Rank-65562 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^3 + X_1^3 + X_2^3 + X_0^2X_1 + X_0X_1X_2 = 0$$

(1, 1, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is 1109428294

General information

Number of lines	22
Number of points	705
Number of singular points	1
Number of Eckardt points	0
Number of double points	0
Number of single points	704
Number of points off lines	0
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^{22}
Type of lines on points	22, 1^{704}

Singular Points

The surface has 1 singular points:

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

The 22 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{34880} = \left[\begin{array}{cccc} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{34880} = \mathbf{Pl}(0,1,0,0,1,0)_{1121}$$

$$\ell_1 = \left[\begin{array}{cccc} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082433} = \left[\begin{array}{cccc} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082433} = \mathbf{Pl}(0,1,0,1,0,0)_{97}$$

$$\ell_2 = \left[\begin{array}{cccc} 1 & \eta^{16} & \eta^{28} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{773723} = \left[\begin{array}{cccc} 1 & 27 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{773723} = \mathbf{Pl}(0,22,0,27,1,0)_{4796}$$

$$\ell_3 = \left[\begin{array}{cccc} 1 & \eta^{9} & \eta^{21} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{840314} = \left[\begin{array}{cccc} 1 & 26 & 24 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{840314} = \mathbf{Pl}(0,24,0,26,1,0)_{4735}$$

$$\ell_4 = \left[\begin{array}{cccc} 1 & \eta^{4} & \eta^{16} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{931216} = \left[\begin{array}{cccc} 1 & 16 & 27 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{931216} = \mathbf{Pl}(0,27,0,16,1,0)_{4108}$$

$$\ell_5 = \left[\begin{array}{cccc} 1 & \eta & \eta^{29} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{307586} = \left[\begin{array}{cccc} 1 & 2 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{307586} = \mathbf{Pl}(0,9,0,2,1,0)_{3208}$$

$$\ell_6 = \left[\begin{array}{cccc} 1 & \eta^{2} & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{377348} = \left[\begin{array}{cccc} 1 & 4 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{377348} = \mathbf{Pl}(0,11,0,4,1,0)_{3336}$$

$$\ell_7 = \left[\begin{array}{cccc} 1 & \eta^{4} & \eta^{23} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{525328} = \left[\begin{array}{cccc} 1 & 16 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{525328} = \mathbf{Pl}(0,15,0,16,1,0)_{4096}$$

$$\ell_8 = \left[\begin{array}{cccc} 1 & \eta^{16} & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{638427} = \left[\begin{array}{cccc} 1 & 27 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{638427} = \mathbf{Pl}(0,18,0,27,1,0)_{4792}$$

$$\ell_9 = \left[\begin{array}{cccc} 1 & \eta & \eta^{25} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{848770} = \left[\begin{array}{cccc} 1 & 2 & 25 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{848770} = \mathbf{Pl}(0,25,0,2,1,0)_{3224}$$

$$\ell_{10} = \left[\begin{array}{cccc} 1 & \eta^{18} & \eta^{11} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{240995} = \left[\begin{array}{cccc} 1 & 3 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{240995} = \mathbf{Pl}(0,7,0,3,1,0)_{3269}$$

$$\ell_{11} = \left[\begin{array}{cccc} 1 & \eta^{8} & \eta & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{82445} = \left[\begin{array}{cccc} 1 & 13 & 2 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{82445} = \mathbf{Pl}(0,2,0,13,1,0)_{3894}$$

$$\ell_{12} = \left[\begin{array}{cccc} 1 & \eta^{10} & \eta^{13} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{966097} = \left[\begin{array}{cccc} 1 & 17 & 28 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{966097} = \mathbf{Pl}(0,28,0,17,1,0)_{4172}$$

$$\ell_{13} = \left[\begin{array}{cccc} 1 & \eta & \eta^{4} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{544354} = \left[\begin{array}{cccc} 1 & 2 & 16 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{544354} = \mathbf{Pl}(0,16,0,2,1,0)_{3215}$$

$$\ell_{14} = \left[\begin{array}{cccc} 1 & \eta^{4} & \eta^{7} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{694448} = \left[\begin{array}{cccc} 1 & 16 & 20 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{694448} = \mathbf{Pl}(0,20,0,16,1,0)_{4101}$$

$$\ell_{15} = \left[\begin{array}{cccc} 1 & \eta^{20} & \eta^{26} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{791692} = \left[\begin{array}{cccc} 1 & 12 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{791692} = \mathbf{Pl}(0,23,0,12,1,0)_{3852}$$

$$\ell_{16} = \left[\begin{array}{cccc} 1 & \eta^{2} & \eta^{8} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{444996} = \left[\begin{array}{cccc} 1 & 4 & 13 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{444996} = \mathbf{Pl}(0,13,0,4,1,0)_{3338}$$

$$\ell_{17} = \left[\begin{array}{cccc} 1 & \eta^{8} & \eta^{14} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{995693} = \left[\begin{array}{cccc} 1 & 13 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{995693} = \mathbf{Pl}(0,29,0,13,1,0)_{3921}$$

$$\ell_{18} = \left[\begin{array}{cccc} 1 & \eta^{16} & \eta^{2} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{164891} = \left[\begin{array}{cccc} 1 & 27 & 4 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{164891} = \mathbf{Pl}(0,4,0,27,1,0)_{4778}$$

$$\ell_{19} = \left[\begin{array}{cccc} 1 & \eta^{2} & \eta^{19} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{208228} = \left[\begin{array}{cccc} 1 & 4 & 6 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{208228} = \mathbf{Pl}(0,6,0,4,1,0)_{3331}$$

$$\ell_{20} = \left[\begin{array}{cccc} 1 & \eta^{5} & \eta^{22} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{716645} = \left[\begin{array}{cccc} 1 & 5 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{716645} = \mathbf{Pl}(0,21,0,5,1,0)_{3409}$$

$$\ell_{21} = \left[\begin{array}{cccc} 1 & \eta^{8} & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1063341} = \left[\begin{array}{cccc} 1 & 13 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1063341} = \mathbf{Pl}(0,31,0,13,1,0)_{3923}$$

Rank of lines: (34880, 1082433, 773723, 840314, 931216, 307586, 377348, 525328, 638427, 848770, 240995, 82445, 966097, 544354, 694448, 791692, 444996, 995693, 164891, 208228, 716645, 1063341)
Rank of points on Klein quadric: (1121, 97, 4796, 4735, 4108, 3208, 3336, 4096, 4792, 3224, 3269, 3894, 4172, 3215, 4101, 3852, 3338, 3921, 4778, 3331, 3409, 3923)

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 704 single points:
The single points on the surface are:

0 : $P_{36} = (1,0,1,0)$ lies on line ℓ_0
1 : $P_{67} = (0,1,1,0)$ lies on line ℓ_1
2 : $P_{235} = (8,6,1,0)$ lies on line ℓ_2
3 : $P_{244} = (17,6,1,0)$ lies on line ℓ_3
4 : $P_{258} = (31,6,1,0)$ lies on line ℓ_4
5 : $P_{295} = (4,8,1,0)$ lies on line ℓ_5
6 : $P_{371} = (16,10,1,0)$ lies on line ℓ_6
7 : $P_{496} = (13,14,1,0)$ lies on line ℓ_7
8 : $P_{645} = (2,19,1,0)$ lies on line ℓ_8
9 : $P_{685} = (10,20,1,0)$ lies on line ℓ_9
10 : $P_{687} = (12,20,1,0)$ lies on line ℓ_{10}
11 : $P_{693} = (18,20,1,0)$ lies on line ℓ_{11}
12 : $P_{742} = (3,22,1,0)$ lies on line ℓ_{12}
13 : $P_{750} = (11,22,1,0)$ lies on line ℓ_{13}
14 : $P_{769} = (30,22,1,0)$ lies on line ℓ_{14}
15 : $P_{840} = (5,25,1,0)$ lies on line ℓ_{15}
16 : $P_{850} = (15,25,1,0)$ lies on line ℓ_{16}
17 : $P_{854} = (19,25,1,0)$ lies on line ℓ_{17}
18 : $P_{972} = (9,29,1,0)$ lies on line ℓ_{18}
19 : $P_{977} = (14,29,1,0)$ lies on line ℓ_{19}
20 : $P_{989} = (26,29,1,0)$ lies on line ℓ_{20}
21 : $P_{1022} = (27,30,1,0)$ lies on line ℓ_{21}
22 : $P_{2083} = (1,0,1,1)$ lies on line ℓ_0
23 : $P_{2114} = (0,1,1,1)$ lies on line ℓ_1
24 : $P_{2281} = (8,6,1,1)$ lies on line ℓ_2
25 : $P_{2290} = (17,6,1,1)$ lies on line ℓ_3
26 : $P_{2304} = (31,6,1,1)$ lies on line ℓ_4
27 : $P_{2341} = (4,8,1,1)$ lies on line ℓ_5
28 : $P_{2417} = (16,10,1,1)$ lies on line ℓ_6
29 : $P_{2542} = (13,14,1,1)$ lies on line ℓ_7
30 : $P_{2691} = (2,19,1,1)$ lies on line ℓ_8
31 : $P_{2731} = (10,20,1,1)$ lies on line ℓ_9
32 : $P_{2733} = (12,20,1,1)$ lies on line ℓ_{10}
33 : $P_{2739} = (18,20,1,1)$ lies on line ℓ_{11}
34 : $P_{2788} = (3,22,1,1)$ lies on line ℓ_{12}
35 : $P_{2796} = (11,22,1,1)$ lies on line ℓ_{13}
36 : $P_{2815} = (30,22,1,1)$ lies on line ℓ_{14}
37 : $P_{2886} = (5,25,1,1)$ lies on line ℓ_{15}
38 : $P_{2896} = (15,25,1,1)$ lies on line ℓ_{16}
39 : $P_{2900} = (19,25,1,1)$ lies on line ℓ_{17}
40 : $P_{3018} = (9,29,1,1)$ lies on line ℓ_{18}
41 : $P_{3023} = (14,29,1,1)$ lies on line ℓ_{19}
42 : $P_{3035} = (26,29,1,1)$ lies on line ℓ_{20}
43 : $P_{3068} = (27,30,1,1)$ lies on line ℓ_{21}
44 : $P_{3107} = (2,0,2,1)$ lies on line ℓ_0
45 : $P_{3169} = (0,2,2,1)$ lies on line ℓ_1
46 : $P_{3205} = (4,3,2,1)$ lies on line ℓ_8
47 : $P_{3399} = (6,9,2,1)$ lies on line ℓ_{12}
48 : $P_{3415} = (22,9,2,1)$ lies on line ℓ_{13}
49 : $P_{3418} = (25,9,2,1)$ lies on line ℓ_{14}
50 : $P_{3496} = (7,12,2,1)$ lies on line ℓ_3
51 : $P_{3505} = (16,12,2,1)$ lies on line ℓ_2
52 : $P_{3516} = (27,12,2,1)$ lies on line ℓ_4
53 : $P_{3522} = (1,13,2,1)$ lies on line ℓ_{11}
54 : $P_{3541} = (20,13,2,1)$ lies on line ℓ_9
55 : $P_{3545} = (24,13,2,1)$ lies on line ℓ_{10}
56 : $P_{3625} = (8,16,2,1)$ lies on line ℓ_5
57 : $P_{3750} = (5,20,2,1)$ lies on line ℓ_6
58 : $P_{3844} = (3,23,2,1)$ lies on line ℓ_{17}
59 : $P_{3851} = (10,23,2,1)$ lies on line ℓ_{15}
60 : $P_{3871} = (30,23,2,1)$ lies on line ℓ_{16}
61 : $P_{3924} = (19,25,2,1)$ lies on line ℓ_{21}

