Rank-192 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_2^3 + X_0^2X_1 + X_0^2X_2 + X_0X_1^2 = 0$$

(0, 0, 1, 0, 1, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)
The point rank of the equation over GF(32) is 1142982702

General information

Number of lines	25
Number of points	801
Number of singular points	1
Number of Eckardt points	0
Number of double points	0
Number of single points	800
Number of points off lines	0
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^{25}
Type of lines on points	$25, 1^{800}$

Singular Points

The surface has 1 singular points:

$0 : \ P_3 = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1)$

The 25 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1056} = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1056} = \mathbf{Pl}(0,0,0,0,1,0)_{1089}$$

$$\ell_1 = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082400} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082400} = \mathbf{Pl}(0,0,0,1,0,0)_{65}$$

$$\ell_2 = \left[\begin{array}{cccc} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{2113} = \left[\begin{array}{cccc} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{2113} = \mathbf{Pl}(0,0,0,1,1,0)_{3105}$$

$$\ell_3 = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{34880} = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{34880} = \mathbf{Pl}(0,1,0,0,1,0)_{1121}$$

$$\ell_4 = \left[\begin{array}{cccc} 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{35937} = \left[\begin{array}{cccc} 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{35937} = \mathbf{Pl}(0,1,0,1,1,0)_{3137}$$

$$\ell_5 = \left[\begin{array}{cccc} 1 & \eta^{13} & \eta^{12} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{504188} = \left[\begin{array}{cccc} 1 & 28 & 14 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{504188} = \mathbf{Pl}(0,14,0,28,1,0)_{4851}$$

$$\ell_6 = \left[\begin{array}{cccc} 1 & \eta^{7} & \eta^{6} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{360436} = \left[\begin{array}{cccc} 1 & 20 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{360436} = \mathbf{Pl}(0,10,0,20,1,0)_{4343}$$

$$\ell_7 = \left[\begin{array}{cccc} 1 & \eta^{14} & \eta^{12} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{505245} = \left[\begin{array}{cccc} 1 & 29 & 14 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{505245} = \mathbf{Pl}(0,14,0,29,1,0)_{4914}$$

$$\ell_8 = \left[\begin{array}{cccc} 1 & \eta^{26} & \eta^{24} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1040087} = \left[\begin{array}{cccc} 1 & 23 & 30 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1040087} = \mathbf{Pl}(0,30,0,23,1,0)_{4552}$$

$$\ell_9 = \left[\begin{array}{cccc} 1 & \eta^{15} & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{405887} = \left[\begin{array}{cccc} 1 & 31 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{405887} = \mathbf{Pl}(0,11,0,31,1,0)_{5037}$$

$$\ell_{10} = \left[\begin{array}{cccc} 1 & \eta^{3} & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1058056} = \left[\begin{array}{cccc} 1 & 8 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1058056} = \mathbf{Pl}(0,31,0,8,1,0)_{3608}$$

$$\ell_{11} = \left[\begin{array}{cccc} 1 & \eta^{11} & \eta^{3} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{279047} = \left[\begin{array}{cccc} 1 & 7 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{279047} = \mathbf{Pl}(0,8,0,7,1,0)_{3522}$$

$$\ell_{12} = \left[\begin{array}{cccc} 1 & \eta^{25} & \eta^{17} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{670137} = \left[\begin{array}{cccc} 1 & 25 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{670137} = \mathbf{Pl}(0,19,0,25,1,0)_{4667}$$

$$\ell_{13} = \left[\begin{array}{cccc} 1 & \eta^{28} & \eta^{24} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1039030} = \left[\begin{array}{cccc} 1 & 22 & 30 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1039030} = \mathbf{Pl}(0,30,0,22,1,0)_{4489}$$

$$\ell_{14} = \left[\begin{array}{cccc} 1 & \eta^{21} & \eta^{17} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{669080} = \left[\begin{array}{cccc} 1 & 24 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{669080} = \mathbf{Pl}(0,19,0,24,1,0)_{4604}$$

$$\ell_{15} = \left[\begin{array}{cccc} 1 & \eta^{6} & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{620458} = \left[\begin{array}{cccc} 1 & 10 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{620458} = \mathbf{Pl}(0,18,0,10,1,0)_{3721}$$

$$\ell_{16} = \left[\begin{array}{cccc} 1 & \eta^{30} & \eta^{23} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{527442} = \left[\begin{array}{cccc} 1 & 18 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{527442} = \mathbf{Pl}(0,15,0,18,1,0)_{4222}$$

$$\ell_{17} = \left[\begin{array}{cccc} 1 & \eta^{27} & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{621515} = \left[\begin{array}{cccc} 1 & 11 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{621515} = \mathbf{Pl}(0,18,0,11,1,0)_{3784}$$

$$\ell_{18} = \left[\begin{array}{cccc} 1 & \eta^{24} & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{404830} = \left[\begin{array}{cccc} 1 & 30 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{404830} = \mathbf{Pl}(0,11,0,30,1,0)_{4974}$$

$$\ell_{19} = \left[\begin{array}{cccc} 1 & \eta^{23} & \eta^{29} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{321327} = \left[\begin{array}{cccc} 1 & 15 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{321327} = \mathbf{Pl}(0,9,0,15,1,0)_{4027}$$

$$\ell_{20} = \left[\begin{array}{cccc} 1 & \eta^{17} & \eta^{23} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{528499} = \left[\begin{array}{cccc} 1 & 19 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{528499} = \mathbf{Pl}(0,15,0,19,1,0)_{4285}$$

$$\ell_{21} = \left[\begin{array}{cccc} 1 & \eta^{19} & \eta^{3} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{277990} = \left[\begin{array}{cccc} 1 & 6 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{277990} = \mathbf{Pl}(0,8,0,6,1,0)_{3459}$$

$$\ell_{22} = \begin{bmatrix} 1 & \eta^{22} & \eta^{6} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{361493} = \begin{bmatrix} 1 & 21 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{361493} = \mathbf{Pl}(0,10,0,21,1,0)_{4406}$$

$$\ell_{23} = \begin{bmatrix} 1 & \eta^{12} & \eta^{29} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{320270} = \begin{bmatrix} 1 & 14 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{320270} = \mathbf{Pl}(0,9,0,14,1,0)_{3964}$$

$$\ell_{24} = \begin{bmatrix} 1 & \eta^{29} & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1059113} = \begin{bmatrix} 1 & 9 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1059113} = \mathbf{Pl}(0,31,0,9,1,0)_{3671}$$

Rank of lines: (1056, 1082400, 2113, 34880, 35937, 504188, 360436, 505245, 1040087, 405887, 1058056, 279047, 670137, 1039030, 669080, 620458, 527442, 621515, 404830, 321327, 528499, 277990, 361493, 320270, 1059113)
Rank of points on Klein quadric: (1089, 65, 3105, 1121, 3137, 4851, 4343, 4914, 4552, 5037, 3608, 3522, 4667, 4489, 4604, 3721, 4222, 3784, 4974, 4027, 4285, 3459, 4406, 3964, 3671)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 0 Double points:
The double points on the surface are:

Single Points

The surface has 800 single points:
The single points on the surface are:

0 : $P_0 = (1,0,0,0)$ lies on line ℓ_0
1 : $P_1 = (0,1,0,0)$ lies on line ℓ_1
2 : $P_4 = (1,1,1,1)$ lies on line ℓ_4
3 : $P_5 = (1,1,0,0)$ lies on line ℓ_2
4 : $P_{36} = (1,0,1,0)$ lies on line ℓ_3
5 : $P_{68} = (1,1,1,0)$ lies on line ℓ_4
6 : $P_{105} = (6,2,1,0)$ lies on line ℓ_5
7 : $P_{124} = (25,2,1,0)$ lies on line ℓ_6
8 : $P_{169} = (6,4,1,0)$ lies on line ℓ_7
9 : $P_{183} = (20,4,1,0)$ lies on line ℓ_8
10 : $P_{243} = (16,6,1,0)$ lies on line ℓ_9
11 : $P_{254} = (27,6,1,0)$ lies on line ℓ_{10}
12 : $P_{473} = (22,13,1,0)$ lies on line ℓ_{11}
13 : $P_{480} = (29,13,1,0)$ lies on line ℓ_{12}
14 : $P_{567} = (20,16,1,0)$ lies on line ℓ_{13}
15 : $P_{576} = (29,16,1,0)$ lies on line ℓ_{14}
16 : $P_{677} = (2,20,1,0)$ lies on line ℓ_{15}
17 : $P_{688} = (13,20,1,0)$ lies on line ℓ_{16}
18 : $P_{741} = (2,22,1,0)$ lies on line ℓ_{17}
19 : $P_{755} = (16,22,1,0)$ lies on line ℓ_{18}
20 : $P_{839} = (4,25,1,0)$ lies on line ℓ_{19}
21 : $P_{848} = (13,25,1,0)$ lies on line ℓ_{20}
22 : $P_{921} = (22,27,1,0)$ lies on line ℓ_{21}
23 : $P_{924} = (25,27,1,0)$ lies on line ℓ_{22}
24 : $P_{967} = (4,29,1,0)$ lies on line ℓ_{23}
25 : $P_{990} = (27,29,1,0)$ lies on line ℓ_{24}
26 : $P_{1059} = (1,0,0,1)$ lies on line ℓ_0
27 : $P_{1060} = (2,0,0,1)$ lies on line ℓ_0
28 : $P_{1061} = (3,0,0,1)$ lies on line ℓ_0
29 : $P_{1062} = (4,0,0,1)$ lies on line ℓ_0
30 : $P_{1063} = (5,0,0,1)$ lies on line ℓ_0
31 : $P_{1064} = (6,0,0,1)$ lies on line ℓ_0
32 : $P_{1065} = (7,0,0,1)$ lies on line ℓ_0
33 : $P_{1066} = (8,0,0,1)$ lies on line ℓ_0
34 : $P_{1067} = (9,0,0,1)$ lies on line ℓ_0
35 : $P_{1068} = (10,0,0,1)$ lies on line ℓ_0
36 : $P_{1069} = (11,0,0,1)$ lies on line ℓ_0
37 : $P_{1070} = (12,0,0,1)$ lies on line ℓ_0
38 : $P_{1071} = (13,0,0,1)$ lies on line ℓ_0
39 : $P_{1072} = (14,0,0,1)$ lies on line ℓ_0
40 : $P_{1073} = (15,0,0,1)$ lies on line ℓ_0
41 : $P_{1074} = (16,0,0,1)$ lies on line ℓ_0
42 : $P_{1075} = (17,0,0,1)$ lies on line ℓ_0
43 : $P_{1076} = (18,0,0,1)$ lies on line ℓ_0

