

Rank-265 over GF(16)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(16) is 35791391

General information

Number of lines	27
Number of points	369
Number of singular points	0
Number of Eckardt points	45
Number of double points	0
Number of single points	324
Number of points off lines	0
Number of Hesse planes	40
Number of axes	240
Type of points on lines	17^{27}
Type of lines on points	$3^{45}, 1^{324}$

Singular Points

The surface has 0 singular points:

The 27 Lines

The lines and their Pluecker coordinates are:

$$\begin{aligned}\ell_0 = a_1 &= \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \delta^5 \end{array} \right]_{69899} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 11 \end{array} \right]_{69899} = \mathbf{Pl}(0, 0, 0, 11, 0, 1)_{5431} \\ \ell_1 = a_2 &= \left[\begin{array}{cccc} 1 & \delta^5 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{array} \right]_{3260} = \left[\begin{array}{cccc} 1 & 11 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{array} \right]_{3260} = \mathbf{Pl}(0, 0, 1, 1, 10, 1)_{46146}\end{aligned}$$

$$\begin{aligned}
\ell_2 = a_3 &= \begin{bmatrix} 1 & 0 & \delta^9 & \delta^6 \\ 0 & 1 & \delta^{10} & \delta^{10} \end{bmatrix}_{67055} = \begin{bmatrix} 1 & 0 & 5 & 15 \\ 0 & 1 & 10 & 10 \end{bmatrix}_{67055} = \mathbf{Pl}(9, 13, 8, 3, 2, 1)_{15464} \\
\ell_3 = a_4 &= \begin{bmatrix} 1 & 0 & \delta^3 & \delta^{12} \\ 0 & 1 & \delta^5 & \delta^5 \end{bmatrix}_{15475} = \begin{bmatrix} 1 & 0 & 8 & 3 \\ 0 & 1 & 11 & 11 \end{bmatrix}_{15475} = \mathbf{Pl}(14, 7, 15, 5, 4, 1)_{25129} \\
\ell_4 = a_5 &= \begin{bmatrix} 1 & 0 & \delta^5 & \delta^{10} \\ 0 & 1 & 1 & 1 \end{bmatrix}_{46700} = \begin{bmatrix} 1 & 0 & 11 & 10 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{46700} = \mathbf{Pl}(11, 10, 10, 11, 10, 1)_{48646} \\
\ell_5 = a_6 &= \begin{bmatrix} 1 & 0 & \delta^4 & \delta^2 \\ 0 & 1 & \delta^{11} & \delta^6 \end{bmatrix}_{20182} = \begin{bmatrix} 1 & 0 & 9 & 4 \\ 0 & 1 & 13 & 15 \end{bmatrix}_{20182} = \mathbf{Pl}(11, 10, 4, 6, 4, 1)_{22861} \\
\ell_6 = b_1 &= \begin{bmatrix} 1 & 0 & \delta^2 & \delta^5 \\ 0 & 1 & \delta^{11} & \delta^6 \end{bmatrix}_{49393} = \begin{bmatrix} 1 & 0 & 4 & 11 \\ 0 & 1 & 13 & 15 \end{bmatrix}_{49393} = \mathbf{Pl}(8, 3, 3, 8, 9, 1)_{43138} \\
\ell_7 = b_2 &= \begin{bmatrix} 1 & 0 & \delta^2 & \delta^4 \\ 0 & 1 & \delta^6 & \delta^{11} \end{bmatrix}_{40627} = \begin{bmatrix} 1 & 0 & 4 & 9 \\ 0 & 1 & 15 & 13 \end{bmatrix}_{40627} = \mathbf{Pl}(8, 3, 6, 4, 5, 1)_{27283} \\
\ell_8 = b_3 &= \begin{bmatrix} 1 & 0 & \delta^2 & \delta \\ 0 & 1 & \delta^{13} & \delta^3 \end{bmatrix}_{9962} = \begin{bmatrix} 1 & 0 & 4 & 2 \\ 0 & 1 & 6 & 8 \end{bmatrix}_{9962} = \mathbf{Pl}(10, 11, 2, 12, 2, 1)_{14235} \\
\ell_9 = b_4 &= \begin{bmatrix} 1 & 0 & \delta^8 & \delta^4 \\ 0 & 1 & \delta^7 & \delta^{12} \end{bmatrix}_{43189} = \begin{bmatrix} 1 & 0 & 14 & 9 \\ 0 & 1 & 7 & 3 \end{bmatrix}_{43189} = \mathbf{Pl}(10, 11, 9, 13, 9, 1)_{44415} \\
\ell_{10} = b_5 &= \begin{bmatrix} 1 & 0 & \delta^5 & \delta^8 \\ 0 & 1 & \delta^9 & \delta^{14} \end{bmatrix}_{64352} = \begin{bmatrix} 1 & 0 & 11 & 14 \\ 0 & 1 & 5 & 12 \end{bmatrix}_{64352} = \mathbf{Pl}(5, 15, 3, 8, 5, 1)_{26695} \\
\ell_{11} = b_6 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{69889} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{69889} = \mathbf{Pl}(0, 0, 0, 1, 0, 1)_{5121} \\
\ell_{12} = c_{12} &= \begin{bmatrix} 1 & 0 & \delta^5 & \delta^2 \\ 0 & 1 & \delta^6 & \delta^{11} \end{bmatrix}_{20698} = \begin{bmatrix} 1 & 0 & 11 & 4 \\ 0 & 1 & 15 & 13 \end{bmatrix}_{20698} = \mathbf{Pl}(15, 5, 8, 3, 15, 1)_{68570} \\
\ell_{13} = c_{13} &= \begin{bmatrix} 1 & 0 & \delta & \delta^{10} \\ 0 & 1 & \delta^{13} & \delta^3 \end{bmatrix}_{44360} = \begin{bmatrix} 1 & 0 & 2 & 10 \\ 0 & 1 & 6 & 8 \end{bmatrix}_{44360} = \mathbf{Pl}(5, 15, 15, 5, 4, 1)_{25180} \\
\ell_{14} = c_{14} &= \begin{bmatrix} 1 & 0 & \delta^4 & \delta^{10} \\ 0 & 1 & \delta^7 & \delta^{12} \end{bmatrix}_{46192} = \begin{bmatrix} 1 & 0 & 9 & 10 \\ 0 & 1 & 7 & 3 \end{bmatrix}_{46192} = \mathbf{Pl}(15, 5, 5, 15, 14, 1)_{63785} \\
\ell_{15} = c_{15} &= \begin{bmatrix} 1 & 0 & \delta^8 & \delta \\ 0 & 1 & \delta^9 & \delta^{14} \end{bmatrix}_{12755} = \begin{bmatrix} 1 & 0 & 14 & 2 \\ 0 & 1 & 5 & 12 \end{bmatrix}_{12755} = \mathbf{Pl}(3, 8, 7, 14, 15, 1)_{68363} \\
\ell_{16} = c_{16} &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \delta^{10} \end{bmatrix}_{69898} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{69898} = \mathbf{Pl}(0, 0, 0, 10, 0, 1)_{5400} \\
\ell_{17} = c_{23} &= \begin{bmatrix} 1 & 0 & \delta & \delta^2 \\ 0 & 1 & \delta^3 & \delta^{13} \end{bmatrix}_{18122} = \begin{bmatrix} 1 & 0 & 2 & 4 \\ 0 & 1 & 8 & 6 \end{bmatrix}_{18122} = \mathbf{Pl}(5, 15, 12, 2, 3, 1)_{20560} \\
\ell_{18} = c_{24} &= \begin{bmatrix} 1 & 0 & \delta^4 & \delta^8 \\ 0 & 1 & \delta^{12} & \delta^7 \end{bmatrix}_{63724} = \begin{bmatrix} 1 & 0 & 9 & 14 \\ 0 & 1 & 3 & 7 \end{bmatrix}_{63724} = \mathbf{Pl}(15, 5, 13, 9, 8, 1)_{41030} \\
\ell_{19} = c_{25} &= \begin{bmatrix} 1 & 0 & \delta^8 & \delta^5 \\ 0 & 1 & \delta^{14} & \delta^9 \end{bmatrix}_{51962} = \begin{bmatrix} 1 & 0 & 14 & 11 \\ 0 & 1 & 12 & 5 \end{bmatrix}_{51962} = \mathbf{Pl}(3, 8, 8, 3, 2, 1)_{15473} \\
\ell_{20} = c_{26} &= \begin{bmatrix} 1 & \delta^{10} & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2987} = \begin{bmatrix} 1 & 10 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2987} = \mathbf{Pl}(0, 0, 1, 1, 11, 1)_{50226} \\
\ell_{21} = c_{34} &= \begin{bmatrix} 1 & 0 & \delta & \delta^8 \\ 0 & 1 & \delta^{14} & \delta^9 \end{bmatrix}_{61790} = \begin{bmatrix} 1 & 0 & 2 & 14 \\ 0 & 1 & 12 & 5 \end{bmatrix}_{61790} = \mathbf{Pl}(11, 10, 14, 7, 14, 1)_{65686} \\
\ell_{22} = c_{35} &= \begin{bmatrix} 1 & 0 & \delta^{10} & \delta^4 \\ 0 & 1 & \delta^{12} & \delta^7 \end{bmatrix}_{42157} = \begin{bmatrix} 1 & 0 & 10 & 9 \\ 0 & 1 & 3 & 7 \end{bmatrix}_{42157} = \mathbf{Pl}(3, 8, 15, 5, 3, 1)_{21143}
\end{aligned}$$