62 : $P_{4027} = (26, 28, 2, 1)$ lies on line ℓ_7
63 : $P_{4114} = (17, 31, 2, 1)$ lies on line ℓ_{20}
64 : $P_{4115} = (18, 31, 2, 1)$ lies on line ℓ_{18}
65 : $P_{4125} = (28, 31, 2, 1)$ lies on line ℓ_{19}
66 : $P_{4132} = (3, 0, 3, 1)$ lies on line ℓ_0
67 : $P_{4204} = (11, 2, 3, 1)$ lies on line ℓ_{20}
68 : $P_{4211} = (18, 2, 3, 1)$ lies on line ℓ_{19}
69 : $P_{4220} = (27, 2, 3, 1)$ lies on line ℓ_{18}
70 : $P_{4225} = (0, 3, 3, 1)$ lies on line ℓ_1
71 : $P_{4361} = (8, 7, 3, 1)$ lies on line ℓ_{21}
72 : $P_{4453} = (4, 10, 3, 1)$ lies on line ℓ_4
73 : $P_{4471} = (22, 10, 3, 1)$ lies on line ℓ_3
74 : $P_{4473} = (24, 10, 3, 1)$ lies on line ℓ_2
75 : $P_{4592} = (15, 14, 3, 1)$ lies on line ℓ_{15}
76 : $P_{4593} = (16, 14, 3, 1)$ lies on line ℓ_{17}
77 : $P_{4594} = (17, 14, 3, 1)$ lies on line ℓ_{16}
78 : $P_{4647} = (6, 16, 3, 1)$ lies on line ℓ_8
79 : $P_{4728} = (23, 18, 3, 1)$ lies on line ℓ_7
80 : $P_{4909} = (12, 24, 3, 1)$ lies on line ℓ_5
81 : $P_{4948} = (19, 25, 3, 1)$ lies on line ℓ_{11}
82 : $P_{4949} = (20, 25, 3, 1)$ lies on line ℓ_{10}
83 : $P_{4959} = (30, 25, 3, 1)$ lies on line ℓ_9
84 : $P_{5110} = (21, 30, 3, 1)$ lies on line ℓ_6
85 : $P_{5126} = (5, 31, 3, 1)$ lies on line ℓ_{12}
86 : $P_{5128} = (7, 31, 3, 1)$ lies on line ℓ_{14}
87 : $P_{5150} = (29, 31, 3, 1)$ lies on line ℓ_{13}
88 : $P_{5157} = (4, 0, 4, 1)$ lies on line ℓ_0
89 : $P_{5281} = (0, 4, 4, 1)$ lies on line ℓ_1
90 : $P_{5329} = (16, 5, 4, 1)$ lies on line ℓ_5
91 : $P_{5353} = (8, 6, 4, 1)$ lies on line ℓ_8
92 : $P_{5511} = (6, 11, 4, 1)$ lies on line ℓ_{17}
93 : $P_{5525} = (20, 11, 4, 1)$ lies on line ℓ_{15}
94 : $P_{5530} = (25, 11, 4, 1)$ lies on line ℓ_{16}
95 : $P_{5579} = (10, 13, 4, 1)$ lies on line ℓ_6
96 : $P_{5738} = (9, 18, 4, 1)$ lies on line ℓ_{13}
97 : $P_{5741} = (12, 18, 4, 1)$ lies on line ℓ_{12}
98 : $P_{5752} = (23, 18, 4, 1)$ lies on line ℓ_{14}
99 : $P_{5892} = (3, 23, 4, 1)$ lies on line ℓ_{21}
100 : $P_{5926} = (5, 24, 4, 1)$ lies on line ℓ_2
101 : $P_{5935} = (14, 24, 4, 1)$ lies on line ℓ_3
102 : $P_{5940} = (19, 24, 4, 1)$ lies on line ℓ_4
103 : $P_{5987} = (2, 26, 4, 1)$ lies on line ℓ_{11}
104 : $P_{5998} = (13, 26, 4, 1)$ lies on line ℓ_9
105 : $P_{6006} = (21, 26, 4, 1)$ lies on line ℓ_{10}
106 : $P_{6018} = (1, 27, 4, 1)$ lies on line ℓ_{18}
107 : $P_{6024} = (7, 27, 4, 1)$ lies on line ℓ_{20}
108 : $P_{6046} = (29, 27, 4, 1)$ lies on line ℓ_{19}
109 : $P_{6098} = (17, 29, 4, 1)$ lies on line ℓ_7
110 : $P_{6182} = (5, 0, 5, 1)$ lies on line ℓ_0
111 : $P_{6307} = (2, 4, 5, 1)$ lies on line ℓ_{13}
112 : $P_{6314} = (9, 4, 5, 1)$ lies on line ℓ_{14}
113 : $P_{6320} = (15, 4, 5, 1)$ lies on line ℓ_{12}
114 : $P_{6337} = (0, 5, 5, 1)$ lies on line ℓ_1
115 : $P_{6377} = (8, 6, 5, 1)$ lies on line ℓ_{18}
116 : $P_{6388} = (19, 6, 5, 1)$ lies on line ℓ_{19}
117 : $P_{6398} = (29, 6, 5, 1)$ lies on line ℓ_{20}
118 : $P_{6427} = (26, 7, 5, 1)$ lies on line ℓ_6
119 : $P_{6489} = (24, 9, 5, 1)$ lies on line ℓ_{21}
120 : $P_{6613} = (20, 13, 5, 1)$ lies on line ℓ_5
121 : $P_{6632} = (7, 14, 5, 1)$ lies on line ℓ_9
122 : $P_{6641} = (16, 14, 5, 1)$ lies on line ℓ_{11}
123 : $P_{6650} = (25, 14, 5, 1)$ lies on line ℓ_{10}
124 : $P_{6770} = (17, 18, 5, 1)$ lies on line ℓ_{15}
125 : $P_{6774} = (21, 18, 5, 1)$ lies on line ℓ_{17}
126 : $P_{6775} = (22, 18, 5, 1)$ lies on line ℓ_{16}
127 : $P_{6813} = (28, 19, 5, 1)$ lies on line ℓ_7
128 : $P_{6859} = (10, 21, 5, 1)$ lies on line ℓ_8
129 : $P_{7149} = (12, 30, 5, 1)$ lies on line ℓ_4
130 : $P_{7150} = (13, 30, 5, 1)$ lies on line ℓ_2
131 : $P_{7168} = (31, 30, 5, 1)$ lies on line ℓ_3
132 : $P_{7207} = (6, 0, 6, 1)$ lies on line ℓ_0
133 : $P_{7244} = (11, 1, 6, 1)$ lies on line ℓ_7
134 : $P_{7330} = (1, 4, 6, 1)$ lies on line ℓ_{19}
135 : $P_{7348} = (19, 4, 6, 1)$ lies on line ℓ_{18}
136 : $P_{7351} = (22, 4, 6, 1)$ lies on line ℓ_{20}
137 : $P_{7373} = (12, 5, 6, 1)$ lies on line ℓ_8
138 : $P_{7393} = (0, 6, 6, 1)$ lies on line ℓ_1
139 : $P_{7665} = (16, 14, 6, 1)$ lies on line ℓ_{21}
140 : $P_{7849} = (8, 20, 6, 1)$ lies on line ℓ_4
141 : $P_{7850} = (9, 20, 6, 1)$ lies on line ℓ_3
142 : $P_{7862} = (21, 20, 6, 1)$ lies on line ℓ_2
143 : $P_{7897} = (24, 21, 6, 1)$ lies on line ℓ_5
144 : $P_{7940} = (3, 23, 6, 1)$ lies on line ℓ_{11}
145 : $P_{7950} = (13, 23, 6, 1)$ lies on line ℓ_{10}
146 : $P_{7962} = (25, 23, 6, 1)$ lies on line ℓ_9
147 : $P_{8016} = (15, 25, 6, 1)$ lies on line ℓ_6
148 : $P_{8075} = (10, 27, 6, 1)$ lies on line ℓ_{12}
149 : $P_{8079} = (14, 27, 6, 1)$ lies on line ℓ_{14}
150 : $P_{8096} = (31, 27, 6, 1)$ lies on line ℓ_{13}
151 : $P_{8102} = (5, 28, 6, 1)$ lies on line ℓ_{17}
152 : $P_{8104} = (7, 28, 6, 1)$ lies on line ℓ_{16}
153 : $P_{8127} = (30, 28, 6, 1)$ lies on line ℓ_{15}
154 : $P_{8232} = (7, 0, 7, 1)$ lies on line ℓ_0
155 : $P_{8322} = (1, 3, 7, 1)$ lies on line ℓ_{10}
156 : $P_{8338} = (17, 3, 7, 1)$ lies on line ℓ_{11}
157 : $P_{8340} = (19, 3, 7, 1)$ lies on line ℓ_9
158 : $P_{8393} = (8, 5, 7, 1)$ lies on line ℓ_{16}
159 : $P_{8407} = (22, 5, 7, 1)$ lies on line ℓ_{17}
160 : $P_{8412} = (27, 5, 7, 1)$ lies on line ℓ_{15}
161 : $P_{8449} = (0, 7, 7, 1)$ lies on line ℓ_1
162 : $P_{8650} = (9, 13, 7, 1)$ lies on line ℓ_{12}
163 : $P_{8657} = (16, 13, 7, 1)$ lies on line ℓ_{14}
164 : $P_{8661} = (20, 13, 7, 1)$ lies on line ℓ_{13}
165 : $P_{8711} = (6, 15, 7, 1)$ lies on line ℓ_7
166 : $P_{8748} = (11, 16, 7, 1)$ lies on line ℓ_{21}
167 : $P_{8824} = (23, 18, 7, 1)$ lies on line ℓ_4
168 : $P_{8825} = (24, 18, 7, 1)$ lies on line ℓ_3
169 : $P_{8830} = (29, 18, 7, 1)$ lies on line ℓ_2

