Rank-65867 over GF(32)

January 15, 2021

The equation

The equation of the surface is:

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

(0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0) The point rank of the equation over GF(32) is -2112814043

General information

Number of lines	8
Number of points	1121
Number of singular points	3
Number of Eckardt points	2
Number of double points	6
Number of single points	242
Number of points off lines	870
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^{8}
Type of lines on points	$4, 3^2, 2^6, 1^{242}, 0^{870}$

Singular Points

The surface has 3 singular points:

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

1: $P_{1059} = \mathbf{P}(1,0,0,1) = \mathbf{P}(1,0,0,1)$

The 8 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{array} \right]_0 = \left[\begin{array}{cccc} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{array} \right]_0 = \mathbf{Pl}(1,0,0,0,0,0)_0$$

$$\ell_{1} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \mathbf{Pl}(0,0,1,0,0,0)_{2}$$

$$\ell_{2} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2081} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2081} = \mathbf{Pl}(0,0,1,0,0,1)_{34912}$$

$$\ell_{3} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{33824} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{33824} = \mathbf{Pl}(1,0,0,1,0,0)_{66}$$

$$\ell_{4} = \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{35905} = \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{35905} = \mathbf{Pl}(0,1,1,0,0,1)_{34944}$$

$$\ell_{5} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \mathbf{Pl}(0,1,1,0,0,0)_{34}$$

$$\ell_{6} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{1090} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{1090} = \mathbf{Pl}(1,1,1,0,1,1)_{68640}$$

$$\ell_{7} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33857} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33857} = \mathbf{Pl}(1,1,1,1,1,0)_{5058}$$

Eckardt Points

The surface has 2 Eckardt points:

$$0: P_{1059} = \mathbf{P}(1,0,0,1) = \mathbf{P}(1,0,0,1),$$

$$1: P_{1091} = \mathbf{P}(1, 1, 0, 1) = \mathbf{P}(1, 1, 0, 1).$$

Double Points

The surface has 6 Double points:

The double points on the surface are:

$$P_0 = (1,0,0,0) = \ell_0 \cap \ell_1$$

$$P_5 = (1,1,0,0) = \ell_0 \cap \ell_2$$

$$P_1 = (0,1,0,0) = \ell_0 \cap \ell_3$$

$$P_{36} = (1,0,1,0) = \ell_1 \cap \ell_6$$

$$P_{68} = (1, 1, 1, 0) = \ell_2 \cap \ell_7$$

$$P_{2114} = (0, 1, 1, 1) = \ell_6 \cap \ell_7$$

Single Points

The surface has 242 single points: The single points on the surface are:

 $0: P_4 = (1, 1, 1, 1)$ lies on line ℓ_4 9: $P_{14} = (10, 1, 0, 0)$ lies on line ℓ_0 1: $P_6 = (2, 1, 0, 0)$ lies on line ℓ_0 10: $P_{15} = (11, 1, 0, 0)$ lies on line ℓ_0 2: $P_7 = (3, 1, 0, 0)$ lies on line ℓ_0 11: $P_{16} = (12, 1, 0, 0)$ lies on line ℓ_0 3 : $P_8 = (4, 1, 0, 0)$ lies on line ℓ_0 12: $P_{17} = (13, 1, 0, 0)$ lies on line ℓ_0 4: $P_9 = (5, 1, 0, 0)$ lies on line ℓ_0 13: $P_{18} = (14, 1, 0, 0)$ lies on line ℓ_0 5: $P_{10} = (6, 1, 0, 0)$ lies on line ℓ_0 14: $P_{19} = (15, 1, 0, 0)$ lies on line ℓ_0 6: $P_{11} = (7, 1, 0, 0)$ lies on line ℓ_0 15: $P_{20} = (16, 1, 0, 0)$ lies on line ℓ_0 16: $P_{21} = (17, 1, 0, 0)$ lies on line ℓ_0 7: $P_{12} = (8, 1, 0, 0)$ lies on line ℓ_0 8: $P_{13} = (9, 1, 0, 0)$ lies on line ℓ_0 17: $P_{22} = (18, 1, 0, 0)$ lies on line ℓ_0