44 : $P_{1077} = (19, 0, 0, 1)$ lies on line ℓ_0
45 : $P_{1078} = (20, 0, 0, 1)$ lies on line ℓ_0
46 : $P_{1079} = (21, 0, 0, 1)$ lies on line ℓ_0
47 : $P_{1080} = (22, 0, 0, 1)$ lies on line ℓ_0
48 : $P_{1081} = (23, 0, 0, 1)$ lies on line ℓ_0
49 : $P_{1082} = (24, 0, 0, 1)$ lies on line ℓ_0
50 : $P_{1083} = (25, 0, 0, 1)$ lies on line ℓ_0
51 : $P_{1084} = (26, 0, 0, 1)$ lies on line ℓ_0
52 : $P_{1085} = (27, 0, 0, 1)$ lies on line ℓ_0
53 : $P_{1086} = (28, 0, 0, 1)$ lies on line ℓ_0
54 : $P_{1087} = (29, 0, 0, 1)$ lies on line ℓ_0
55 : $P_{1088} = (30, 0, 0, 1)$ lies on line ℓ_0
56 : $P_{1089} = (31, 0, 0, 1)$ lies on line ℓ_0
57 : $P_{1090} = (0, 1, 0, 1)$ lies on line ℓ_1
58 : $P_{1091} = (1, 1, 0, 1)$ lies on line ℓ_2
59 : $P_{1122} = (0, 2, 0, 1)$ lies on line ℓ_1
60 : $P_{1124} = (2, 2, 0, 1)$ lies on line ℓ_2
61 : $P_{1154} = (0, 3, 0, 1)$ lies on line ℓ_1
62 : $P_{1157} = (3, 3, 0, 1)$ lies on line ℓ_2
63 : $P_{1186} = (0, 4, 0, 1)$ lies on line ℓ_1
64 : $P_{1190} = (4, 4, 0, 1)$ lies on line ℓ_2
65 : $P_{1218} = (0, 5, 0, 1)$ lies on line ℓ_1
66 : $P_{1223} = (5, 5, 0, 1)$ lies on line ℓ_2
67 : $P_{1250} = (0, 6, 0, 1)$ lies on line ℓ_1
68 : $P_{1256} = (6, 6, 0, 1)$ lies on line ℓ_2
69 : $P_{1282} = (0, 7, 0, 1)$ lies on line ℓ_1
70 : $P_{1289} = (7, 7, 0, 1)$ lies on line ℓ_2
71 : $P_{1314} = (0, 8, 0, 1)$ lies on line ℓ_1
72 : $P_{1322} = (8, 8, 0, 1)$ lies on line ℓ_2
73 : $P_{1346} = (0, 9, 0, 1)$ lies on line ℓ_1
74 : $P_{1355} = (9, 9, 0, 1)$ lies on line ℓ_2
75 : $P_{1378} = (0, 10, 0, 1)$ lies on line ℓ_1
76 : $P_{1388} = (10, 10, 0, 1)$ lies on line ℓ_2
77 : $P_{1410} = (0, 11, 0, 1)$ lies on line ℓ_1
78 : $P_{1421} = (11, 11, 0, 1)$ lies on line ℓ_2
79 : $P_{1442} = (0, 12, 0, 1)$ lies on line ℓ_1
80 : $P_{1454} = (12, 12, 0, 1)$ lies on line ℓ_2
81 : $P_{1474} = (0, 13, 0, 1)$ lies on line ℓ_1
82 : $P_{1487} = (13, 13, 0, 1)$ lies on line ℓ_2
83 : $P_{1506} = (0, 14, 0, 1)$ lies on line ℓ_1
84 : $P_{1520} = (14, 14, 0, 1)$ lies on line ℓ_2
85 : $P_{1538} = (0, 15, 0, 1)$ lies on line ℓ_1
86 : $P_{1553} = (15, 15, 0, 1)$ lies on line ℓ_2
87 : $P_{1570} = (0, 16, 0, 1)$ lies on line ℓ_1
88 : $P_{1586} = (16, 16, 0, 1)$ lies on line ℓ_2
89 : $P_{1602} = (0, 17, 0, 1)$ lies on line ℓ_1
90 : $P_{1619} = (17, 17, 0, 1)$ lies on line ℓ_2
91 : $P_{1634} = (0, 18, 0, 1)$ lies on line ℓ_1
92 : $P_{1652} = (18, 18, 0, 1)$ lies on line ℓ_2
93 : $P_{1666} = (0, 19, 0, 1)$ lies on line ℓ_1
94 : $P_{1685} = (19, 19, 0, 1)$ lies on line ℓ_2
95 : $P_{1698} = (0, 20, 0, 1)$ lies on line ℓ_1
96 : $P_{1718} = (20, 20, 0, 1)$ lies on line ℓ_2
97 : $P_{1730} = (0, 21, 0, 1)$ lies on line ℓ_1
98 : $P_{1751} = (21, 21, 0, 1)$ lies on line ℓ_2
99 : $P_{1762} = (0, 22, 0, 1)$ lies on line ℓ_1
100 : $P_{1784} = (22, 22, 0, 1)$ lies on line ℓ_2
101 : $P_{1794} = (0, 23, 0, 1)$ lies on line ℓ_1
102 : $P_{1817} = (23, 23, 0, 1)$ lies on line ℓ_2
103 : $P_{1826} = (0, 24, 0, 1)$ lies on line ℓ_1
104 : $P_{1850} = (24, 24, 0, 1)$ lies on line ℓ_2
105 : $P_{1858} = (0, 25, 0, 1)$ lies on line ℓ_1
106 : $P_{1883} = (25, 25, 0, 1)$ lies on line ℓ_2
107 : $P_{1890} = (0, 26, 0, 1)$ lies on line ℓ_1
108 : $P_{1916} = (26, 26, 0, 1)$ lies on line ℓ_2
109 : $P_{1922} = (0, 27, 0, 1)$ lies on line ℓ_1
110 : $P_{1949} = (27, 27, 0, 1)$ lies on line ℓ_2
111 : $P_{1954} = (0, 28, 0, 1)$ lies on line ℓ_1
112 : $P_{1982} = (28, 28, 0, 1)$ lies on line ℓ_2
113 : $P_{1986} = (0, 29, 0, 1)$ lies on line ℓ_1
114 : $P_{2015} = (29, 29, 0, 1)$ lies on line ℓ_2
115 : $P_{2018} = (0, 30, 0, 1)$ lies on line ℓ_1
116 : $P_{2048} = (30, 30, 0, 1)$ lies on line ℓ_2
117 : $P_{2050} = (0, 31, 0, 1)$ lies on line ℓ_1
118 : $P_{2081} = (31, 31, 0, 1)$ lies on line ℓ_2
119 : $P_{2083} = (1, 0, 1, 1)$ lies on line ℓ_3
120 : $P_{2151} = (6, 2, 1, 1)$ lies on line ℓ_5
121 : $P_{2170} = (25, 2, 1, 1)$ lies on line ℓ_6
122 : $P_{2215} = (6, 4, 1, 1)$ lies on line ℓ_7
123 : $P_{2229} = (20, 4, 1, 1)$ lies on line ℓ_8
124 : $P_{2289} = (16, 6, 1, 1)$ lies on line ℓ_9
125 : $P_{2300} = (27, 6, 1, 1)$ lies on line ℓ_{10}
126 : $P_{2519} = (22, 13, 1, 1)$ lies on line ℓ_{11}
127 : $P_{2526} = (29, 13, 1, 1)$ lies on line ℓ_{12}
128 : $P_{2613} = (20, 16, 1, 1)$ lies on line ℓ_{13}
129 : $P_{2622} = (29, 16, 1, 1)$ lies on line ℓ_{14}
130 : $P_{2723} = (2, 20, 1, 1)$ lies on line ℓ_{15}
131 : $P_{2734} = (13, 20, 1, 1)$ lies on line ℓ_{16}
132 : $P_{2787} = (2, 22, 1, 1)$ lies on line ℓ_{17}
133 : $P_{2801} = (16, 22, 1, 1)$ lies on line ℓ_{18}
134 : $P_{2885} = (4, 25, 1, 1)$ lies on line ℓ_{19}
135 : $P_{2894} = (13, 25, 1, 1)$ lies on line ℓ_{20}
136 : $P_{2967} = (22, 27, 1, 1)$ lies on line ℓ_{21}
137 : $P_{2970} = (25, 27, 1, 1)$ lies on line ℓ_{22}
138 : $P_{3013} = (4, 29, 1, 1)$ lies on line ℓ_{23}
139 : $P_{3036} = (27, 29, 1, 1)$ lies on line ℓ_{24}
140 : $P_{3107} = (2, 0, 2, 1)$ lies on line ℓ_3
141 : $P_{3171} = (2, 2, 2, 1)$ lies on line ℓ_4
142 : $P_{3245} = (12, 4, 2, 1)$ lies on line ℓ_5
143 : $P_{3256} = (23, 4, 2, 1)$ lies on line ℓ_6
144 : $P_{3278} = (13, 5, 2, 1)$ lies on line ℓ_{13}
145 : $P_{3296} = (31, 5, 2, 1)$ lies on line ℓ_{14}
146 : $P_{3373} = (12, 8, 2, 1)$ lies on line ℓ_7
147 : $P_{3374} = (13, 8, 2, 1)$ lies on line ℓ_8
148 : $P_{3397} = (4, 9, 2, 1)$ lies on line ℓ_{17}
149 : $P_{3398} = (5, 9, 2, 1)$ lies on line ℓ_{18}
150 : $P_{3494} = (5, 12, 2, 1)$ lies on line ℓ_9
151 : $P_{3508} = (19, 12, 2, 1)$ lies on line ℓ_{10}

152 : $P_{3525} = (4, 13, 2, 1)$ lies on line ℓ_{15}
153 : $P_{3547} = (26, 13, 2, 1)$ lies on line ℓ_{16}
154 : $P_{3722} = (9, 19, 2, 1)$ lies on line ℓ_{21}
155 : $P_{3736} = (23, 19, 2, 1)$ lies on line ℓ_{22}
156 : $P_{3849} = (8, 23, 2, 1)$ lies on line ℓ_{19}
157 : $P_{3867} = (26, 23, 2, 1)$ lies on line ℓ_{20}
158 : $P_{3946} = (9, 26, 2, 1)$ lies on line ℓ_{11}
159 : $P_{3968} = (31, 26, 2, 1)$ lies on line ℓ_{12}
160 : $P_{4105} = (8, 31, 2, 1)$ lies on line ℓ_{23}
161 : $P_{4116} = (19, 31, 2, 1)$ lies on line ℓ_{24}
162 : $P_{4132} = (3, 0, 3, 1)$ lies on line ℓ_{3}
163 : $P_{4201} = (8, 2, 3, 1)$ lies on line ℓ_{24}
164 : $P_{4205} = (12, 2, 3, 1)$ lies on line ℓ_{23}
165 : $P_{4228} = (3, 3, 3, 1)$ lies on line ℓ_{4}
166 : $P_{4331} = (10, 6, 3, 1)$ lies on line ℓ_{5}
167 : $P_{4335} = (14, 6, 3, 1)$ lies on line ℓ_{6}
168 : $P_{4399} = (14, 8, 3, 1)$ lies on line ℓ_{22}
169 : $P_{4416} = (31, 8, 3, 1)$ lies on line ℓ_{21}
170 : $P_{4457} = (8, 10, 3, 1)$ lies on line ℓ_{10}
171 : $P_{4470} = (21, 10, 3, 1)$ lies on line ℓ_{9}
172 : $P_{4523} = (10, 12, 3, 1)$ lies on line ℓ_{7}
173 : $P_{4538} = (25, 12, 3, 1)$ lies on line ℓ_{8}
174 : $P_{4589} = (12, 14, 3, 1)$ lies on line ℓ_{19}
175 : $P_{4600} = (23, 14, 3, 1)$ lies on line ℓ_{20}
176 : $P_{4803} = (2, 21, 3, 1)$ lies on line ℓ_{14}
177 : $P_{4826} = (25, 21, 3, 1)$ lies on line ℓ_{13}
178 : $P_{4867} = (2, 23, 3, 1)$ lies on line ℓ_{12}
179 : $P_{4896} = (31, 23, 3, 1)$ lies on line ℓ_{11}
180 : $P_{4935} = (6, 25, 3, 1)$ lies on line ℓ_{15}
181 : $P_{4952} = (23, 25, 3, 1)$ lies on line ℓ_{16}
182 : $P_{5127} = (6, 31, 3, 1)$ lies on line ℓ_{17}
183 : $P_{5142} = (21, 31, 3, 1)$ lies on line ℓ_{18}
184 : $P_{5157} = (4, 0, 4, 1)$ lies on line ℓ_{3}
185 : $P_{5260} = (11, 3, 4, 1)$ lies on line ℓ_{22}
186 : $P_{5267} = (18, 3, 4, 1)$ lies on line ℓ_{21}
187 : $P_{5285} = (4, 4, 4, 1)$ lies on line ℓ_{4}
188 : $P_{5420} = (11, 8, 4, 1)$ lies on line ℓ_{6}
189 : $P_{5433} = (24, 8, 4, 1)$ lies on line ℓ_{5}
190 : $P_{5499} = (26, 10, 4, 1)$ lies on line ℓ_{13}
191 : $P_{5500} = (27, 10, 4, 1)$ lies on line ℓ_{14}
192 : $P_{5521} = (16, 11, 4, 1)$ lies on line ℓ_{19}
193 : $P_{5522} = (17, 11, 4, 1)$ lies on line ℓ_{20}
194 : $P_{5689} = (24, 16, 4, 1)$ lies on line ℓ_{7}
195 : $P_{5691} = (26, 16, 4, 1)$ lies on line ℓ_{8}
196 : $P_{5715} = (18, 17, 4, 1)$ lies on line ℓ_{11}
197 : $P_{5724} = (27, 17, 4, 1)$ lies on line ℓ_{12}
198 : $P_{5737} = (8, 18, 4, 1)$ lies on line ℓ_{17}
199 : $P_{5739} = (10, 18, 4, 1)$ lies on line ℓ_{18}
200 : $P_{5924} = (3, 24, 4, 1)$ lies on line ℓ_{10}
201 : $P_{5931} = (10, 24, 4, 1)$ lies on line ℓ_{9}
202 : $P_{5993} = (8, 26, 4, 1)$ lies on line ℓ_{15}
203 : $P_{6002} = (17, 26, 4, 1)$ lies on line ℓ_{16}
204 : $P_{6020} = (3, 27, 4, 1)$ lies on line ℓ_{24}
205 : $P_{6033} = (16, 27, 4, 1)$ lies on line ℓ_{23}
206 : $P_{6182} = (5, 0, 5, 1)$ lies on line ℓ_{3}
207 : $P_{6315} = (10, 4, 5, 1)$ lies on line ℓ_{17}
208 : $P_{6331} = (26, 4, 5, 1)$ lies on line ℓ_{18}
209 : $P_{6342} = (5, 5, 5, 1)$ lies on line ℓ_{4}
210 : $P_{6389} = (20, 6, 5, 1)$ lies on line ℓ_{23}
211 : $P_{6393} = (24, 6, 5, 1)$ lies on line ℓ_{24}
212 : $P_{6515} = (18, 10, 5, 1)$ lies on line ℓ_{6}
213 : $P_{6527} = (30, 10, 5, 1)$ lies on line ℓ_{5}
214 : $P_{6635} = (10, 14, 5, 1)$ lies on line ℓ_{15}
215 : $P_{6653} = (28, 14, 5, 1)$ lies on line ℓ_{16}
216 : $P_{6773} = (20, 18, 5, 1)$ lies on line ℓ_{19}
217 : $P_{6781} = (28, 18, 5, 1)$ lies on line ℓ_{20}
218 : $P_{6831} = (14, 20, 5, 1)$ lies on line ℓ_{8}
219 : $P_{6847} = (30, 20, 5, 1)$ lies on line ℓ_{7}
220 : $P_{6949} = (4, 24, 5, 1)$ lies on line ℓ_{21}
221 : $P_{6963} = (18, 24, 5, 1)$ lies on line ℓ_{22}
222 : $P_{7015} = (6, 26, 5, 1)$ lies on line ℓ_{14}
223 : $P_{7023} = (14, 26, 5, 1)$ lies on line ℓ_{13}
224 : $P_{7077} = (4, 28, 5, 1)$ lies on line ℓ_{11}
225 : $P_{7079} = (6, 28, 5, 1)$ lies on line ℓ_{12}
226 : $P_{7161} = (24, 30, 5, 1)$ lies on line ℓ_{10}
227 : $P_{7163} = (26, 30, 5, 1)$ lies on line ℓ_{9}
228 : $P_{7207} = (6, 0, 6, 1)$ lies on line ℓ_{3}
229 : $P_{7345} = (16, 4, 6, 1)$ lies on line ℓ_{24}
230 : $P_{7353} = (24, 4, 6, 1)$ lies on line ℓ_{23}
231 : $P_{7399} = (6, 6, 6, 1)$ lies on line ℓ_{4}
232 : $P_{7557} = (4, 11, 6, 1)$ lies on line ℓ_{12}
233 : $P_{7580} = (27, 11, 6, 1)$ lies on line ℓ_{11}
234 : $P_{7605} = (20, 12, 6, 1)$ lies on line ℓ_{5}
235 : $P_{7613} = (28, 12, 6, 1)$ lies on line ℓ_{6}
236 : $P_{7685} = (4, 15, 6, 1)$ lies on line ℓ_{14}
237 : $P_{7704} = (23, 15, 6, 1)$ lies on line ℓ_{13}
238 : $P_{7740} = (27, 16, 6, 1)$ lies on line ℓ_{21}
239 : $P_{7741} = (28, 16, 6, 1)$ lies on line ℓ_{22}
240 : $P_{7856} = (15, 20, 6, 1)$ lies on line ℓ_{9}
241 : $P_{7857} = (16, 20, 6, 1)$ lies on line ℓ_{10}
242 : $P_{7948} = (11, 23, 6, 1)$ lies on line ℓ_{16}
243 : $P_{7949} = (12, 23, 6, 1)$ lies on line ℓ_{15}
244 : $P_{7989} = (20, 24, 6, 1)$ lies on line ℓ_{7}
245 : $P_{7992} = (23, 24, 6, 1)$ lies on line ℓ_{8}
246 : $P_{8077} = (12, 27, 6, 1)$ lies on line ℓ_{17}
247 : $P_{8080} = (15, 27, 6, 1)$ lies on line ℓ_{18}
248 : $P_{8108} = (11, 28, 6, 1)$ lies on line ℓ_{20}
249 : $P_{8121} = (24, 28, 6, 1)$ lies on line ℓ_{19}
250 : $P_{8232} = (7, 0, 7, 1)$ lies on line ℓ_{3}
251 : $P_{8327} = (6, 3, 7, 1)$ lies on line ℓ_{16}
252 : $P_{8335} = (14, 3, 7, 1)$ lies on line ℓ_{15}
253 : $P_{8391} = (6, 5, 7, 1)$ lies on line ℓ_{20}
254 : $P_{8413} = (28, 5, 7, 1)$ lies on line ℓ_{19}
255 : $P_{8430} = (13, 6, 7, 1)$ lies on line ℓ_{11}
256 : $P_{8442} = (25, 6, 7, 1)$ lies on line ℓ_{12}
257 : $P_{8456} = (7, 7, 7, 1)$ lies on line ℓ_{4}
258 : $P_{8582} = (5, 11, 7, 1)$ lies on line ℓ_{22}
259 : $P_{8590} = (13, 11, 7, 1)$ lies on line ℓ_{21}