170 : $P_{8864} = (31, 19, 7, 1)$ lies on line ℓ_6
171 : $P_{8943} = (14, 22, 7, 1)$ lies on line ℓ_8
172 : $P_{9037} = (12, 25, 7, 1)$ lies on line ℓ_{20}
173 : $P_{9040} = (15, 25, 7, 1)$ lies on line ℓ_{19}
174 : $P_{9051} = (26, 25, 7, 1)$ lies on line ℓ_{18}
175 : $P_{9181} = (28, 29, 7, 1)$ lies on line ℓ_5
176 : $P_{9257} = (8, 0, 8, 1)$ lies on line ℓ_0
177 : $P_{9292} = (11, 1, 8, 1)$ lies on line ℓ_{14}
178 : $P_{9299} = (18, 1, 8, 1)$ lies on line ℓ_{13}
179 : $P_{9305} = (24, 1, 8, 1)$ lies on line ℓ_{12}
180 : $P_{9505} = (0, 8, 8, 1)$ lies on line ℓ_1
181 : $P_{9574} = (5, 10, 8, 1)$ lies on line ℓ_5
182 : $P_{9607} = (6, 11, 8, 1)$ lies on line ℓ_{21}
183 : $P_{9649} = (16, 12, 8, 1)$ lies on line ℓ_8
184 : $P_{9797} = (4, 17, 8, 1)$ lies on line ℓ_{11}
185 : $P_{9808} = (15, 17, 8, 1)$ lies on line ℓ_{10}
186 : $P_{9819} = (26, 17, 8, 1)$ lies on line ℓ_9
187 : $P_{9859} = (2, 19, 8, 1)$ lies on line ℓ_{18}
188 : $P_{9871} = (14, 19, 8, 1)$ lies on line ℓ_{20}
189 : $P_{9888} = (31, 19, 8, 1)$ lies on line ℓ_{19}
190 : $P_{9924} = (3, 21, 8, 1)$ lies on line ℓ_4
191 : $P_{9931} = (10, 21, 8, 1)$ lies on line ℓ_2
192 : $P_{9949} = (28, 21, 8, 1)$ lies on line ℓ_3
193 : $P_{9965} = (12, 22, 8, 1)$ lies on line ℓ_{17}
194 : $P_{9966} = (13, 22, 8, 1)$ lies on line ℓ_{15}
195 : $P_{9976} = (23, 22, 8, 1)$ lies on line ℓ_{16}
196 : $P_{10101} = (20, 26, 8, 1)$ lies on line ℓ_6
197 : $P_{10248} = (7, 31, 8, 1)$ lies on line ℓ_7
198 : $P_{10282} = (9, 0, 9, 1)$ lies on line ℓ_0
199 : $P_{10338} = (1, 2, 9, 1)$ lies on line ℓ_5
200 : $P_{10436} = (3, 5, 9, 1)$ lies on line ℓ_{10}
201 : $P_{10449} = (16, 5, 9, 1)$ lies on line ℓ_9
202 : $P_{10455} = (22, 5, 9, 1)$ lies on line ℓ_{11}
203 : $P_{10561} = (0, 9, 9, 1)$ lies on line ℓ_1
204 : $P_{10732} = (11, 14, 9, 1)$ lies on line ℓ_{18}
205 : $P_{10738} = (17, 14, 9, 1)$ lies on line ℓ_{19}
206 : $P_{10741} = (20, 14, 9, 1)$ lies on line ℓ_{20}
207 : $P_{10761} = (8, 15, 9, 1)$ lies on line ℓ_{15}
208 : $P_{10777} = (24, 15, 9, 1)$ lies on line ℓ_{16}
209 : $P_{10784} = (31, 15, 9, 1)$ lies on line ℓ_{17}
210 : $P_{10789} = (4, 16, 9, 1)$ lies on line ℓ_6
211 : $P_{10827} = (10, 17, 9, 1)$ lies on line ℓ_7
212 : $P_{10883} = (2, 19, 9, 1)$ lies on line ℓ_2
213 : $P_{10894} = (13, 19, 9, 1)$ lies on line ℓ_3
214 : $P_{10909} = (28, 19, 9, 1)$ lies on line ℓ_4
215 : $P_{10974} = (29, 21, 9, 1)$ lies on line ℓ_{21}
216 : $P_{11030} = (21, 23, 9, 1)$ lies on line ℓ_{14}
217 : $P_{11034} = (25, 23, 9, 1)$ lies on line ℓ_{13}
218 : $P_{11036} = (27, 23, 9, 1)$ lies on line ℓ_{12}
219 : $P_{11283} = (18, 31, 9, 1)$ lies on line ℓ_8
220 : $P_{11307} = (10, 0, 10, 1)$ lies on line ℓ_0
221 : $P_{11336} = (7, 1, 10, 1)$ lies on line ℓ_{15}
222 : $P_{11338} = (9, 1, 10, 1)$ lies on line ℓ_{16}
223 : $P_{11344} = (15, 1, 10, 1)$ lies on line ℓ_{17}
224 : $P_{11422} = (29, 3, 10, 1)$ lies on line ℓ_7
225 : $P_{11557} = (4, 8, 10, 1)$ lies on line ℓ_{13}
226 : $P_{11571} = (18, 8, 10, 1)$ lies on line ℓ_{14}
227 : $P_{11583} = (30, 8, 10, 1)$ lies on line ℓ_{12}
228 : $P_{11617} = (0, 10, 10, 1)$ lies on line ℓ_1
229 : $P_{11684} = (3, 12, 10, 1)$ lies on line ℓ_{19}
230 : $P_{11697} = (16, 12, 10, 1)$ lies on line ℓ_{18}
231 : $P_{11712} = (31, 12, 10, 1)$ lies on line ℓ_{20}
232 : $P_{11762} = (17, 14, 10, 1)$ lies on line ℓ_6
233 : $P_{11797} = (20, 15, 10, 1)$ lies on line ℓ_8
234 : $P_{11894} = (21, 18, 10, 1)$ lies on line ℓ_{21}
235 : $P_{12121} = (24, 25, 10, 1)$ lies on line ℓ_4
236 : $P_{12123} = (26, 25, 10, 1)$ lies on line ℓ_2
237 : $P_{12124} = (27, 25, 10, 1)$ lies on line ℓ_3
238 : $P_{12142} = (13, 26, 10, 1)$ lies on line ℓ_5
239 : $P_{12198} = (5, 28, 10, 1)$ lies on line ℓ_{11}
240 : $P_{12207} = (14, 28, 10, 1)$ lies on line ℓ_9
241 : $P_{12216} = (23, 28, 10, 1)$ lies on line ℓ_{10}
242 : $P_{12332} = (11, 0, 11, 1)$ lies on line ℓ_0
243 : $P_{12450} = (1, 4, 11, 1)$ lies on line ℓ_6
244 : $P_{12581} = (4, 8, 11, 1)$ lies on line ℓ_9
245 : $P_{12600} = (23, 8, 11, 1)$ lies on line ℓ_{11}
246 : $P_{12604} = (27, 8, 11, 1)$ lies on line ℓ_{10}
247 : $P_{12673} = (0, 11, 11, 1)$ lies on line ℓ_1
248 : $P_{12719} = (14, 12, 11, 1)$ lies on line ℓ_{21}
249 : $P_{12753} = (16, 13, 11, 1)$ lies on line ℓ_7
250 : $P_{12870} = (5, 17, 11, 1)$ lies on line ℓ_{20}
251 : $P_{12878} = (13, 17, 11, 1)$ lies on line ℓ_{19}
252 : $P_{12890} = (25, 17, 11, 1)$ lies on line ℓ_{18}
253 : $P_{12906} = (9, 18, 11, 1)$ lies on line ℓ_5
254 : $P_{13091} = (2, 24, 11, 1)$ lies on line ℓ_{15}
255 : $P_{13095} = (6, 24, 11, 1)$ lies on line ℓ_{16}
256 : $P_{13117} = (28, 24, 11, 1)$ lies on line ℓ_{17}
257 : $P_{13239} = (22, 28, 11, 1)$ lies on line ℓ_8
258 : $P_{13293} = (12, 30, 11, 1)$ lies on line ℓ_{14}
259 : $P_{13296} = (15, 30, 11, 1)$ lies on line ℓ_{13}
260 : $P_{13310} = (29, 30, 11, 1)$ lies on line ℓ_{12}
261 : $P_{13320} = (7, 31, 11, 1)$ lies on line ℓ_4
262 : $P_{13323} = (10, 31, 11, 1)$ lies on line ℓ_3
263 : $P_{13331} = (18, 31, 11, 1)$ lies on line ℓ_2
264 : $P_{13357} = (12, 0, 12, 1)$ lies on line ℓ_0
265 : $P_{13431} = (22, 2, 12, 1)$ lies on line ℓ_7
266 : $P_{13603} = (2, 8, 12, 1)$ lies on line ℓ_{19}
267 : $P_{13604} = (3, 8, 12, 1)$ lies on line ℓ_{18}
268 : $P_{13610} = (9, 8, 12, 1)$ lies on line ℓ_{20}
269 : $P_{13689} = (24, 10, 12, 1)$ lies on line ℓ_8
270 : $P_{13703} = (6, 11, 12, 1)$ lies on line ℓ_{11}
271 : $P_{13720} = (23, 11, 12, 1)$ lies on line ℓ_9
272 : $P_{13723} = (26, 11, 12, 1)$ lies on line ℓ_{10}
273 : $P_{13729} = (0, 12, 12, 1)$ lies on line ℓ_1
274 : $P_{13776} = (15, 13, 12, 1)$ lies on line ℓ_2
275 : $P_{13777} = (16, 13, 12, 1)$ lies on line ℓ_4
276 : $P_{13779} = (18, 13, 12, 1)$ lies on line ℓ_3
277 : $P_{13846} = (21, 15, 12, 1)$ lies on line ℓ_5

