, 1)$ lies on line ℓ_{14}
 807 : $P_{235555} = (34, 31, 56, 1)$ lies on line ℓ_{10}
 808 : $P_{235695} = (46, 33, 56, 1)$ lies on line ℓ_5
 809 : $P_{235773} = (60, 34, 56, 1)$ lies on line ℓ_{12}
 810 : $P_{235808} = (31, 35, 56, 1)$ lies on line ℓ_{13}
 811 : $P_{236454} = (37, 45, 56, 1)$ lies on line ℓ_6
 812 : $P_{236875} = (10, 52, 56, 1)$ lies on line ℓ_7
 813 : $P_{237408} = (31, 60, 56, 1)$ lies on line ℓ_{11}
 814 : $P_{237475} = (34, 61, 56, 1)$ lies on line ℓ_9
 815 : $P_{237515} = (10, 62, 56, 1)$ lies on line ℓ_8

816 : $P_{238182} = (37, 8, 57, 1)$ lies on line ℓ_3
 817 : $P_{238639} = (46, 15, 57, 1)$ lies on line ℓ_4
 818 : $P_{238826} = (41, 18, 57, 1)$ lies on line ℓ_{10}
 819 : $P_{238908} = (59, 19, 57, 1)$ lies on line ℓ_{13}
 820 : $P_{239791} = (46, 33, 57, 1)$ lies on line ℓ_5
 821 : $P_{240252} = (59, 40, 57, 1)$ lies on line ℓ_{11}
 822 : $P_{240276} = (19, 41, 57, 1)$ lies on line ℓ_{14}
 823 : $P_{240550} = (37, 45, 57, 1)$ lies on line ℓ_6
 824 : $P_{240971} = (10, 52, 57, 1)$ lies on line ℓ_7
 825 : $P_{241364} = (19, 58, 57, 1)$ lies on line ℓ_{12}
 826 : $P_{241450} = (41, 59, 57, 1)$ lies on line ℓ_9
 827 : $P_{241611} = (10, 62, 57, 1)$ lies on line ℓ_8
 828 : $P_{242101} = (52, 5, 58, 1)$ lies on line ℓ_{10}
 829 : $P_{242278} = (37, 8, 58, 1)$ lies on line ℓ_3
 830 : $P_{242735} = (46, 15, 58, 1)$ lies on line ℓ_4
 831 : $P_{242820} = (3, 17, 58, 1)$ lies on line ℓ_{14}
 832 : $P_{242884} = (3, 18, 58, 1)$ lies on line ℓ_{12}
 833 : $P_{243063} = (54, 20, 58, 1)$ lies on line ℓ_{11}
 834 : $P_{243887} = (46, 33, 58, 1)$ lies on line ℓ_5
 835 : $P_{243959} = (54, 34, 58, 1)$ lies on line ℓ_{13}
 836 : $P_{244646} = (37, 45, 58, 1)$ lies on line ℓ_6
 837 : $P_{244917} = (52, 49, 58, 1)$ lies on line ℓ_9
 838 : $P_{245067} = (10, 52, 58, 1)$ lies on line ℓ_7
 839 : $P_{245707} = (10, 62, 58, 1)$ lies on line ℓ_8
 840 : $P_{245843} = (18, 0, 59, 1)$ lies on line ℓ_{11}
 841 : $P_{246374} = (37, 8, 59, 1)$ lies on line ℓ_3
 842 : $P_{246400} = (63, 8, 59, 1)$ lies on line ℓ_{10}
 843 : $P_{246509} = (44, 10, 59, 1)$ lies on line ℓ_{12}
 844 : $P_{246831} = (46, 15, 59, 1)$ lies on line ℓ_4
 845 : $P_{246995} = (18, 18, 59, 1)$ lies on line ℓ_{13}
 846 : $P_{247983} = (46, 33, 59, 1)$ lies on line ℓ_5
 847 : $P_{248301} = (44, 38, 59, 1)$ lies on line ℓ_{14}
 848 : $P_{248742} = (37, 45, 59, 1)$ lies on line ℓ_6
 849 : $P_{249163} = (10, 52, 59, 1)$ lies on line ℓ_7
 850 : $P_{249408} = (63, 55, 59, 1)$ lies on line ℓ_9
 851 : $P_{249803} = (10, 62, 59, 1)$ lies on line ℓ_8
 852 : $P_{249956} = (35, 0, 60, 1)$ lies on line ℓ_{14}
 853 : $P_{250470} = (37, 8, 60, 1)$ lies on line ℓ_3