260 : $P_{8655} = (14, 13, 7, 1)$ lies on line ℓ_{17}
261 : $P_{8672} = (31, 13, 7, 1)$ lies on line ℓ_{18}
262 : $P_{8678} = (5, 14, 7, 1)$ lies on line ℓ_{6}
263 : $P_{8691} = (18, 14, 7, 1)$ lies on line ℓ_{5}
264 : $P_{8812} = (11, 18, 7, 1)$ lies on line ℓ_{10}
265 : $P_{8832} = (31, 18, 7, 1)$ lies on line ℓ_{9}
266 : $P_{9036} = (11, 25, 7, 1)$ lies on line ℓ_{24}
267 : $P_{9053} = (28, 25, 7, 1)$ lies on line ℓ_{23}
268 : $P_{9124} = (3, 28, 7, 1)$ lies on line ℓ_{8}
269 : $P_{9139} = (18, 28, 7, 1)$ lies on line ℓ_{7}
270 : $P_{9220} = (3, 31, 7, 1)$ lies on line ℓ_{13}
271 : $P_{9242} = (25, 31, 7, 1)$ lies on line ℓ_{14}
272 : $P_{9257} = (8, 0, 8, 1)$ lies on line ℓ_{3}
273 : $P_{9297} = (16, 1, 8, 1)$ lies on line ℓ_{17}
274 : $P_{9301} = (20, 1, 8, 1)$ lies on line ℓ_{18}
275 : $P_{9426} = (17, 5, 8, 1)$ lies on line ℓ_{8}
276 : $P_{9430} = (21, 5, 8, 1)$ lies on line ℓ_{7}
277 : $P_{9442} = (1, 6, 8, 1)$ lies on line ℓ_{21}
278 : $P_{9463} = (22, 6, 8, 1)$ lies on line ℓ_{22}
279 : $P_{9474} = (1, 7, 8, 1)$ lies on line ℓ_{11}
280 : $P_{9492} = (19, 7, 8, 1)$ lies on line ℓ_{12}
281 : $P_{9513} = (8, 8, 8, 1)$ lies on line ℓ_{4}
282 : $P_{9782} = (21, 16, 8, 1)$ lies on line ℓ_{5}
283 : $P_{9783} = (22, 16, 8, 1)$ lies on line ℓ_{6}
284 : $P_{9800} = (7, 17, 8, 1)$ lies on line ℓ_{16}
285 : $P_{9809} = (16, 17, 8, 1)$ lies on line ℓ_{15}
286 : $P_{9862} = (5, 19, 8, 1)$ lies on line ℓ_{23}
287 : $P_{9863} = (6, 19, 8, 1)$ lies on line ℓ_{24}
288 : $P_{9906} = (17, 20, 8, 1)$ lies on line ℓ_{13}
289 : $P_{9908} = (19, 20, 8, 1)$ lies on line ℓ_{14}
290 : $P_{9927} = (6, 21, 8, 1)$ lies on line ℓ_{10}
291 : $P_{9941} = (20, 21, 8, 1)$ lies on line ℓ_{9}
292 : $P_{9958} = (5, 22, 8, 1)$ lies on line ℓ_{19}
293 : $P_{9960} = (7, 22, 8, 1)$ lies on line ℓ_{20}
294 : $P_{10282} = (9, 0, 9, 1)$ lies on line ℓ_{3}
295 : $P_{10310} = (5, 1, 9, 1)$ lies on line ℓ_{8}
296 : $P_{10324} = (19, 1, 9, 1)$ lies on line ℓ_{7}
297 : $P_{10406} = (5, 4, 9, 1)$ lies on line ℓ_{13}
298 : $P_{10415} = (14, 4, 9, 1)$ lies on line ℓ_{14}
299 : $P_{10443} = (10, 5, 9, 1)$ lies on line ℓ_{16}
300 : $P_{10451} = (18, 5, 9, 1)$ lies on line ℓ_{15}
301 : $P_{10570} = (9, 9, 9, 1)$ lies on line ℓ_{4}
302 : $P_{10607} = (14, 10, 9, 1)$ lies on line ℓ_{12}
303 : $P_{10616} = (23, 10, 9, 1)$ lies on line ℓ_{11}
304 : $P_{10722} = (1, 14, 9, 1)$ lies on line ℓ_{23}
305 : $P_{10750} = (29, 14, 9, 1)$ lies on line ℓ_{24}
306 : $P_{10754} = (1, 15, 9, 1)$ lies on line ℓ_{19}
307 : $P_{10763} = (10, 15, 9, 1)$ lies on line ℓ_{20}
308 : $P_{10864} = (15, 18, 9, 1)$ lies on line ℓ_{6}
309 : $P_{10868} = (19, 18, 9, 1)$ lies on line ℓ_{5}
310 : $P_{10885} = (4, 19, 9, 1)$ lies on line ℓ_{9}
311 : $P_{10910} = (29, 19, 9, 1)$ lies on line ℓ_{10}
312 : $P_{11013} = (4, 23, 9, 1)$ lies on line ℓ_{18}
313 : $P_{11027} = (18, 23, 9, 1)$ lies on line ℓ_{17}
314 : $P_{11216} = (15, 29, 9, 1)$ lies on line ℓ_{22}
315 : $P_{11224} = (23, 29, 9, 1)$ lies on line ℓ_{21}
316 : $P_{11307} = (10, 0, 10, 1)$ lies on line ℓ_{3}
317 : $P_{11342} = (13, 1, 10, 1)$ lies on line ℓ_{19}
318 : $P_{11358} = (29, 1, 10, 1)$ lies on line ℓ_{20}
319 : $P_{11570} = (17, 8, 10, 1)$ lies on line ℓ_{18}
320 : $P_{11573} = (20, 8, 10, 1)$ lies on line ℓ_{17}
321 : $P_{11627} = (10, 10, 10, 1)$ lies on line ℓ_{4}
322 : $P_{11694} = (13, 12, 10, 1)$ lies on line ℓ_{23}
323 : $P_{11702} = (21, 12, 10, 1)$ lies on line ℓ_{24}
324 : $P_{11738} = (25, 13, 10, 1)$ lies on line ℓ_{7}
325 : $P_{11741} = (28, 13, 10, 1)$ lies on line ℓ_{8}
326 : $P_{11853} = (12, 17, 10, 1)$ lies on line ℓ_{14}
327 : $P_{11869} = (28, 17, 10, 1)$ lies on line ℓ_{13}
328 : $P_{11938} = (1, 20, 10, 1)$ lies on line ℓ_{6}
329 : $P_{11962} = (25, 20, 10, 1)$ lies on line ℓ_{5}
330 : $P_{11970} = (1, 21, 10, 1)$ lies on line ℓ_{22}
331 : $P_{11977} = (8, 21, 10, 1)$ lies on line ℓ_{21}
332 : $P_{12114} = (17, 25, 10, 1)$ lies on line ℓ_{9}
333 : $P_{12118} = (21, 25, 10, 1)$ lies on line ℓ_{10}
334 : $P_{12213} = (20, 28, 10, 1)$ lies on line ℓ_{15}
335 : $P_{12222} = (29, 28, 10, 1)$ lies on line ℓ_{16}
336 : $P_{12233} = (8, 29, 10, 1)$ lies on line ℓ_{11}
337 : $P_{12237} = (12, 29, 10, 1)$ lies on line ℓ_{12}
338 : $P_{12332} = (11, 0, 11, 1)$ lies on line ℓ_{3}
339 : $P_{12361} = (8, 1, 11, 1)$ lies on line ℓ_{13}
340 : $P_{12370} = (17, 1, 11, 1)$ lies on line ℓ_{14}
341 : $P_{12593} = (16, 8, 11, 1)$ lies on line ℓ_{16}
342 : $P_{12599} = (22, 8, 11, 1)$ lies on line ℓ_{15}
343 : $P_{12617} = (8, 9, 11, 1)$ lies on line ℓ_{8}
344 : $P_{12640} = (31, 9, 11, 1)$ lies on line ℓ_{7}
345 : $P_{12684} = (11, 11, 11, 1)$ lies on line ℓ_{4}
346 : $P_{12793} = (24, 14, 11, 1)$ lies on line ℓ_{22}
347 : $P_{12799} = (30, 14, 11, 1)$ lies on line ℓ_{21}
348 : $P_{12850} = (17, 16, 11, 1)$ lies on line ℓ_{12}
349 : $P_{12863} = (30, 16, 11, 1)$ lies on line ℓ_{11}
350 : $P_{12874} = (9, 17, 11, 1)$ lies on line ℓ_{23}
351 : $P_{12879} = (14, 17, 11, 1)$ lies on line ℓ_{24}
352 : $P_{13049} = (24, 22, 11, 1)$ lies on line ℓ_{6}
353 : $P_{13056} = (31, 22, 11, 1)$ lies on line ℓ_{5}
354 : $P_{13098} = (9, 24, 11, 1)$ lies on line ℓ_{19}
355 : $P_{13105} = (16, 24, 11, 1)$ lies on line ℓ_{20}
356 : $P_{13282} = (1, 30, 11, 1)$ lies on line ℓ_{18}
357 : $P_{13303} = (22, 30, 11, 1)$ lies on line ℓ_{17}
358 : $P_{13314} = (1, 31, 11, 1)$ lies on line ℓ_{9}
359 : $P_{13327} = (14, 31, 11, 1)$ lies on line ℓ_{10}
360 : $P_{13357} = (12, 0, 12, 1)$ lies on line ℓ_{3}
361 : $P_{13524} = (19, 5, 12, 1)$ lies on line ℓ_{21}
362 : $P_{13534} = (29, 5, 12, 1)$ lies on line ℓ_{22}
363 : $P_{13606} = (5, 8, 12, 1)$ lies on line ℓ_{24}
364 : $P_{13622} = (21, 8, 12, 1)$ lies on line ℓ_{23}
365 : $P_{13719} = (22, 11, 12, 1)$ lies on line ℓ_{16}
366 : $P_{13721} = (24, 11, 12, 1)$ lies on line ℓ_{15}
367 : $P_{13741} = (12, 12, 12, 1)$ lies on line ℓ_{4}