278 : $P_{13973} = (20, 19, 12, 1)$ lies on line ℓ_{12}
279 : $P_{13980} = (27, 19, 12, 1)$ lies on line ℓ_{13}
280 : $P_{13981} = (28, 19, 12, 1)$ lies on line ℓ_{14}
281 : $P_{14111} = (30, 23, 12, 1)$ lies on line ℓ_{6}
282 : $P_{14246} = (5, 28, 12, 1)$ lies on line ℓ_{21}
283 : $P_{14283} = (10, 29, 12, 1)$ lies on line ℓ_{17}
284 : $P_{14287} = (14, 29, 12, 1)$ lies on line ℓ_{16}
285 : $P_{14298} = (25, 29, 12, 1)$ lies on line ℓ_{15}
286 : $P_{14382} = (13, 0, 13, 1)$ lies on line ℓ_{0}
287 : $P_{14463} = (30, 2, 13, 1)$ lies on line ℓ_{21}
288 : $P_{14498} = (1, 4, 13, 1)$ lies on line ℓ_{16}
289 : $P_{14522} = (25, 4, 13, 1)$ lies on line ℓ_{17}
290 : $P_{14525} = (28, 4, 13, 1)$ lies on line ℓ_{15}
291 : $P_{14531} = (2, 5, 13, 1)$ lies on line ℓ_{14}
292 : $P_{14545} = (16, 5, 13, 1)$ lies on line ℓ_{13}
293 : $P_{14552} = (23, 5, 13, 1)$ lies on line ℓ_{12}
294 : $P_{14610} = (17, 7, 13, 1)$ lies on line ℓ_{5}
295 : $P_{14724} = (3, 11, 13, 1)$ lies on line ℓ_{3}
296 : $P_{14728} = (7, 11, 13, 1)$ lies on line ℓ_{2}
297 : $P_{14736} = (15, 11, 13, 1)$ lies on line ℓ_{4}
298 : $P_{14780} = (27, 12, 13, 1)$ lies on line ℓ_{7}
299 : $P_{14785} = (0, 13, 13, 1)$ lies on line ℓ_{1}
300 : $P_{15051} = (10, 21, 13, 1)$ lies on line ℓ_{18}
301 : $P_{15053} = (12, 21, 13, 1)$ lies on line ℓ_{19}
302 : $P_{15060} = (19, 21, 13, 1)$ lies on line ℓ_{20}
303 : $P_{15195} = (26, 25, 13, 1)$ lies on line ℓ_{8}
304 : $P_{15311} = (14, 29, 13, 1)$ lies on line ℓ_{6}
305 : $P_{15381} = (20, 31, 13, 1)$ lies on line ℓ_{11}
306 : $P_{15383} = (22, 31, 13, 1)$ lies on line ℓ_{10}
307 : $P_{15390} = (29, 31, 13, 1)$ lies on line ℓ_{9}
308 : $P_{15407} = (14, 0, 14, 1)$ lies on line ℓ_{0}
309 : $P_{15436} = (11, 1, 14, 1)$ lies on line ℓ_{4}
310 : $P_{15446} = (21, 1, 14, 1)$ lies on line ℓ_{3}
311 : $P_{15456} = (31, 1, 14, 1)$ lies on line ℓ_{2}
312 : $P_{15516} = (27, 3, 14, 1)$ lies on line ℓ_{6}
313 : $P_{15575} = (22, 5, 14, 1)$ lies on line ℓ_{21}
314 : $P_{15587} = (2, 6, 14, 1)$ lies on line ℓ_{10}
315 : $P_{15588} = (3, 6, 14, 1)$ lies on line ℓ_{9}
316 : $P_{15592} = (7, 6, 14, 1)$ lies on line ℓ_{11}
317 : $P_{15709} = (28, 9, 14, 1)$ lies on line ℓ_{8}
318 : $P_{15722} = (9, 10, 14, 1)$ lies on line ℓ_{17}
319 : $P_{15729} = (16, 10, 14, 1)$ lies on line ℓ_{16}
320 : $P_{15732} = (19, 10, 14, 1)$ lies on line ℓ_{15}
321 : $P_{15841} = (0, 14, 14, 1)$ lies on line ℓ_{1}
322 : $P_{16146} = (17, 23, 14, 1)$ lies on line ℓ_{18}
323 : $P_{16153} = (24, 23, 14, 1)$ lies on line ℓ_{20}
324 : $P_{16159} = (30, 23, 14, 1)$ lies on line ℓ_{19}
325 : $P_{16230} = (5, 26, 14, 1)$ lies on line ℓ_{14}
326 : $P_{16238} = (13, 26, 14, 1)$ lies on line ℓ_{13}
327 : $P_{16243} = (18, 26, 14, 1)$ lies on line ℓ_{12}
328 : $P_{16365} = (12, 30, 14, 1)$ lies on line ℓ_{7}
329 : $P_{16414} = (29, 31, 14, 1)$ lies on line ℓ_{5}
330 : $P_{16432} = (15, 0, 15, 1)$ lies on line ℓ_{0}
331 : $P_{16645} = (4, 7, 15, 1)$ lies on line ℓ_{3}
332 : $P_{16661} = (20, 7, 15, 1)$ lies on line ℓ_{4}
333 : $P_{16664} = (23, 7, 15, 1)$ lies on line ℓ_{2}
334 : $P_{16716} = (11, 9, 15, 1)$ lies on line ℓ_{6}
335 : $P_{16739} = (2, 10, 15, 1)$ lies on line ℓ_{20}
336 : $P_{16753} = (16, 10, 15, 1)$ lies on line ℓ_{19}
337 : $P_{16761} = (24, 10, 15, 1)$ lies on line ℓ_{18}
338 : $P_{16807} = (6, 12, 15, 1)$ lies on line ℓ_{13}
339 : $P_{16818} = (17, 12, 15, 1)$ lies on line ℓ_{12}
340 : $P_{16828} = (27, 12, 15, 1)$ lies on line ℓ_{14}
341 : $P_{16897} = (0, 15, 15, 1)$ lies on line ℓ_{1}
342 : $P_{16930} = (1, 16, 15, 1)$ lies on line ℓ_{7}
343 : $P_{17002} = (9, 18, 15, 1)$ lies on line ℓ_{9}
344 : $P_{17007} = (14, 18, 15, 1)$ lies on line ℓ_{10}
345 : $P_{17014} = (21, 18, 15, 1)$ lies on line ℓ_{11}
346 : $P_{17047} = (22, 19, 15, 1)$ lies on line ℓ_{15}
347 : $P_{17051} = (26, 19, 15, 1)$ lies on line ℓ_{17}
348 : $P_{17056} = (31, 19, 15, 1)$ lies on line ℓ_{16}
349 : $P_{17178} = (25, 23, 15, 1)$ lies on line ℓ_{5}
350 : $P_{17279} = (30, 26, 15, 1)$ lies on line ℓ_{8}
351 : $P_{17294} = (13, 27, 15, 1)$ lies on line ℓ_{21}
352 : $P_{17457} = (16, 0, 16, 1)$ lies on line ℓ_{0}
353 : $P_{17506} = (1, 2, 16, 1)$ lies on line ℓ_{13}
354 : $P_{17526} = (21, 2, 16, 1)$ lies on line ℓ_{12}
355 : $P_{17527} = (22, 2, 16, 1)$ lies on line ℓ_{14}
356 : $P_{17541} = (4, 3, 16, 1)$ lies on line ℓ_{18}
357 : $P_{17564} = (27, 3, 16, 1)$ lies on line ℓ_{19}
358 : $P_{17565} = (28, 3, 16, 1)$ lies on line ℓ_{20}
359 : $P_{17673} = (8, 7, 16, 1)$ lies on line ℓ_{11}
360 : $P_{17682} = (17, 7, 16, 1)$ lies on line ℓ_{9}
361 : $P_{17695} = (30, 7, 16, 1)$ lies on line ℓ_{10}
362 : $P_{17740} = (11, 9, 16, 1)$ lies on line ℓ_{16}
363 : $P_{17753} = (24, 9, 16, 1)$ lies on line ℓ_{17}
364 : $P_{17755} = (26, 9, 16, 1)$ lies on line ℓ_{15}
365 : $P_{17927} = (6, 15, 16, 1)$ lies on line ℓ_{4}
366 : $P_{17941} = (20, 15, 16, 1)$ lies on line ℓ_{2}
367 : $P_{17950} = (29, 15, 16, 1)$ lies on line ℓ_{3}
368 : $P_{17953} = (0, 16, 16, 1)$ lies on line ℓ_{1}
369 : $P_{17998} = (13, 17, 16, 1)$ lies on line ℓ_{6}
370 : $P_{18091} = (10, 20, 16, 1)$ lies on line ℓ_{5}
371 : $P_{18157} = (12, 22, 16, 1)$ lies on line ℓ_{21}
372 : $P_{18214} = (5, 24, 16, 1)$ lies on line ℓ_{8}
373 : $P_{18319} = (14, 27, 16, 1)$ lies on line ℓ_{7}
374 : $P_{18482} = (17, 0, 17, 1)$ lies on line ℓ_{0}
375 : $P_{18744} = (23, 8, 17, 1)$ lies on line ℓ_{21}
376 : $P_{18765} = (12, 9, 17, 1)$ lies on line ℓ_{3}
377 : $P_{18778} = (25, 9, 17, 1)$ lies on line ℓ_{4}
378 : $P_{18781} = (28, 9, 17, 1)$ lies on line ℓ_{2}
379 : $P_{18824} = (7, 11, 17, 1)$ lies on line ℓ_{8}
380 : $P_{18981} = (4, 16, 17, 1)$ lies on line ℓ_{16}
381 : $P_{18988} = (11, 16, 17, 1)$ lies on line ℓ_{17}
382 : $P_{19008} = (31, 16, 17, 1)$ lies on line ℓ_{15}
383 : $P_{19009} = (0, 17, 17, 1)$ lies on line ℓ_{1}
384 : $P_{19091} = (18, 19, 17, 1)$ lies on line ℓ_{10}
385 : $P_{19099} = (26, 19, 17, 1)$ lies on line ℓ_{11}