$$\begin{aligned}
\ell_{23} = c_{36} &= \begin{bmatrix} 1 & 0 & \delta^6 & \delta^9 \\ 0 & 1 & \delta^{10} & \delta^{10} \end{bmatrix}_{26105} = \begin{bmatrix} 1 & 0 & 15 & 5 \\ 0 & 1 & 10 & 10 \end{bmatrix}_{26105} = \mathbf{PI}(2, 12, 3, 8, 9, 1)_{43042} \\
\ell_{24} = c_{45} &= \begin{bmatrix} 1 & 0 & \delta^{10} & \delta \\ 0 & 1 & \delta^3 & \delta^{13} \end{bmatrix}_{11570} = \begin{bmatrix} 1 & 0 & 10 & 2 \\ 0 & 1 & 8 & 6 \end{bmatrix}_{11570} = \mathbf{PI}(8, 3, 5, 15, 8, 1)_{39463} \\
\ell_{25} = c_{46} &= \begin{bmatrix} 1 & 0 & \delta^{12} & \delta^3 \\ 0 & 1 & \delta^5 & \delta^5 \end{bmatrix}_{35950} = \begin{bmatrix} 1 & 0 & 3 & 8 \\ 0 & 1 & 11 & 11 \end{bmatrix}_{35950} = \mathbf{PI}(4, 6, 5, 15, 14, 1)_{63969} \\
\ell_{26} = c_{56} &= \begin{bmatrix} 1 & 0 & \delta^{10} & \delta^5 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{50795} = \begin{bmatrix} 1 & 0 & 10 & 11 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{50795} = \mathbf{PI}(10, 11, 11, 10, 11, 1)_{52920}
\end{aligned}$$

Rank of lines: (69899, 3260, 67055, 15475, 46700, 20182, 49393, 40627, 9962, 43189, 64352, 69889, 20698, 44360, 46192, 12755, 69898, 18122, 63724, 51962, 2987, 61790, 42157, 26105, 11570, 35950, 50795)

Rank of points on Klein quadric: (5431, 46146, 15464, 25129, 48646, 22861, 43138, 27283, 14235, 44415, 26695, 5121, 68570, 25180, 63785, 68363, 5400, 20560, 41030, 15473, 50226, 65686, 21143, 43042, 39463, 63969, 52920)

Eckardt Points

The surface has 45 Eckardt points:

- 0 : $E_{16} = a_1 \cap b_6 \cap c_{16} = P_1 = \mathbf{P}(0, 1, 0, 0) = \mathbf{P}(0, 1, 0, 0)$,
- 1 : $E_{26} = a_2 \cap b_6 \cap c_{26} = P_{530} = \mathbf{P}(0, 0, 1, 1) = \mathbf{P}(0, 0, 1, 1)$,
- 2 : $E_{56} = a_5 \cap b_6 \cap c_{56} = P_{546} = \mathbf{P}(0, 1, 1, 1) = \mathbf{P}(0, 1, 1, 1)$,
- 3 : $E_{62} = a_6 \cap b_2 \cap c_{26} = P_{581} = \mathbf{P}(\delta^2, \delta^{12}, 1, 1) = \mathbf{P}(4, 3, 1, 1)$,
- 4 : $E_{24} = a_2 \cap b_4 \cap c_{24} = P_{618} = \mathbf{P}(\delta^4, \delta^9, 1, 1) = \mathbf{P}(9, 5, 1, 1)$,
- 5 : $E_{25} = a_2 \cap b_5 \cap c_{25} = P_{639} = \mathbf{P}(\delta^8, \delta^{13}, 1, 1) = \mathbf{P}(14, 6, 1, 1)$,
- 6 : $E_{21} = a_2 \cap b_1 \cap c_{12} = P_{645} = \mathbf{P}(\delta^2, \delta^7, 1, 1) = \mathbf{P}(4, 7, 1, 1)$,
- 7 : $E_{15,26,34} = c_{15} \cap c_{26} \cap c_{34} = P_{671} = \mathbf{P}(\delta^8, \delta^3, 1, 1) = \mathbf{P}(14, 8, 1, 1)$,
- 8 : $E_{46} = a_4 \cap b_6 \cap c_{46} = P_{689} = \mathbf{P}(0, \delta^{10}, 1, 1) = \mathbf{P}(0, 10, 1, 1)$,
- 9 : $E_{36} = a_3 \cap b_6 \cap c_{36} = P_{705} = \mathbf{P}(0, \delta^5, 1, 1) = \mathbf{P}(0, 11, 1, 1)$,
- 10 : $E_{14,26,35} = c_{14} \cap c_{26} \cap c_{35} = P_{730} = \mathbf{P}(\delta^4, \delta^{14}, 1, 1) = \mathbf{P}(9, 12, 1, 1)$,
- 11 : $E_{13,26,45} = c_{13} \cap c_{26} \cap c_{45} = P_{739} = \mathbf{P}(\delta, \delta^{11}, 1, 1) = \mathbf{P}(2, 13, 1, 1)$,
- 12 : $E_{23} = a_2 \cap b_3 \cap c_{23} = P_{771} = \mathbf{P}(\delta, \delta^6, 1, 1) = \mathbf{P}(2, 15, 1, 1)$,
- 13 : $E_{14,25,36} = c_{14} \cap c_{25} \cap c_{36} = P_{933} = \mathbf{P}(\delta^2, \delta^4, \delta, 1) = \mathbf{P}(4, 9, 2, 1)$,
- 14 : $E_{34} = a_3 \cap b_4 \cap c_{34} = P_{997} = \mathbf{P}(\delta^2, \delta^{11}, \delta, 1) = \mathbf{P}(4, 13, 2, 1)$,
- 15 : $E_{52} = a_5 \cap b_2 \cap c_{25} = P_{1235} = \mathbf{P}(\delta, \delta^{14}, \delta^{12}, 1) = \mathbf{P}(2, 12, 3, 1)$,
- 16 : $E_{12,34,56} = c_{12} \cap c_{34} \cap c_{56} = P_{1267} = \mathbf{P}(\delta, \delta^8, \delta^{12}, 1) = \mathbf{P}(2, 14, 3, 1)$,
- 17 : $E_{43} = a_4 \cap b_3 \cap c_{34} = P_{1418} = \mathbf{P}(\delta^4, \delta^7, \delta^2, 1) = \mathbf{P}(9, 7, 4, 1)$,
- 18 : $E_{13,25,46} = c_{13} \cap c_{25} \cap c_{46} = P_{1530} = \mathbf{P}(\delta^4, \delta^8, \delta^2, 1) = \mathbf{P}(9, 14, 4, 1)$,
- 19 : $E_{53} = a_5 \cap b_3 \cap c_{35} = P_{1589} = \mathbf{P}(\delta^2, \delta, \delta^9, 1) = \mathbf{P}(4, 2, 5, 1)$,
- 20 : $E_{13,24,56} = c_{13} \cap c_{24} \cap c_{56} = P_{1653} = \mathbf{P}(\delta^2, \delta^{13}, \delta^9, 1) = \mathbf{P}(4, 6, 5, 1)$,
- 21 : $E_{15,23,46} = c_{15} \cap c_{23} \cap c_{46} = P_{1989} = \mathbf{P}(\delta^2, \delta^5, \delta^{13}, 1) = \mathbf{P}(4, 11, 6, 1)$,
- 22 : $E_{45} = a_4 \cap b_5 \cap c_{45} = P_{2053} = \mathbf{P}(\delta^2, \delta^6, \delta^{13}, 1) = \mathbf{P}(4, 15, 6, 1)$,
- 23 : $E_{12,35,46} = c_{12} \cap c_{35} \cap c_{46} = P_{2159} = \mathbf{P}(\delta^8, \delta^9, \delta^7, 1) = \mathbf{P}(14, 5, 7, 1)$,
- 24 : $E_{42} = a_4 \cap b_2 \cap c_{24} = P_{2255} = \mathbf{P}(\delta^8, \delta^5, \delta^7, 1) = \mathbf{P}(14, 11, 7, 1)$,
- 25 : $E_{65} = a_6 \cap b_5 \cap c_{56} = P_{2394} = \mathbf{P}(\delta^4, \delta^2, \delta^3, 1) = \mathbf{P}(9, 4, 8, 1)$,
- 26 : $E_{51} = a_5 \cap b_1 \cap c_{15} = P_{2538} = \mathbf{P}(\delta^4, \delta^{11}, \delta^3, 1) = \mathbf{P}(9, 13, 8, 1)$,
- 27 : $E_{31} = a_3 \cap b_1 \cap c_{13} = P_{2623} = \mathbf{P}(\delta^8, \delta, \delta^4, 1) = \mathbf{P}(14, 2, 9, 1)$,
- 28 : $E_{63} = a_6 \cap b_3 \cap c_{36} = P_{2783} = \mathbf{P}(\delta^8, \delta^{14}, \delta^4, 1) = \mathbf{P}(14, 12, 9, 1)$,
- 29 : $E_{15} = a_1 \cap b_5 \cap c_{15} = P_{2865} = \mathbf{P}(0, \delta, \delta^{10}, 1) = \mathbf{P}(0, 2, 10, 1)$,
- 30 : $E_{13} = a_1 \cap b_3 \cap c_{13} = P_{2881} = \mathbf{P}(0, \delta^{12}, \delta^{10}, 1) = \mathbf{P}(0, 3, 10, 1)$,
- 31 : $E_{14} = a_1 \cap b_4 \cap c_{14} = P_{2961} = \mathbf{P}(0, \delta^3, \delta^{10}, 1) = \mathbf{P}(0, 8, 10, 1)$,
- 32 : $E_{12} = a_1 \cap b_2 \cap c_{12} = P_{2977} = \mathbf{P}(0, \delta^4, \delta^{10}, 1) = \mathbf{P}(0, 9, 10, 1)$,
- 33 : $E_{16,23,45} = c_{16} \cap c_{23} \cap c_{45} = P_{3153} = \mathbf{P}(0, \delta^2, \delta^5, 1) = \mathbf{P}(0, 4, 11, 1)$,