 854 : $P_{250797} = (44, 13, 60, 1)$ lies on line ℓ_{11}
 855 : $P_{250927} = (46, 15, 60, 1)$ lies on line ℓ_4
 856 : $P_{252077} = (44, 33, 60, 1)$ lies on line ℓ_{13}
 857 : $P_{252079} = (46, 33, 60, 1)$ lies on line ℓ_5
 858 : $P_{252196} = (35, 35, 60, 1)$ lies on line ℓ_{12}
 859 : $P_{252303} = (14, 37, 60, 1)$ lies on line ℓ_9
 860 : $P_{252687} = (14, 43, 60, 1)$ lies on line ℓ_{10}
 861 : $P_{252838} = (37, 45, 60, 1)$ lies on line ℓ_6
 862 : $P_{253259} = (10, 52, 60, 1)$ lies on line ℓ_7
 863 : $P_{253899} = (10, 62, 60, 1)$ lies on line ℓ_8
 864 : $P_{254566} = (37, 8, 61, 1)$ lies on line ℓ_3
 865 : $P_{255023} = (46, 15, 61, 1)$ lies on line ℓ_4
 866 : $P_{255113} = (8, 17, 61, 1)$ lies on line ℓ_{13}
 867 : $P_{255625} = (8, 25, 61, 1)$ lies on line ℓ_{11}
 868 : $P_{256175} = (46, 33, 61, 1)$ lies on line ℓ_5
 869 : $P_{256262} = (5, 35, 61, 1)$ lies on line ℓ_9
 870 : $P_{256454} = (5, 38, 61, 1)$ lies on line ℓ_{10}
 871 : $P_{256934} = (37, 45, 61, 1)$ lies on line ℓ_6
 872 : $P_{257355} = (10, 52, 61, 1)$ lies on line ℓ_7
 873 : $P_{257549} = (12, 55, 61, 1)$ lies on line ℓ_{14}
 874 : $P_{257805} = (12, 59, 61, 1)$ lies on line ℓ_{12}
 875 : $P_{257995} = (10, 62, 61, 1)$ lies on line ℓ_8
 876 : $P_{258662} = (37, 8, 62, 1)$ lies on line ℓ_3
 877 : $P_{259101} = (28, 15, 62, 1)$ lies on line ℓ_{14}
 878 : $P_{259119} = (46, 15, 62, 1)$ lies on line ℓ_4
 879 : $P_{259357} = (28, 19, 62, 1)$ lies on line ℓ_{12}
 880 : $P_{260166} = (5, 32, 62, 1)$ lies on line ℓ_{13}
 881 : $P_{260271} = (46, 33, 62, 1)$ lies on line ℓ_5
 882 : $P_{260486} = (5, 37, 62, 1)$ lies on line ℓ_{11}
 883 : $P_{260761} = (24, 41, 62, 1)$ lies on line ℓ_9
 884 : $P_{261030} = (37, 45, 62, 1)$ lies on line ℓ_6
 885 : $P_{261273} = (24, 49, 62, 1)$ lies on line ℓ_{10}
 886 : $P_{261451} = (10, 52, 62, 1)$ lies on line ℓ_7
 887 : $P_{262091} = (10, 62, 62, 1)$ lies on line ℓ_8
 888 : $P_{262758} = (37, 8, 63, 1)$ lies on line ℓ_3
 889 : $P_{262964} = (51, 11, 63, 1)$ lies on line ℓ_{12}
 890 : $P_{263215} = (46, 15, 63, 1)$ lies on line ℓ_4
 891 : $P_{263266} = (33, 16, 63, 1)$ lies on line ℓ_{13}
 892 : $P_{264367} = (46, 33, 63, 1)$ lies on line ℓ_5
 893 : $P_{265126} = (37, 45, 63, 1)$ lies on line ℓ_6
 894 : $P_{265236} = (19, 47, 63, 1)$ lies on line ℓ_9
 895 : $P_{265378} = (33, 49, 63, 1)$ lies on line ℓ_{11}
 896 : $P_{265547} = (10, 52, 63, 1)$ lies on line ℓ_7
 897 : $P_{265844} = (51, 56, 63, 1)$ lies on line ℓ_{14}
 898 : $P_{266068} = (19, 60, 63, 1)$ lies on line ℓ_{10}
 899 : $P_{266187} = (10, 62, 63, 1)$ lies on line ℓ_8

The single points on the surface are:

Points on surface but on no line

The surface has 3482 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	0	0	0	1	1	0	0	0	1	0	1	0
1	1	0	1	1	0	0	1	0	0	0	0	0	1	0	1
2	1	1	0	0	1	1	0	0	0	1	1	0	0	0	0
3	0	1	0	0	1	1	1	1	1	1	0	1	0	0	0
4	0	0	1	1	0	1	1	1	1	0	0	0	1	1	0
5	0	0	1	1	1	0	1	1	1	0	0	1	0	0	1
6	0	1	0	1	1	1	0	1	1	0	1	0	0	1	0
7	1	0	0	1	1	1	1	0	1	1	0	0	1	0	0
8	1	0	0	1	1	1	1	1	0	0	1	0	0	0	1
9	0	0	1	1	0	0	0	1	0	0	1	0	0	1	1
10	0	0	1	0	0	0	1	0	1	1	0	1	1	0	0
11	1	0	0	1	0	1	0	0	0	0	1	0	1	1	0
12	0	1	0	0	1	0	0	1	0	0	1	1	0	0	1
13	1	0	0	0	1	0	1	0	0	1	0	1	0	0	1
14	0	1	0	0	0	1	0	0	1	1	0	0	1	1	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_7	ℓ_8	ℓ_{11}	ℓ_{13}
in point	P_1	P_1	P_{7500}	P_{8140}	P_{7564}	P_{8204}

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_6	ℓ_{12}	ℓ_{14}
in point	P_1	P_1	P_{4711}	P_{7079}	P_{7015}	P_{4775}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_4	ℓ_5	ℓ_9	ℓ_{10}
in point	P_1	P_1	P_{5168}	P_{6320}	P_{5104}	P_{6256}

Line 3 intersects

Line	ℓ_1	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}
in point	P_{4711}	P_2	P_2	P_2	P_2	P_2	P_{8806}	P_{152166}

Line 4 intersects

Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_{12}	ℓ_{13}
in point	P_{5168}	P_2	P_2	P_2	P_2	P_2	P_{197679}	P_{9263}

Line 5 intersects

Line	ℓ_2	ℓ_3	ℓ_4	ℓ_6	ℓ_7	ℓ_8	ℓ_{11}	ℓ_{14}
in point	P_{6320}	P_2	P_2	P_2	P_2	P_2	P_{10415}	P_{198831}

Line 6 intersects

Line	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_7	ℓ_8	ℓ_{10}	ℓ_{13}
in point	P_{7079}	P_2	P_2	P_2	P_2	P_2	P_{11174}	P_{154534}

Line 7 intersects

Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_8	ℓ_9	ℓ_{12}
in point	P_{7500}	P_2	P_2	P_2	P_2	P_2	P_{52555}	P_{11595}

Line 8 intersects

Line	ℓ_0	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_{10}	ℓ_{14}
in point	P_{8140}	P_2	P_2	P_2	P_2	P_2	P_{53195}	P_{12235}

Line 9 intersects

Line	ℓ_2	ℓ_3	ℓ_7	ℓ_{10}	ℓ_{13}	ℓ_{14}
in point	P_{5104}	P_{8806}	P_{52555}	P_{199617}	P_{195148}	P_{156912}

Line 10 intersects

Line	ℓ_2	ℓ_6	ℓ_8	ℓ_9	ℓ_{11}	ℓ_{12}
in point	P_{6256}	P_{11174}	P_{53195}	P_{199617}	P_{194828}	P_{159664}

Line 11 intersects

Line	ℓ_0	ℓ_3	ℓ_5	ℓ_{10}	ℓ_{12}	ℓ_{13}
in point	P_{7564}	P_{152166}	P_{10415}	P_{194828}	P_{47077}	P_{49857}

Line 12 intersects

Line	ℓ_1	ℓ_4	ℓ_7	ℓ_{10}	ℓ_{11}	ℓ_{14}
in point	P_{7015}	P_{197679}	P_{11595}	P_{159664}	P_{47077}	P_{153985}

Line 13 intersects

Line	ℓ_0	ℓ_4	ℓ_6	ℓ_9	ℓ_{11}	ℓ_{14}
in point	P_{8204}	P_{9263}	P_{154534}	P_{195148}	P_{49857}	P_{48869}

Line 14 intersects

Line	ℓ_1	ℓ_5	ℓ_8	ℓ_9	ℓ_{12}	ℓ_{13}
in point	P_{4775}	P_{198831}	P_{12235}	P_{156912}	P_{153985}	P_{48869}

The surface has 4417 points:

Too many to print.