386 : $P_{19100} = (27, 19, 17, 1)$ lies on line ℓ_9
387 : $P_{19113} = (8, 20, 17, 1)$ lies on line ℓ_{14}
388 : $P_{19115} = (10, 20, 17, 1)$ lies on line ℓ_{13}
389 : $P_{19127} = (22, 20, 17, 1)$ lies on line ℓ_{12}
390 : $P_{19140} = (3, 21, 17, 1)$ lies on line ℓ_7
391 : $P_{19358} = (29, 27, 17, 1)$ lies on line ℓ_6
392 : $P_{19375} = (14, 28, 17, 1)$ lies on line ℓ_5
393 : $P_{19431} = (6, 30, 17, 1)$ lies on line ℓ_{20}
394 : $P_{19438} = (13, 30, 17, 1)$ lies on line ℓ_{18}
395 : $P_{19446} = (21, 30, 17, 1)$ lies on line ℓ_{19}
396 : $P_{19507} = (18, 0, 18, 1)$ lies on line ℓ_0
397 : $P_{19589} = (4, 3, 18, 1)$ lies on line ℓ_2
398 : $P_{19611} = (26, 3, 18, 1)$ lies on line ℓ_3
399 : $P_{19614} = (29, 3, 18, 1)$ lies on line ℓ_4
400 : $P_{19619} = (2, 4, 18, 1)$ lies on line ℓ_5
401 : $P_{19657} = (8, 5, 18, 1)$ lies on line ℓ_6
402 : $P_{19733} = (20, 7, 18, 1)$ lies on line ℓ_7
403 : $P_{19814} = (5, 10, 18, 1)$ lies on line ℓ_9
404 : $P_{19815} = (6, 10, 18, 1)$ lies on line ℓ_{10}
405 : $P_{19818} = (9, 10, 18, 1)$ lies on line ℓ_{11}
406 : $P_{19856} = (15, 11, 18, 1)$ lies on line ℓ_{14}
407 : $P_{19860} = (19, 11, 18, 1)$ lies on line ℓ_{12}
408 : $P_{19864} = (23, 11, 18, 1)$ lies on line ℓ_{13}
409 : $P_{20000} = (31, 15, 18, 1)$ lies on line ℓ_{21}
410 : $P_{20065} = (0, 18, 18, 1)$ lies on line ℓ_1
411 : $P_{20354} = (1, 27, 18, 1)$ lies on line ℓ_8
412 : $P_{20392} = (7, 28, 18, 1)$ lies on line ℓ_{19}
413 : $P_{20398} = (13, 28, 18, 1)$ lies on line ℓ_{20}
414 : $P_{20407} = (22, 28, 18, 1)$ lies on line ℓ_{18}
415 : $P_{20465} = (16, 30, 18, 1)$ lies on line ℓ_{15}
416 : $P_{20470} = (21, 30, 18, 1)$ lies on line ℓ_{16}
417 : $P_{20476} = (27, 30, 18, 1)$ lies on line ℓ_{17}
418 : $P_{20532} = (19, 0, 19, 1)$ lies on line ℓ_0
419 : $P_{20554} = (9, 1, 19, 1)$ lies on line ℓ_{19}
420 : $P_{20568} = (23, 1, 19, 1)$ lies on line ℓ_{20}
421 : $P_{20576} = (31, 1, 19, 1)$ lies on line ℓ_{18}
422 : $P_{20675} = (2, 5, 19, 1)$ lies on line ℓ_4
423 : $P_{20684} = (11, 5, 19, 1)$ lies on line ℓ_3
424 : $P_{20685} = (12, 5, 19, 1)$ lies on line ℓ_2
425 : $P_{20745} = (8, 7, 19, 1)$ lies on line ℓ_{17}
426 : $P_{20758} = (21, 7, 19, 1)$ lies on line ℓ_{15}
427 : $P_{20763} = (26, 7, 19, 1)$ lies on line ℓ_{16}
428 : $P_{20772} = (3, 8, 19, 1)$ lies on line ℓ_8
429 : $P_{20826} = (25, 9, 19, 1)$ lies on line ℓ_7
430 : $P_{20903} = (6, 12, 19, 1)$ lies on line ℓ_5
431 : $P_{21017} = (24, 15, 19, 1)$ lies on line ℓ_6
432 : $P_{21061} = (4, 17, 19, 1)$ lies on line ℓ_{21}
433 : $P_{21121} = (0, 19, 19, 1)$ lies on line ℓ_1
434 : $P_{21457} = (16, 29, 19, 1)$ lies on line ℓ_{12}
435 : $P_{21458} = (17, 29, 19, 1)$ lies on line ℓ_{14}
436 : $P_{21469} = (28, 29, 19, 1)$ lies on line ℓ_{13}
437 : $P_{21483} = (10, 30, 19, 1)$ lies on line ℓ_{10}
438 : $P_{21488} = (15, 30, 19, 1)$ lies on line ℓ_9
439 : $P_{21500} = (27, 30, 19, 1)$ lies on line ℓ_{11}
440 : $P_{21557} = (20, 0, 20, 1)$ lies on line ℓ_0
441 : $P_{21584} = (15, 1, 20, 1)$ lies on line ℓ_{21}
442 : $P_{21615} = (14, 2, 20, 1)$ lies on line ℓ_{15}
443 : $P_{21619} = (18, 2, 20, 1)$ lies on line ℓ_{16}
444 : $P_{21631} = (30, 2, 20, 1)$ lies on line ℓ_{17}
445 : $P_{21760} = (31, 6, 20, 1)$ lies on line ℓ_7
446 : $P_{22050} = (1, 16, 20, 1)$ lies on line ℓ_{14}
447 : $P_{22057} = (8, 16, 20, 1)$ lies on line ℓ_{13}
448 : $P_{22074} = (25, 16, 20, 1)$ lies on line ℓ_{12}
449 : $P_{22107} = (26, 17, 20, 1)$ lies on line ℓ_5
450 : $P_{22177} = (0, 20, 20, 1)$ lies on line ℓ_1
451 : $P_{22290} = (17, 23, 20, 1)$ lies on line ℓ_2
452 : $P_{22292} = (19, 23, 20, 1)$ lies on line ℓ_3
453 : $P_{22294} = (21, 23, 20, 1)$ lies on line ℓ_4
454 : $P_{22310} = (5, 24, 20, 1)$ lies on line ℓ_{18}
455 : $P_{22311} = (6, 24, 20, 1)$ lies on line ℓ_{19}
456 : $P_{22332} = (27, 24, 20, 1)$ lies on line ℓ_{20}
457 : $P_{22440} = (7, 28, 20, 1)$ lies on line ℓ_6
458 : $P_{22475} = (10, 29, 20, 1)$ lies on line ℓ_{11}
459 : $P_{22476} = (11, 29, 20, 1)$ lies on line ℓ_{10}
460 : $P_{22493} = (28, 29, 20, 1)$ lies on line ℓ_9
461 : $P_{22510} = (13, 30, 20, 1)$ lies on line ℓ_8
462 : $P_{22582} = (21, 0, 21, 1)$ lies on line ℓ_0
463 : $P_{22722} = (1, 5, 21, 1)$ lies on line ℓ_{20}
464 : $P_{22729} = (8, 5, 21, 1)$ lies on line ℓ_{19}
465 : $P_{22733} = (12, 5, 21, 1)$ lies on line ℓ_{18}
466 : $P_{22756} = (3, 6, 21, 1)$ lies on line ℓ_{13}
467 : $P_{22779} = (26, 6, 21, 1)$ lies on line ℓ_{12}
468 : $P_{22784} = (31, 6, 21, 1)$ lies on line ℓ_{14}
469 : $P_{22835} = (18, 8, 21, 1)$ lies on line ℓ_7
470 : $P_{22856} = (7, 9, 21, 1)$ lies on line ℓ_{10}
471 : $P_{22871} = (22, 9, 21, 1)$ lies on line ℓ_9
472 : $P_{22873} = (24, 9, 21, 1)$ lies on line ℓ_{11}
473 : $P_{22992} = (15, 13, 21, 1)$ lies on line ℓ_8
474 : $P_{23107} = (2, 17, 21, 1)$ lies on line ℓ_3
475 : $P_{23115} = (10, 17, 21, 1)$ lies on line ℓ_4
476 : $P_{23130} = (25, 17, 21, 1)$ lies on line ℓ_2
477 : $P_{23233} = (0, 21, 21, 1)$ lies on line ℓ_1
478 : $P_{23288} = (23, 22, 21, 1)$ lies on line ℓ_6
479 : $P_{23391} = (30, 25, 21, 1)$ lies on line ℓ_5
480 : $P_{23436} = (11, 27, 21, 1)$ lies on line ℓ_{15}
481 : $P_{23438} = (13, 27, 21, 1)$ lies on line ℓ_{17}
482 : $P_{23454} = (29, 27, 21, 1)$ lies on line ℓ_{16}
483 : $P_{23573} = (20, 31, 21, 1)$ lies on line ℓ_{21}
484 : $P_{23607} = (22, 0, 22, 1)$ lies on line ℓ_0
485 : $P_{23635} = (18, 1, 22, 1)$ lies on line ℓ_5
486 : $P_{23819} = (10, 7, 22, 1)$ lies on line ℓ_{20}
487 : $P_{23832} = (23, 7, 22, 1)$ lies on line ℓ_{18}
488 : $P_{23835} = (26, 7, 22, 1)$ lies on line ℓ_{19}
489 : $P_{23843} = (2, 8, 22, 1)$ lies on line ℓ_6
490 : $P_{24105} = (8, 16, 22, 1)$ lies on line ℓ_9
491 : $P_{24108} = (11, 16, 22, 1)$ lies on line ℓ_{11}
492 : $P_{24116} = (19, 16, 22, 1)$ lies on line ℓ_{10}
493 : $P_{24261} = (4, 21, 22, 1)$ lies on line ℓ_{15}