- 34 : $E_{61} = a_6 \cap b_1 \cap c_{16} = P_{3169} = \mathbf{P}(0, \delta^9, \delta^5, 1) = \mathbf{P}(0, 5, 11, 1)$,
 35 : $E_{16,24,35} = c_{16} \cap c_{24} \cap c_{35} = P_{3313} = \mathbf{P}(0, \delta^8, \delta^5, 1) = \mathbf{P}(0, 14, 11, 1)$,
 36 : $E_{16,25,34} = c_{16} \cap c_{25} \cap c_{34} = P_{3329} = \mathbf{P}(0, \delta^6, \delta^5, 1) = \mathbf{P}(0, 15, 11, 1)$,
 37 : $E_{35} = a_3 \cap b_5 \cap c_{35} = P_{3475} = \mathbf{P}(\delta, \delta^3, \delta^{14}, 1) = \mathbf{P}(2, 8, 12, 1)$,
 38 : $E_{15,24,36} = c_{15} \cap c_{24} \cap c_{36} = P_{3507} = \mathbf{P}(\delta, \delta^{10}, \delta^{14}, 1) = \mathbf{P}(2, 10, 12, 1)$,
 39 : $E_{12,36,45} = c_{12} \cap c_{36} \cap c_{45} = P_{3658} = \mathbf{P}(\delta^4, \delta^{12}, \delta^{11}, 1) = \mathbf{P}(9, 3, 13, 1)$,
 40 : $E_{32} = a_3 \cap b_2 \cap c_{23} = P_{3770} = \mathbf{P}(\delta^4, \delta^{10}, \delta^{11}, 1) = \mathbf{P}(9, 10, 13, 1)$,
 41 : $E_{41} = a_4 \cap b_1 \cap c_{14} = P_{3923} = \mathbf{P}(\delta, \delta^2, \delta^8, 1) = \mathbf{P}(2, 4, 14, 1)$,
 42 : $E_{64} = a_6 \cap b_4 \cap c_{46} = P_{3955} = \mathbf{P}(\delta, \delta^{13}, \delta^8, 1) = \mathbf{P}(2, 6, 14, 1)$,
 43 : $E_{14,23,56} = c_{14} \cap c_{23} \cap c_{56} = P_{4239} = \mathbf{P}(\delta^8, \delta^7, \delta^6, 1) = \mathbf{P}(14, 7, 15, 1)$,
 44 : $E_{54} = a_5 \cap b_4 \cap c_{45} = P_{4271} = \mathbf{P}(\delta^8, \delta^4, \delta^6, 1) = \mathbf{P}(14, 9, 15, 1)$.

Double Points

The surface has 0 Double points:

The double points on the surface are:

Single Points

The surface has 324 single points:

The single points on the surface are:

- | | |
|---|---|
| 0 : $P_{14} = (10, 1, 0, 0)$ lies on line a_2 | 28 : $P_{348} = (10, 4, 0, 1)$ lies on line c_{46} |
| 1 : $P_{15} = (11, 1, 0, 0)$ lies on line c_{26} | 29 : $P_{360} = (6, 5, 0, 1)$ lies on line b_5 |
| 2 : $P_{62} = (11, 2, 1, 0)$ lies on line a_3 | 30 : $P_{367} = (13, 5, 0, 1)$ lies on line c_{23} |
| 3 : $P_{73} = (6, 3, 1, 0)$ lies on line c_{34} | 31 : $P_{369} = (15, 5, 0, 1)$ lies on line c_{13} |
| 4 : $P_{75} = (8, 3, 1, 0)$ lies on line b_5 | 32 : $P_{405} = (3, 8, 0, 1)$ lies on line b_1 |
| 5 : $P_{79} = (12, 3, 1, 0)$ lies on line c_{14} | 33 : $P_{409} = (7, 8, 0, 1)$ lies on line b_2 |
| 6 : $P_{93} = (10, 4, 1, 0)$ lies on line a_4 | 34 : $P_{415} = (13, 8, 0, 1)$ lies on line c_{45} |
| 7 : $P_{105} = (6, 5, 1, 0)$ lies on line c_{25} | 35 : $P_{429} = (11, 9, 0, 1)$ lies on line a_3 |
| 8 : $P_{112} = (13, 5, 1, 0)$ lies on line b_3 | 36 : $P_{435} = (1, 10, 0, 1)$ lies on line c_{56} |
| 9 : $P_{114} = (15, 5, 1, 0)$ lies on line c_{45} | 37 : $P_{439} = (5, 10, 0, 1)$ lies on line b_4 |
| 10 : $P_{150} = (3, 8, 1, 0)$ lies on line c_{12} | 38 : $P_{449} = (15, 10, 0, 1)$ lies on line b_3 |
| 11 : $P_{154} = (7, 8, 1, 0)$ lies on line a_6 | 39 : $P_{451} = (1, 11, 0, 1)$ lies on line a_5 |
| 12 : $P_{160} = (13, 8, 1, 0)$ lies on line c_{13} | 40 : $P_{453} = (3, 11, 0, 1)$ lies on line a_6 |
| 13 : $P_{174} = (11, 9, 1, 0)$ lies on line c_{36} | 41 : $P_{458} = (8, 11, 0, 1)$ lies on line c_{34} |
| 14 : $P_{180} = (1, 10, 1, 0)$ lies on line a_5 | 42 : $P_{508} = (10, 14, 0, 1)$ lies on line a_4 |
| 15 : $P_{184} = (5, 10, 1, 0)$ lies on line c_{24} | 43 : $P_{519} = (5, 15, 0, 1)$ lies on line c_{14} |
| 16 : $P_{194} = (15, 10, 1, 0)$ lies on line c_{23} | 44 : $P_{521} = (7, 15, 0, 1)$ lies on line c_{12} |
| 17 : $P_{196} = (1, 11, 1, 0)$ lies on line c_{56} | 45 : $P_{526} = (12, 15, 0, 1)$ lies on line c_{24} |
| 18 : $P_{198} = (3, 11, 1, 0)$ lies on line b_2 | 46 : $P_{555} = (10, 1, 1, 1)$ lies on line a_2 |
| 19 : $P_{203} = (8, 11, 1, 0)$ lies on line c_{15} | 47 : $P_{556} = (11, 1, 1, 1)$ lies on line c_{26} |
| 20 : $P_{253} = (10, 14, 1, 0)$ lies on line c_{46} | 48 : $P_{561} = (0, 2, 1, 1)$ lies on line b_6 |
| 21 : $P_{264} = (5, 15, 1, 0)$ lies on line c_{35} | 49 : $P_{574} = (13, 2, 1, 1)$ lies on line a_2 |
| 22 : $P_{266} = (7, 15, 1, 0)$ lies on line b_1 | 50 : $P_{576} = (15, 2, 1, 1)$ lies on line c_{26} |
| 23 : $P_{271} = (12, 15, 1, 0)$ lies on line b_4 | 51 : $P_{577} = (0, 3, 1, 1)$ lies on line b_6 |
| 24 : $P_{317} = (11, 2, 0, 1)$ lies on line c_{36} | 52 : $P_{584} = (7, 3, 1, 1)$ lies on line a_2 |
| 25 : $P_{328} = (6, 3, 0, 1)$ lies on line c_{15} | 53 : $P_{593} = (0, 4, 1, 1)$ lies on line b_6 |
| 26 : $P_{330} = (8, 3, 0, 1)$ lies on line c_{25} | 54 : $P_{596} = (3, 4, 1, 1)$ lies on line a_2 |
| 27 : $P_{334} = (12, 3, 0, 1)$ lies on line c_{35} | 55 : $P_{600} = (7, 4, 1, 1)$ lies on line c_{26} |