368 : $P_{13766} = (5, 13, 12, 1)$ lies on line ℓ_{10}
369 : $P_{13791} = (30, 13, 12, 1)$ lies on line ℓ_{9}
370 : $P_{13977} = (24, 19, 12, 1)$ lies on line ℓ_{17}
371 : $P_{13983} = (30, 19, 12, 1)$ lies on line ℓ_{18}
372 : $P_{14028} = (11, 21, 12, 1)$ lies on line ℓ_{8}
373 : $P_{14030} = (13, 21, 12, 1)$ lies on line ℓ_{7}
374 : $P_{14057} = (8, 22, 12, 1)$ lies on line ℓ_{12}
375 : $P_{14068} = (19, 22, 12, 1)$ lies on line ℓ_{11}
376 : $P_{14126} = (13, 24, 12, 1)$ lies on line ℓ_{5}
377 : $P_{14142} = (29, 24, 12, 1)$ lies on line ℓ_{6}
378 : $P_{14294} = (21, 29, 12, 1)$ lies on line ℓ_{19}
379 : $P_{14295} = (22, 29, 12, 1)$ lies on line ℓ_{20}
380 : $P_{14313} = (8, 30, 12, 1)$ lies on line ℓ_{14}
381 : $P_{14316} = (11, 30, 12, 1)$ lies on line ℓ_{13}
382 : $P_{14382} = (13, 0, 13, 1)$ lies on line ℓ_{3}
383 : $P_{14514} = (17, 4, 13, 1)$ lies on line ℓ_{19}
384 : $P_{14524} = (27, 4, 13, 1)$ lies on line ℓ_{20}
385 : $P_{14543} = (14, 5, 13, 1)$ lies on line ℓ_{18}
386 : $P_{14555} = (26, 5, 13, 1)$ lies on line ℓ_{17}
387 : $P_{14735} = (14, 11, 13, 1)$ lies on line ℓ_{9}
388 : $P_{14751} = (30, 11, 13, 1)$ lies on line ℓ_{10}
389 : $P_{14798} = (13, 13, 13, 1)$ lies on line ℓ_{4}
390 : $P_{14838} = (21, 14, 13, 1)$ lies on line ℓ_{14}
391 : $P_{14848} = (31, 14, 13, 1)$ lies on line ℓ_{13}
392 : $P_{14924} = (11, 17, 13, 1)$ lies on line ℓ_{7}
393 : $P_{14944} = (31, 17, 13, 1)$ lies on line ℓ_{8}
394 : $P_{15058} = (17, 21, 13, 1)$ lies on line ℓ_{23}
395 : $P_{15071} = (30, 21, 13, 1)$ lies on line ℓ_{24}
396 : $P_{15205} = (4, 26, 13, 1)$ lies on line ℓ_{6}
397 : $P_{15212} = (11, 26, 13, 1)$ lies on line ℓ_{5}
398 : $P_{15238} = (5, 27, 13, 1)$ lies on line ℓ_{11}
399 : $P_{15254} = (21, 27, 13, 1)$ lies on line ℓ_{12}
400 : $P_{15333} = (4, 30, 13, 1)$ lies on line ℓ_{22}
401 : $P_{15334} = (5, 30, 13, 1)$ lies on line ℓ_{21}
402 : $P_{15387} = (26, 31, 13, 1)$ lies on line ℓ_{15}
403 : $P_{15388} = (27, 31, 13, 1)$ lies on line ℓ_{16}
404 : $P_{15407} = (14, 0, 14, 1)$ lies on line ℓ_{3}
405 : $P_{15447} = (22, 1, 14, 1)$ lies on line ℓ_{10}
406 : $P_{15452} = (27, 1, 14, 1)$ lies on line ℓ_{9}
407 : $P_{15597} = (12, 6, 14, 1)$ lies on line ℓ_{16}
408 : $P_{15613} = (28, 6, 14, 1)$ lies on line ℓ_{15}
409 : $P_{15725} = (12, 10, 14, 1)$ lies on line ℓ_{20}
410 : $P_{15742} = (29, 10, 14, 1)$ lies on line ℓ_{19}
411 : $P_{15800} = (23, 12, 14, 1)$ lies on line ℓ_{12}
412 : $P_{15803} = (26, 12, 14, 1)$ lies on line ℓ_{11}
413 : $P_{15855} = (14, 14, 14, 1)$ lies on line ℓ_{4}
414 : $P_{16107} = (10, 22, 14, 1)$ lies on line ℓ_{22}
415 : $P_{16123} = (26, 22, 14, 1)$ lies on line ℓ_{21}
416 : $P_{16151} = (22, 23, 14, 1)$ lies on line ℓ_{24}
417 : $P_{16158} = (29, 23, 14, 1)$ lies on line ℓ_{23}
418 : $P_{16252} = (27, 26, 14, 1)$ lies on line ℓ_{18}
419 : $P_{16253} = (28, 26, 14, 1)$ lies on line ℓ_{17}
420 : $P_{16263} = (6, 27, 14, 1)$ lies on line ℓ_{13}
421 : $P_{16280} = (23, 27, 14, 1)$ lies on line ℓ_{14}
422 : $P_{16290} = (1, 28, 14, 1)$ lies on line ℓ_{5}
423 : $P_{16299} = (10, 28, 14, 1)$ lies on line ℓ_{6}
424 : $P_{16322} = (1, 29, 14, 1)$ lies on line ℓ_{7}
425 : $P_{16327} = (6, 29, 14, 1)$ lies on line ℓ_{8}
426 : $P_{16432} = (15, 0, 15, 1)$ lies on line ℓ_{3}
427 : $P_{16459} = (10, 1, 15, 1)$ lies on line ℓ_{12}
428 : $P_{16461} = (12, 1, 15, 1)$ lies on line ℓ_{11}
429 : $P_{16652} = (11, 7, 15, 1)$ lies on line ℓ_{9}
430 : $P_{16654} = (13, 7, 15, 1)$ lies on line ℓ_{10}
431 : $P_{16750} = (13, 10, 15, 1)$ lies on line ℓ_{24}
432 : $P_{16762} = (25, 10, 15, 1)$ lies on line ℓ_{23}
433 : $P_{16779} = (10, 11, 15, 1)$ lies on line ℓ_{14}
434 : $P_{16787} = (18, 11, 15, 1)$ lies on line ℓ_{13}
435 : $P_{16812} = (11, 12, 15, 1)$ lies on line ℓ_{18}
436 : $P_{16831} = (30, 12, 15, 1)$ lies on line ℓ_{17}
437 : $P_{16845} = (12, 13, 15, 1)$ lies on line ℓ_{21}
438 : $P_{16852} = (19, 13, 15, 1)$ lies on line ℓ_{22}
439 : $P_{16912} = (15, 15, 15, 1)$ lies on line ℓ_{4}
440 : $P_{16994} = (1, 18, 15, 1)$ lies on line ℓ_{16}
441 : $P_{17023} = (30, 18, 15, 1)$ lies on line ℓ_{15}
442 : $P_{17026} = (1, 19, 15, 1)$ lies on line ℓ_{20}
443 : $P_{17050} = (25, 19, 15, 1)$ lies on line ℓ_{19}
444 : $P_{17224} = (7, 25, 15, 1)$ lies on line ℓ_{7}
445 : $P_{17235} = (18, 25, 15, 1)$ lies on line ℓ_{8}
446 : $P_{17384} = (7, 30, 15, 1)$ lies on line ℓ_{5}
447 : $P_{17396} = (19, 30, 15, 1)$ lies on line ℓ_{6}
448 : $P_{17457} = (16, 0, 16, 1)$ lies on line ℓ_{3}
449 : $P_{17510} = (5, 2, 16, 1)$ lies on line ℓ_{17}
450 : $P_{17518} = (13, 2, 16, 1)$ lies on line ℓ_{18}
451 : $P_{17547} = (10, 3, 16, 1)$ lies on line ℓ_{23}
452 : $P_{17549} = (12, 3, 16, 1)$ lies on line ℓ_{24}
453 : $P_{17610} = (9, 5, 16, 1)$ lies on line ℓ_{6}
454 : $P_{17616} = (15, 5, 16, 1)$ lies on line ℓ_{5}
455 : $P_{17670} = (5, 7, 16, 1)$ lies on line ℓ_{15}
456 : $P_{17679} = (14, 7, 16, 1)$ lies on line ℓ_{16}
457 : $P_{17739} = (10, 9, 16, 1)$ lies on line ℓ_{19}
458 : $P_{17743} = (14, 9, 16, 1)$ lies on line ℓ_{20}
459 : $P_{17768} = (7, 10, 16, 1)$ lies on line ℓ_{8}
460 : $P_{17776} = (15, 10, 16, 1)$ lies on line ℓ_{7}
461 : $P_{17827} = (2, 12, 16, 1)$ lies on line ℓ_{21}
462 : $P_{17834} = (9, 12, 16, 1)$ lies on line ℓ_{22}
463 : $P_{17860} = (3, 13, 16, 1)$ lies on line ℓ_{14}
464 : $P_{17864} = (7, 13, 16, 1)$ lies on line ℓ_{13}
465 : $P_{17891} = (2, 14, 16, 1)$ lies on line ℓ_{11}
466 : $P_{17892} = (3, 14, 16, 1)$ lies on line ℓ_{12}
467 : $P_{17933} = (12, 15, 16, 1)$ lies on line ℓ_{10}
468 : $P_{17934} = (13, 15, 16, 1)$ lies on line ℓ_{9}
469 : $P_{17969} = (16, 16, 16, 1)$ lies on line ℓ_{4}
470 : $P_{18482} = (17, 0, 17, 1)$ lies on line ℓ_{3}
471 : $P_{18581} = (20, 3, 17, 1)$ lies on line ℓ_{11}
472 : $P_{18591} = (30, 3, 17, 1)$ lies on line ℓ_{12}
473 : $P_{18698} = (9, 7, 17, 1)$ lies on line ℓ_{5}
474 : $P_{18705} = (16, 7, 17, 1)$ lies on line ℓ_{6}
475 : $P_{18776} = (23, 9, 17, 1)$ lies on line ℓ_{10}