494 : $P_{24269} = (12, 21, 22, 1)$ lies on line ℓ_{16}
495 : $P_{24286} = (29, 21, 22, 1)$ lies on line ℓ_{17}
496 : $P_{24289} = (0, 22, 22, 1)$ lies on line ℓ_{1}
497 : $P_{24381} = (28, 24, 22, 1)$ lies on line ℓ_{21}
498 : $P_{24409} = (24, 25, 22, 1)$ lies on line ℓ_{14}
499 : $P_{24415} = (30, 25, 22, 1)$ lies on line ℓ_{13}
500 : $P_{24416} = (31, 25, 22, 1)$ lies on line ℓ_{12}
501 : $P_{24422} = (5, 26, 22, 1)$ lies on line ℓ_{7}
502 : $P_{24450} = (1, 27, 22, 1)$ lies on line ℓ_{2}
503 : $P_{24463} = (14, 27, 22, 1)$ lies on line ℓ_{4}
504 : $P_{24469} = (20, 27, 22, 1)$ lies on line ℓ_{3}
505 : $P_{24522} = (9, 29, 22, 1)$ lies on line ℓ_{8}
506 : $P_{24632} = (23, 0, 23, 1)$ lies on line ℓ_{0}
507 : $P_{24691} = (18, 2, 23, 1)$ lies on line ℓ_{6}
508 : $P_{24739} = (2, 4, 23, 1)$ lies on line ℓ_{9}
509 : $P_{24762} = (25, 4, 23, 1)$ lies on line ℓ_{11}
510 : $P_{24768} = (31, 4, 23, 1)$ lies on line ℓ_{10}
511 : $P_{24808} = (7, 6, 23, 1)$ lies on line ℓ_{21}
512 : $P_{24919} = (22, 9, 23, 1)$ lies on line ℓ_{5}
513 : $P_{24994} = (1, 12, 23, 1)$ lies on line ℓ_{15}
514 : $P_{24996} = (3, 12, 23, 1)$ lies on line ℓ_{16}
515 : $P_{25007} = (14, 12, 23, 1)$ lies on line ℓ_{17}
516 : $P_{25068} = (11, 14, 23, 1)$ lies on line ℓ_{8}
517 : $P_{25095} = (6, 15, 23, 1)$ lies on line ℓ_{14}
518 : $P_{25110} = (21, 15, 23, 1)$ lies on line ℓ_{13}
519 : $P_{25117} = (28, 15, 23, 1)$ lies on line ℓ_{12}
520 : $P_{25257} = (8, 20, 23, 1)$ lies on line ℓ_{7}
521 : $P_{25345} = (0, 23, 23, 1)$ lies on line ℓ_{1}
522 : $P_{25457} = (16, 26, 23, 1)$ lies on line ℓ_{20}
523 : $P_{25461} = (20, 26, 23, 1)$ lies on line ℓ_{19}
524 : $P_{25471} = (30, 26, 23, 1)$ lies on line ℓ_{18}
525 : $P_{25542} = (5, 29, 23, 1)$ lies on line ℓ_{3}
526 : $P_{25546} = (9, 29, 23, 1)$ lies on line ℓ_{2}
527 : $P_{25554} = (17, 29, 23, 1)$ lies on line ℓ_{4}
528 : $P_{25657} = (24, 0, 24, 1)$ lies on line ℓ_{0}
529 : $P_{25742} = (13, 3, 24, 1)$ lies on line ℓ_{12}
530 : $P_{25748} = (19, 3, 24, 1)$ lies on line ℓ_{13}
531 : $P_{25758} = (29, 3, 24, 1)$ lies on line ℓ_{14}
532 : $P_{25770} = (9, 4, 24, 1)$ lies on line ℓ_{7}
533 : $P_{26010} = (25, 11, 24, 1)$ lies on line ℓ_{6}
534 : $P_{26149} = (4, 16, 24, 1)$ lies on line ℓ_{19}
535 : $P_{26151} = (6, 16, 24, 1)$ lies on line ℓ_{18}
536 : $P_{26163} = (18, 16, 24, 1)$ lies on line ℓ_{20}
537 : $P_{26294} = (21, 20, 24, 1)$ lies on line ℓ_{8}
538 : $P_{26348} = (11, 22, 24, 1)$ lies on line ℓ_{9}
539 : $P_{26349} = (12, 22, 24, 1)$ lies on line ℓ_{11}
540 : $P_{26354} = (17, 22, 24, 1)$ lies on line ℓ_{10}
541 : $P_{26401} = (0, 24, 24, 1)$ lies on line ℓ_{1}
542 : $P_{26466} = (1, 26, 24, 1)$ lies on line ℓ_{3}
543 : $P_{26470} = (5, 26, 24, 1)$ lies on line ℓ_{4}
544 : $P_{26495} = (30, 26, 24, 1)$ lies on line ℓ_{2}
545 : $P_{26571} = (10, 29, 24, 1)$ lies on line ℓ_{21}
546 : $P_{26608} = (15, 30, 24, 1)$ lies on line ℓ_{5}
547 : $P_{26645} = (20, 31, 24, 1)$ lies on line ℓ_{17}
548 : $P_{26648} = (23, 31, 24, 1)$ lies on line ℓ_{15}
549 : $P_{26653} = (28, 31, 24, 1)$ lies on line ℓ_{16}
550 : $P_{26682} = (25, 0, 25, 1)$ lies on line ℓ_{0}
551 : $P_{26698} = (9, 1, 25, 1)$ lies on line ℓ_{6}
552 : $P_{26722} = (1, 2, 25, 1)$ lies on line ℓ_{9}
553 : $P_{26750} = (29, 2, 25, 1)$ lies on line ℓ_{10}
554 : $P_{26751} = (30, 2, 25, 1)$ lies on line ℓ_{11}
555 : $P_{26770} = (17, 3, 25, 1)$ lies on line ℓ_{21}
556 : $P_{26856} = (7, 6, 25, 1)$ lies on line ℓ_{17}
557 : $P_{26867} = (18, 6, 25, 1)$ lies on line ℓ_{15}
558 : $P_{26868} = (19, 6, 25, 1)$ lies on line ℓ_{16}
559 : $P_{26904} = (23, 7, 25, 1)$ lies on line ℓ_{8}
560 : $P_{26981} = (4, 10, 25, 1)$ lies on line ℓ_{7}
561 : $P_{27081} = (8, 13, 25, 1)$ lies on line ℓ_{20}
562 : $P_{27083} = (10, 13, 25, 1)$ lies on line ℓ_{19}
563 : $P_{27088} = (15, 13, 25, 1)$ lies on line ℓ_{18}
564 : $P_{27332} = (3, 21, 25, 1)$ lies on line ℓ_{14}
565 : $P_{27343} = (14, 21, 25, 1)$ lies on line ℓ_{12}
566 : $P_{27353} = (24, 21, 25, 1)$ lies on line ℓ_{13}
567 : $P_{27372} = (11, 22, 25, 1)$ lies on line ℓ_{5}
568 : $P_{27457} = (0, 25, 25, 1)$ lies on line ℓ_{1}
569 : $P_{27569} = (16, 28, 25, 1)$ lies on line ℓ_{3}
570 : $P_{27575} = (22, 28, 25, 1)$ lies on line ℓ_{2}
571 : $P_{27579} = (26, 28, 25, 1)$ lies on line ℓ_{4}
572 : $P_{27707} = (26, 0, 26, 1)$ lies on line ℓ_{0}
573 : $P_{27834} = (25, 4, 26, 1)$ lies on line ℓ_{21}
574 : $P_{27939} = (2, 8, 26, 1)$ lies on line ℓ_{16}
575 : $P_{27960} = (23, 8, 26, 1)$ lies on line ℓ_{17}
576 : $P_{27966} = (29, 8, 26, 1)$ lies on line ℓ_{15}
577 : $P_{28005} = (4, 10, 26, 1)$ lies on line ℓ_{14}
578 : $P_{28006} = (5, 10, 26, 1)$ lies on line ℓ_{13}
579 : $P_{28012} = (11, 10, 26, 1)$ lies on line ℓ_{12}
580 : $P_{28136} = (7, 14, 26, 1)$ lies on line ℓ_{5}
581 : $P_{28164} = (3, 15, 26, 1)$ lies on line ℓ_{20}
582 : $P_{28181} = (20, 15, 26, 1)$ lies on line ℓ_{18}
583 : $P_{28185} = (24, 15, 26, 1)$ lies on line ℓ_{19}
584 : $P_{28391} = (6, 22, 26, 1)$ lies on line ℓ_{3}
585 : $P_{28399} = (14, 22, 26, 1)$ lies on line ℓ_{2}
586 : $P_{28415} = (30, 22, 26, 1)$ lies on line ℓ_{4}
587 : $P_{28434} = (17, 23, 26, 1)$ lies on line ℓ_{8}
588 : $P_{28468} = (19, 24, 26, 1)$ lies on line ℓ_{7}
589 : $P_{28513} = (0, 26, 26, 1)$ lies on line ℓ_{1}
590 : $P_{28554} = (9, 27, 26, 1)$ lies on line ℓ_{10}
591 : $P_{28558} = (13, 27, 26, 1)$ lies on line ℓ_{11}
592 : $P_{28576} = (31, 27, 26, 1)$ lies on line ℓ_{9}
593 : $P_{28701} = (28, 31, 26, 1)$ lies on line ℓ_{6}
594 : $P_{28732} = (27, 0, 27, 1)$ lies on line ℓ_{0}
595 : $P_{28852} = (19, 4, 27, 1)$ lies on line ℓ_{8}
596 : $P_{28900} = (3, 6, 27, 1)$ lies on line ℓ_{5}
597 : $P_{29190} = (5, 15, 27, 1)$ lies on line ℓ_{10}
598 : $P_{29206} = (21, 15, 27, 1)$ lies on line ℓ_{9}
599 : $P_{29216} = (31, 15, 27, 1)$ lies on line ℓ_{11}
600 : $P_{29218} = (1, 16, 27, 1)$ lies on line ℓ_{4}
601 : $P_{29223} = (6, 16, 27, 1)$ lies on line ℓ_{2}

602 : $P_{29240} = (23, 16, 27, 1)$ lies on line ℓ_3
603 : $P_{29253} = (4, 17, 27, 1)$ lies on line ℓ_{17}
604 : $P_{29262} = (13, 17, 27, 1)$ lies on line ℓ_{16}
605 : $P_{29273} = (24, 17, 27, 1)$ lies on line ℓ_{15}
606 : $P_{29303} = (22, 18, 27, 1)$ lies on line ℓ_{19}
607 : $P_{29306} = (25, 18, 27, 1)$ lies on line ℓ_{20}
608 : $P_{29310} = (29, 18, 27, 1)$ lies on line ℓ_{18}
609 : $P_{29389} = (12, 21, 27, 1)$ lies on line ℓ_6
610 : $P_{29439} = (30, 22, 27, 1)$ lies on line ℓ_7
611 : $P_{29539} = (2, 26, 27, 1)$ lies on line ℓ_{21}
612 : $P_{29569} = (0, 27, 27, 1)$ lies on line ℓ_1
613 : $P_{29609} = (8, 28, 27, 1)$ lies on line ℓ_{12}
614 : $P_{29615} = (14, 28, 27, 1)$ lies on line ℓ_{13}
615 : $P_{29627} = (26, 28, 27, 1)$ lies on line ℓ_{14}
616 : $P_{29757} = (28, 0, 28, 1)$ lies on line ℓ_0
617 : $P_{29808} = (15, 2, 28, 1)$ lies on line ℓ_3
618 : $P_{29815} = (22, 2, 28, 1)$ lies on line ℓ_4
619 : $P_{29820} = (27, 2, 28, 1)$ lies on line ℓ_2
620 : $P_{29940} = (19, 6, 28, 1)$ lies on line ℓ_6
621 : $P_{30058} = (9, 10, 28, 1)$ lies on line ℓ_{21}
622 : $P_{30088} = (7, 11, 28, 1)$ lies on line ℓ_{18}
623 : $P_{30102} = (21, 11, 28, 1)$ lies on line ℓ_{20}
624 : $P_{30106} = (25, 11, 28, 1)$ lies on line ℓ_{19}
625 : $P_{30117} = (4, 12, 28, 1)$ lies on line ℓ_{10}
626 : $P_{30119} = (6, 12, 28, 1)$ lies on line ℓ_9
627 : $P_{30127} = (14, 12, 28, 1)$ lies on line ℓ_{11}
628 : $P_{30274} = (1, 17, 28, 1)$ lies on line ℓ_{12}
629 : $P_{30283} = (10, 17, 28, 1)$ lies on line ℓ_{14}
630 : $P_{30299} = (26, 17, 28, 1)$ lies on line ℓ_{13}
631 : $P_{30334} = (29, 18, 28, 1)$ lies on line ℓ_8
632 : $P_{30372} = (3, 20, 28, 1)$ lies on line ℓ_{15}
633 : $P_{30374} = (5, 20, 28, 1)$ lies on line ℓ_{16}
634 : $P_{30387} = (18, 20, 28, 1)$ lies on line ℓ_{17}
635 : $P_{30553} = (24, 25, 28, 1)$ lies on line ℓ_7
636 : $P_{30624} = (31, 27, 28, 1)$ lies on line ℓ_5
637 : $P_{30625} = (0, 28, 28, 1)$ lies on line ℓ_1
638 : $P_{30782} = (29, 0, 29, 1)$ lies on line ℓ_0
639 : $P_{30816} = (31, 1, 29, 1)$ lies on line ℓ_8
640 : $P_{30890} = (9, 4, 29, 1)$ lies on line ℓ_4
641 : $P_{30900} = (19, 4, 29, 1)$ lies on line ℓ_2
642 : $P_{30911} = (30, 4, 29, 1)$ lies on line ℓ_3
643 : $P_{30979} = (2, 7, 29, 1)$ lies on line ℓ_{12}
644 : $P_{30994} = (17, 7, 29, 1)$ lies on line ℓ_{13}
645 : $P_{30997} = (20, 7, 29, 1)$ lies on line ℓ_{14}
646 : $P_{31140} = (3, 12, 29, 1)$ lies on line ℓ_6
647 : $P_{31170} = (1, 13, 29, 1)$ lies on line ℓ_{17}
648 : $P_{31175} = (6, 13, 29, 1)$ lies on line ℓ_{15}
649 : $P_{31179} = (10, 13, 29, 1)$ lies on line ℓ_{16}
650 : $P_{31388} = (27, 19, 29, 1)$ lies on line ℓ_5
651 : $P_{31411} = (18, 20, 29, 1)$ lies on line ℓ_{21}
652 : $P_{31471} = (14, 22, 29, 1)$ lies on line ℓ_{18}
653 : $P_{31472} = (15, 22, 29, 1)$ lies on line ℓ_{20}
654 : $P_{31480} = (23, 22, 29, 1)$ lies on line ℓ_{19}
655 : $P_{31510} = (21, 23, 29, 1)$ lies on line ℓ_7
656 : $P_{31529} = (8, 24, 29, 1)$ lies on line ℓ_{10}
657 : $P_{31533} = (12, 24, 29, 1)$ lies on line ℓ_9
658 : $P_{31549} = (28, 24, 29, 1)$ lies on line ℓ_{11}
659 : $P_{31681} = (0, 29, 29, 1)$ lies on line ℓ_1
660 : $P_{31807} = (30, 0, 30, 1)$ lies on line ℓ_0
661 : $P_{31824} = (15, 1, 30, 1)$ lies on line ℓ_{11}
662 : $P_{31827} = (18, 1, 30, 1)$ lies on line ℓ_9
663 : $P_{31837} = (28, 1, 30, 1)$ lies on line ℓ_{10}
664 : $P_{31882} = (9, 3, 30, 1)$ lies on line ℓ_{15}
665 : $P_{31890} = (17, 3, 30, 1)$ lies on line ℓ_{17}
666 : $P_{31900} = (27, 3, 30, 1)$ lies on line ℓ_{16}
667 : $P_{31939} = (2, 5, 30, 1)$ lies on line ℓ_7
668 : $P_{32152} = (23, 11, 30, 1)$ lies on line ℓ_5
669 : $P_{32233} = (8, 14, 30, 1)$ lies on line ℓ_3
670 : $P_{32236} = (11, 14, 30, 1)$ lies on line ℓ_2
671 : $P_{32238} = (13, 14, 30, 1)$ lies on line ℓ_4
672 : $P_{32346} = (25, 17, 30, 1)$ lies on line ℓ_8
673 : $P_{32375} = (22, 18, 30, 1)$ lies on line ℓ_6
674 : $P_{32411} = (26, 19, 30, 1)$ lies on line ℓ_{21}
675 : $P_{32421} = (4, 20, 30, 1)$ lies on line ℓ_{20}
676 : $P_{32422} = (5, 20, 30, 1)$ lies on line ℓ_{19}
677 : $P_{32438} = (21, 20, 30, 1)$ lies on line ℓ_{18}
678 : $P_{32552} = (7, 24, 30, 1)$ lies on line ℓ_{12}
679 : $P_{32557} = (12, 24, 30, 1)$ lies on line ℓ_{13}
680 : $P_{32564} = (19, 24, 30, 1)$ lies on line ℓ_{14}
681 : $P_{32737} = (0, 30, 30, 1)$ lies on line ℓ_1
682 : $P_{32832} = (31, 0, 31, 1)$ lies on line ℓ_0
683 : $P_{32892} = (27, 2, 31, 1)$ lies on line ℓ_8
684 : $P_{32916} = (19, 3, 31, 1)$ lies on line ℓ_5
685 : $P_{33060} = (3, 8, 31, 1)$ lies on line ℓ_2
686 : $P_{33075} = (18, 8, 31, 1)$ lies on line ℓ_4
687 : $P_{33082} = (25, 8, 31, 1)$ lies on line ℓ_3
688 : $P_{33100} = (11, 9, 31, 1)$ lies on line ℓ_{19}
689 : $P_{33117} = (28, 9, 31, 1)$ lies on line ℓ_{18}
690 : $P_{33119} = (30, 9, 31, 1)$ lies on line ℓ_{20}
691 : $P_{33168} = (15, 11, 31, 1)$ lies on line ℓ_7
692 : $P_{33218} = (1, 13, 31, 1)$ lies on line ℓ_{21}
693 : $P_{33253} = (4, 14, 31, 1)$ lies on line ℓ_{12}
694 : $P_{33256} = (7, 14, 31, 1)$ lies on line ℓ_{13}
695 : $P_{33262} = (13, 14, 31, 1)$ lies on line ℓ_{14}
696 : $P_{33489} = (16, 21, 31, 1)$ lies on line ℓ_{10}
697 : $P_{33497} = (24, 21, 31, 1)$ lies on line ℓ_9
698 : $P_{33502} = (29, 21, 31, 1)$ lies on line ℓ_{11}
699 : $P_{33575} = (6, 24, 31, 1)$ lies on line ℓ_6
700 : $P_{33635} = (2, 26, 31, 1)$ lies on line ℓ_{17}
701 : $P_{33645} = (12, 26, 31, 1)$ lies on line ℓ_{15}
702 : $P_{33653} = (20, 26, 31, 1)$ lies on line ℓ_{16}
703 : $P_{33793} = (0, 31, 31, 1)$ lies on line ℓ_1