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18: P_{23} = (19, 1, 0, 0) lies on line \ell_0
                                                                      72: P_{464} = (13, 13, 1, 0) lies on line \ell_2
19: P_{24} = (20, 1, 0, 0) lies on line \ell_0
                                                                      73: P_{497} = (14, 14, 1, 0) lies on line \ell_2
20: P_{25} = (21, 1, 0, 0) lies on line \ell_0
                                                                      74: P_{530} = (15, 15, 1, 0) lies on line \ell_2
21: P_{26} = (22, 1, 0, 0) lies on line \ell_0
                                                                      75: P_{563} = (16, 16, 1, 0) lies on line \ell_2
22: P_{27} = (23, 1, 0, 0) lies on line \ell_0
                                                                      76: P_{596} = (17, 17, 1, 0) lies on line \ell_2
23: P_{28} = (24, 1, 0, 0) lies on line \ell_0
                                                                      77: P_{629} = (18, 18, 1, 0) lies on line \ell_2
24: P_{29} = (25, 1, 0, 0) lies on line \ell_0
                                                                      78: P_{662} = (19, 19, 1, 0) lies on line \ell_2
25: P_{30} = (26, 1, 0, 0) lies on line \ell_0
                                                                      79: P_{695} = (20, 20, 1, 0) lies on line \ell_2
26: P_{31} = (27, 1, 0, 0) lies on line \ell_0
                                                                      80: P_{728} = (21, 21, 1, 0) lies on line \ell_2
27: P_{32} = (28, 1, 0, 0) lies on line \ell_0
                                                                      81: P_{761} = (22, 22, 1, 0) lies on line \ell_2
28: P_{33} = (29, 1, 0, 0) lies on line \ell_0
                                                                      82: P_{794} = (23, 23, 1, 0) lies on line \ell_2
29: P_{34} = (30, 1, 0, 0) lies on line \ell_0
                                                                      83: P_{827} = (24, 24, 1, 0) lies on line \ell_2
30: P_{35} = (31, 1, 0, 0) lies on line \ell_0
                                                                      84: P_{860} = (25, 25, 1, 0) lies on line \ell_2
31 : P_{37} = (2, 0, 1, 0) lies on line \ell_1
                                                                      85: P_{893} = (26, 26, 1, 0) lies on line \ell_2
32 : P_{38} = (3, 0, 1, 0) lies on line \ell_1
                                                                      86: P_{926} = (27, 27, 1, 0) lies on line \ell_2
33: P_{39} = (4, 0, 1, 0) lies on line \ell_1
                                                                      87: P_{959} = (28, 28, 1, 0) lies on line \ell_2
34: P_{40} = (5,0,1,0) lies on line \ell_1
                                                                      88: P_{992} = (29, 29, 1, 0) lies on line \ell_2
35: P_{41} = (6,0,1,0) lies on line \ell_1
                                                                      89: P_{1025} = (30, 30, 1, 0) lies on line \ell_2
36: P_{42} = (7, 0, 1, 0) lies on line \ell_1
                                                                      90: P_{1058} = (31, 31, 1, 0) lies on line \ell_2
37: P_{43} = (8,0,1,0) lies on line \ell_1
                                                                      91: P_{1123} = (1, 2, 0, 1) lies on line \ell_3
38: P_{44} = (9, 0, 1, 0) lies on line \ell_1
                                                                      92: P_{1155} = (1, 3, 0, 1) lies on line \ell_3
39: P_{45} = (10, 0, 1, 0) lies on line \ell_1
                                                                      93: P_{1187} = (1, 4, 0, 1) lies on line \ell_3
40: P_{46} = (11, 0, 1, 0) lies on line \ell_1
                                                                      94: P_{1219} = (1, 5, 0, 1) lies on line \ell_3
                                                                      95 : P_{1251} = (1, 6, 0, 1) lies on line \ell_3
41: P_{47} = (12, 0, 1, 0) lies on line \ell_1
42: P_{48} = (13, 0, 1, 0) lies on line \ell_1
                                                                      96: P_{1283} = (1,7,0,1) lies on line \ell_3
43: P_{49} = (14, 0, 1, 0) lies on line \ell_1
                                                                      97: P_{1315} = (1, 8, 0, 1) lies on line \ell_3
44: P_{50} = (15, 0, 1, 0) lies on line \ell_1
                                                                      98: P_{1347} = (1, 9, 0, 1) lies on line \ell_3
45: P_{51} = (16, 0, 1, 0) lies on line \ell_1
                                                                      99: P_{1379} = (1, 10, 0, 1) lies on line \ell_3
46: P_{52} = (17, 0, 1, 0) lies on line \ell_1
                                                                      100: P_{1411} = (1, 11, 0, 1) lies on line \ell_3
47: P_{53} = (18, 0, 1, 0) lies on line \ell_1
                                                                      101: P_{1443} = (1, 12, 0, 1) lies on line \ell_3
48: P_{54} = (19, 0, 1, 0) lies on line \ell_1
                                                                      102: P_{1475} = (1, 13, 0, 1) lies on line \ell_3
49: P_{55} = (20, 0, 1, 0) lies on line \ell_1
                                                                      103: P_{1507} = (1, 14, 0, 1) lies on line \ell_3
50: P_{56} = (21, 0, 1, 0) lies on line \ell_1
                                                                      104: P_{1539} = (1, 15, 0, 1) lies on line \ell_3
51: P_{57} = (22, 0, 1, 0) lies on line \ell_1
                                                                      105: P_{1571} = (1, 16, 0, 1) lies on line \ell_3
52: P_{58} = (23, 0, 1, 0) lies on line \ell_1
                                                                      106: P_{1603} = (1, 17, 0, 1) lies on line \ell_3
53 : P_{59}=(24,0,1,0) lies on line \ell_1
                                                                      107: P_{1635} = (1, 18, 0, 1) lies on line \ell_3
54: P_{60} = (25, 0, 1, 0) lies on line \ell_1
                                                                      108: P_{1667} = (1, 19, 0, 1) lies on line \ell_3
55: P_{61} = (26, 0, 1, 0) lies on line \ell_1
                                                                      109: P_{1699} = (1, 20, 0, 1) lies on line \ell_3
56: P_{62} = (27, 0, 1, 0) lies on line \ell_1
                                                                      110: P_{1731} = (1, 21, 0, 1) lies on line \ell_3
57: P_{63} = (28, 0, 1, 0) lies on line \ell_1
                                                                      111: P_{1763} = (1, 22, 0, 1) lies on line \ell_3
58: P_{64} = (29, 0, 1, 0) lies on line \ell_1
                                                                      112: P_{1795} = (1, 23, 0, 1) lies on line \ell_3
59: P_{65} = (30, 0, 1, 0) lies on line \ell_1
                                                                      113: P_{1827} = (1, 24, 0, 1) lies on line \ell_3
60: P_{66} = (31, 0, 1, 0) lies on line \ell_1
                                                                      114: P_{1859} = (1, 25, 0, 1) lies on line \ell_3
61: P_{101} = (2, 2, 1, 0) lies on line \ell_2
                                                                      115: P_{1891} = (1, 26, 0, 1) lies on line \ell_3
                                                                      116: P_{1923} = (1, 27, 0, 1) lies on line \ell_3
62: P_{134} = (3, 3, 1, 0) lies on line \ell_2
63: P_{167} = (4, 4, 1, 0) lies on line \ell_2
                                                                      117: P_{1955} = (1, 28, 0, 1) lies on line \ell_3
64: P_{200} = (5, 5, 1, 0) lies on line \ell_2
                                                                      118: P_{1987} = (1, 29, 0, 1) lies on line \ell_3
65: P_{233} = (6, 6, 1, 0) lies on line \ell_2
                                                                      119: P_{2019} = (1, 30, 0, 1) lies on line \ell_3
66: P_{266} = (7, 7, 1, 0) lies on line \ell_2
                                                                      120: P_{2051} = (1, 31, 0, 1) lies on line \ell_3
67: P_{299} = (8, 8, 1, 0) lies on line \ell_2
                                                                      121: P_{2083} = (1, 0, 1, 1) lies on line \ell_5
68: P_{332} = (9, 9, 1, 0) lies on line \ell_2
                                                                      122: P_{3106} = (1, 0, 2, 1) lies on line \ell_5
69: P_{365} = (10, 10, 1, 0) lies on line \ell_2
                                                                      123: P_{3138} = (1, 1, 2, 1) lies on line \ell_4
70: P_{398} = (11, 11, 1, 0) lies on line \ell_2
                                                                      124 : P_{3140} = (3, 1, 2, 1) lies on line \ell_6
71 : P_{431} = (12, 12, 1, 0) lies on line \ell_2
                                                                      125: P_{3172} = (3, 2, 2, 1) lies on line \ell_7
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180 : P_{17490} = (17, 1, 16, 1) lies on line \ell_6
126: P_{4130} = (1,0,3,1) lies on line \ell_5
127: P_{4162} = (1, 1, 3, 1) lies on line \ell_4
                                                                     181: P_{17970} = (17, 16, 16, 1) lies on line \ell_7
128: P_{4163} = (2, 1, 3, 1) lies on line \ell_6
                                                                     182 : P_{18466} = (1, 0, 17, 1) lies on line \ell_5
129: P_{4227} = (2, 3, 3, 1) lies on line \ell_7
                                                                     183 : P_{18498} = (1, 1, 17, 1) lies on line \ell_4
130 : P_{5154} = (1, 0, 4, 1) lies on line \ell_5
                                                                     184 : P_{18513} = (16, 1, 17, 1) lies on line \ell_6
131: P_{5186} = (1, 1, 4, 1) lies on line \ell_4
                                                                     185: P_{19025} = (16, 17, 17, 1) lies on line \ell_7
132: P_{5190} = (5, 1, 4, 1) lies on line \ell_6
                                                                     186: P_{19490} = (1, 0, 18, 1) lies on line \ell_5
133: P_{5286} = (5, 4, 4, 1) lies on line \ell_7
                                                                     187: P_{19522} = (1, 1, 18, 1) lies on line \ell_4
134 : P_{6178} = (1, 0, 5, 1) lies on line \ell_5
                                                                     188: P_{19540} = (19, 1, 18, 1) lies on line \ell_6
135: P_{6210} = (1, 1, 5, 1) lies on line \ell_4
                                                                     189: P_{20084} = (19, 18, 18, 1) lies on line \ell_7
136: P_{6213} = (4, 1, 5, 1) lies on line \ell_6
                                                                     190: P_{20514} = (1, 0, 19, 1) lies on line \ell_5
137: P_{6341} = (4, 5, 5, 1) lies on line \ell_7
                                                                     191: P_{20546} = (1, 1, 19, 1) lies on line \ell_4
138: P_{7202} = (1, 0, 6, 1) lies on line \ell_5
                                                                     192: P_{20563} = (18, 1, 19, 1) lies on line \ell_6
139: P_{7234} = (1, 1, 6, 1) lies on line \ell_4
                                                                     193: P_{21139} = (18, 19, 19, 1) lies on line \ell_7
140: P_{7240} = (7, 1, 6, 1) lies on line \ell_6
                                                                     194: P_{21538} = (1, 0, 20, 1) lies on line \ell_5
141: P_{7400} = (7, 6, 6, 1) lies on line \ell_7
                                                                     195: P_{21570} = (1, 1, 20, 1) lies on line \ell_4
142: P_{8226} = (1, 0, 7, 1) lies on line \ell_5
                                                                     196: P_{21590} = (21, 1, 20, 1) lies on line \ell_6
143: P_{8258} = (1, 1, 7, 1) lies on line \ell_4
                                                                     197: P_{22198} = (21, 20, 20, 1) lies on line \ell_7
144: P_{8263} = (6, 1, 7, 1) lies on line \ell_6
                                                                     198: P_{22562} = (1, 0, 21, 1) lies on line \ell_5
145: P_{8455} = (6,7,7,1) lies on line \ell_7
                                                                     199: P_{22594} = (1, 1, 21, 1) lies on line \ell_4
146: P_{9250} = (1, 0, 8, 1) lies on line \ell_5
                                                                     200: P_{22613} = (20, 1, 21, 1) lies on line \ell_6
                                                                     201: P_{23253} = (20, 21, 21, 1) lies on line \ell_7
147: P_{9282} = (1, 1, 8, 1) lies on line \ell_4
148: P_{9290} = (9, 1, 8, 1) lies on line \ell_6
                                                                     202: P_{23586} = (1, 0, 22, 1) lies on line \ell_5
149: P_{9514} = (9, 8, 8, 1) lies on line \ell_7
                                                                     203: P_{23618} = (1, 1, 22, 1) lies on line \ell_4
150: P_{10274} = (1, 0, 9, 1) lies on line \ell_5
                                                                     204: P_{23640} = (23, 1, 22, 1) lies on line \ell_6
151: P_{10306} = (1, 1, 9, 1) lies on line \ell_4
                                                                     205: P_{24312} = (23, 22, 22, 1) lies on line \ell_7
152: P_{10313} = (8, 1, 9, 1) lies on line \ell_6
                                                                     206: P_{24610} = (1, 0, 23, 1) lies on line \ell_5
153: P_{10569} = (8, 9, 9, 1) lies on line \ell_7
                                                                     207: P_{24642} = (1, 1, 23, 1) lies on line \ell_4
154: P_{11298} = (1, 0, 10, 1) lies on line \ell_5
                                                                     208: P_{24663} = (22, 1, 23, 1) lies on line \ell_6
155: P_{11330} = (1, 1, 10, 1) lies on line \ell_4
                                                                     209: P_{25367} = (22, 23, 23, 1) lies on line \ell_7
156: P_{11340} = (11, 1, 10, 1) lies on line \ell_6
                                                                     210: P_{25634} = (1, 0, 24, 1) lies on line \ell_5
157: P_{11628} = (11, 10, 10, 1) lies on line \ell_7
                                                                     211: P_{25666} = (1, 1, 24, 1) lies on line \ell_4
158: P_{12322} = (1, 0, 11, 1) lies on line \ell_5
                                                                     212: P_{25690} = (25, 1, 24, 1) lies on line \ell_6
159: P_{12354} = (1, 1, 11, 1) lies on line \ell_4
                                                                     213: P_{26426} = (25, 24, 24, 1) lies on line \ell_7
160: P_{12363} = (10, 1, 11, 1) lies on line \ell_6
                                                                     214: P_{26658} = (1, 0, 25, 1) lies on line \ell_5
                                                                     215: P_{26690} = (1, 1, 25, 1) lies on line \ell_4
161: P_{12683} = (10, 11, 11, 1) lies on line \ell_7
162: P_{13346} = (1, 0, 12, 1) lies on line \ell_5
                                                                     216: P_{26713} = (24, 1, 25, 1) lies on line \ell_6
163: P_{13378} = (1, 1, 12, 1) lies on line \ell_4
                                                                     217: P_{27481} = (24, 25, 25, 1) lies on line \ell_7
164: P_{13390} = (13, 1, 12, 1) lies on line \ell_6
                                                                     218: P_{27682} = (1, 0, 26, 1) lies on line \ell_5
165 : P_{13742} = (13, 12, 12, 1) lies on line \ell_7
                                                                     219: P_{27714} = (1, 1, 26, 1) lies on line \ell_4
166: P_{14370} = (1, 0, 13, 1) lies on line \ell_5
                                                                     220: P_{27740} = (27, 1, 26, 1) lies on line \ell_6
167: P_{14402} = (1, 1, 13, 1) lies on line \ell_4
                                                                     221: P_{28540} = (27, 26, 26, 1) lies on line \ell_7
168: P_{14413} = (12, 1, 13, 1) lies on line \ell_6
                                                                     222: P_{28706} = (1, 0, 27, 1) lies on line \ell_5
169: P_{14797} = (12, 13, 13, 1) lies on line \ell_7
                                                                     223: P_{28738} = (1, 1, 27, 1) lies on line \ell_4
170: P_{15394} = (1, 0, 14, 1) lies on line \ell_5
                                                                     224: P_{28763} = (26, 1, 27, 1) lies on line \ell_6
171: P_{15426} = (1, 1, 14, 1) lies on line \ell_4
                                                                     225: P_{29595} = (26, 27, 27, 1) lies on line \ell_7
172: P_{15440} = (15, 1, 14, 1) lies on line \ell_6
                                                                     226: P_{29730} = (1, 0, 28, 1) lies on line \ell_5
173: P_{15856} = (15, 14, 14, 1) lies on line \ell_7
                                                                     227: P_{29762} = (1, 1, 28, 1) lies on line \ell_4
174: P_{16418} = (1, 0, 15, 1) lies on line \ell_5
                                                                     228: P_{29790} = (29, 1, 28, 1) lies on line \ell_6
175: P_{16450} = (1, 1, 15, 1) lies on line \ell_4
                                                                     229: P_{30654} = (29, 28, 28, 1) lies on line \ell_7
176: P_{16463} = (14, 1, 15, 1) lies on line \ell_6
                                                                     230: P_{30754} = (1, 0, 29, 1) lies on line \ell_5
177: P_{16911} = (14, 15, 15, 1) lies on line \ell_7
                                                                     231: P_{30786} = (1, 1, 29, 1) lies on line \ell_4
178 : P_{17442} = (1, 0, 16, 1) lies on line \ell_5
                                                                     232 : P_{30813} = (28, 1, 29, 1) lies on line \ell_6
179: P_{17474} = (1, 1, 16, 1) lies on line \ell_4
                                                                     233: P_{31709} = (28, 29, 29, 1) lies on line \ell_7
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\begin{array}{lll} 234: \ P_{31778} = (1,0,30,1) \ \text{lies on line} \ \ell_5 \\ 235: \ P_{31810} = (1,1,30,1) \ \text{lies on line} \ \ell_4 \\ 236: \ P_{31840} = (31,1,30,1) \ \text{lies on line} \ \ell_6 \\ 237: \ P_{32768} = (31,30,30,1) \ \text{lies on line} \ \ell_7 \\ 238: \ P_{32802} = (1,0,31,1) \ \text{lies on line} \ \ell_5 \end{array}
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The single points on the surface are:

Points on surface but on no line

The surface has 870 points not on any line: The points on the surface but not on lines are:

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0: P_{2197} = (20, 3, 1, 1)
                                                                  39: P_{3399} = (6, 9, 2, 1)
1: P_{2200} = (23, 3, 1, 1)
                                                                  40: P_{3413} = (20, 9, 2, 1)
2: P_{2265} = (24, 5, 1, 1)
                                                                  41: P_{3591} = (6, 15, 2, 1)
3: P_{2270} = (29, 5, 1, 1)
                                                                  42: P_{3609} = (24, 15, 2, 1)
4: P_{2299} = (26, 6, 1, 1)
                                                                  43: P_{3747} = (2, 20, 2, 1)
5: P_{2301} = (28, 6, 1, 1)
                                                                  44: P_{3760} = (15, 20, 2, 1)
                                                                  45: P_{3795} = (18, 21, 2, 1)
6: P_{2322} = (17, 7, 1, 1)
7: P_{2327} = (22, 7, 1, 1)
                                                                  46: P_{3806} = (29, 21, 2, 1)
8: P_{2486} = (21, 12, 1, 1)
                                                                  47: P_{3811} = (2, 22, 2, 1)
9: P_{2490} = (25, 12, 1, 1)
                                                                  48: P_{3820} = (11, 22, 2, 1)
10: P_{2632} = (7, 17, 1, 1)
                                                                  49: P_{3860} = (19, 23, 2, 1)
11: P_{2647} = (22, 17, 1, 1)
                                                                  50: P_{3865} = (24, 23, 2, 1)
12: P_{2724} = (3, 20, 1, 1)
                                                                  51: P_{3984} = (15, 27, 2, 1)
13: P_{2744} = (23, 20, 1, 1)
                                                                  52: P_{3997} = (28, 27, 2, 1)
14: P_{2765} = (12, 21, 1, 1)
                                                                  53: P_{4044} = (11, 29, 2, 1)
15: P_{2778} = (25, 21, 1, 1)
                                                                  54: P_{4053} = (20, 29, 2, 1)
16: P_{2792} = (7, 22, 1, 1)
                                                                  55: P_{4097} = (0, 31, 2, 1)
17: P_{2802} = (17, 22, 1, 1)
                                                                  56: P_{4124} = (27, 31, 2, 1)
18: P_{2820} = (3, 23, 1, 1)
                                                                  57: P_{4212} = (19, 2, 3, 1)
19: P_{2837} = (20, 23, 1, 1)
                                                                  58: P_{4214} = (21, 2, 3, 1)
                                                                  59: P_{4232} = (7, 3, 3, 1)
20: P_{2854} = (5, 24, 1, 1)
21: P_{2878} = (29, 24, 1, 1)
                                                                  60: P_{4264} = (7, 4, 3, 1)
22: P_{2893} = (12, 25, 1, 1)
                                                                  61: P_{4268} = (11, 4, 3, 1)
                                                                  62: P_{4389} = (4, 8, 3, 1)
23: P_{2902} = (21, 25, 1, 1)
24: P_{2919} = (6, 26, 1, 1)
                                                                  63: P_{4413} = (28, 8, 3, 1)
25: P_{2941} = (28, 26, 1, 1)
                                                                  64: P_{4487} = (6, 11, 3, 1)
26: P_{2983} = (6, 28, 1, 1)
                                                                  65: P_{4508} = (27, 11, 3, 1)
                                                                  66: P_{4517} = (4, 12, 3, 1)
27: P_{3003} = (26, 28, 1, 1)
                                                                  67: P_{4529} = (16, 12, 3, 1)
28: P_{3014} = (5, 29, 1, 1)
29: P_{3033} = (24, 29, 1, 1)
                                                                  68: P_{4551} = (6, 13, 3, 1)
                                                                  69: P_{4562} = (17, 13, 3, 1)
30: P_{3176} = (7, 2, 2, 1)
31: P_{3252} = (19, 4, 2, 1)
                                                                  70: P_{4620} = (11, 15, 3, 1)
32: P_{3260} = (27, 4, 2, 1)
                                                                  71: P_{4635} = (26, 15, 3, 1)
33: P_{3272} = (7, 5, 2, 1)
                                                                  72: P_{4655} = (14, 16, 3, 1)
34: P_{3278} = (13, 5, 2, 1)
                                                                  73: P_{4668} = (27, 16, 3, 1)
                                                                  74: P_{4678} = (5, 17, 3, 1)
35: P_{3347} = (18, 7, 2, 1)
36: P_{3357} = (28, 7, 2, 1)
                                                                  75: P_{4692} = (19, 17, 3, 1)
37: P_{3374} = (13, 8, 2, 1)
                                                                  76: P_{4774} = (5, 20, 3, 1)
38: P_{3390} = (29, 8, 2, 1)
                                                                  77: P_{4797} = (28, 20, 3, 1)
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78: P_{4801} = (0, 21, 3, 1)
                                                                 132: P_{7022} = (13, 26, 5, 1)
79: P_{4827} = (26, 21, 3, 1)
                                                                 133: P_{7025} = (16, 26, 5, 1)
80: P_{4874} = (9, 23, 3, 1)
                                                                 134: P_{7053} = (12, 27, 5, 1)
81: P_{4886} = (21, 23, 3, 1)
                                                                 135: P_{7061} = (20, 27, 5, 1)
82: P_{5041} = (16, 28, 3, 1)
                                                                 136: P_{7073} = (0, 28, 5, 1)
83: P_{5042} = (17, 28, 3, 1)
                                                                 137: P_{7076} = (3, 28, 5, 1)
84: P_{5098} = (9, 30, 3, 1)
                                                                 138: P_{7122} = (17, 29, 5, 1)
85: P_{5103} = (14, 30, 3, 1)
                                                                 139: P_{7128} = (23, 29, 5, 1)
86: P_{5240} = (23, 2, 4, 1)
                                                                 140: P_{7172} = (3, 31, 5, 1)
87: P_{5248} = (31, 2, 4, 1)
                                                                 141: P_{7184} = (15, 31, 5, 1)
88: P_{5302} = (21, 4, 4, 1)
                                                                 142: P_{7271} = (6, 2, 6, 1)
89: P_{5495} = (22, 10, 4, 1)
                                                                 143: P_{7275} = (10, 2, 6, 1)
90: P_{5500} = (27, 10, 4, 1)
                                                                 144: P_{7335} = (6, 4, 6, 1)
91: P_{5525} = (20, 11, 4, 1)
                                                                 145: P_{7359} = (30, 4, 6, 1)
                                                                 146: P_{7412} = (19, 6, 6, 1)
92: P_{5534} = (29, 11, 4, 1)
93: P_{5667} = (2, 16, 4, 1)
                                                                 147: P_{7467} = (10, 8, 6, 1)
94: P_{5673} = (8, 16, 4, 1)
                                                                 148: P_{7488} = (31, 8, 6, 1)
                                                                 149: P_{7521} = (0, 10, 6, 1)
95: P_{5718} = (21, 17, 4, 1)
                                                                 150: P_{7546} = (25, 10, 6, 1)
96: P_{5724} = (27, 17, 4, 1)
97: P_{5729} = (0, 18, 4, 1)
                                                                 151: P_{7671} = (22, 14, 6, 1)
98: P_{5731} = (2, 18, 4, 1)
                                                                 152: P_{7672} = (23, 14, 6, 1)
99: P_{5834} = (9, 21, 4, 1)
                                                                 153: P_{7708} = (27, 15, 6, 1)
100: P_{5848} = (23, 21, 4, 1)
                                                                 154: P_{7709} = (28, 15, 6, 1)
101: P_{5872} = (15, 22, 4, 1)
                                                                 155: P_{7785} = (8, 18, 6, 1)
102: P_{5886} = (29, 22, 4, 1)
                                                                 156: P_{7788} = (11, 18, 6, 1)
103: P_{5928} = (7, 24, 4, 1)
                                                                 157: P_{7834} = (25, 19, 6, 1)
104: P_{5929} = (8, 24, 4, 1)
                                                                 158: P_{7837} = (28, 19, 6, 1)
105: P_{5957} = (4, 25, 4, 1)
                                                                 159: P_{7853} = (12, 20, 6, 1)
106: P_{5968} = (15, 25, 4, 1)
                                                                 160: P_{7868} = (27, 20, 6, 1)
107: P_{6058} = (9, 28, 4, 1)
                                                                 161: P_{7875} = (2, 21, 6, 1)
108: P_{6071} = (22, 28, 4, 1)
                                                                 162: P_{7892} = (19, 21, 6, 1)
109: P_{6085} = (4, 29, 4, 1)
                                                                 163: P_{7939} = (2, 23, 6, 1)
110: P_{6112} = (31, 29, 4, 1)
                                                                 164: P_{7968} = (31, 23, 6, 1)
111: P_{6152} = (7, 31, 4, 1)
                                                                 165: P_{7981} = (12, 24, 6, 1)
                                                                 166: P_{7991} = (22, 24, 6, 1)
112: P_{6165} = (20, 31, 4, 1)
                                                                 167: P_{8012} = (11, 25, 6, 1)
113: P_{6313} = (8, 4, 5, 1)
114: P_{6333} = (28, 4, 5, 1)
                                                                 168: P_{8024} = (23, 25, 6, 1)
115: P_{6358} = (21, 5, 5, 1)
                                                                 169: P_{8041} = (8, 26, 6, 1)
116: P_{6513} = (16, 10, 5, 1)
                                                                 170: P_{8063} = (30, 26, 6, 1)
117: P_{6520} = (23, 10, 5, 1)
                                                                 171: P_{8365} = (12, 4, 7, 1)
118: P_{6569} = (8, 12, 5, 1)
                                                                 172: P_{8369} = (16, 4, 7, 1)
                                                                 173: P_{8468} = (19, 7, 7, 1)
119: P_{6578} = (17, 12, 5, 1)
120: P_{6595} = (2, 13, 5, 1)
                                                                 174: P_{8493} = (12, 8, 7, 1)
121: P_{6623} = (30, 13, 5, 1)
                                                                 175: P_{8498} = (17, 8, 7, 1)
122: P_{6659} = (2, 15, 5, 1)
                                                                 176: P_{8515} = (2, 9, 7, 1)
                                                                 177: P_{8537} = (24, 9, 7, 1)
123: P_{6677} = (20, 15, 5, 1)
124: P_{6704} = (15, 16, 5, 1)
                                                                 178: P_{8579} = (2, 11, 7, 1)
125: P_{6710} = (21, 16, 5, 1)
                                                                 179: P_{8599} = (22, 11, 7, 1)
                                                                 180: P_{8639} = (30, 12, 7, 1)
126: P_{6796} = (11, 19, 5, 1)