476 : $P_{18782} = (29, 9, 17, 1)$ lies on line ℓ_9
477 : $P_{18922} = (9, 14, 17, 1)$ lies on line ℓ_7
478 : $P_{18932} = (19, 14, 17, 1)$ lies on line ℓ_8
479 : $P_{18980} = (3, 16, 17, 1)$ lies on line ℓ_{20}
480 : $P_{18991} = (14, 16, 17, 1)$ lies on line ℓ_{19}
481 : $P_{19026} = (17, 17, 17, 1)$ lies on line ℓ_4
482 : $P_{19076} = (3, 19, 17, 1)$ lies on line ℓ_{16}
483 : $P_{19080} = (7, 19, 17, 1)$ lies on line ℓ_{15}
484 : $P_{19112} = (7, 20, 17, 1)$ lies on line ℓ_{17}
485 : $P_{19134} = (29, 20, 17, 1)$ lies on line ℓ_{18}
486 : $P_{19217} = (16, 23, 17, 1)$ lies on line ℓ_{22}
487 : $P_{19221} = (20, 23, 17, 1)$ lies on line ℓ_{21}
488 : $P_{19412} = (19, 29, 17, 1)$ lies on line ℓ_{13}
489 : $P_{19423} = (30, 29, 17, 1)$ lies on line ℓ_{14}
490 : $P_{19439} = (14, 30, 17, 1)$ lies on line ℓ_{23}
491 : $P_{19448} = (23, 30, 17, 1)$ lies on line ℓ_{24}
492 : $P_{19507} = (18, 0, 18, 1)$ lies on line ℓ_3
493 : $P_{19524} = (3, 1, 18, 1)$ lies on line ℓ_5
494 : $P_{19551} = (30, 1, 18, 1)$ lies on line ℓ_6
495 : $P_{19556} = (3, 2, 18, 1)$ lies on line ℓ_7
496 : $P_{19563} = (10, 2, 18, 1)$ lies on line ℓ_8
497 : $P_{19593} = (8, 3, 18, 1)$ lies on line ℓ_9
498 : $P_{19616} = (31, 3, 18, 1)$ lies on line ℓ_{10}
499 : $P_{19755} = (10, 8, 18, 1)$ lies on line ℓ_{13}
500 : $P_{19773} = (28, 8, 18, 1)$ lies on line ℓ_{14}
501 : $P_{19810} = (1, 10, 18, 1)$ lies on line ℓ_{15}
502 : $P_{19829} = (20, 10, 18, 1)$ lies on line ℓ_{16}
503 : $P_{19842} = (1, 11, 18, 1)$ lies on line ℓ_{17}
504 : $P_{19849} = (8, 11, 18, 1)$ lies on line ℓ_{18}
505 : $P_{20083} = (18, 18, 18, 1)$ lies on line ℓ_4
506 : $P_{20140} = (11, 20, 18, 1)$ lies on line ℓ_{11}
507 : $P_{20157} = (28, 20, 18, 1)$ lies on line ℓ_{12}
508 : $P_{20387} = (2, 28, 18, 1)$ lies on line ℓ_{23}
509 : $P_{20416} = (31, 28, 18, 1)$ lies on line ℓ_{24}
510 : $P_{20451} = (2, 30, 18, 1)$ lies on line ℓ_{19}
511 : $P_{20469} = (20, 30, 18, 1)$ lies on line ℓ_{20}
512 : $P_{20492} = (11, 31, 18, 1)$ lies on line ℓ_{21}
513 : $P_{20511} = (30, 31, 18, 1)$ lies on line ℓ_{22}
514 : $P_{20532} = (19, 0, 19, 1)$ lies on line ℓ_3
515 : $P_{20549} = (4, 1, 19, 1)$ lies on line ℓ_{24}
516 : $P_{20551} = (6, 1, 19, 1)$ lies on line ℓ_{23}
517 : $P_{20614} = (5, 3, 19, 1)$ lies on line ℓ_5
518 : $P_{20616} = (7, 3, 19, 1)$ lies on line ℓ_6
519 : $P_{20648} = (7, 4, 19, 1)$ lies on line ℓ_{22}
520 : $P_{20670} = (29, 4, 19, 1)$ lies on line ℓ_{21}
521 : $P_{20677} = (4, 5, 19, 1)$ lies on line ℓ_{10}
522 : $P_{20697} = (24, 5, 19, 1)$ lies on line ℓ_9
523 : $P_{20710} = (5, 6, 19, 1)$ lies on line ℓ_7
524 : $P_{20735} = (30, 6, 19, 1)$ lies on line ℓ_8
525 : $P_{20743} = (6, 7, 19, 1)$ lies on line ℓ_{19}
526 : $P_{20762} = (25, 7, 19, 1)$ lies on line ℓ_{20}
527 : $P_{21140} = (19, 19, 19, 1)$ lies on line ℓ_4
528 : $P_{21282} = (1, 24, 19, 1)$ lies on line ℓ_{14}
529 : $P_{21311} = (30, 24, 19, 1)$ lies on line ℓ_{13}
530 : $P_{21314} = (1, 25, 19, 1)$ lies on line ℓ_{12}
531 : $P_{21342} = (29, 25, 19, 1)$ lies on line ℓ_{11}
532 : $P_{21444} = (3, 29, 19, 1)$ lies on line ℓ_{17}
533 : $P_{21465} = (24, 29, 19, 1)$ lies on line ℓ_{18}
534 : $P_{21476} = (3, 30, 19, 1)$ lies on line ℓ_{15}
535 : $P_{21498} = (25, 30, 19, 1)$ lies on line ℓ_{16}
536 : $P_{21557} = (20, 0, 20, 1)$ lies on line ℓ_3
537 : $P_{21627} = (26, 2, 20, 1)$ lies on line ℓ_{19}
538 : $P_{21632} = (31, 2, 20, 1)$ lies on line ℓ_{20}
539 : $P_{21785} = (24, 7, 20, 1)$ lies on line ℓ_{14}
540 : $P_{21790} = (29, 7, 20, 1)$ lies on line ℓ_{13}
541 : $P_{21955} = (2, 13, 20, 1)$ lies on line ℓ_6
542 : $P_{21976} = (23, 13, 20, 1)$ lies on line ℓ_5
543 : $P_{22019} = (2, 15, 20, 1)$ lies on line ℓ_{22}
544 : $P_{22033} = (16, 15, 20, 1)$ lies on line ℓ_{21}
545 : $P_{22056} = (7, 16, 20, 1)$ lies on line ℓ_{18}
546 : $P_{22062} = (13, 16, 20, 1)$ lies on line ℓ_{17}
547 : $P_{22197} = (20, 20, 20, 1)$ lies on line ℓ_4
548 : $P_{22280} = (7, 23, 20, 1)$ lies on line ℓ_9
549 : $P_{22288} = (15, 23, 20, 1)$ lies on line ℓ_{10}
550 : $P_{22320} = (15, 24, 20, 1)$ lies on line ℓ_{24}
551 : $P_{22331} = (26, 24, 20, 1)$ lies on line ℓ_{23}
552 : $P_{22392} = (23, 26, 20, 1)$ lies on line ℓ_7
553 : $P_{22398} = (29, 26, 20, 1)$ lies on line ℓ_8
554 : $P_{22478} = (13, 29, 20, 1)$ lies on line ℓ_{15}
555 : $P_{22496} = (31, 29, 20, 1)$ lies on line ℓ_{16}
556 : $P_{22545} = (16, 31, 20, 1)$ lies on line ℓ_{11}
557 : $P_{22553} = (24, 31, 20, 1)$ lies on line ℓ_{12}
558 : $P_{22582} = (21, 0, 21, 1)$ lies on line ℓ_3
559 : $P_{22741} = (20, 5, 21, 1)$ lies on line ℓ_{24}
560 : $P_{22751} = (30, 5, 21, 1)$ lies on line ℓ_{23}
561 : $P_{22768} = (15, 6, 21, 1)$ lies on line ℓ_{17}
562 : $P_{22776} = (23, 6, 21, 1)$ lies on line ℓ_{18}
563 : $P_{22864} = (15, 9, 21, 1)$ lies on line ℓ_{15}
564 : $P_{22867} = (18, 9, 21, 1)$ lies on line ℓ_{16}
565 : $P_{23058} = (17, 15, 21, 1)$ lies on line ℓ_5
566 : $P_{23068} = (27, 15, 21, 1)$ lies on line ℓ_6
567 : $P_{23125} = (20, 17, 21, 1)$ lies on line ℓ_{10}
568 : $P_{23128} = (23, 17, 21, 1)$ lies on line ℓ_9
569 : $P_{23142} = (5, 18, 21, 1)$ lies on line ℓ_{12}
570 : $P_{23143} = (6, 18, 21, 1)$ lies on line ℓ_{11}
571 : $P_{23207} = (6, 20, 21, 1)$ lies on line ℓ_{21}
572 : $P_{23228} = (27, 20, 21, 1)$ lies on line ℓ_{22}
573 : $P_{23254} = (21, 21, 21, 1)$ lies on line ℓ_4
574 : $P_{23302} = (5, 23, 21, 1)$ lies on line ℓ_{14}
575 : $P_{23306} = (9, 23, 21, 1)$ lies on line ℓ_{13}
576 : $P_{23443} = (18, 27, 21, 1)$ lies on line ℓ_{20}
577 : $P_{23455} = (30, 27, 21, 1)$ lies on line ℓ_{19}
578 : $P_{23530} = (9, 30, 21, 1)$ lies on line ℓ_8
579 : $P_{23538} = (17, 30, 21, 1)$ lies on line ℓ_7
580 : $P_{23607} = (22, 0, 22, 1)$ lies on line ℓ_3
581 : $P_{23656} = (7, 2, 22, 1)$ lies on line ℓ_{14}
582 : $P_{23665} = (16, 2, 22, 1)$ lies on line ℓ_{13}
583 : $P_{23752} = (7, 5, 22, 1)$ lies on line ℓ_{12}

584 : $P_{23770} = (25, 5, 22, 1)$ lies on line ℓ_{11}
585 : $P_{23827} = (18, 7, 22, 1)$ lies on line ℓ_{23}
586 : $P_{23837} = (28, 7, 22, 1)$ lies on line ℓ_{24}
587 : $P_{23894} = (21, 9, 22, 1)$ lies on line ℓ_{6}
588 : $P_{23900} = (27, 9, 22, 1)$ lies on line ℓ_{5}
589 : $P_{24102} = (5, 16, 22, 1)$ lies on line ℓ_{16}
590 : $P_{24106} = (9, 16, 22, 1)$ lies on line ℓ_{15}
591 : $P_{24177} = (16, 18, 22, 1)$ lies on line ℓ_{8}
592 : $P_{24188} = (27, 18, 22, 1)$ lies on line ℓ_{7}
593 : $P_{24262} = (5, 21, 22, 1)$ lies on line ℓ_{20}
594 : $P_{24275} = (18, 21, 22, 1)$ lies on line ℓ_{19}
595 : $P_{24311} = (22, 22, 22, 1)$ lies on line ℓ_{4}
596 : $P_{24387} = (2, 25, 22, 1)$ lies on line ℓ_{18}
597 : $P_{24394} = (9, 25, 22, 1)$ lies on line ℓ_{17}
598 : $P_{24451} = (2, 27, 22, 1)$ lies on line ℓ_{9}
599 : $P_{24477} = (28, 27, 22, 1)$ lies on line ℓ_{10}
600 : $P_{24502} = (21, 28, 22, 1)$ lies on line ℓ_{22}
601 : $P_{24506} = (25, 28, 22, 1)$ lies on line ℓ_{21}
602 : $P_{24632} = (23, 0, 23, 1)$ lies on line ℓ_{3}
603 : $P_{24745} = (8, 4, 23, 1)$ lies on line ℓ_{16}
604 : $P_{24748} = (11, 4, 23, 1)$ lies on line ℓ_{15}
605 : $P_{24845} = (12, 7, 23, 1)$ lies on line ℓ_{22}
606 : $P_{24848} = (15, 7, 23, 1)$ lies on line ℓ_{21}
607 : $P_{24880} = (15, 8, 23, 1)$ lies on line ℓ_{11}
608 : $P_{24891} = (26, 8, 23, 1)$ lies on line ℓ_{12}
609 : $P_{24973} = (12, 11, 23, 1)$ lies on line ℓ_{6}
610 : $P_{24990} = (29, 11, 23, 1)$ lies on line ℓ_{5}
611 : $P_{25001} = (8, 12, 23, 1)$ lies on line ℓ_{20}
612 : $P_{25015} = (22, 12, 23, 1)$ lies on line ℓ_{19}
613 : $P_{25100} = (11, 15, 23, 1)$ lies on line ℓ_{17}
614 : $P_{25107} = (18, 15, 23, 1)$ lies on line ℓ_{18}
615 : $P_{25189} = (4, 18, 23, 1)$ lies on line ℓ_{13}
616 : $P_{25211} = (26, 18, 23, 1)$ lies on line ℓ_{14}
617 : $P_{25317} = (4, 22, 23, 1)$ lies on line ℓ_{8}
618 : $P_{25342} = (29, 22, 23, 1)$ lies on line ℓ_{7}
619 : $P_{25368} = (23, 23, 23, 1)$ lies on line ℓ_{4}
620 : $P_{25448} = (7, 26, 23, 1)$ lies on line ℓ_{24}
621 : $P_{25463} = (22, 26, 23, 1)$ lies on line ℓ_{23}
622 : $P_{25544} = (7, 29, 23, 1)$ lies on line ℓ_{10}
623 : $P_{25555} = (18, 29, 23, 1)$ lies on line ℓ_{9}
624 : $P_{25657} = (24, 0, 24, 1)$ lies on line ℓ_{3}
625 : $P_{25750} = (21, 3, 24, 1)$ lies on line ℓ_{17}
626 : $P_{25754} = (25, 3, 24, 1)$ lies on line ℓ_{18}
627 : $P_{25924} = (3, 9, 24, 1)$ lies on line ℓ_{11}
628 : $P_{25937} = (16, 9, 24, 1)$ lies on line ℓ_{12}
629 : $P_{25956} = (3, 10, 24, 1)$ lies on line ℓ_{21}
630 : $P_{25984} = (31, 10, 24, 1)$ lies on line ℓ_{22}
631 : $P_{26135} = (22, 15, 24, 1)$ lies on line ℓ_{8}
632 : $P_{26139} = (26, 15, 24, 1)$ lies on line ℓ_{7}
633 : $P_{26155} = (10, 16, 24, 1)$ lies on line ℓ_{24}
634 : $P_{26160} = (15, 16, 24, 1)$ lies on line ℓ_{23}
635 : $P_{26331} = (26, 21, 24, 1)$ lies on line ℓ_{5}
636 : $P_{26336} = (31, 21, 24, 1)$ lies on line ℓ_{6}
637 : $P_{26346} = (9, 22, 24, 1)$ lies on line ℓ_{16}
638 : $P_{26358} = (21, 22, 24, 1)$ lies on line ℓ_{15}
639 : $P_{26425} = (24, 24, 24, 1)$ lies on line ℓ_{4}
640 : $P_{26449} = (16, 25, 24, 1)$ lies on line ℓ_{14}
641 : $P_{26455} = (22, 25, 24, 1)$ lies on line ℓ_{13}
642 : $P_{26475} = (10, 26, 24, 1)$ lies on line ℓ_{10}
643 : $P_{26490} = (25, 26, 24, 1)$ lies on line ℓ_{9}
644 : $P_{26634} = (9, 31, 24, 1)$ lies on line ℓ_{20}
645 : $P_{26640} = (15, 31, 24, 1)$ lies on line ℓ_{19}
646 : $P_{26682} = (25, 0, 25, 1)$ lies on line ℓ_{3}
647 : $P_{26725} = (4, 2, 25, 1)$ lies on line ℓ_{16}
648 : $P_{26744} = (23, 2, 25, 1)$ lies on line ℓ_{15}
649 : $P_{26798} = (13, 4, 25, 1)$ lies on line ℓ_{12}
650 : $P_{26806} = (21, 4, 25, 1)$ lies on line ℓ_{11}
651 : $P_{26853} = (4, 6, 25, 1)$ lies on line ℓ_{20}
652 : $P_{26860} = (11, 6, 25, 1)$ lies on line ℓ_{19}
653 : $P_{26947} = (2, 9, 25, 1)$ lies on line ℓ_{13}
654 : $P_{26958} = (13, 9, 25, 1)$ lies on line ℓ_{14}
655 : $P_{27011} = (2, 11, 25, 1)$ lies on line ℓ_{8}
656 : $P_{27037} = (28, 11, 25, 1)$ lies on line ℓ_{7}
657 : $P_{27084} = (11, 13, 25, 1)$ lies on line ℓ_{23}
658 : $P_{27090} = (17, 13, 25, 1)$ lies on line ℓ_{24}
659 : $P_{27207} = (6, 17, 25, 1)$ lies on line ℓ_{22}
660 : $P_{27222} = (21, 17, 25, 1)$ lies on line ℓ_{21}
661 : $P_{27338} = (9, 21, 25, 1)$ lies on line ℓ_{18}
662 : $P_{27352} = (23, 21, 25, 1)$ lies on line ℓ_{17}
663 : $P_{27399} = (6, 23, 25, 1)$ lies on line ℓ_{6}
664 : $P_{27421} = (28, 23, 25, 1)$ lies on line ℓ_{5}
665 : $P_{27482} = (25, 25, 25, 1)$ lies on line ℓ_{4}
666 : $P_{27562} = (9, 28, 25, 1)$ lies on line ℓ_{9}
667 : $P_{27570} = (17, 28, 25, 1)$ lies on line ℓ_{10}
668 : $P_{27707} = (26, 0, 26, 1)$ lies on line ℓ_{3}
669 : $P_{27927} = (22, 7, 26, 1)$ lies on line ℓ_{7}
670 : $P_{27932} = (27, 7, 26, 1)$ lies on line ℓ_{8}
671 : $P_{27944} = (7, 8, 26, 1)$ lies on line ℓ_{19}
672 : $P_{27956} = (19, 8, 26, 1)$ lies on line ℓ_{20}
673 : $P_{28018} = (17, 10, 26, 1)$ lies on line ℓ_{17}
674 : $P_{28029} = (28, 10, 26, 1)$ lies on line ℓ_{18}
675 : $P_{28168} = (7, 15, 26, 1)$ lies on line ℓ_{23}
676 : $P_{28186} = (25, 15, 26, 1)$ lies on line ℓ_{24}
677 : $P_{28233} = (8, 17, 26, 1)$ lies on line ℓ_{6}
678 : $P_{28247} = (22, 17, 26, 1)$ lies on line ℓ_{5}
679 : $P_{28299} = (10, 19, 26, 1)$ lies on line ℓ_{11}
680 : $P_{28304} = (15, 19, 26, 1)$ lies on line ℓ_{12}
681 : $P_{28410} = (25, 22, 26, 1)$ lies on line ℓ_{10}
682 : $P_{28413} = (28, 22, 26, 1)$ lies on line ℓ_{9}
683 : $P_{28489} = (8, 25, 26, 1)$ lies on line ℓ_{22}
684 : $P_{28491} = (10, 25, 26, 1)$ lies on line ℓ_{21}
685 : $P_{28539} = (26, 26, 26, 1)$ lies on line ℓ_{4}
686 : $P_{28562} = (17, 27, 26, 1)$ lies on line ℓ_{15}
687 : $P_{28564} = (19, 27, 26, 1)$ lies on line ℓ_{16}
688 : $P_{28592} = (15, 28, 26, 1)$ lies on line ℓ_{14}
689 : $P_{28604} = (27, 28, 26, 1)$ lies on line ℓ_{13}
690 : $P_{28732} = (27, 0, 27, 1)$ lies on line ℓ_{3}
691 : $P_{28786} = (17, 2, 27, 1)$ lies on line ℓ_{22}