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
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	0	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
3	1	1	1	0	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
5	1	1	1	1	1	0	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
7	1	1	1	1	1	1	1	0	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
9	1	1	1	1	1	1	1	1	1	0	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
11	1	1	1	1	1	1	1	1	1	1	1	0	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
13	1	1	1	1	1	1	1	1	1	1	1	1	1	0	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
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	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
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	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
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	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
21	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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

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}
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

The surface has 705 points:
The points on the surface are:

0 : $P_3 = (0, 0, 0, 1)$
1 : $P_{36} = (1, 0, 1, 0)$
2 : $P_{67} = (0, 1, 1, 0)$
3 : $P_{235} = (8, 6, 1, 0)$
4 : $P_{244} = (17, 6, 1, 0)$
5 : $P_{258} = (31, 6, 1, 0)$
6 : $P_{295} = (4, 8, 1, 0)$
7 : $P_{371} = (16, 10, 1, 0)$
8 : $P_{496} = (13, 14, 1, 0)$
9 : $P_{645} = (2, 19, 1, 0)$
10 : $P_{685} = (10, 20, 1, 0)$
11 : $P_{687} = (12, 20, 1, 0)$
12 : $P_{693} = (18, 20, 1, 0)$
13 : $P_{742} = (3, 22, 1, 0)$
14 : $P_{750} = (11, 22, 1, 0)$
15 : $P_{769} = (30, 22, 1, 0)$
16 : $P_{840} = (5, 25, 1, 0)$
17 : $P_{850} = (15, 25, 1, 0)$
18 : $P_{854} = (19, 25, 1, 0)$
19 : $P_{972} = (9, 29, 1, 0)$
20 : $P_{977} = (14, 29, 1, 0)$
21 : $P_{989} = (26, 29, 1, 0)$
22 : $P_{1022} = (27, 30, 1, 0)$
23 : $P_{2083} = (1, 0, 1, 1)$
24 : $P_{2114} = (0, 1, 1, 1)$
25 : $P_{2281} = (8, 6, 1, 1)$
26 : $P_{2290} = (17, 6, 1, 1)$
27 : $P_{2304} = (31, 6, 1, 1)$
28 : $P_{2341} = (4, 8, 1, 1)$
29 : $P_{2417} = (16, 10, 1, 1)$
30 : $P_{2542} = (13, 14, 1, 1)$
31 : $P_{2691} = (2, 19, 1, 1)$
32 : $P_{2731} = (10, 20, 1, 1)$
33 : $P_{2733} = (12, 20, 1, 1)$
34 : $P_{2739} = (18, 20, 1, 1)$
35 : $P_{2788} = (3, 22, 1, 1)$
36 : $P_{2796} = (11, 22, 1, 1)$
37 : $P_{2815} = (30, 22, 1, 1)$
38 : $P_{2886} = (5, 25, 1, 1)$
39 : $P_{2896} = (15, 25, 1, 1)$
40 : $P_{2900} = (19, 25, 1, 1)$
41 : $P_{3018} = (9, 29, 1, 1)$
42 : $P_{3023} = (14, 29, 1, 1)$
43 : $P_{3035} = (26, 29, 1, 1)$
44 : $P_{3068} = (27, 30, 1, 1)$
45 : $P_{3107} = (2, 0, 2, 1)$
46 : $P_{3169} = (0, 2, 2, 1)$
47 : $P_{3205} = (4, 3, 2, 1)$
48 : $P_{3399} = (6, 9, 2, 1)$
49 : $P_{3415} = (22, 9, 2, 1)$
50 : $P_{3418} = (25, 9, 2, 1)$
51 : $P_{3496} = (7, 12, 2, 1)$
52 : $P_{3505} = (16, 12, 2, 1)$
53 : $P_{3516} = (27, 12, 2, 1)$
54 : $P_{3522} = (1, 13, 2, 1)$
55 : $P_{3541} = (20, 13, 2, 1)$
56 : $P_{3545} = (24, 13, 2, 1)$
57 : $P_{3625} = (8, 16, 2, 1)$
58 : $P_{3750} = (5, 20, 2, 1)$
59 : $P_{3844} = (3, 23, 2, 1)$
60 : $P_{3851} = (10, 23, 2, 1)$
61 : $P_{3871} = (30, 23, 2, 1)$
62 : $P_{3924} = (19, 25, 2, 1)$
63 : $P_{4027} = (26, 28, 2, 1)$
64 : $P_{4114} = (17, 31, 2, 1)$
65 : $P_{4115} = (18, 31, 2, 1)$
66 : $P_{4125} = (28, 31, 2, 1)$
67 : $P_{4132} = (3, 0, 3, 1)$
68 : $P_{4204} = (11, 2, 3, 1)$
69 : $P_{4211} = (18, 2, 3, 1)$
70 : $P_{4220} = (27, 2, 3, 1)$
71 : $P_{4225} = (0, 3, 3, 1)$
72 : $P_{4361} = (8, 7, 3, 1)$
73 : $P_{4453} = (4, 10, 3, 1)$
74 : $P_{4471} = (22, 10, 3, 1)$
75 : $P_{4473} = (24, 10, 3, 1)$
76 : $P_{4592} = (15, 14, 3, 1)$
77 : $P_{4593} = (16, 14, 3, 1)$
78 : $P_{4594} = (17, 14, 3, 1)$
79 : $P_{4647} = (6, 16, 3, 1)$
80 : $P_{4728} = (23, 18, 3, 1)$
81 : $P_{4909} = (12, 24, 3, 1)$
82 : $P_{4948} = (19, 25, 3, 1)$
83 : $P_{4949} = (20, 25, 3, 1)$
84 : $P_{4959} = (30, 25, 3, 1)$
85 : $P_{5110} = (21, 30, 3, 1)$
86 : $P_{5126} = (5, 31, 3, 1)$
87 : $P_{5128} = (7, 31, 3, 1)$
88 : $P_{5150} = (29, 31, 3, 1)$
89 : $P_{5157} = (4, 0, 4, 1)$
90 : $P_{5281} = (0, 4, 4, 1)$
91 : $P_{5329} = (16, 5, 4, 1)$
92 : $P_{5353} = (8, 6, 4, 1)$
93 : $P_{5511} = (6, 11, 4, 1)$
94 : $P_{5525} = (20, 11, 4, 1)$
95 : $P_{5530} = (25, 11, 4, 1)$