127: P_{6815} = (30, 19, 5, 1)
                                                                 181: P_{8640} = (31, 12, 7, 1)
128: P_{6925} = (12, 23, 5, 1)
                                                                 182: P_{8659} = (18, 13, 7, 1)
129: P_{6926} = (13, 23, 5, 1)
                                                                 183: P_{8661} = (20, 13, 7, 1)
130: P_{6956} = (11, 24, 5, 1)
                                                                 184: P_{8769} = (0, 17, 7, 1)
131: P_{6973} = (28, 24, 5, 1)
                                                                 185: P_{8793} = (24, 17, 7, 1)
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186: P_{8816} = (15, 18, 7, 1)
                                                                240: P_{10705} = (16, 13, 9, 1)
187: P_{8831} = (30, 18, 7, 1)
                                                                241: P_{10715} = (26, 13, 9, 1)
188: P_{8842} = (9, 19, 7, 1)
                                                                242: P_{10803} = (18, 16, 9, 1)
189: P_{8864} = (31, 19, 7, 1)
                                                                243: P_{10807} = (22, 16, 9, 1)
190: P_{8881} = (16, 20, 7, 1)
                                                                244: P_{10837} = (20, 17, 9, 1)
191: P_{8884} = (19, 20, 7, 1)
                                                                245: P_{10842} = (25, 17, 9, 1)
192: P_{9042} = (17, 25, 7, 1)
                                                                246: P_{10885} = (4, 19, 9, 1)
193: P_{9045} = (20, 25, 7, 1)
                                                                247: P_{10908} = (27, 19, 9, 1)
194: P_{9062} = (5, 26, 7, 1)
                                                                248: P_{11013} = (4, 23, 9, 1)
195: P_{9066} = (9, 26, 7, 1)
                                                                249: P_{11035} = (26, 23, 9, 1)
196: P_{9168} = (15, 29, 7, 1)
                                                                250: P_{11092} = (19, 25, 9, 1)
197: P_{9175} = (22, 29, 7, 1)
                                                                251: P_{11101} = (28, 25, 9, 1)
198: P_{9222} = (5, 31, 7, 1)
                                                                252: P_{11217} = (16, 29, 9, 1)
199: P_{9235} = (18, 31, 7, 1)
                                                                253: P_{11231} = (30, 29, 9, 1)
200: P_{9325} = (12, 2, 8, 1)
                                                                254: P_{11405} = (12, 3, 10, 1)
201: P_{9341} = (28, 2, 8, 1)
                                                                255: P_{11411} = (18, 3, 10, 1)
202: P_{9427} = (18, 5, 8, 1)
                                                                256: P_{11448} = (23, 4, 10, 1)
203: P_{9440} = (31, 5, 8, 1)
                                                                257: P_{11451} = (26, 4, 10, 1)
                                                                258: P_{11535} = (14, 7, 10, 1)
204: P_{9508} = (3, 8, 8, 1)
205: P_{9558} = (21, 9, 8, 1)
                                                                259: P_{11550} = (29, 7, 10, 1)
206: P_{9560} = (23, 9, 8, 1)
                                                                260: P_{11599} = (14, 9, 10, 1)
207: P_{9604} = (3, 11, 8, 1)
                                                                261: P_{11615} = (30, 9, 10, 1)
208: P_{9618} = (17, 11, 8, 1)
                                                                262: P_{11622} = (5, 10, 10, 1)
209: P_{9653} = (20, 12, 8, 1)
                                                                263: P_{11673} = (24, 11, 10, 1)
210: P_{9660} = (27, 12, 8, 1)
                                                                264: P_{11677} = (28, 11, 10, 1)
211: P_{9709} = (12, 14, 8, 1)
                                                                265: P_{11782} = (5, 15, 10, 1)
212: P_{9716} = (19, 14, 8, 1)
                                                                266: P_{11789} = (12, 15, 10, 1)
213: P_{9835} = (10, 18, 8, 1)
                                                                267: P_{11850} = (9, 17, 10, 1)
214: P_{9839} = (14, 18, 8, 1)
                                                                268: P_{11859} = (18, 17, 10, 1)
215: P_{10003} = (18, 23, 8, 1)
                                                                269: P_{11928} = (23, 19, 10, 1)
216: P_{10012} = (27, 23, 8, 1)
                                                                270: P_{11929} = (24, 19, 10, 1)
217: P_{10027} = (10, 24, 8, 1)
                                                                271: P_{12001} = (0, 22, 10, 1)
218: P_{10037} = (20, 24, 8, 1)
                                                                272: P_{12009} = (8, 22, 10, 1)
219: P_{10098} = (17, 26, 8, 1)
                                                                273: P_{12061} = (28, 23, 10, 1)
220: P_{10112} = (31, 26, 8, 1)
                                                                274: P_{12063} = (30, 23, 10, 1)
221: P_{10159} = (14, 28, 8, 1)
                                                                275: P_{12067} = (2, 24, 10, 1)
222: P_{10166} = (21, 28, 8, 1)
                                                                276: P_{12074} = (9, 24, 10, 1)
                                                                277: P_{12131} = (2, 26, 10, 1)
223: P_{10177} = (0, 29, 8, 1)
224: P_{10196} = (19, 29, 8, 1)
                                                                278: P_{12158} = (29, 26, 10, 1)
225: P_{10232} = (23, 30, 8, 1)
                                                                279: P_{12265} = (8, 30, 10, 1)
226: P_{10237} = (28, 30, 8, 1)
                                                                280: P_{12283} = (26, 30, 10, 1)
227: P_{10337} = (0, 2, 9, 1)
                                                                281: P_{12449} = (0, 4, 11, 1)
228: P_{10355} = (18, 2, 9, 1)
                                                                282: P_{12458} = (9, 4, 11, 1)
229: P_{10374} = (5, 3, 9, 1)
                                                                283: P_{12498} = (17, 5, 11, 1)
230: P_{10399} = (30, 3, 9, 1)
                                                                284: P_{12500} = (19, 5, 11, 1)
231: P_{10453} = (20, 5, 9, 1)
                                                                285: P_{12521} = (8, 6, 11, 1)
232: P_{10461} = (28, 5, 9, 1)
                                                                286: P_{12536} = (23, 6, 11, 1)
233: P_{10470} = (5, 6, 9, 1)
                                                                287: P_{12579} = (2, 8, 11, 1)
234: P_{10487} = (22, 6, 9, 1)
                                                                288: P_{12593} = (16, 8, 11, 1)
235: P_{10554} = (25, 8, 9, 1)
                                                                289: P_{12643} = (2, 10, 11, 1)
236: P_{10556} = (27, 8, 9, 1)
                                                                290: P_{12647} = (6, 10, 11, 1)
237: P_{10564} = (3, 9, 9, 1)
                                                                291: P_{12678} = (5, 11, 11, 1)
238: P_{10596} = (3, 10, 9, 1)
                                                                292: P_{12711} = (6, 12, 11, 1)
239: P_{10612} = (19, 10, 9, 1)
                                                                293: P_{12734} = (29, 12, 11, 1)
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294: P_{12746} = (9, 13, 11, 1)
                                                                348: P_{15055} = (14, 21, 13, 1)
295: P_{12762} = (25, 13, 11, 1)
                                                                349: P_{15069} = (28, 21, 13, 1)
296: P_{12774} = (5, 14, 11, 1)
                                                                350: P_{15112} = (7, 23, 13, 1)
297: P_{12777} = (8, 14, 11, 1)
                                                                351: P_{15120} = (15, 23, 13, 1)
298: P_{12888} = (23, 17, 11, 1)
                                                                352: P_{15143} = (6, 24, 13, 1)
299: P_{12894} = (29, 17, 11, 1)
                                                                353: P_{15152} = (15, 24, 13, 1)
300: P_{12978} = (17, 20, 11, 1)
                                                                354: P_{15178} = (9, 25, 13, 1)
301: P_{12986} = (25, 20, 11, 1)
                                                                355: P_{15182} = (13, 25, 13, 1)
302: P_{13038} = (13, 22, 11, 1)
                                                                356: P_{15205} = (4, 26, 13, 1)
303: P_{13044} = (19, 22, 11, 1)
                                                                357: P_{15224} = (23, 26, 13, 1)
304: P_{13092} = (3, 24, 11, 1)
                                                                358: P_{15247} = (14, 27, 13, 1)
305: P_{13105} = (16, 24, 11, 1)
                                                                359: P_{15249} = (16, 27, 13, 1)
306: P_{13188} = (3, 27, 11, 1)
                                                                360: P_{15333} = (4, 30, 13, 1)
307: P_{13198} = (13, 27, 11, 1)
                                                                361: P_{15335} = (6, 30, 13, 1)
308: P_{13417} = (8, 2, 12, 1)
                                                                362: P_{15383} = (22, 31, 13, 1)
309: P_{13425} = (16, 2, 12, 1)
                                                                363: P_{15386} = (25, 31, 13, 1)
                                                                364: P_{15493} = (4, 3, 14, 1)
310: P_{13455} = (14, 3, 12, 1)
311: P_{13467} = (26, 3, 12, 1)
                                                                365: P_{15511} = (22, 3, 14, 1)
312: P_{13476} = (3, 4, 12, 1)
                                                                366: P_{15562} = (9, 5, 14, 1)
313: P_{13495} = (22, 4, 12, 1)
                                                                367: P_{15579} = (26, 5, 14, 1)
314: P_{13507} = (2, 5, 12, 1)
                                                                368: P_{15621} = (4, 7, 14, 1)
315: P_{13532} = (27, 5, 12, 1)
                                                                369: P_{15628} = (11, 7, 14, 1)
316: P_{13571} = (2,7,12,1)
                                                                370: P_{15656} = (7, 8, 14, 1)
317: P_{13572} = (3, 7, 12, 1)
                                                                371: P_{15673} = (24, 8, 14, 1)
318: P_{13650} = (17, 9, 12, 1)
                                                                372: P_{15764} = (19, 11, 14, 1)
319: P_{13651} = (18, 9, 12, 1)
                                                                373: P_{15775} = (30, 11, 14, 1)
320: P_{13673} = (8, 10, 12, 1)
                                                                374: P_{15786} = (9, 12, 14, 1)
321: P_{13696} = (31, 10, 12, 1)
                                                                375: P_{15788} = (11, 12, 14, 1)
322: P_{13752} = (23, 12, 12, 1)