56 : $P_{609} = (0, 5, 1, 1)$ lies on line b_6
 57 : $P_{621} = (12, 5, 1, 1)$ lies on line c_{26}
 58 : $P_{625} = (0, 6, 1, 1)$ lies on line b_6
 59 : $P_{633} = (8, 6, 1, 1)$ lies on line c_{26}
 60 : $P_{641} = (0, 7, 1, 1)$ lies on line b_6
 61 : $P_{644} = (3, 7, 1, 1)$ lies on line c_{26}
 62 : $P_{657} = (0, 8, 1, 1)$ lies on line b_6
 63 : $P_{663} = (6, 8, 1, 1)$ lies on line a_2
 64 : $P_{673} = (0, 9, 1, 1)$ lies on line b_6
 65 : $P_{678} = (5, 9, 1, 1)$ lies on line c_{26}
 66 : $P_{685} = (12, 9, 1, 1)$ lies on line a_2
 67 : $P_{690} = (1, 10, 1, 1)$ lies on line c_{26}
 68 : $P_{700} = (11, 10, 1, 1)$ lies on line a_2
 69 : $P_{706} = (1, 11, 1, 1)$ lies on line a_2
 70 : $P_{715} = (10, 11, 1, 1)$ lies on line c_{26}
 71 : $P_{721} = (0, 12, 1, 1)$ lies on line b_6
 72 : $P_{726} = (5, 12, 1, 1)$ lies on line a_2
 73 : $P_{737} = (0, 13, 1, 1)$ lies on line b_6
 74 : $P_{752} = (15, 13, 1, 1)$ lies on line a_2
 75 : $P_{753} = (0, 14, 1, 1)$ lies on line b_6
 76 : $P_{759} = (6, 14, 1, 1)$ lies on line c_{26}
 77 : $P_{761} = (8, 14, 1, 1)$ lies on line a_2
 78 : $P_{769} = (0, 15, 1, 1)$ lies on line b_6
 79 : $P_{782} = (13, 15, 1, 1)$ lies on line c_{26}
 80 : $P_{797} = (12, 0, 2, 1)$ lies on line b_3
 81 : $P_{808} = (7, 1, 2, 1)$ lies on line c_{46}
 82 : $P_{823} = (6, 2, 2, 1)$ lies on line c_{24}
 83 : $P_{827} = (10, 2, 2, 1)$ lies on line c_{45}
 84 : $P_{830} = (13, 2, 2, 1)$ lies on line a_6
 85 : $P_{848} = (15, 3, 2, 1)$ lies on line b_5
 86 : $P_{855} = (6, 4, 2, 1)$ lies on line c_{35}
 87 : $P_{868} = (3, 5, 2, 1)$ lies on line c_{56}
 88 : $P_{882} = (1, 6, 2, 1)$ lies on line c_{12}
 89 : $P_{884} = (3, 6, 2, 1)$ lies on line a_5
 90 : $P_{888} = (7, 6, 2, 1)$ lies on line a_4
 91 : $P_{898} = (1, 7, 2, 1)$ lies on line b_2
 92 : $P_{923} = (10, 8, 2, 1)$ lies on line c_{23}
 93 : $P_{989} = (12, 12, 2, 1)$ lies on line c_{13}
 94 : $P_{992} = (15, 12, 2, 1)$ lies on line c_{15}
 95 : $P_{1038} = (13, 15, 2, 1)$ lies on line b_1
 96 : $P_{1048} = (7, 0, 3, 1)$ lies on line b_5
 97 : $P_{1051} = (10, 0, 3, 1)$ lies on line b_1
 98 : $P_{1056} = (15, 0, 3, 1)$ lies on line c_{36}
 99 : $P_{1078} = (5, 2, 3, 1)$ lies on line c_{23}
 100 : $P_{1081} = (8, 2, 3, 1)$ lies on line b_4
 101 : $P_{1086} = (13, 2, 3, 1)$ lies on line a_4
 102 : $P_{1106} = (1, 4, 3, 1)$ lies on line c_{13}
 103 : $P_{1122} = (1, 5, 3, 1)$ lies on line b_3
 104 : $P_{1158} = (5, 7, 3, 1)$ lies on line c_{45}
 105 : $P_{1160} = (7, 7, 3, 1)$ lies on line c_{15}
 106 : $P_{1172} = (3, 8, 3, 1)$ lies on line c_{24}
 107 : $P_{1209} = (8, 10, 3, 1)$ lies on line c_{14}
 108 : $P_{1211} = (10, 10, 3, 1)$ lies on line a_6
 109 : $P_{1220} = (3, 11, 3, 1)$ lies on line c_{35}

110 : $P_{1294} = (13, 15, 3, 1)$ lies on line c_{46}
 111 : $P_{1296} = (15, 15, 3, 1)$ lies on line a_3
 112 : $P_{1303} = (6, 0, 4, 1)$ lies on line a_6
 113 : $P_{1325} = (12, 1, 4, 1)$ lies on line a_3
 114 : $P_{1352} = (7, 3, 4, 1)$ lies on line c_{14}
 115 : $P_{1368} = (7, 4, 4, 1)$ lies on line b_4
 116 : $P_{1372} = (11, 4, 4, 1)$ lies on line c_{12}
 117 : $P_{1374} = (13, 4, 4, 1)$ lies on line c_{15}
 118 : $P_{1380} = (3, 5, 4, 1)$ lies on line c_{45}
 119 : $P_{1396} = (3, 6, 4, 1)$ lies on line c_{23}
 120 : $P_{1399} = (6, 6, 4, 1)$ lies on line b_1
 121 : $P_{1430} = (5, 8, 4, 1)$ lies on line a_5
 122 : $P_{1454} = (13, 9, 4, 1)$ lies on line b_5
 123 : $P_{1490} = (1, 12, 4, 1)$ lies on line c_{24}
 124 : $P_{1506} = (1, 13, 4, 1)$ lies on line c_{35}
 125 : $P_{1510} = (5, 13, 4, 1)$ lies on line c_{56}
 126 : $P_{1517} = (12, 13, 4, 1)$ lies on line c_{36}
 127 : $P_{1548} = (11, 15, 4, 1)$ lies on line b_2
 128 : $P_{1556} = (3, 0, 5, 1)$ lies on line c_{46}
 129 : $P_{1564} = (11, 0, 5, 1)$ lies on line c_{14}
 130 : $P_{1565} = (12, 0, 5, 1)$ lies on line c_{45}
 131 : $P_{1604} = (3, 3, 5, 1)$ lies on line a_4
 132 : $P_{1608} = (7, 3, 5, 1)$ lies on line a_3
 133 : $P_{1624} = (7, 4, 5, 1)$ lies on line c_{36}
 134 : $P_{1625} = (8, 4, 5, 1)$ lies on line b_2
 135 : $P_{1632} = (15, 4, 5, 1)$ lies on line c_{34}
 136 : $P_{1682} = (1, 8, 5, 1)$ lies on line a_6
 137 : $P_{1698} = (1, 9, 5, 1)$ lies on line b_1
 138 : $P_{1718} = (5, 10, 5, 1)$ lies on line b_5
 139 : $P_{1740} = (11, 11, 5, 1)$ lies on line b_4
 140 : $P_{1744} = (15, 11, 5, 1)$ lies on line c_{25}
 141 : $P_{1753} = (8, 12, 5, 1)$ lies on line c_{12}
 142 : $P_{1757} = (12, 12, 5, 1)$ lies on line c_{23}
 143 : $P_{1798} = (5, 15, 5, 1)$ lies on line c_{15}
 144 : $P_{1822} = (13, 0, 6, 1)$ lies on line b_2
 145 : $P_{1830} = (5, 1, 6, 1)$ lies on line c_{34}
 146 : $P_{1833} = (8, 1, 6, 1)$ lies on line b_1
 147 : $P_{1836} = (11, 1, 6, 1)$ lies on line c_{24}
 148 : $P_{1848} = (7, 2, 6, 1)$ lies on line c_{56}
 149 : $P_{1863} = (6, 3, 6, 1)$ lies on line b_4
 150 : $P_{1878} = (5, 4, 6, 1)$ lies on line c_{25}
 151 : $P_{1892} = (3, 5, 6, 1)$ lies on line a_3
 152 : $P_{1895} = (6, 5, 6, 1)$ lies on line c_{14}
 153 : $P_{1896} = (7, 5, 6, 1)$ lies on line a_5
 154 : $P_{1908} = (3, 6, 6, 1)$ lies on line c_{36}
 155 : $P_{1931} = (10, 7, 6, 1)$ lies on line c_{13}
 156 : $P_{1961} = (8, 9, 6, 1)$ lies on line a_6
 157 : $P_{1980} = (11, 10, 6, 1)$ lies on line c_{35}
 158 : $P_{2027} = (10, 13, 6, 1)$ lies on line b_3
 159 : $P_{2030} = (13, 13, 6, 1)$ lies on line c_{12}
 160 : $P_{2077} = (12, 0, 7, 1)$ lies on line c_{15}
 161 : $P_{2084} = (3, 1, 7, 1)$ lies on line c_{25}
 162 : $P_{2092} = (11, 1, 7, 1)$ lies on line c_{23}
 163 : $P_{2096} = (15, 1, 7, 1)$ lies on line a_6