692 : $P_{28797} = (28, 2, 27, 1)$ lies on line ℓ_{21}
693 : $P_{28816} = (15, 3, 27, 1)$ lies on line ℓ_{8}
694 : $P_{28817} = (16, 3, 27, 1)$ lies on line ℓ_{7}
695 : $P_{29104} = (15, 12, 27, 1)$ lies on line ℓ_{13}
696 : $P_{29107} = (18, 12, 27, 1)$ lies on line ℓ_{14}
697 : $P_{29204} = (19, 15, 27, 1)$ lies on line ℓ_{15}
698 : $P_{29215} = (30, 15, 27, 1)$ lies on line ℓ_{16}
699 : $P_{29219} = (2, 16, 27, 1)$ lies on line ℓ_{10}
700 : $P_{29229} = (12, 16, 27, 1)$ lies on line ℓ_{9}
701 : $P_{29252} = (3, 17, 27, 1)$ lies on line ℓ_{19}
702 : $P_{29279} = (30, 17, 27, 1)$ lies on line ℓ_{20}
703 : $P_{29283} = (2, 18, 27, 1)$ lies on line ℓ_{24}
704 : $P_{29284} = (3, 18, 27, 1)$ lies on line ℓ_{23}
705 : $P_{29329} = (16, 19, 27, 1)$ lies on line ℓ_{5}
706 : $P_{29330} = (17, 19, 27, 1)$ lies on line ℓ_{6}
707 : $P_{29596} = (27, 27, 27, 1)$ lies on line ℓ_{4}
708 : $P_{29613} = (12, 28, 27, 1)$ lies on line ℓ_{18}
709 : $P_{29620} = (19, 28, 27, 1)$ lies on line ℓ_{17}
710 : $P_{29683} = (18, 30, 27, 1)$ lies on line ℓ_{12}
711 : $P_{29693} = (28, 30, 27, 1)$ lies on line ℓ_{11}
712 : $P_{29757} = (28, 0, 28, 1)$ lies on line ℓ_{3}
713 : $P_{29802} = (9, 2, 28, 1)$ lies on line ℓ_{10}
714 : $P_{29812} = (19, 2, 28, 1)$ lies on line ℓ_{9}
715 : $P_{30034} = (17, 9, 28, 1)$ lies on line ℓ_{21}
716 : $P_{30037} = (20, 9, 28, 1)$ lies on line ℓ_{22}
717 : $P_{30090} = (9, 11, 28, 1)$ lies on line ℓ_{24}
718 : $P_{30112} = (31, 11, 28, 1)$ lies on line ℓ_{23}
719 : $P_{30137} = (24, 12, 28, 1)$ lies on line ℓ_{16}
720 : $P_{30142} = (29, 12, 28, 1)$ lies on line ℓ_{15}
721 : $P_{30292} = (19, 17, 28, 1)$ lies on line ℓ_{18}
722 : $P_{30302} = (29, 17, 28, 1)$ lies on line ℓ_{17}
723 : $P_{30348} = (11, 19, 28, 1)$ lies on line ℓ_{14}
724 : $P_{30349} = (12, 19, 28, 1)$ lies on line ℓ_{13}
725 : $P_{30393} = (24, 20, 28, 1)$ lies on line ℓ_{20}
726 : $P_{30400} = (31, 20, 28, 1)$ lies on line ℓ_{19}
727 : $P_{30508} = (11, 24, 28, 1)$ lies on line ℓ_{12}
728 : $P_{30514} = (17, 24, 28, 1)$ lies on line ℓ_{11}
729 : $P_{30653} = (28, 28, 28, 1)$ lies on line ℓ_{4}
730 : $P_{30659} = (2, 29, 28, 1)$ lies on line ℓ_{5}
731 : $P_{30677} = (20, 29, 28, 1)$ lies on line ℓ_{6}
732 : $P_{30723} = (2, 31, 28, 1)$ lies on line ℓ_{7}
733 : $P_{30733} = (12, 31, 28, 1)$ lies on line ℓ_{8}
734 : $P_{30782} = (29, 0, 29, 1)$ lies on line ℓ_{3}
735 : $P_{30871} = (22, 3, 29, 1)$ lies on line ℓ_{14}
736 : $P_{30873} = (24, 3, 29, 1)$ lies on line ℓ_{13}
737 : $P_{30884} = (3, 4, 29, 1)$ lies on line ℓ_{9}
738 : $P_{30899} = (18, 4, 29, 1)$ lies on line ℓ_{10}
739 : $P_{30980} = (3, 7, 29, 1)$ lies on line ℓ_{18}
740 : $P_{31008} = (31, 7, 29, 1)$ lies on line ℓ_{17}
741 : $P_{31190} = (21, 13, 29, 1)$ lies on line ℓ_{20}
742 : $P_{31196} = (27, 13, 29, 1)$ lies on line ℓ_{19}
743 : $P_{31336} = (7, 18, 29, 1)$ lies on line ℓ_{21}
744 : $P_{31342} = (13, 18, 29, 1)$ lies on line ℓ_{22}
745 : $P_{31432} = (7, 21, 29, 1)$ lies on line ℓ_{11}
746 : $P_{31447} = (22, 21, 29, 1)$ lies on line ℓ_{12}
747 : $P_{31475} = (18, 22, 29, 1)$ lies on line ℓ_{24}
748 : $P_{31484} = (27, 22, 29, 1)$ lies on line ℓ_{23}
749 : $P_{31542} = (21, 24, 29, 1)$ lies on line ℓ_{16}
750 : $P_{31552} = (31, 24, 29, 1)$ lies on line ℓ_{15}
751 : $P_{31621} = (4, 27, 29, 1)$ lies on line ℓ_{7}
752 : $P_{31641} = (24, 27, 29, 1)$ lies on line ℓ_{8}
753 : $P_{31710} = (29, 29, 29, 1)$ lies on line ℓ_{4}
754 : $P_{31749} = (4, 31, 29, 1)$ lies on line ℓ_{5}
755 : $P_{31758} = (13, 31, 29, 1)$ lies on line ℓ_{6}
756 : $P_{31807} = (30, 0, 30, 1)$ lies on line ℓ_{3}
757 : $P_{31811} = (2, 1, 30, 1)$ lies on line ℓ_{16}
758 : $P_{31834} = (25, 1, 30, 1)$ lies on line ℓ_{15}
759 : $P_{31861} = (20, 2, 30, 1)$ lies on line ℓ_{12}
760 : $P_{31865} = (24, 2, 30, 1)$ lies on line ℓ_{11}
761 : $P_{31875} = (2, 3, 30, 1)$ lies on line ℓ_{20}
762 : $P_{31896} = (23, 3, 30, 1)$ lies on line ℓ_{19}
763 : $P_{32247} = (22, 14, 30, 1)$ lies on line ℓ_{9}
764 : $P_{32251} = (26, 14, 30, 1)$ lies on line ℓ_{10}
765 : $P_{32440} = (23, 20, 30, 1)$ lies on line ℓ_{23}
766 : $P_{32443} = (26, 20, 30, 1)$ lies on line ℓ_{24}
767 : $P_{32482} = (1, 22, 30, 1)$ lies on line ℓ_{13}
768 : $P_{32501} = (20, 22, 30, 1)$ lies on line ℓ_{14}
769 : $P_{32514} = (1, 23, 30, 1)$ lies on line ℓ_{8}
770 : $P_{32527} = (14, 23, 30, 1)$ lies on line ℓ_{7}
771 : $P_{32567} = (22, 24, 30, 1)$ lies on line ℓ_{18}
772 : $P_{32570} = (25, 24, 30, 1)$ lies on line ℓ_{17}
773 : $P_{32580} = (3, 25, 30, 1)$ lies on line ℓ_{6}
774 : $P_{32591} = (14, 25, 30, 1)$ lies on line ℓ_{5}
775 : $P_{32612} = (3, 26, 30, 1)$ lies on line ℓ_{22}
776 : $P_{32633} = (24, 26, 30, 1)$ lies on line ℓ_{21}
777 : $P_{32767} = (30, 30, 30, 1)$ lies on line ℓ_{4}
778 : $P_{32832} = (31, 0, 31, 1)$ lies on line ℓ_{3}
779 : $P_{32847} = (14, 1, 31, 1)$ lies on line ℓ_{21}
780 : $P_{32859} = (26, 1, 31, 1)$ lies on line ℓ_{22}
781 : $P_{33002} = (9, 6, 31, 1)$ lies on line ℓ_{14}
782 : $P_{33014} = (21, 6, 31, 1)$ lies on line ℓ_{13}
783 : $P_{33058} = (1, 8, 31, 1)$ lies on line ℓ_{10}
784 : $P_{33063} = (6, 8, 31, 1)$ lies on line ℓ_{9}
785 : $P_{33090} = (1, 9, 31, 1)$ lies on line ℓ_{24}
786 : $P_{33108} = (19, 9, 31, 1)$ lies on line ℓ_{23}
787 : $P_{33255} = (6, 14, 31, 1)$ lies on line ℓ_{18}
788 : $P_{33276} = (27, 14, 31, 1)$ lies on line ℓ_{17}
789 : $P_{33290} = (9, 15, 31, 1)$ lies on line ℓ_{12}
790 : $P_{33295} = (14, 15, 31, 1)$ lies on line ℓ_{11}
791 : $P_{33417} = (8, 19, 31, 1)$ lies on line ℓ_{7}
792 : $P_{33430} = (21, 19, 31, 1)$ lies on line ℓ_{8}
793 : $P_{33488} = (15, 21, 31, 1)$ lies on line ℓ_{16}
794 : $P_{33500} = (27, 21, 31, 1)$ lies on line ℓ_{15}
795 : $P_{33648} = (15, 26, 31, 1)$ lies on line ℓ_{20}
796 : $P_{33652} = (19, 26, 31, 1)$ lies on line ℓ_{19}
797 : $P_{33673} = (8, 27, 31, 1)$ lies on line ℓ_{5}
798 : $P_{33691} = (26, 27, 31, 1)$ lies on line ℓ_{6}
799 : $P_{33824} = (31, 31, 31, 1)$ lies on line ℓ_{4}