                                                                376: P_{15858} = (17, 14, 14, 1)
323: P_{13775} = (14, 13, 12, 1)
                                                                377: P_{15880} = (7, 15, 14, 1)
324: P_{13785} = (24, 13, 12, 1)
                                                                378: P_{15896} = (23, 15, 14, 1)
325: P_{13937} = (16, 18, 12, 1)
                                                                379: P_{15908} = (3, 16, 14, 1)
326: P_{13943} = (22, 18, 12, 1)
                                                                380: P_{15929} = (24, 16, 14, 1)
327: P_{14041} = (24, 21, 12, 1)
                                                                381: P_{16004} = (3, 19, 14, 1)
                                                                382: P_{16011} = (10, 19, 14, 1)
328: P_{14048} = (31, 21, 12, 1)
                                                                383: P_{16087} = (22, 21, 14, 1)
329: P_{14113} = (0, 24, 12, 1)
330: P_{14130} = (17, 24, 12, 1)
                                                                384: P_{16095} = (30, 21, 14, 1)
331: P_{14152} = (7, 25, 12, 1)
                                                                385: P_{16180} = (19, 24, 14, 1)
332: P_{14171} = (26, 25, 12, 1)
                                                                386: P_{16184} = (23, 24, 14, 1)
333: P_{14227} = (18, 27, 12, 1)
                                                                387: P_{16193} = (0, 25, 14, 1)
334: P_{14232} = (23, 27, 12, 1)
                                                                388: P_{16203} = (10, 25, 14, 1)
335: P_{14312} = (7, 30, 12, 1)
                                                                389: P_{16402} = (17, 31, 14, 1)
336: P_{14332} = (27, 30, 12, 1)
                                                                390: P_{16411} = (26, 31, 14, 1)
337: P_{14579} = (18, 6, 13, 1)
                                                                391: P_{16486} = (5, 2, 15, 1)
338: P_{14586} = (25, 6, 13, 1)
                                                                392: P_{16508} = (27, 2, 15, 1)
339: P_{14679} = (22, 9, 13, 1)
                                                                393: P_{16646} = (5, 7, 15, 1)
340: P_{14685} = (28, 9, 13, 1)
                                                                394: P_{16654} = (13, 7, 15, 1)
341: P_{14721} = (0, 11, 13, 1)
                                                                395: P_{16741} = (4, 10, 15, 1)
342: P_{14737} = (16, 11, 13, 1)
                                                                396: P_{16750} = (13, 10, 15, 1)
343: P_{14808} = (23, 13, 13, 1)
                                                                397: P_{16823} = (22, 12, 15, 1)
344: P_{14888} = (7, 16, 13, 1)
                                                                398: P_{16825} = (24, 12, 15, 1)
345: P_{14890} = (9, 16, 13, 1)
                                                                399: P_{16869} = (4, 14, 15, 1)
346: P_{15022} = (13, 20, 13, 1)
                                                                400: P_{16885} = (20, 14, 15, 1)
347: P_{15027} = (18, 20, 13, 1)
                                                                401: P_{16914} = (17, 15, 15, 1)
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402: P_{16929} = (0, 16, 15, 1)
                                                                456: P_{18937} = (24, 14, 17, 1)
403: P_{16940} = (11, 16, 15, 1)
                                                                457: P_{18987} = (10, 16, 17, 1)
404: P_{16969} = (8, 17, 15, 1)
                                                                458: P_{19000} = (23, 16, 17, 1)
405: P_{16973} = (12, 17, 15, 1)
                                                                459: P_{19037} = (28, 17, 17, 1)
406: P_{17067} = (10, 20, 15, 1)
                                                                460: P_{19046} = (5, 18, 17, 1)
407: P_{17081} = (24, 20, 15, 1)
                                                                461: P_{19072} = (31, 18, 17, 1)
408: P_{17225} = (8, 25, 15, 1)
                                                                462: P_{19181} = (12, 22, 17, 1)
409: P_{17244} = (27, 25, 15, 1)
                                                                463: P_{19193} = (24, 22, 17, 1)
410: P_{17269} = (20, 26, 15, 1)
                                                                464: P_{19201} = (0, 23, 17, 1)
411: P_{17271} = (22, 26, 15, 1)
                                                                465: P_{19206} = (5, 23, 17, 1)
412: P_{17287} = (6, 27, 15, 1)
                                                                466: P_{19259} = (26, 24, 17, 1)
413: P_{17292} = (11, 27, 15, 1)
                                                                467: P_{19260} = (27, 24, 17, 1)
414: P_{17351} = (6, 29, 15, 1)
                                                                468: P_{19307} = (10, 26, 17, 1)
415: P_{17357} = (12, 29, 15, 1)
                                                                469: P_{19309} = (12, 26, 17, 1)
416: P_{17387} = (10, 30, 15, 1)
                                                                470: P_{19333} = (4, 27, 17, 1)
417: P_{17394} = (17, 30, 15, 1)
                                                                471: P_{19348} = (19, 27, 17, 1)
418: P_{17587} = (18, 4, 16, 1)
                                                                472: P_{19461} = (4, 31, 17, 1)
419: P_{17593} = (24, 4, 16, 1)
                                                                473: P_{19486} = (29, 31, 17, 1)
420: P_{17649} = (16, 6, 16, 1)
                                                                474: P_{19591} = (6, 3, 18, 1)
421: P_{17664} = (31, 6, 16, 1)
                                                                475: P_{19606} = (21, 3, 18, 1)
422: P_{17675} = (10, 7, 16, 1)
                                                                476: P_{19646} = (29, 4, 18, 1)
423: P_{17686} = (21, 7, 16, 1)
                                                                477: P_{19648} = (31, 4, 18, 1)
424: P_{17729} = (0, 9, 16, 1)
                                                                478: P_{19655} = (6, 5, 18, 1)
425: P_{17733} = (4, 9, 16, 1)
                                                                479: P_{19671} = (22, 5, 18, 1)
426: P_{17827} = (2, 12, 16, 1)
                                                                480: P_{19771} = (26, 8, 18, 1)
427: P_{17853} = (28, 12, 16, 1)
                                                                481: P_{19775} = (30, 8, 18, 1)
428: P_{17861} = (4, 13, 16, 1)
                                                                482: P_{20005} = (4, 16, 18, 1)
429: P_{17867} = (10, 13, 16, 1)
                                                                483: P_{20013} = (12, 16, 18, 1)
430: P_{17891} = (2, 14, 16, 1)
                                                                484: P_{20091} = (26, 18, 18, 1)
431: P_{17914} = (25, 14, 16, 1)
                                                                485: P_{20110} = (13, 19, 18, 1)
432: P_{17943} = (22, 15, 16, 1)
                                                                486: P_{20119} = (22, 19, 18, 1)
433: P_{17950} = (29, 15, 16, 1)
                                                                487: P_{20133} = (4, 20, 18, 1)
434: P_{17981} = (28, 16, 16, 1)
                                                                488: P_{20143} = (14, 20, 18, 1)
435: P_{18038} = (21, 18, 16, 1)
                                                                489: P_{20214} = (21, 22, 18, 1)
436: P_{18046} = (29, 18, 16, 1)
                                                                490: P_{20223} = (30, 22, 18, 1)
437: P_{18161} = (16, 22, 16, 1)
                                                                491: P_{20292} = (3, 25, 18, 1)
438: P_{18163} = (18, 22, 16, 1)
                                                                492: P_{20318} = (29, 25, 18, 1)
439: P_{18188} = (11, 23, 16, 1)
                                                                493: P_{20324} = (3, 26, 18, 1)
440: P_{18202} = (25, 23, 16, 1)
                                                                494: P_{20335} = (14, 26, 18, 1)
441: P_{18263} = (22, 25, 16, 1)
                                                                495: P_{20353} = (0, 27, 18, 1)
442: P_{18272} = (31, 25, 16, 1)
                                                                496: P_{20384} = (31, 27, 18, 1)
443: P_{18348} = (11, 28, 16, 1)
                                                                497: P_{20387} = (2, 28, 18, 1)
444: P_{18361} = (24, 28, 16, 1)
                                                                498: P_{20397} = (12, 28, 18, 1)
445: P_{18555} = (26, 2, 17, 1)
                                                                499: P_{20451} = (2, 30, 18, 1)
446: P_{18558} = (29, 2, 17, 1)
                                                                500: P_{20462} = (13, 30, 18, 1)
447: P_{18574} = (13, 3, 17, 1)
                                                                501: P_{20624} = (15, 3, 19, 1)
448: P_{18588} = (27, 3, 17, 1)
                                                                502: P_{20640} = (31, 3, 19, 1)
449: P_{18704} = (15, 7, 17, 1)
                                                                503: P_{20806} = (5, 9, 19, 1)
450: P_{18712} = (23, 7, 17, 1)
                                                                504: P_{20827} = (26, 9, 19, 1)
451: P_{18736} = (15, 8, 17, 1)
                                                                505: P_{20850} = (17, 10, 19, 1)
452: P_{18740} = (19, 8, 17, 1)
                                                                506: P_{20863} = (30, 10, 19, 1)
453: P_{18909} = (28, 13, 17, 1)
                                                                507: P_{20902} = (5, 12, 19, 1)
454: P_{18912} = (31, 13, 17, 1)
                                                                508: P_{20912} = (15, 12, 19, 1)
455: P_{18926} = (13, 14, 17, 1)
                                                                509: P_{20982} = (21, 14, 19, 1)
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510: P_{20989} = (28, 14, 19, 1)
                                                                564: P_{22880} = (31, 9, 21, 1)
511: P_{21063} = (6, 17, 19, 1)
                                                                565: P_{22893} = (12, 10, 21, 1)
512: P_{21070} = (13, 17, 19, 1)
                                                                566: P_{22907} = (26, 10, 21, 1)
513: P_{21096} = (7, 18, 19, 1)
                                                                567: P_{22917} = (4, 11, 21, 1)
514: P_{21117} = (28, 18, 19, 1)
                                                                568: P_{22920} = (7, 11, 21, 1)
515: P_{21147} = (26, 19, 19, 1)
                                                                569: P_{22945} = (0, 12, 21, 1)
516: P_{21153} = (0, 20, 19, 1)