164 : $P_{2100} = (3, 2, 7, 1)$ lies on line c_{34}
 165 : $P_{2171} = (10, 6, 7, 1)$ lies on line c_{14}
 166 : $P_{2185} = (8, 7, 7, 1)$ lies on line a_3
 167 : $P_{2200} = (7, 8, 7, 1)$ lies on line b_3
 168 : $P_{2215} = (6, 9, 7, 1)$ lies on line c_{56}
 169 : $P_{2236} = (11, 10, 7, 1)$ lies on line c_{45}
 170 : $P_{2267} = (10, 12, 7, 1)$ lies on line b_4
 171 : $P_{2269} = (12, 12, 7, 1)$ lies on line b_5
 172 : $P_{2304} = (15, 14, 7, 1)$ lies on line b_1
 173 : $P_{2311} = (6, 15, 7, 1)$ lies on line a_5
 174 : $P_{2312} = (7, 15, 7, 1)$ lies on line c_{13}
 175 : $P_{2313} = (8, 15, 7, 1)$ lies on line c_{36}
 176 : $P_{2326} = (5, 0, 8, 1)$ lies on line a_3
 177 : $P_{2327} = (6, 0, 8, 1)$ lies on line c_{12}
 178 : $P_{2331} = (10, 0, 8, 1)$ lies on line c_{25}
 179 : $P_{2377} = (8, 3, 8, 1)$ lies on line c_{23}
 180 : $P_{2406} = (5, 5, 8, 1)$ lies on line c_{36}
 181 : $P_{2413} = (12, 5, 8, 1)$ lies on line a_4
 182 : $P_{2423} = (6, 6, 8, 1)$ lies on line b_2
 183 : $P_{2432} = (15, 6, 8, 1)$ lies on line c_{35}
 184 : $P_{2468} = (3, 9, 8, 1)$ lies on line b_3
 185 : $P_{2477} = (12, 9, 8, 1)$ lies on line c_{46}
 186 : $P_{2480} = (15, 9, 8, 1)$ lies on line c_{24}
 187 : $P_{2484} = (3, 10, 8, 1)$ lies on line c_{13}
 188 : $P_{2491} = (10, 10, 8, 1)$ lies on line c_{34}
 189 : $P_{2505} = (8, 11, 8, 1)$ lies on line c_{45}
 190 : $P_{2546} = (1, 14, 8, 1)$ lies on line c_{14}
 191 : $P_{2562} = (1, 15, 8, 1)$ lies on line b_4
 192 : $P_{2590} = (13, 0, 9, 1)$ lies on line b_4
 193 : $P_{2599} = (6, 1, 9, 1)$ lies on line a_4
 194 : $P_{2635} = (10, 3, 9, 1)$ lies on line c_{24}
 195 : $P_{2669} = (12, 5, 9, 1)$ lies on line c_{25}
 196 : $P_{2674} = (1, 6, 9, 1)$ lies on line c_{15}
 197 : $P_{2690} = (1, 7, 9, 1)$ lies on line b_5
 198 : $P_{2695} = (6, 7, 9, 1)$ lies on line c_{46}
 199 : $P_{2697} = (8, 7, 9, 1)$ lies on line a_5
 200 : $P_{2710} = (5, 8, 9, 1)$ lies on line c_{12}
 201 : $P_{2728} = (7, 9, 9, 1)$ lies on line c_{23}
 202 : $P_{2731} = (10, 9, 9, 1)$ lies on line c_{35}
 203 : $P_{2733} = (12, 9, 9, 1)$ lies on line c_{34}
 204 : $P_{2790} = (5, 13, 9, 1)$ lies on line b_2
 205 : $P_{2798} = (13, 13, 9, 1)$ lies on line c_{14}
 206 : $P_{2808} = (7, 14, 9, 1)$ lies on line c_{45}
 207 : $P_{2825} = (8, 15, 9, 1)$ lies on line c_{56}
 208 : $P_{2833} = (0, 0, 10, 1)$ lies on line a_1
 209 : $P_{2844} = (11, 0, 10, 1)$ lies on line a_5
 210 : $P_{2849} = (0, 1, 10, 1)$ lies on line a_1
 211 : $P_{2854} = (5, 1, 10, 1)$ lies on line c_{35}
 212 : $P_{2864} = (15, 1, 10, 1)$ lies on line c_{45}
 213 : $P_{2897} = (0, 4, 10, 1)$ lies on line a_1
 214 : $P_{2902} = (5, 4, 10, 1)$ lies on line c_{24}
 215 : $P_{2907} = (10, 4, 10, 1)$ lies on line a_3
 216 : $P_{2913} = (0, 5, 10, 1)$ lies on line a_1
 217 : $P_{2929} = (0, 6, 10, 1)$ lies on line a_1

218 : $P_{2945} = (0, 7, 10, 1)$ lies on line a_1
 219 : $P_{2993} = (0, 10, 10, 1)$ lies on line a_1
 220 : $P_{2999} = (6, 10, 10, 1)$ lies on line c_{25}
 221 : $P_{3000} = (7, 10, 10, 1)$ lies on line b_1
 222 : $P_{3009} = (0, 11, 10, 1)$ lies on line a_1
 223 : $P_{3020} = (11, 11, 10, 1)$ lies on line c_{56}
 224 : $P_{3025} = (0, 12, 10, 1)$ lies on line a_1
 225 : $P_{3026} = (1, 12, 10, 1)$ lies on line c_{46}
 226 : $P_{3031} = (6, 12, 10, 1)$ lies on line c_{34}
 227 : $P_{3041} = (0, 13, 10, 1)$ lies on line a_1
 228 : $P_{3042} = (1, 13, 10, 1)$ lies on line a_4
 229 : $P_{3048} = (7, 13, 10, 1)$ lies on line a_6
 230 : $P_{3057} = (0, 14, 10, 1)$ lies on line a_1
 231 : $P_{3067} = (10, 14, 10, 1)$ lies on line c_{36}
 232 : $P_{3072} = (15, 14, 10, 1)$ lies on line c_{23}
 233 : $P_{3073} = (0, 15, 10, 1)$ lies on line a_1
 234 : $P_{3089} = (0, 0, 11, 1)$ lies on line c_{16}
 235 : $P_{3099} = (10, 0, 11, 1)$ lies on line c_{56}
 236 : $P_{3105} = (0, 1, 11, 1)$ lies on line c_{16}
 237 : $P_{3108} = (3, 1, 11, 1)$ lies on line c_{12}
 238 : $P_{3113} = (8, 1, 11, 1)$ lies on line b_5
 239 : $P_{3121} = (0, 2, 11, 1)$ lies on line c_{16}
 240 : $P_{3124} = (3, 2, 11, 1)$ lies on line b_2
 241 : $P_{3132} = (11, 2, 11, 1)$ lies on line c_{46}
 242 : $P_{3137} = (0, 3, 11, 1)$ lies on line c_{16}
 243 : $P_{3185} = (0, 6, 11, 1)$ lies on line c_{16}
 244 : $P_{3186} = (1, 6, 11, 1)$ lies on line a_3
 245 : $P_{3198} = (13, 6, 11, 1)$ lies on line b_3
 246 : $P_{3201} = (0, 7, 11, 1)$ lies on line c_{16}
 247 : $P_{3202} = (1, 7, 11, 1)$ lies on line c_{36}
 248 : $P_{3213} = (12, 7, 11, 1)$ lies on line b_4
 249 : $P_{3217} = (0, 8, 11, 1)$ lies on line c_{16}
 250 : $P_{3233} = (0, 9, 11, 1)$ lies on line c_{16}
 251 : $P_{3241} = (8, 9, 11, 1)$ lies on line c_{15}
 252 : $P_{3244} = (11, 9, 11, 1)$ lies on line a_4
 253 : $P_{3249} = (0, 10, 11, 1)$ lies on line c_{16}
 254 : $P_{3259} = (10, 10, 11, 1)$ lies on line a_5
 255 : $P_{3265} = (0, 11, 11, 1)$ lies on line c_{16}
 256 : $P_{3277} = (12, 11, 11, 1)$ lies on line c_{14}
 257 : $P_{3278} = (13, 11, 11, 1)$ lies on line c_{13}
 258 : $P_{3281} = (0, 12, 11, 1)$ lies on line c_{16}
 259 : $P_{3297} = (0, 13, 11, 1)$ lies on line c_{16}
 260 : $P_{3351} = (6, 0, 12, 1)$ lies on line c_{23}
 261 : $P_{3364} = (3, 1, 12, 1)$ lies on line b_4
 262 : $P_{3366} = (5, 1, 12, 1)$ lies on line c_{13}
 263 : $P_{3371} = (10, 1, 12, 1)$ lies on line b_2
 264 : $P_{3380} = (3, 2, 12, 1)$ lies on line c_{14}
 265 : $P_{3405} = (12, 3, 12, 1)$ lies on line b_1
 266 : $P_{3406} = (13, 3, 12, 1)$ lies on line c_{56}
 267 : $P_{3408} = (15, 3, 12, 1)$ lies on line c_{46}
 268 : $P_{3414} = (5, 4, 12, 1)$ lies on line b_3
 269 : $P_{3447} = (6, 6, 12, 1)$ lies on line c_{45}
 270 : $P_{3452} = (11, 6, 12, 1)$ lies on line c_{34}
 271 : $P_{3531} = (10, 11, 12, 1)$ lies on line c_{12}