The single points on the surface are:

Points on surface but on no line

The surface has 0 points not on any line:
The points on the surface but not on lines are:

Line Intersection Graph

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 3 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 4 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 5 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 6 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 7 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 8 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 9 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 10 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 11 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 12 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 13 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 14 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 15 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 16 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	

Line 17 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 18 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 19 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 20 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 21 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 22 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 23 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 24 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

The surface has 801 points:
The points on the surface are:

0 : $P_0 = (1, 0, 0, 0)$
1 : $P_1 = (0, 1, 0, 0)$
2 : $P_3 = (0, 0, 0, 1)$
3 : $P_4 = (1, 1, 1, 1)$
4 : $P_5 = (1, 1, 0, 0)$
5 : $P_{36} = (1, 0, 1, 0)$
6 : $P_{68} = (1, 1, 1, 0)$
7 : $P_{105} = (6, 2, 1, 0)$
8 : $P_{124} = (25, 2, 1, 0)$
9 : $P_{169} = (6, 4, 1, 0)$
10 : $P_{183} = (20, 4, 1, 0)$
11 : $P_{243} = (16, 6, 1, 0)$
12 : $P_{254} = (27, 6, 1, 0)$
13 : $P_{473} = (22, 13, 1, 0)$
14 : $P_{480} = (29, 13, 1, 0)$
15 : $P_{567} = (20, 16, 1, 0)$
16 : $P_{576} = (29, 16, 1, 0)$
17 : $P_{677} = (2, 20, 1, 0)$
18 : $P_{688} = (13, 20, 1, 0)$
19 : $P_{741} = (2, 22, 1, 0)$
20 : $P_{755} = (16, 22, 1, 0)$
21 : $P_{839} = (4, 25, 1, 0)$
22 : $P_{848} = (13, 25, 1, 0)$
23 : $P_{921} = (22, 27, 1, 0)$
24 : $P_{924} = (25, 27, 1, 0)$
25 : $P_{967} = (4, 29, 1, 0)$
26 : $P_{990} = (27, 29, 1, 0)$
27 : $P_{1059} = (1, 0, 0, 1)$
28 : $P_{1060} = (2, 0, 0, 1)$
29 : $P_{1061} = (3, 0, 0, 1)$
30 : $P_{1062} = (4, 0, 0, 1)$
31 : $P_{1063} = (5, 0, 0, 1)$
32 : $P_{1064} = (6, 0, 0, 1)$
33 : $P_{1065} = (7, 0, 0, 1)$
34 : $P_{1066} = (8, 0, 0, 1)$
35 : $P_{1067} = (9, 0, 0, 1)$
36 : $P_{1068} = (10, 0, 0, 1)$
37 : $P_{1069} = (11, 0, 0, 1)$
38 : $P_{1070} = (12, 0, 0, 1)$
39 : $P_{1071} = (13, 0, 0, 1)$
40 : $P_{1072} = (14, 0, 0, 1)$
41 : $P_{1073} = (15, 0, 0, 1)$

42 : $P_{1074} = (16, 0, 0, 1)$
43 : $P_{1075} = (17, 0, 0, 1)$
44 : $P_{1076} = (18, 0, 0, 1)$
45 : $P_{1077} = (19, 0, 0, 1)$
46 : $P_{1078} = (20, 0, 0, 1)$
47 : $P_{1079} = (21, 0, 0, 1)$
48 : $P_{1080} = (22, 0, 0, 1)$
49 : $P_{1081} = (23, 0, 0, 1)$
50 : $P_{1082} = (24, 0, 0, 1)$
51 : $P_{1083} = (25, 0, 0, 1)$
52 : $P_{1084} = (26, 0, 0, 1)$
53 : $P_{1085} = (27, 0, 0, 1)$
54 : $P_{1086} = (28, 0, 0, 1)$
55 : $P_{1087} = (29, 0, 0, 1)$
56 : $P_{1088} = (30, 0, 0, 1)$
57 : $P_{1089} = (31, 0, 0, 1)$
58 : $P_{1090} = (0, 1, 0, 1)$
59 : $P_{1091} = (1, 1, 0, 1)$
60 : $P_{1122} = (0, 2, 0, 1)$
61 : $P_{1124} = (2, 2, 0, 1)$
62 : $P_{1154} = (0, 3, 0, 1)$
63 : $P_{1157} = (3, 3, 0, 1)$
64 : $P_{1186} = (0, 4, 0, 1)$
65 : $P_{1190} = (4, 4, 0, 1)$
66 : $P_{1218} = (0, 5, 0, 1)$
67 : $P_{1223} = (5, 5, 0, 1)$
68 : $P_{1250} = (0, 6, 0, 1)$
69 : $P_{1256} = (6, 6, 0, 1)$
70 : $P_{1282} = (0, 7, 0, 1)$
71 : $P_{1289} = (7, 7, 0, 1)$
72 : $P_{1314} = (0, 8, 0, 1)$
73 : $P_{1322} = (8, 8, 0, 1)$
74 : $P_{1346} = (0, 9, 0, 1)$
75 : $P_{1355} = (9, 9, 0, 1)$
76 : $P_{1378} = (0, 10, 0, 1)$
77 : $P_{1388} = (10, 10, 0, 1)$
78 : $P_{1410} = (0, 11, 0, 1)$
79 : $P_{1421} = (11, 11, 0, 1)$
80 : $P_{1442} = (0, 12, 0, 1)$
81 : $P_{1454} = (12, 12, 0, 1)$
82 : $P_{1474} = (0, 13, 0, 1)$
83 : $P_{1487} = (13, 13, 0, 1)$
84 : $P_{1506} = (0, 14, 0, 1)$
85 : $P_{1520} = (14, 14, 0, 1)$
86 : $P_{1538} = (0, 15, 0, 1)$
87 : $P_{1553} = (15, 15, 0, 1)$
88 : $P_{1570} = (0, 16, 0, 1)$
89 : $P_{1586} = (16, 16, 0, 1)$
90 : $P_{1602} = (0, 17, 0, 1)$
91 : $P_{1619} = (17, 17, 0, 1)$
92 : $P_{1634} = (0, 18, 0, 1)$
93 : $P_{1652} = (18, 18, 0, 1)$
94 : $P_{1666} = (0, 19, 0, 1)$
95 : $P_{1685} = (19, 19, 0, 1)$
96 : $P_{1698} = (0, 20, 0, 1)$
97 : $P_{1718} = (20, 20, 0, 1)$
98 : $P_{1730} = (0, 21, 0, 1)$
99 : $P_{1751} = (21, 21, 0, 1)$
100 : $P_{1762} = (0, 22, 0, 1)$
101 : $P_{1784} = (22, 22, 0, 1)$
102 : $P_{1794} = (0, 23, 0, 1)$
103 : $P_{1817} = (23, 23, 0, 1)$
104 : $P_{1826} = (0, 24, 0, 1)$
105 : $P_{1850} = (24, 24, 0, 1)$
106 : $P_{1858} = (0, 25, 0, 1)$
107 : $P_{1883} = (25, 25, 0, 1)$
108 : $P_{1890} = (0, 26, 0, 1)$
109 : $P_{1916} = (26, 26, 0, 1)$
110 : $P_{1922} = (0, 27, 0, 1)$
111 : $P_{1949} = (27, 27, 0, 1)$
112 : $P_{1954} = (0, 28, 0, 1)$
113 : $P_{1982} = (28, 28, 0, 1)$
114 : $P_{1986} = (0, 29, 0, 1)$
115 : $P_{2015} = (29, 29, 0, 1)$
116 : $P_{2018} = (0, 30, 0, 1)$
117 : $P_{2048} = (30, 30, 0, 1)$
118 : $P_{2050} = (0, 31, 0, 1)$
119 : $P_{2081} = (31, 31, 0, 1)$
120 : $P_{2083} = (1, 0, 1, 1)$
121 : $P_{2151} = (6, 2, 1, 1)$
122 : $P_{2170} = (25, 2, 1, 1)$
123 : $P_{2215} = (6, 4, 1, 1)$
124 : $P_{2229} = (20, 4, 1, 1)$
125 : $P_{2289} = (16, 6, 1, 1)$
126 : $P_{2300} = (27, 6, 1, 1)$
127 : $P_{2519} = (22, 13, 1, 1)$
128 : $P_{2526} = (29, 13, 1, 1)$
129 : $P_{2613} = (20, 16, 1, 1)$
130 : $P_{2622} = (29, 16, 1, 1)$
131 : $P_{2723} = (2, 20, 1, 1)$
132 : $P_{2734} = (13, 20, 1, 1)$
133 : $P_{2787} = (2, 22, 1, 1)$
134 : $P_{2801} = (16, 22, 1, 1)$
135 : $P_{2885} = (4, 25, 1, 1)$
136 : $P_{2894} = (13, 25, 1, 1)$
137 : $P_{2967} = (22, 27, 1, 1)$
138 : $P_{2970} = (25, 27, 1, 1)$
139 : $P_{3013} = (4, 29, 1, 1)$
140 : $P_{3036} = (27, 29, 1, 1)$
141 : $P_{3107} = (2, 0, 2, 1)$
142 : $P_{3171} = (2, 2, 2, 1)$
143 : $P_{3245} = (12, 4, 2, 1)$
144 : $P_{3256} = (23, 4, 2, 1)$
145 : $P_{3278} = (13, 5, 2, 1)$
146 : $P_{3296} = (31, 5, 2, 1)$
147 : $P_{3373} = (12, 8, 2, 1)$
148 : $P_{3374} = (13, 8, 2, 1)$
149 : $P_{3397} = (4, 9, 2, 1)$
150 : $P_{3398} = (5, 9, 2, 1)$
151 : $P_{3494} = (5, 12, 2, 1)$
152 : $P_{3508} = (19, 12, 2, 1)$
153 : $P_{3525} = (4, 13, 2, 1)$
154 : $P_{3547} = (26, 13, 2, 1)$
155 : $P_{3722} = (9, 19, 2, 1)$
156 : $P_{3736} = (23, 19, 2, 1)$
157 : $P_{3849} = (8, 23, 2, 1)$
158 : $P_{3867} = (26, 23, 2, 1)$
159 : $P_{3946} = (9, 26, 2, 1)$
160 : $P_{3968} = (31, 26, 2, 1)$
161 : $P_{4105} = (8, 31, 2, 1)$
162 : $P_{4116} = (19, 31, 2, 1)$
163 : $P_{4132} = (3, 0, 3, 1)$
164 : $P_{4201} = (8, 2, 3, 1)$
165 : $P_{4205} = (12, 2, 3, 1)$
166 : $P_{4228} = (3, 3, 3, 1)$
167 : $P_{4331} = (10, 6, 3, 1)$
168 : $P_{4335} = (14, 6, 3, 1)$
169 : $P_{4399} = (14, 8, 3, 1)$
170 : $P_{4416} = (31, 8, 3, 1)$
171 : $P_{4457} = (8, 10, 3, 1)$
172 : $P_{4470} = (21, 10, 3, 1)$
173 : $P_{4523} = (10, 12, 3, 1)$
174 : $P_{4538} = (25, 12, 3, 1)$
175 : $P_{4589} = (12, 14, 3, 1)$
176 : $P_{4600} = (23, 14, 3, 1)$
177 : $P_{4803} = (2, 21, 3, 1)$
178 : $P_{4826} = (25, 21, 3, 1)$
179 : $P_{4867} = (2, 23, 3, 1)$
180 : $P_{4896} = (31, 23, 3, 1)$
181 : $P_{4935} = (6, 25, 3, 1)$
182 : $P_{4952} = (23, 25, 3, 1)$
183 : $P_{5127} = (6, 31, 3, 1)$
184 : $P_{5142} = (21, 31, 3, 1)$
185 : $P_{5157} = (4, 0, 4, 1)$
186 : $P_{5260} = (11, 3, 4, 1)$
187 : $P_{5267} = (18, 3, 4, 1)$
188 : $P_{5285} = (4, 4, 4, 1)$
189 : $P_{5420} = (11, 8, 4, 1)$
190 : $P_{5433} = (24, 8, 4, 1)$
191 : $P_{5499} = (26, 10, 4, 1)$
192 : $P_{5500} = (27, 10, 4, 1)$
193 : $P_{5521} = (16, 11, 4, 1)$
194 : $P_{5522} = (17, 11, 4, 1)$
195 : $P_{5689} = (24, 16, 4, 1)$
196 : $P_{5691} = (26, 16, 4, 1)$
197 : $P_{5715} = (18, 17, 4, 1)$
198 : $P_{5724} = (27, 17, 4, 1)$
199 : $P_{5737} = (8, 18, 4, 1)$
200 : $P_{5739} = (10, 18, 4, 1)$
201 : $P_{5924} = (3, 24, 4, 1)$
202 : $P_{5931} = (10, 24, 4, 1)$
203 : $P_{5993} = (8, 26, 4, 1)$