                                                                570: P_{22952} = (7, 12, 21, 1)
517: P_{21183} = (30, 20, 19, 1)
                                                                571: P_{23045} = (4, 15, 21, 1)
518: P_{21192} = (7, 21, 19, 1)
                                                                572: P_{23066} = (25, 15, 21, 1)
519: P_{21195} = (10, 21, 19, 1)
                                                                573: P_{23086} = (13, 16, 21, 1)
520: P_{21255} = (6, 23, 19, 1)
                                                                574: P_{23099} = (26, 16, 21, 1)
521: P_{21257} = (8, 23, 19, 1)
                                                                575: P_{23146} = (9, 18, 21, 1)
522: P_{21394} = (17, 27, 19, 1)
                                                                576: P_{23154} = (17, 18, 21, 1)
523: P_{21398} = (21, 27, 19, 1)
                                                                577: P_{23241} = (8, 21, 21, 1)
524: P_{21422} = (13, 28, 19, 1)
                                                                578: P_{23290} = (25, 22, 21, 1)
525: P_{21440} = (31, 28, 19, 1)
                                                                579: P_{23296} = (31, 22, 21, 1)
526: P_{21513} = (8, 31, 19, 1)
                                                                580: P_{23411} = (18, 26, 21, 1)
                                                                581: P_{23412} = (19, 26, 21, 1)
527: P_{21515} = (10, 31, 19, 1)
                                                                582: P_{23434} = (9, 27, 21, 1)
528: P_{21643} = (10, 3, 20, 1)
529: P_{21652} = (19, 3, 20, 1)
                                                                583: P_{23454} = (29, 27, 21, 1)
530: P_{21679} = (14, 4, 20, 1)
                                                                584: P_{23497} = (8, 29, 21, 1)
531: P_{21685} = (20, 4, 20, 1)
                                                                585: P_{23502} = (13, 29, 21, 1)
532: P_{21744} = (15, 6, 20, 1)
                                                                586: P_{23861} = (20, 8, 22, 1)
533: P_{21753} = (24, 6, 20, 1)
                                                                587: P_{23862} = (21, 8, 22, 1)
534: P_{21786} = (25, 7, 20, 1)
                                                                588: P_{23880} = (7, 9, 22, 1)
535: P_{21787} = (26, 7, 20, 1)
                                                                589: P_{23889} = (16, 9, 22, 1)
536: P_{21799} = (6, 8, 20, 1)
                                                                590: P_{24020} = (19, 13, 22, 1)
537: P_{21816} = (23, 8, 20, 1)
                                                                591: P_{24023} = (22, 13, 22, 1)
538: P_{21835} = (10, 9, 20, 1)
                                                                592: P_{24040} = (7, 14, 22, 1)
                                                                593: P_{24062} = (29, 14, 22, 1)
539: P_{21840} = (15, 9, 20, 1)
540: P_{21871} = (14, 10, 20, 1)
                                                                594: P_{24083} = (18, 15, 22, 1)
541: P_{21875} = (18, 10, 20, 1)
                                                                595: P_{24095} = (30, 15, 22, 1)
542: P_{21985} = (0, 14, 20, 1)
                                                                596: P_{24139} = (10, 17, 22, 1)
543: P_{21991} = (6, 14, 20, 1)
                                                                597: P_{24159} = (30, 17, 22, 1)
544: P_{22068} = (19, 16, 20, 1)
                                                                598: P_{24193} = (0, 19, 22, 1)
545: P_{22069} = (20, 16, 20, 1)
                                                                599: P_{24222} = (29, 19, 22, 1)
546: P_{22185} = (8, 20, 20, 1)
                                                                600: P_{24268} = (11, 21, 22, 1)
547: P_{22309} = (4, 24, 20, 1)
                                                                601: P_{24270} = (13, 21, 22, 1)
548: P_{22323} = (18, 24, 20, 1)
                                                                602: P_{24303} = (14, 22, 22, 1)
549: P_{22437} = (4, 28, 20, 1)
                                                                603: P_{24366} = (13, 24, 22, 1)
550: P_{22441} = (8, 28, 20, 1)
                                                                604: P_{24367} = (14, 24, 22, 1)
551: P_{22467} = (2, 29, 20, 1)
                                                                605: P_{24390} = (5, 25, 22, 1)
552: P_{22491} = (26, 29, 20, 1)
                                                                606: P_{24401} = (16, 25, 22, 1)
553: P_{22521} = (24, 30, 20, 1)
                                                                607: P_{24459} = (10, 27, 22, 1)
554: P_{22522} = (25, 30, 20, 1)
                                                                608: P_{24471} = (22, 27, 22, 1)
555: P_{22531} = (2, 31, 20, 1)
                                                                609: P_{24486} = (5, 28, 22, 1)
556: P_{22552} = (23, 31, 20, 1)
                                                                610: P_{24501} = (20, 28, 22, 1)
557: P_{22668} = (11, 3, 21, 1)
                                                                611: P_{24531} = (18, 29, 22, 1)
558: P_{22674} = (17, 3, 21, 1)
                                                                612: P_{24534} = (21, 29, 22, 1)
559: P_{22765} = (12, 6, 21, 1)
                                                                613: P_{24556} = (11, 30, 22, 1)
560: P_{22782} = (29, 6, 21, 1)
                                                                614: P_{24564} = (19, 30, 22, 1)
561: P_{22828} = (11, 8, 21, 1)
                                                                615: P_{24705} = (0, 3, 23, 1)
562: P_{22835} = (18, 8, 21, 1)
                                                                616: P_{24733} = (28, 3, 23, 1)
563: P_{22868} = (19, 9, 21, 1)
                                                                617: P_{24752} = (15, 4, 23, 1)
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618: P_{24762} = (25, 4, 23, 1)
                                                                672: P_{26639} = (14, 31, 24, 1)
619: P_{24779} = (10, 5, 23, 1)
                                                                673: P_{26735} = (14, 2, 25, 1)
620: P_{24780} = (11, 5, 23, 1)
                                                                674: P_{26746} = (25, 2, 25, 1)
621: P_{24810} = (9, 6, 23, 1)
                                                                675: P_{26862} = (13, 6, 25, 1)
622: P_{24821} = (20, 6, 23, 1)
                                                                676: P_{26866} = (17, 6, 25, 1)
623: P_{24976} = (15, 11, 23, 1)
                                                                677: P_{26908} = (27, 7, 25, 1)
624: P_{24987} = (26, 11, 23, 1)
                                                                678: P_{26911} = (30, 7, 25, 1)
625: P_{25068} = (11, 14, 23, 1)
                                                                679: P_{26913} = (0, 8, 25, 1)
626: P_{25088} = (31, 14, 23, 1)
                                                                680: P_{26935} = (22, 8, 25, 1)
627: P_{25098} = (9, 15, 23, 1)
                                                                681: P_{27005} = (28, 10, 25, 1)
628: P_{25099} = (10, 15, 23, 1)
                                                                682: P_{27006} = (29, 10, 25, 1)
629: P_{25179} = (26, 17, 23, 1)
                                                                683: P_{27022} = (13, 11, 25, 1)
630: P_{25184} = (31, 17, 23, 1)
                                                                684: P_{27030} = (21, 11, 25, 1)
631: P_{25198} = (13, 18, 23, 1)
                                                                685: P_{27055} = (14, 12, 25, 1)
632: P_{25205} = (20, 18, 23, 1)
                                                                686: P_{27060} = (19, 12, 25, 1)
633: P_{25359} = (14, 23, 23, 1)
                                                                687: P_{27273} = (8, 19, 25, 1)
634: P_{25411} = (2, 25, 23, 1)
                                                                688: P_{27280} = (15, 19, 25, 1)
635: P_{25423} = (14, 25, 23, 1)
                                                                689: P_{27370} = (9, 22, 25, 1)
636: P_{25475} = (2, 27, 23, 1)
                                                                690: P_{27389} = (28, 22, 25, 1)
637: P_{25478} = (5, 27, 23, 1)
                                                                691: P_{27410} = (17, 23, 25, 1)
638: P_{25540} = (3, 29, 23, 1)
                                                                692: P_{27422} = (29, 23, 25, 1)
639: P_{25562} = (25, 29, 23, 1)
                                                                693: P_{27487} = (30, 25, 25, 1)
640: P_{25572} = (3, 30, 23, 1)
                                                                694: P_{27529} = (8, 27, 25, 1)
641: P_{25574} = (5, 30, 23, 1)
                                                                695: P_{27546} = (25, 27, 25, 1)
642: P_{25614} = (13, 31, 23, 1)
                                                                696: P_{27568} = (15, 28, 25, 1)
643: P_{25629} = (28, 31, 23, 1)
                                                                697: P_{27580} = (27, 28, 25, 1)
644: P_{25701} = (4, 2, 24, 1)
                                                                698: P_{27638} = (21, 30, 25, 1)
645: P_{25714} = (17, 2, 24, 1)
                                                                699: P_{27639} = (22, 30, 25, 1)
646: P_{25793} = (0, 5, 24, 1)
                                                                700: P_{27658} = (9, 31, 25, 1)
647: P_{25816} = (23, 5, 24, 1)
                                                                701: P_{27668} = (19, 31, 25, 1)
648: P_{25829} = (4, 6, 24, 1)
                                                                702: P_{27754} = (9, 2, 26, 1)
649: P_{25855} = (30, 6, 24, 1)
                                                                703: P_{27769} = (24, 2, 26, 1)
650: P_{25948} = (27, 9, 24, 1)
                                                                704: P_{27819} = (10, 4, 26, 1)
651: P_{25950} = (29, 9, 24, 1)
                                                                705: P_{27822} = (13, 4, 26, 1)
                                                                706: P_{27844} = (3, 5, 26, 1)
652: P_{26020} = (3, 12, 24, 1)
653: P_{26035} = (18, 12, 24, 1)
                                                                707: P_{27871} = (30, 5, 26, 1)
654: P_{26116} = (3, 15, 24, 1)
                                                                708: P_{27876} = (3, 6, 26, 1)
                                                                709: P_{27894} = (21, 6, 26, 1)
655: P_{26144} = (31, 15, 24, 1)
656: P_{26151} = (6, 16, 24, 1)
                                                                710: P_{27905} = (0, 7, 26, 1)
657: P_{26176} = (31, 16, 24, 1)