272 : $P_{3552} = (15, 12, 12, 1)$ lies on line a_4
 273 : $P_{3564} = (11, 13, 12, 1)$ lies on line c_{25}
 274 : $P_{3582} = (13, 14, 12, 1)$ lies on line a_5
 275 : $P_{3597} = (12, 15, 12, 1)$ lies on line a_6
 276 : $P_{3608} = (7, 0, 13, 1)$ lies on line c_{24}
 277 : $P_{3625} = (8, 1, 13, 1)$ lies on line b_3
 278 : $P_{3627} = (10, 1, 13, 1)$ lies on line c_{15}
 279 : $P_{3632} = (15, 1, 13, 1)$ lies on line c_{14}
 280 : $P_{3677} = (12, 4, 13, 1)$ lies on line a_5
 281 : $P_{3694} = (13, 5, 13, 1)$ lies on line c_{34}
 282 : $P_{3720} = (7, 7, 13, 1)$ lies on line c_{35}
 283 : $P_{3724} = (11, 7, 13, 1)$ lies on line a_6
 284 : $P_{3734} = (5, 8, 13, 1)$ lies on line a_4
 285 : $P_{3741} = (12, 8, 13, 1)$ lies on line c_{56}
 286 : $P_{3742} = (13, 8, 13, 1)$ lies on line c_{25}
 287 : $P_{3753} = (8, 9, 13, 1)$ lies on line c_{13}
 288 : $P_{3787} = (10, 11, 13, 1)$ lies on line b_5
 289 : $P_{3804} = (11, 12, 13, 1)$ lies on line b_1
 290 : $P_{3814} = (5, 13, 13, 1)$ lies on line c_{46}
 291 : $P_{3840} = (15, 14, 13, 1)$ lies on line b_4
 292 : $P_{3864} = (7, 0, 14, 1)$ lies on line c_{34}
 293 : $P_{3886} = (13, 1, 14, 1)$ lies on line c_{36}
 294 : $P_{3901} = (12, 2, 14, 1)$ lies on line c_{12}
 295 : $P_{3920} = (15, 3, 14, 1)$ lies on line a_5
 296 : $P_{3948} = (11, 5, 14, 1)$ lies on line c_{15}
 297 : $P_{3976} = (7, 7, 14, 1)$ lies on line c_{25}
 298 : $P_{3977} = (8, 7, 14, 1)$ lies on line c_{24}
 299 : $P_{3991} = (6, 8, 14, 1)$ lies on line c_{13}
 300 : $P_{4050} = (1, 12, 14, 1)$ lies on line c_{45}
 301 : $P_{4062} = (13, 12, 14, 1)$ lies on line a_3
 302 : $P_{4064} = (15, 12, 14, 1)$ lies on line c_{56}
 303 : $P_{4066} = (1, 13, 14, 1)$ lies on line c_{23}
 304 : $P_{4087} = (6, 14, 14, 1)$ lies on line b_3
 305 : $P_{4092} = (11, 14, 14, 1)$ lies on line b_5
 306 : $P_{4093} = (12, 14, 14, 1)$ lies on line b_2
 307 : $P_{4105} = (8, 15, 14, 1)$ lies on line c_{35}
 308 : $P_{4121} = (8, 0, 15, 1)$ lies on line a_4
 309 : $P_{4124} = (11, 0, 15, 1)$ lies on line c_{13}
 310 : $P_{4126} = (13, 0, 15, 1)$ lies on line c_{35}
 311 : $P_{4146} = (1, 2, 15, 1)$ lies on line c_{25}
 312 : $P_{4162} = (1, 3, 15, 1)$ lies on line c_{34}
 313 : $P_{4208} = (15, 5, 15, 1)$ lies on line b_2
 314 : $P_{4247} = (6, 8, 15, 1)$ lies on line c_{36}
 315 : $P_{4249} = (8, 8, 15, 1)$ lies on line c_{46}
 316 : $P_{4288} = (15, 10, 15, 1)$ lies on line c_{12}
 317 : $P_{4294} = (5, 11, 15, 1)$ lies on line b_1
 318 : $P_{4300} = (11, 11, 15, 1)$ lies on line b_3
 319 : $P_{4324} = (3, 13, 15, 1)$ lies on line b_5
 320 : $P_{4334} = (13, 13, 15, 1)$ lies on line c_{24}
 321 : $P_{4340} = (3, 14, 15, 1)$ lies on line c_{15}
 322 : $P_{4342} = (5, 14, 15, 1)$ lies on line a_6
 323 : $P_{4343} = (6, 14, 15, 1)$ lies on line a_3

The single points on the surface are:

Points on surface but on no line

The surface has 0 points not on any line:

The points on the surface but not on lines are:

Line Intersection Graph

		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
		a_1	a_2	a_3	a_4	a_5	a_6	b_1	b_2	b_3	b_4	b_5	b_6	c_{12}	c_{13}	c_{14}	c_{15}	c_{16}	c_{23}	c_{24}	c_{25}	c_{26}	c_{34}	c_{35}	c_{36}	c_{45}	c_{46}	c_{56}
0	a_1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
1	a_2	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0
2	a_3	0	0	0	0	0	0	1	1	0	1	1	1	0	1	0	0	0	1	0	0	0	1	1	1	0	0	0
3	a_4	0	0	0	0	0	0	1	1	1	0	1	1	0	0	1	0	0	0	1	0	0	1	0	0	1	1	0
4	a_5	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	1	0	0	0	1	0	0	1	0	1	0	1
5	a_6	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	1
6	b_1	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
7	b_2	1	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0
8	b_3	1	1	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1	0	0	0
9	b_4	1	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	1	0
10	b_5	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	0	1
11	b_6	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	1
12	c_{12}	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
13	c_{13}	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1
14	c_{14}	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	1	1	0	0	1
15	c_{15}	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1	1	0	1	0	1	0
16	c_{16}	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	1	1	0	1	0	0
17	c_{23}	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1
18	c_{24}	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	1	0	0	0	0	0	1	1	0	0	1
19	c_{25}	0	1	0	0	1	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	0	1	0	1	0	1	0
20	c_{26}	0	1	0	0	0	1	0	1	0	0	0	1	0	1	1	1	0	0	0	0	0	1	1	0	1	0	0
21	c_{34}	0	0	1	1	0	0	0	0	1	1	0	0	1	0	0	1	1	0	0	1	1	0	0	0	0	0	1
22	c_{35}	0	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	0	0	0	1	0
23	c_{36}	0	0	1	0	0	1	0	0	1	0	0	1	1	0	1	1	0	0	1	1	0	0	0	0	1	0	0
24	c_{45}	0	0	0	1	1	0	0	0	0	1	1	0	1	1	0	0	1	1	0	0	1	0	0	1	0	0	0
25	c_{46}	0	0	0	1	0	1	0	0	0	1	0	1	1	1	0	1	0	1	0	1	0	0	1	0	0	0	0
26	c_{56}	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	0	0	1	0	0	0	0	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{2977}	P_{2881}	P_{2961}	P_{2865}	P_1	P_{2977}	P_{2881}	P_{2961}	P_{2865}	P_1