96 : $P_{5579} = (10, 13, 4, 1)$
97 : $P_{5738} = (9, 18, 4, 1)$
98 : $P_{5741} = (12, 18, 4, 1)$
99 : $P_{5752} = (23, 18, 4, 1)$
100 : $P_{5892} = (3, 23, 4, 1)$
101 : $P_{5926} = (5, 24, 4, 1)$
102 : $P_{5935} = (14, 24, 4, 1)$
103 : $P_{5940} = (19, 24, 4, 1)$
104 : $P_{5987} = (2, 26, 4, 1)$
105 : $P_{5998} = (13, 26, 4, 1)$
106 : $P_{6006} = (21, 26, 4, 1)$
107 : $P_{6018} = (1, 27, 4, 1)$
108 : $P_{6024} = (7, 27, 4, 1)$
109 : $P_{6046} = (29, 27, 4, 1)$
110 : $P_{6098} = (17, 29, 4, 1)$
111 : $P_{6182} = (5, 0, 5, 1)$
112 : $P_{6307} = (2, 4, 5, 1)$
113 : $P_{6314} = (9, 4, 5, 1)$
114 : $P_{6320} = (15, 4, 5, 1)$
115 : $P_{6337} = (0, 5, 5, 1)$
116 : $P_{6377} = (8, 6, 5, 1)$
117 : $P_{6388} = (19, 6, 5, 1)$
118 : $P_{6398} = (29, 6, 5, 1)$
119 : $P_{6427} = (26, 7, 5, 1)$
120 : $P_{6489} = (24, 9, 5, 1)$
121 : $P_{6613} = (20, 13, 5, 1)$
122 : $P_{6632} = (7, 14, 5, 1)$
123 : $P_{6641} = (16, 14, 5, 1)$
124 : $P_{6650} = (25, 14, 5, 1)$
125 : $P_{6770} = (17, 18, 5, 1)$
126 : $P_{6774} = (21, 18, 5, 1)$
127 : $P_{6775} = (22, 18, 5, 1)$
128 : $P_{6813} = (28, 19, 5, 1)$
129 : $P_{6859} = (10, 21, 5, 1)$
130 : $P_{7149} = (12, 30, 5, 1)$
131 : $P_{7150} = (13, 30, 5, 1)$
132 : $P_{7168} = (31, 30, 5, 1)$
133 : $P_{7207} = (6, 0, 6, 1)$
134 : $P_{7244} = (11, 1, 6, 1)$
135 : $P_{7330} = (1, 4, 6, 1)$
136 : $P_{7348} = (19, 4, 6, 1)$
137 : $P_{7351} = (22, 4, 6, 1)$
138 : $P_{7373} = (12, 5, 6, 1)$
139 : $P_{7393} = (0, 6, 6, 1)$
140 : $P_{7665} = (16, 14, 6, 1)$
141 : $P_{7849} = (8, 20, 6, 1)$
142 : $P_{7850} = (9, 20, 6, 1)$
143 : $P_{7862} = (21, 20, 6, 1)$
144 : $P_{7897} = (24, 21, 6, 1)$
145 : $P_{7940} = (3, 23, 6, 1)$
146 : $P_{7950} = (13, 23, 6, 1)$
147 : $P_{7962} = (25, 23, 6, 1)$
148 : $P_{8016} = (15, 25, 6, 1)$
149 : $P_{8075} = (10, 27, 6, 1)$
150 : $P_{8079} = (14, 27, 6, 1)$
151 : $P_{8096} = (31, 27, 6, 1)$
152 : $P_{8102} = (5, 28, 6, 1)$
153 : $P_{8104} = (7, 28, 6, 1)$
154 : $P_{8127} = (30, 28, 6, 1)$
155 : $P_{8232} = (7, 0, 7, 1)$
156 : $P_{8322} = (1, 3, 7, 1)$
157 : $P_{8338} = (17, 3, 7, 1)$
158 : $P_{8340} = (19, 3, 7, 1)$
159 : $P_{8393} = (8, 5, 7, 1)$
160 : $P_{8407} = (22, 5, 7, 1)$
161 : $P_{8412} = (27, 5, 7, 1)$
162 : $P_{8449} = (0, 7, 7, 1)$
163 : $P_{8650} = (9, 13, 7, 1)$
164 : $P_{8657} = (16, 13, 7, 1)$
165 : $P_{8661} = (20, 13, 7, 1)$
166 : $P_{8711} = (6, 15, 7, 1)$
167 : $P_{8748} = (11, 16, 7, 1)$
168 : $P_{8824} = (23, 18, 7, 1)$
169 : $P_{8825} = (24, 18, 7, 1)$
170 : $P_{8830} = (29, 18, 7, 1)$
171 : $P_{8864} = (31, 19, 7, 1)$
172 : $P_{8943} = (14, 22, 7, 1)$
173 : $P_{9037} = (12, 25, 7, 1)$
174 : $P_{9040} = (15, 25, 7, 1)$
175 : $P_{9051} = (26, 25, 7, 1)$
176 : $P_{9181} = (28, 29, 7, 1)$
177 : $P_{9257} = (8, 0, 8, 1)$
178 : $P_{9292} = (11, 1, 8, 1)$
179 : $P_{9299} = (18, 1, 8, 1)$
180 : $P_{9305} = (24, 1, 8, 1)$
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189 : $P_{9871} = (14, 19, 8, 1)$
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588 : $P_{28434} = (17, 23, 26, 1)$
589 : $P_{28468} = (19, 24, 26, 1)$
590 : $P_{28513} = (0, 26, 26, 1)$
591 : $P_{28554} = (9, 27, 26, 1)$
592 : $P_{28558} = (13, 27, 26, 1)$
593 : $P_{28576} = (31, 27, 26, 1)$
594 : $P_{28701} = (28, 31, 26, 1)$
595 : $P_{28732} = (27, 0, 27, 1)$
596 : $P_{28852} = (19, 4, 27, 1)$
597 : $P_{28900} = (3, 6, 27, 1)$
598 : $P_{29190} = (5, 15, 27, 1)$
599 : $P_{29206} = (21, 15, 27, 1)$
600 : $P_{29216} = (31, 15, 27, 1)$
601 : $P_{29218} = (1, 16, 27, 1)$
602 : $P_{29223} = (6, 16, 27, 1)$
603 : $P_{29240} = (23, 16, 27, 1)$
604 : $P_{29253} = (4, 17, 27, 1)$
605 : $P_{29262} = (13, 17, 27, 1)$
606 : $P_{29273} = (24, 17, 27, 1)$
607 : $P_{29303} = (22, 18, 27, 1)$
608 : $P_{29306} = (25, 18, 27, 1)$
609 : $P_{29310} = (29, 18, 27, 1)$
610 : $P_{29389} = (12, 21, 27, 1)$
611 : $P_{29439} = (30, 22, 27, 1)$
612 : $P_{29539} = (2, 26, 27, 1)$
613 : $P_{29569} = (0, 27, 27, 1)$
614 : $P_{29609} = (8, 28, 27, 1)$
615 : $P_{29615} = (14, 28, 27, 1)$
616 : $P_{29627} = (26, 28, 27, 1)$
617 : $P_{29757} = (28, 0, 28, 1)$
618 : $P_{29808} = (15, 2, 28, 1)$
619 : $P_{29815} = (22, 2, 28, 1)$
620 : $P_{29820} = (27, 2, 28, 1)$
621 : $P_{29940} = (19, 6, 28, 1)$
622 : $P_{30058} = (9, 10, 28, 1)$
623 : $P_{30088} = (7, 11, 28, 1)$
624 : $P_{30102} = (21, 11, 28, 1)$
625 : $P_{30106} = (25, 11, 28, 1)$
626 : $P_{30117} = (4, 12, 28, 1)$
627 : $P_{30119} = (6, 12, 28, 1)$
628 : $P_{30127} = (14, 12, 28, 1)$
629 : $P_{30274} = (1, 17, 28, 1)$
630 : $P_{30283} = (10, 17, 28, 1)$
631 : $P_{30299} = (26, 17, 28, 1)$
632 : $P_{30334} = (29, 18, 28, 1)$
633 : $P_{30372} = (3, 20, 28, 1)$
634 : $P_{30374} = (5, 20, 28, 1)$
635 : $P_{30387} = (18, 20, 28, 1)$
636 : $P_{30553} = (24, 25, 28, 1)$
637 : $P_{30624} = (31, 27, 28, 1)$
638 : $P_{30625} = (0, 28, 28, 1)$
639 : $P_{30782} = (29, 0, 29, 1)$
640 : $P_{30816} = (31, 1, 29, 1)$
641 : $P_{30890} = (9, 4, 29, 1)$
642 : $P_{30900} = (19, 4, 29, 1)$
643 : $P_{30911} = (30, 4, 29, 1)$
644 : $P_{30979} = (2, 7, 29, 1)$
645 : $P_{30994} = (17, 7, 29, 1)$
646 : $P_{30997} = (20, 7, 29, 1)$
647 : $P_{31140} = (3, 12, 29, 1)$
648 : $P_{31170} = (1, 13, 29, 1)$
649 : $P_{31175} = (6, 13, 29, 1)$
650 : $P_{31179} = (10, 13, 29, 1)$
651 : $P_{31388} = (27, 19, 29, 1)$
652 : $P_{31411} = (18, 20, 29, 1)$
653 : $P_{31471} = (14, 22, 29, 1)$
654 : $P_{31472} = (15, 22, 29, 1)$
655 : $P_{31480} = (23, 22, 29, 1)$
656 : $P_{31510} = (21, 23, 29, 1)$
657 : $P_{31529} = (8, 24, 29, 1)$
658 : $P_{31533} = (12, 24, 29, 1)$
659 : $P_{31549} = (28, 24, 29, 1)$
660 : $P_{31681} = (0, 29, 29, 1)$
661 : $P_{31807} = (30, 0, 30, 1)$
662 : $P_{31824} = (15, 1, 30, 1)$
663 : $P_{31827} = (18, 1, 30, 1)$
664 : $P_{31837} = (28, 1, 30, 1)$
665 : $P_{31882} = (9, 3, 30, 1)$
666 : $P_{31890} = (17, 3, 30, 1)$
667 : $P_{31900} = (27, 3, 30, 1)$
668 : $P_{31939} = (2, 5, 30, 1)$
669 : $P_{32152} = (23, 11, 30, 1)$
670 : $P_{32233} = (8, 14, 30, 1)$
671 : $P_{32236} = (11, 14, 30, 1)$
672 : $P_{32238} = (13, 14, 30, 1)$
673 : $P_{32346} = (25, 17, 30, 1)$
674 : $P_{32375} = (22, 18, 30, 1)$
675 : $P_{32411} = (26, 19, 30, 1)$
676 : $P_{32421} = (4, 20, 30, 1)$
677 : $P_{32422} = (5, 20, 30, 1)$
678 : $P_{32438} = (21, 20, 30, 1)$
679 : $P_{32552} = (7, 24, 30, 1)$
680 : $P_{32557} = (12, 24, 30, 1)$
681 : $P_{32564} = (19, 24, 30, 1)$
682 : $P_{32737} = (0, 30, 30, 1)$
683 : $P_{32832} = (31, 0, 31, 1)$
684 : $P_{32892} = (27, 2, 31, 1)$
685 : $P_{32916} = (19, 3, 31, 1)$
686 : $P_{33060} = (3, 8, 31, 1)$
687 : $P_{33075} = (18, 8, 31, 1)$
688 : $P_{33082} = (25, 8, 31, 1)$
689 : $P_{33100} = (11, 9, 31, 1)$
690 : $P_{33117} = (28, 9, 31, 1)$
691 : $P_{33119} = (30, 9, 31, 1)$
692 : $P_{33168} = (15, 11, 31, 1)$
693 : $P_{33218} = (1, 13, 31, 1)$
694 : $P_{33253} = (4, 14, 31, 1)$
695 : $P_{33256} = (7, 14, 31, 1)$
696 : $P_{33262} = (13, 14, 31, 1)$
697 : $P_{33489} = (16, 21, 31, 1)$
698 : $P_{33497} = (24, 21, 31, 1)$
699 : $P_{33502} = (29, 21, 31, 1)$
700 : $P_{33575} = (6, 24, 31, 1)$
701 : $P_{33635} = (2, 26, 31, 1)$
702 : $P_{33645} = (12, 26, 31, 1)$
703 : $P_{33653} = (20, 26, 31, 1)$
704 : $P_{33793} = (0, 31, 31, 1)$