                                                                711: P_{27917} = (12, 7, 26, 1)
658: P_{26191} = (14, 17, 24, 1)
                                                                712: P_{27982} = (13, 9, 26, 1)
659: P_{26192} = (15, 17, 24, 1)
                                                                713: P_{27994} = (25, 9, 26, 1)
660: P_{26232} = (23, 18, 24, 1)
                                                                714: P_{28042} = (9, 11, 26, 1)
661: P_{26236} = (27, 18, 24, 1)
                                                                715: P_{28045} = (12, 11, 26, 1)
662: P_{26246} = (5, 19, 24, 1)
                                                                716: P_{28139} = (10, 14, 26, 1)
663: P_{26258} = (17, 19, 24, 1)
                                                                717: P_{28147} = (18, 14, 26, 1)
664: P_{26284} = (11, 20, 24, 1)
                                                                718: P_{28198} = (5, 16, 26, 1)
665: P_{26302} = (29, 20, 24, 1)
                                                                719: P_{28218} = (25, 16, 26, 1)
666: P_{26342} = (5, 22, 24, 1)
                                                                720: P_{28227} = (2, 17, 26, 1)
667: P_{26343} = (6, 22, 24, 1)
                                                                721: P_{28229} = (4, 17, 26, 1)
668: P_{26431} = (30, 24, 24, 1)
                                                                722: P_{28291} = (2, 19, 26, 1)
669: P_{26608} = (15, 30, 24, 1)
                                                                723: P_{28310} = (21, 19, 26, 1)
670: P_{26611} = (18, 30, 24, 1)
                                                                724: P_{28357} = (4, 21, 26, 1)
671: P_{26636} = (11, 31, 24, 1)
                                                                725: P_{28358} = (5, 21, 26, 1)
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726: P_{28537} = (24, 26, 26, 1)
                                                                780: P_{30535} = (6, 25, 28, 1)
727: P_{28552} = (7, 27, 26, 1)
                                                                781: P_{30547} = (18, 25, 28, 1)
728: P_{28575} = (30, 27, 26, 1)
                                                                782: P_{30561} = (0, 26, 28, 1)
729: P_{28584} = (7, 28, 26, 1)
                                                                783: P_{30582} = (21, 26, 28, 1)
730: P_{28595} = (18, 28, 26, 1)
                                                                784: P_{30635} = (10, 28, 28, 1)
731: P_{28782} = (13, 2, 27, 1)
                                                                785: P_{30727} = (6, 31, 28, 1)
732: P_{28799} = (30, 2, 27, 1)
                                                                786: P_{30737} = (16, 31, 28, 1)
733: P_{28817} = (16, 3, 27, 1)
                                                                787: P_{30921} = (8, 5, 29, 1)
734: P_{28825} = (24, 3, 27, 1)
                                                                788: P_{30927} = (14, 5, 29, 1)
735: P_{28908} = (11, 6, 27, 1)
                                                                789: P_{30986} = (9, 7, 29, 1)
736: P_{28924} = (27, 6, 27, 1)
                                                                790: P_{30993} = (16, 7, 29, 1)
737: P_{28949} = (20, 7, 27, 1)
                                                                791: P_{31093} = (20, 10, 29, 1)
738: P_{28960} = (31, 7, 27, 1)
                                                                792: P_{31097} = (24, 10, 29, 1)
739: P_{29080} = (23, 11, 27, 1)
                                                                793: P_{31119} = (14, 11, 29, 1)
740: P_{29082} = (25, 11, 27, 1)
                                                                794: P_{31136} = (31, 11, 29, 1)
741: P_{29132} = (11, 13, 27, 1)
                                                                795: P_{31177} = (8, 13, 29, 1)
742: P_{29142} = (21, 13, 27, 1)
                                                                796: P_{31198} = (29, 13, 29, 1)
                                                                797: P_{31210} = (9, 14, 29, 1)
743: P_{29185} = (0, 15, 27, 1)
744: P_{29198} = (13, 15, 27, 1)
                                                                798: P_{31231} = (30, 14, 29, 1)
745: P_{29287} = (6, 18, 27, 1)
                                                                799: P_{31294} = (29, 16, 29, 1)
746: P_{29306} = (25, 18, 27, 1)
                                                                800: P_{31295} = (30, 16, 29, 1)
747: P_{29329} = (16, 19, 27, 1)
                                                                801: P_{31333} = (4, 18, 29, 1)
748: P_{29333} = (20, 19, 27, 1)
                                                                802: P_{31353} = (24, 18, 29, 1)
749: P_{29351} = (6, 20, 27, 1)
                                                                803: P_{31367} = (6, 19, 29, 1)
750: P_{29354} = (9, 20, 27, 1)
                                                                804: P_{31368} = (7, 19, 29, 1)
751: P_{29494} = (21, 24, 27, 1)
                                                                805: P_{31400} = (7, 20, 29, 1)
                                                                806: P_{31424} = (31, 20, 29, 1)
752: P_{29504} = (31, 24, 27, 1)
753: P_{29593} = (24, 27, 27, 1)
                                                                807: P_{31428} = (3, 21, 29, 1)
754: P_{29624} = (23, 28, 27, 1)
                                                                808: P_{31431} = (6, 21, 29, 1)
755: P_{29631} = (30, 28, 27, 1)
                                                                809: P_{31460} = (3, 22, 29, 1)
756: P_{29642} = (9, 29, 27, 1)
                                                                810: P_{31461} = (4, 22, 29, 1)
757: P_{29660} = (27, 29, 27, 1)
                                                                811: P_{31499} = (10, 23, 29, 1)
758: P_{29804} = (11, 2, 28, 1)
                                                                812: P_{31505} = (16, 23, 29, 1)
759: P_{29815} = (22, 2, 28, 1)
                                                                813: P_{31691} = (10, 29, 29, 1)
760: P_{29833} = (8, 3, 28, 1)
                                                                814: P_{31713} = (0, 30, 29, 1)
                                                                815: P_{31733} = (20, 30, 29, 1)
761: P_{29834} = (9, 3, 28, 1)
762: P_{29901} = (12, 5, 28, 1)
                                                                816: P_{31953} = (16, 5, 30, 1)
                                                                817: P_{31962} = (25, 5, 30, 1)
763: P_{29904} = (15, 5, 28, 1)
764: P_{30028} = (11, 9, 28, 1)
                                                                818: P_{31969} = (0, 6, 30, 1)
765: P_{30029} = (12, 9, 28, 1)
                                                                819: P_{31983} = (14, 6, 30, 1)
766: P_{30058} = (9, 10, 28, 1)
                                                                820: P_{32009} = (8, 7, 30, 1)
                                                                821: P_{32025} = (24, 7, 30, 1)
767: P_{30064} = (15, 10, 28, 1)
768: P_{30089} = (8, 11, 28, 1)
                                                                822: P_{32038} = (5, 8, 30, 1)
769: P_{30099} = (18, 11, 28, 1)
                                                                823: P_{32047} = (14, 8, 30, 1)
770: P_{30148} = (3, 13, 28, 1)
                                                                824: P_{32104} = (7, 10, 30, 1)
                                                                825: P_{32118} = (21, 10, 30, 1)
771: P_{30172} = (27, 13, 28, 1)
772: P_{30180} = (3, 14, 28, 1)
                                                                826: P_{32198} = (5, 13, 30, 1)
773: P_{30203} = (26, 14, 28, 1)
                                                                827: P_{32200} = (7, 13, 30, 1)
774: P_{30225} = (16, 15, 28, 1)
                                                                828: P_{32265} = (8, 15, 30, 1)
775: P_{30230} = (21, 15, 28, 1)
                                                                829: P_{32276} = (19, 15, 30, 1)
776: P_{30391} = (22, 20, 28, 1)
                                                                830: P_{32324} = (3, 17, 30, 1)
777: P_{30395} = (26, 20, 28, 1)
                                                                831: P_{32332} = (11, 17, 30, 1)
778: P_{30443} = (10, 22, 28, 1)
                                                                832: P_{32356} = (3, 18, 30, 1)
779: P_{30460} = (27, 22, 28, 1)
                                                                833: P_{32365} = (12, 18, 30, 1)
```

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834: P_{32464} = (15, 21, 30, 1)
                                                                853: P_{33217} = (0, 13, 31, 1)
835: P_{32465} = (16, 21, 30, 1)
                                                                854: P_{33232} = (15, 13, 31, 1)
836: P_{32620} = (11, 26, 30, 1)
                                                                855: P_{33265} = (16, 14, 31, 1)
837: P_{32624} = (15, 26, 30, 1)
                                                                856: P_{33276} = (27, 14, 31, 1)
838: P_{32692} = (19, 28, 30, 1)
                                                                857: P_{33421} = (12, 19, 31, 1)
839: P_{32698} = (25, 28, 30, 1)
                                                                858: P_{33423} = (14, 19, 31, 1)
840: P_{32749} = (12, 30, 30, 1)
                                                                859: P_{33490} = (17, 21, 31, 1)
841: P_{32790} = (21, 31, 30, 1)
                                                                860: P_{33500} = (27, 21, 31, 1)
842: P_{32793} = (24, 31, 30, 1)
                                                                861: P_{33525} = (20, 22, 31, 1)
843: P_{32880} = (15, 2, 31, 1)
                                                                862: P_{33531} = (26, 22, 31, 1)
844: P_{32885} = (20, 2, 31, 1)
                                                                863: P_{33640} = (7, 26, 31, 1)
845: P_{32922} = (25, 3, 31, 1)
                                                                864: P_{33658} = (25, 26, 31, 1)
846: P_{32926} = (29, 3, 31, 1)
                                                                865: P_{33736} = (7, 29, 31, 1)
847: P_{32931} = (2, 4, 31, 1)
                                                                866: P_{33743} = (14, 29, 31, 1)
848: P_{32946} = (17, 4, 31, 1)
                                                                867: P_{33777} = (16, 30, 31, 1)
849: P_{32995} = (2, 6, 31, 1)
                                                                868: P_{33790} = (29, 30, 31, 1)
                                                                869: P_{33805} = (12, 31, 31, 1)
850: P_{33003} = (10, 6, 31, 1)
851: P_{33195} = (10, 12, 31, 1)
852: P_{33211} = (26, 12, 31, 1)
```