$204: P_{6002} = (17, 26, 4, 1)$
$205: P_{6020} = (3, 27, 4, 1)$
$206: P_{6033} = (16, 27, 4, 1)$
$207: P_{6182} = (5, 0, 5, 1)$
$208: P_{6315} = (10, 4, 5, 1)$
$209: P_{6331} = (26, 4, 5, 1)$
$210: P_{6342} = (5, 5, 5, 1)$
$211: P_{6389} = (20, 6, 5, 1)$
$212: P_{6393} = (24, 6, 5, 1)$
$213: P_{6515} = (18, 10, 5, 1)$
$214: P_{6527} = (30, 10, 5, 1)$
$215: P_{6635} = (10, 14, 5, 1)$
$216: P_{6653} = (28, 14, 5, 1)$
$217: P_{6773} = (20, 18, 5, 1)$
$218: P_{6781} = (28, 18, 5, 1)$
$219: P_{6831} = (14, 20, 5, 1)$
$220: P_{6847} = (30, 20, 5, 1)$
$221: P_{6949} = (4, 24, 5, 1)$
$222: P_{6963} = (18, 24, 5, 1)$
$223: P_{7015} = (6, 26, 5, 1)$
$224: P_{7023} = (14, 26, 5, 1)$
$225: P_{7077} = (4, 28, 5, 1)$
$226: P_{7079} = (6, 28, 5, 1)$
$227: P_{7161} = (24, 30, 5, 1)$
$228: P_{7163} = (26, 30, 5, 1)$
$229: P_{7207} = (6, 0, 6, 1)$
$230: P_{7345} = (16, 4, 6, 1)$
$231: P_{7353} = (24, 4, 6, 1)$
$232: P_{7399} = (6, 6, 6, 1)$
$233: P_{7557} = (4, 11, 6, 1)$
$234: P_{7580} = (27, 11, 6, 1)$
$235: P_{7605} = (20, 12, 6, 1)$
$236: P_{7613} = (28, 12, 6, 1)$
$237: P_{7685} = (4, 15, 6, 1)$
$238: P_{7704} = (23, 15, 6, 1)$
$239: P_{7740} = (27, 16, 6, 1)$
$240: P_{7741} = (28, 16, 6, 1)$
$241: P_{7856} = (15, 20, 6, 1)$
$242: P_{7857} = (16, 20, 6, 1)$
$243: P_{7948} = (11, 23, 6, 1)$
$244: P_{7949} = (12, 23, 6, 1)$
$245: P_{7989} = (20, 24, 6, 1)$
$246: P_{7992} = (23, 24, 6, 1)$
$247: P_{8077} = (12, 27, 6, 1)$
$248: P_{8080} = (15, 27, 6, 1)$
$249: P_{8108} = (11, 28, 6, 1)$
$250: P_{8121} = (24, 28, 6, 1)$
$251: P_{8232} = (7, 0, 7, 1)$
$252: P_{8327} = (6, 3, 7, 1)$
$253: P_{8335} = (14, 3, 7, 1)$
$254: P_{8391} = (6, 5, 7, 1)$
$255: P_{8413} = (28, 5, 7, 1)$
$256: P_{8430} = (13, 6, 7, 1)$
$257: P_{8442} = (25, 6, 7, 1)$
$258: P_{8456} = (7, 7, 7, 1)$
$259: P_{8582} = (5, 11, 7, 1)$
$260: P_{8590} = (13, 11, 7, 1)$
$261: P_{8655} = (14, 13, 7, 1)$
$262: P_{8672} = (31, 13, 7, 1)$
$263: P_{8678} = (5, 14, 7, 1)$
$264: P_{8691} = (18, 14, 7, 1)$
$265: P_{8812} = (11, 18, 7, 1)$
$266: P_{8832} = (31, 18, 7, 1)$
$267: P_{9036} = (11, 25, 7, 1)$
$268: P_{9053} = (28, 25, 7, 1)$
$269: P_{9124} = (3, 28, 7, 1)$
$270: P_{9139} = (18, 28, 7, 1)$
$271: P_{9220} = (3, 31, 7, 1)$
$272: P_{9242} = (25, 31, 7, 1)$
$273: P_{9257} = (8, 0, 8, 1)$
$274: P_{9297} = (16, 1, 8, 1)$
$275: P_{9301} = (20, 1, 8, 1)$
$276: P_{9426} = (17, 5, 8, 1)$
$277: P_{9430} = (21, 5, 8, 1)$
$278: P_{9442} = (1, 6, 8, 1)$
$279: P_{9463} = (22, 6, 8, 1)$
$280: P_{9474} = (1, 7, 8, 1)$
$281: P_{9492} = (19, 7, 8, 1)$
$282: P_{9513} = (8, 8, 8, 1)$
$283: P_{9782} = (21, 16, 8, 1)$
$284: P_{9783} = (22, 16, 8, 1)$
$285: P_{9800} = (7, 17, 8, 1)$
$286: P_{9809} = (16, 17, 8, 1)$
$287: P_{9862} = (5, 19, 8, 1)$
$288: P_{9863} = (6, 19, 8, 1)$
$289: P_{9906} = (17, 20, 8, 1)$
$290: P_{9908} = (19, 20, 8, 1)$
$291: P_{9927} = (6, 21, 8, 1)$
$292: P_{9941} = (20, 21, 8, 1)$
$293: P_{9958} = (5, 22, 8, 1)$
$294: P_{9960} = (7, 22, 8, 1)$
$295: P_{10282} = (9, 0, 9, 1)$
$296: P_{10310} = (5, 1, 9, 1)$
$297: P_{10324} = (19, 1, 9, 1)$
$298: P_{10406} = (5, 4, 9, 1)$
$299: P_{10415} = (14, 4, 9, 1)$
$300: P_{10443} = (10, 5, 9, 1)$
$301: P_{10451} = (18, 5, 9, 1)$
$302: P_{10570} = (9, 9, 9, 1)$
$303: P_{10607} = (14, 10, 9, 1)$
$304: P_{10616} = (23, 10, 9, 1)$
$305: P_{10722} = (1, 14, 9, 1)$
$306: P_{10750} = (29, 14, 9, 1)$
$307: P_{10754} = (1, 15, 9, 1)$
$308: P_{10763} = (10, 15, 9, 1)$
$309: P_{10864} = (15, 18, 9, 1)$
$310: P_{10868} = (19, 18, 9, 1)$
$311: P_{10885} = (4, 19, 9, 1)$
$312: P_{10910} = (29, 19, 9, 1)$
$313: P_{11013} = (4, 23, 9, 1)$
$314: P_{11027} = (18, 23, 9, 1)$
$315: P_{11216} = (15, 29, 9, 1)$
$316: P_{11224} = (23, 29, 9, 1)$
$317: P_{11307} = (10, 0, 10, 1)$
$318: P_{11342} = (13, 1, 10, 1)$
$319: P_{11358} = (29, 1, 10, 1)$
$320: P_{11570} = (17, 8, 10, 1)$
$321: P_{11573} = (20, 8, 10, 1)$
$322: P_{11627} = (10, 10, 10, 1)$
$323: P_{11694} = (13, 12, 10, 1)$
$324: P_{11702} = (21, 12, 10, 1)$
$325: P_{11738} = (25, 13, 10, 1)$
$326: P_{11741} = (28, 13, 10, 1)$
$327: P_{11853} = (12, 17, 10, 1)$
$328: P_{11869} = (28, 17, 10, 1)$
$329: P_{11938} = (1, 20, 10, 1)$
$330: P_{11962} = (25, 20, 10, 1)$
$331: P_{11970} = (1, 21, 10, 1)$
$332: P_{11977} = (8, 21, 10, 1)$
$333: P_{12114} = (17, 25, 10, 1)$
$334: P_{12118} = (21, 25, 10, 1)$
$335: P_{12213} = (20, 28, 10, 1)$
$336: P_{12222} = (29, 28, 10, 1)$
$337: P_{12233} = (8, 29, 10, 1)$
$338: P_{12237} = (12, 29, 10, 1)$
$339: P_{12332} = (11, 0, 11, 1)$
$340: P_{12361} = (8, 1, 11, 1)$
$341: P_{12370} = (17, 1, 11, 1)$
$342: P_{12593} = (16, 8, 11, 1)$
$343: P_{12599} = (22, 8, 11, 1)$
$344: P_{12617} = (8, 9, 11, 1)$
$345: P_{12640} = (31, 9, 11, 1)$
$346: P_{12684} = (11, 11, 11, 1)$
$347: P_{12793} = (24, 14, 11, 1)$
$348: P_{12799} = (30, 14, 11, 1)$
$349: P_{12850} = (17, 16, 11, 1)$
$350: P_{12863} = (30, 16, 11, 1)$
$351: P_{12874} = (9, 17, 11, 1)$
$352: P_{12879} = (14, 17, 11, 1)$
$353: P_{13049} = (24, 22, 11, 1)$
$354: P_{13056} = (31, 22, 11, 1)$
$355: P_{13098} = (9, 24, 11, 1)$
$356: P_{13105} = (16, 24, 11, 1)$
$357: P_{13282} = (1, 30, 11, 1)$
$358: P_{13303} = (22, 30, 11, 1)$
$359: P_{13314} = (1, 31, 11, 1)$
$360: P_{13327} = (14, 31, 11, 1)$
$361: P_{13357} = (12, 0, 12, 1)$
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$363: P_{13534} = (29, 5, 12, 1)$
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767 : $P_{32443} = (26, 20, 30, 1)$
768 : $P_{32482} = (1, 22, 30, 1)$
769 : $P_{32501} = (20, 22, 30, 1)$
770 : $P_{32514} = (1, 23, 30, 1)$
771 : $P_{32527} = (14, 23, 30, 1)$
772 : $P_{32567} = (22, 24, 30, 1)$
773 : $P_{32570} = (25, 24, 30, 1)$
774 : $P_{32580} = (3, 25, 30, 1)$
775 : $P_{32591} = (14, 25, 30, 1)$
776 : $P_{32612} = (3, 26, 30, 1)$
777 : $P_{32633} = (24, 26, 30, 1)$
778 : $P_{32767} = (30, 30, 30, 1)$
779 : $P_{32832} = (31, 0, 31, 1)$
780 : $P_{32847} = (14, 1, 31, 1)$
781 : $P_{32859} = (26, 1, 31, 1)$
782 : $P_{33002} = (9, 6, 31, 1)$
783 : $P_{33014} = (21, 6, 31, 1)$
784 : $P_{33058} = (1, 8, 31, 1)$
785 : $P_{33063} = (6, 8, 31, 1)$
786 : $P_{33090} = (1, 9, 31, 1)$
787 : $P_{33108} = (19, 9, 31, 1)$
788 : $P_{33255} = (6, 14, 31, 1)$
789 : $P_{33276} = (27, 14, 31, 1)$
790 : $P_{33290} = (9, 15, 31, 1)$
791 : $P_{33295} = (14, 15, 31, 1)$
792 : $P_{33417} = (8, 19, 31, 1)$
793 : $P_{33430} = (21, 19, 31, 1)$
794 : $P_{33488} = (15, 21, 31, 1)$
795 : $P_{33500} = (27, 21, 31, 1)$
796 : $P_{33648} = (15, 26, 31, 1)$
797 : $P_{33652} = (19, 26, 31, 1)$
798 : $P_{33673} = (8, 27, 31, 1)$
799 : $P_{33691} = (26, 27, 31, 1)$
800 : $P_{33824} = (31, 31, 31, 1)$