Line Intersection Graph

$ \begin{array}{r} 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \end{array} $	0	1	2	3	4	5	6	7
0	0	1	1	1	0	0	0	0
1	1	0	1	0	1	1	1	0
2	1	1	0	0	1	1	0	1
3	1	0	0	0	1	1	1	1
4	0	1	1	1	0	1	1	0
5	0	1	1	1	1	0	0	1
6	0	1	0	1	1	0	0	1
7	0	0	1	1	0	1	1	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3
in point	P_0	P_5	P_1

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_4	ℓ_5	ℓ_6
in point	P_0	P_2	P_2	P_2	P_{36}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_4	ℓ_5	ℓ_7
in point	P_5	P_2	P_2	P_2	P_{68}

 ${\bf Line~3~intersects}$

Line	ℓ_0	ℓ_4	ℓ_5	ℓ_6	ℓ_7
in point	P_1	P_{1091}	P_{1059}	P_{1091}	P_{1059}

Line 4 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_6
in point	P_2	P_2	P_{1091}	P_2	P_{1091}

Line 5 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_7
in point	P_2	P_2	P_{1059}	P_2	P_{1059}

Line 6 intersects

Line	ℓ_1	ℓ_3	ℓ_4	ℓ_7
in point	P_{36}	P_{1091}	P_{1091}	P_{2114}

Line 7 intersects

Line	ℓ_2	ℓ_3	ℓ_5	ℓ_6
in point	P_{68}	P_{1059}	P_{1059}	P_{2114}

The surface has 1121 points: Too many to print.