Line 1 intersects

Line	ℓ_6	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}
in point	P_{645}	P_{771}	P_{618}	P_{639}	P_{530}	P_{645}	P_{771}	P_{618}	P_{639}	P_{530}

Line 2 intersects

Line	ℓ_6	ℓ_7	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{13}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}
in point	P_{2623}	P_{3770}	P_{997}	P_{3475}	P_{705}	P_{2623}	P_{3770}	P_{997}	P_{3475}	P_{705}

Line 3 intersects

Line	ℓ_6	ℓ_7	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{14}	ℓ_{18}	ℓ_{21}	ℓ_{24}	ℓ_{25}
in point	P_{3923}	P_{2255}	P_{1418}	P_{2053}	P_{689}	P_{3923}	P_{2255}	P_{1418}	P_{2053}	P_{689}

Line 4 intersects

Line	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}	ℓ_{15}	ℓ_{19}	ℓ_{22}	ℓ_{24}	ℓ_{26}
in point	P_{2538}	P_{1235}	P_{1589}	P_{4271}	P_{546}	P_{2538}	P_{1235}	P_{1589}	P_{4271}	P_{546}

Line 5 intersects

Line	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{16}	ℓ_{20}	ℓ_{23}	ℓ_{25}	ℓ_{26}
in point	P_{3169}	P_{581}	P_{2783}	P_{3955}	P_{2394}	P_{3169}	P_{581}	P_{2783}	P_{3955}	P_{2394}

Line 6 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}
in point	P_{645}	P_{2623}	P_{3923}	P_{2538}	P_{3169}	P_{645}	P_{2623}	P_{3923}	P_{2538}	P_{3169}

Line 7 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_{12}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}
in point	P_{2977}	P_{3770}	P_{2255}	P_{1235}	P_{581}	P_{2977}	P_{3770}	P_{2255}	P_{1235}	P_{581}

Line 8 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_{13}	ℓ_{17}	ℓ_{21}	ℓ_{22}	ℓ_{23}
in point	P_{2881}	P_{771}	P_{1418}	P_{1589}	P_{2783}	P_{2881}	P_{771}	P_{1418}	P_{1589}	P_{2783}

Line 9 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_{14}	ℓ_{18}	ℓ_{21}	ℓ_{24}	ℓ_{25}
in point	P_{2961}	P_{618}	P_{997}	P_{4271}	P_{3955}	P_{2961}	P_{618}	P_{997}	P_{4271}	P_{3955}

Line 10 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_{15}	ℓ_{19}	ℓ_{22}	ℓ_{24}	ℓ_{26}
in point	P_{2865}	P_{639}	P_{3475}	P_{2053}	P_{2394}	P_{2865}	P_{639}	P_{3475}	P_{2053}	P_{2394}

Line 11 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_{16}	ℓ_{20}	ℓ_{23}	ℓ_{25}	ℓ_{26}
in point	P_1	P_{530}	P_{705}	P_{689}	P_{546}	P_1	P_{530}	P_{705}	P_{689}	P_{546}

Line 12 intersects

Line	ℓ_0	ℓ_1	ℓ_6	ℓ_7	ℓ_{21}	ℓ_{22}	ℓ_{23}	ℓ_{24}	ℓ_{25}	ℓ_{26}
in point	P_{2977}	P_{645}	P_{645}	P_{2977}	P_{1267}	P_{2159}	P_{3658}	P_{3658}	P_{2159}	P_{1267}

Line 13 intersects

Line	ℓ_0	ℓ_2	ℓ_6	ℓ_8	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{24}	ℓ_{25}	ℓ_{26}
in point	P_{2881}	P_{2623}	P_{2623}	P_{2881}	P_{1653}	P_{1530}	P_{739}	P_{739}	P_{1530}	P_{1653}

Line 14 intersects

Line	ℓ_0	ℓ_3	ℓ_6	ℓ_9	ℓ_{17}	ℓ_{19}	ℓ_{20}	ℓ_{22}	ℓ_{23}	ℓ_{26}
in point	P_{2961}	P_{3923}	P_{3923}	P_{2961}	P_{4239}	P_{933}	P_{730}	P_{730}	P_{933}	P_{4239}

Line 15 intersects

Line	ℓ_0	ℓ_4	ℓ_6	ℓ_{10}	ℓ_{17}	ℓ_{18}	ℓ_{20}	ℓ_{21}	ℓ_{23}	ℓ_{25}
in point	P_{2865}	P_{2538}	P_{2538}	P_{2865}	P_{1989}	P_{3507}	P_{671}	P_{671}	P_{3507}	P_{1989}

Line 16 intersects

Line	ℓ_0	ℓ_5	ℓ_6	ℓ_{11}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{21}	ℓ_{22}	ℓ_{24}
in point	P_1	P_{3169}	P_{3169}	P_1	P_{3153}	P_{3313}	P_{3329}	P_{3329}	P_{3313}	P_{3153}

Line 17 intersects

Line	ℓ_1	ℓ_2	ℓ_7	ℓ_8	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{24}	ℓ_{25}	ℓ_{26}
in point	P_{771}	P_{3770}	P_{3770}	P_{771}	P_{4239}	P_{1989}	P_{3153}	P_{3153}	P_{1989}	P_{4239}

Line 18 intersects

Line	ℓ_1	ℓ_3	ℓ_7	ℓ_9	ℓ_{13}	ℓ_{15}	ℓ_{16}	ℓ_{22}	ℓ_{23}	ℓ_{26}
in point	P_{618}	P_{2255}	P_{2255}	P_{618}	P_{1653}	P_{3507}	P_{3313}	P_{3313}	P_{3507}	P_{1653}

Line 19 intersects

Line	ℓ_1	ℓ_4	ℓ_7	ℓ_{10}	ℓ_{13}	ℓ_{14}	ℓ_{16}	ℓ_{21}	ℓ_{23}	ℓ_{25}
in point	P_{639}	P_{1235}	P_{1235}	P_{639}	P_{1530}	P_{933}	P_{3329}	P_{3329}	P_{933}	P_{1530}

Line 20 intersects

Line	ℓ_1	ℓ_5	ℓ_7	ℓ_{11}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{21}	ℓ_{22}	ℓ_{24}
in point	P_{530}	P_{581}	P_{581}	P_{530}	P_{739}	P_{730}	P_{671}	P_{671}	P_{730}	P_{739}

Line 21 intersects

Line	ℓ_2	ℓ_3	ℓ_8	ℓ_9	ℓ_{12}	ℓ_{15}	ℓ_{16}	ℓ_{19}	ℓ_{20}	ℓ_{26}
in point	P_{997}	P_{1418}	P_{1418}	P_{997}	P_{1267}	P_{671}	P_{3329}	P_{3329}	P_{671}	P_{1267}

Line 22 intersects

Line	ℓ_2	ℓ_4	ℓ_8	ℓ_{10}	ℓ_{12}	ℓ_{14}	ℓ_{16}	ℓ_{18}	ℓ_{20}	ℓ_{25}
in point	P_{3475}	P_{1589}	P_{1589}	P_{3475}	P_{2159}	P_{730}	P_{3313}	P_{3313}	P_{730}	P_{2159}

Line 23 intersects

Line	ℓ_2	ℓ_5	ℓ_8	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{18}	ℓ_{19}	ℓ_{24}
in point	P_{705}	P_{2783}	P_{2783}	P_{705}	P_{3658}	P_{933}	P_{3507}	P_{3507}	P_{933}	P_{3658}

Line 24 intersects

Line	ℓ_3	ℓ_4	ℓ_9	ℓ_{10}	ℓ_{12}	ℓ_{13}	ℓ_{16}	ℓ_{17}	ℓ_{20}	ℓ_{23}
in point	P_{2053}	P_{4271}	P_{4271}	P_{2053}	P_{3658}	P_{739}	P_{3153}	P_{3153}	P_{739}	P_{3658}

Line 25 intersects

Line	ℓ_3	ℓ_5	ℓ_9	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{15}	ℓ_{17}	ℓ_{19}	ℓ_{22}
in point	P_{689}	P_{3955}	P_{3955}	P_{689}	P_{2159}	P_{1530}	P_{1989}	P_{1989}	P_{1530}	P_{2159}

Line 26 intersects

Line	ℓ_4	ℓ_5	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{17}	ℓ_{18}	ℓ_{21}
in point	P_{546}	P_{2394}	P_{2394}	P_{546}	P_{1267}	P_{1653}	P_{4239}	P_{4239}	P_{1653}	P_{1267}

The surface has 369 points:

The points on the surface are:

$$\begin{array}{lll}
0 : P_1 = (0, 1, 0, 0) & 9 : P_{112} = (13, 5, 1, 0) & 18 : P_{196} = (1, 11, 1, 0) \\
1 : P_{14} = (10, 1, 0, 0) & 10 : P_{114} = (15, 5, 1, 0) & 19 : P_{198} = (3, 11, 1, 0) \\
2 : P_{15} = (11, 1, 0, 0) & 11 : P_{150} = (3, 8, 1, 0) & 20 : P_{203} = (8, 11, 1, 0) \\
3 : P_{62} = (11, 2, 1, 0) & 12 : P_{154} = (7, 8, 1, 0) & 21 : P_{253} = (10, 14, 1, 0) \\
4 : P_{73} = (6, 3, 1, 0) & 13 : P_{160} = (13, 8, 1, 0) & 22 : P_{264} = (5, 15, 1, 0) \\
5 : P_{75} = (8, 3, 1, 0) & 14 : P_{174} = (11, 9, 1, 0) & 23 : P_{266} = (7, 15, 1, 0) \\
6 : P_{79} = (12, 3, 1, 0) & 15 : P_{180} = (1, 10, 1, 0) & 24 : P_{271} = (12, 15, 1, 0) \\
7 : P_{93} = (10, 4, 1, 0) & 16 : P_{184} = (5, 10, 1, 0) & 25 : P_{317} = (11, 2, 0, 1) \\
8 : P_{105} = (6, 5, 1, 0) & 17 : P_{194} = (15, 10, 1, 0) & 26 : P_{328} = (6, 3, 0, 1)
\end{array}$$

27 : $P_{330} = (8, 3, 0, 1)$	81 : $P_{721} = (0, 12, 1, 1)$	135 : $P_{1380} = (3, 5, 4, 1)$
28 : $P_{334} = (12, 3, 0, 1)$	82 : $P_{726} = (5, 12, 1, 1)$	136 : $P_{1396} = (3, 6, 4, 1)$
29 : $P_{348} = (10, 4, 0, 1)$	83 : $P_{730} = (9, 12, 1, 1)$	137 : $P_{1399} = (6, 6, 4, 1)$
30 : $P_{360} = (6, 5, 0, 1)$	84 : $P_{737} = (0, 13, 1, 1)$	138 : $P_{1418} = (9, 7, 4, 1)$
31 : $P_{367} = (13, 5, 0, 1)$	85 : $P_{739} = (2, 13, 1, 1)$	139 : $P_{1430} = (5, 8, 4, 1)$
32 : $P_{369} = (15, 5, 0, 1)$	86 : $P_{752} = (15, 13, 1, 1)$	140 : $P_{1454} = (13, 9, 4, 1)$
33 : $P_{405} = (3, 8, 0, 1)$	87 : $P_{753} = (0, 14, 1, 1)$	141 : $P_{1490} = (1, 12, 4, 1)$
34 : $P_{409} = (7, 8, 0, 1)$	88 : $P_{759} = (6, 14, 1, 1)$	142 : $P_{1506} = (1, 13, 4, 1)$
35 : $P_{415} = (13, 8, 0, 1)$	89 : $P_{761} = (8, 14, 1, 1)$	143 : $P_{1510} = (5, 13, 4, 1)$
36 : $P_{429} = (11, 9, 0, 1)$	90 : $P_{769} = (0, 15, 1, 1)$	144 : $P_{1517} = (12, 13, 4, 1)$
37 : $P_{435} = (1, 10, 0, 1)$	91 : $P_{771} = (2, 15, 1, 1)$	145 : $P_{1530} = (9, 14, 4, 1)$
38 : $P_{439} = (5, 10, 0, 1)$	92 : $P_{782} = (13, 15, 1, 1)$	146 : $P_{1548} = (11, 15, 4, 1)$
39 : $P_{449} = (15, 10, 0, 1)$	93 : $P_{797} = (12, 0, 2, 1)$	147 : $P_{1556} = (3, 0, 5, 1)$
40 : $P_{451} = (1, 11, 0, 1)$	94 : $P_{808} = (7, 1, 2, 1)$	148 : $P_{1564} = (11, 0, 5, 1)$
41 : $P_{453} = (3, 11, 0, 1)$	95 : $P_{823} = (6, 2, 2, 1)$	149 : $P_{1565} = (12, 0, 5, 1)$
42 : $P_{458} = (8, 11, 0, 1)$	96 : $P_{827} = (10, 2, 2, 1)$	150 : $P_{1589} = (4, 2, 5, 1)$
43 : $P_{508} = (10, 14, 0, 1)$	97 : $P_{830} = (13, 2, 2, 1)$	151 : $P_{1604} = (3, 3, 5, 1)$
44 : $P_{519} = (5, 15, 0, 1)$	98 : $P_{848} = (15, 3, 2, 1)$	152 : $P_{1608} = (7, 3, 5, 1)$
45 : $P_{521} = (7, 15, 0, 1)$	99 : $P_{855} = (6, 4, 2, 1)$	153 : $P_{1624} = (7, 4, 5, 1)$
46 : $P_{526} = (12, 15, 0, 1)$	100 : $P_{868} = (3, 5, 2, 1)$	154 : $P_{1625} = (8, 4, 5, 1)$
47 : $P_{530} = (0, 0, 1, 1)$	101 : $P_{882} = (1, 6, 2, 1)$	155 : $P_{1632} = (15, 4, 5, 1)$
48 : $P_{546} = (0, 1, 1, 1)$	102 : $P_{884} = (3, 6, 2, 1)$	156 : $P_{1653} = (4, 6, 5, 1)$
49 : $P_{555} = (10, 1, 1, 1)$	103 : $P_{888} = (7, 6, 2, 1)$	157 : $P_{1682} = (1, 8, 5, 1)$
50 : $P_{556} = (11, 1, 1, 1)$	104 : $P_{898} = (1, 7, 2, 1)$	158 : $P_{1698} = (1, 9, 5, 1)$
51 : $P_{561} = (0, 2, 1, 1)$	105 : $P_{923} = (10, 8, 2, 1)$	159 : $P_{1718} = (5, 10, 5, 1)$
52 : $P_{574} = (13, 2, 1, 1)$	106 : $P_{933} = (4, 9, 2, 1)$	160 : $P_{1740} = (11, 11, 5, 1)$
53 : $P_{576} = (15, 2, 1, 1)$	107 : $P_{989} = (12, 12, 2, 1)$	161 : $P_{1744} = (15, 11, 5, 1)$
54 : $P_{577} = (0, 3, 1, 1)$	108 : $P_{992} = (15, 12, 2, 1)$	162 : $P_{1753} = (8, 12, 5, 1)$
55 : $P_{581} = (4, 3, 1, 1)$	109 : $P_{997} = (4, 13, 2, 1)$	163 : $P_{1757} = (12, 12, 5, 1)$
56 : $P_{584} = (7, 3, 1, 1)$	110 : $P_{1038} = (13, 15, 2, 1)$	164 : $P_{1798} = (5, 15, 5, 1)$
57 : $P_{593} = (0, 4, 1, 1)$	111 : $P_{1048} = (7, 0, 3, 1)$	165 : $P_{1822} = (13, 0, 6, 1)$
58 : $P_{596} = (3, 4, 1, 1)$	112 : $P_{1051} = (10, 0, 3, 1)$	166 : $P_{1830} = (5, 1, 6, 1)$
59 : $P_{600} = (7, 4, 1, 1)$	113 : $P_{1056} = (15, 0, 3, 1)$	167 : $P_{1833} = (8, 1, 6, 1)$
60 : $P_{609} = (0, 5, 1, 1)$	114 : $P_{1078} = (5, 2, 3, 1)$	168 : $P_{1836} = (11, 1, 6, 1)$
61 : $P_{618} = (9, 5, 1, 1)$	115 : $P_{1081} = (8, 2, 3, 1)$	169 : $P_{1848} = (7, 2, 6, 1)$
62 : $P_{621} = (12, 5, 1, 1)$	116 : $P_{1086} = (13, 2, 3, 1)$	170 : $P_{1863} = (6, 3, 6, 1)$
63 : $P_{625} = (0, 6, 1, 1)$	117 : $P_{1106} = (1, 4, 3, 1)$	171 : $P_{1878} = (5, 4, 6, 1)$
64 : $P_{633} = (8, 6, 1, 1)$	118 : $P_{1122} = (1, 5, 3, 1)$	172 : $P_{1892} = (3, 5, 6, 1)$
65 : $P_{639} = (14, 6, 1, 1)$	119 : $P_{1158} = (5, 7, 3, 1)$	173 : $P_{1895} = (6, 5, 6, 1)$
66 : $P_{641} = (0, 7, 1, 1)$	120 : $P_{1160} = (7, 7, 3, 1)$	174 : $P_{1896} = (7, 5, 6, 1)$
67 : $P_{644} = (3, 7, 1, 1)$	121 : $P_{1172} = (3, 8, 3, 1)$	175 : $P_{1908} = (3, 6, 6, 1)$
68 : $P_{645} = (4, 7, 1, 1)$	122 : $P_{1209} = (8, 10, 3, 1)$	176 : $P_{1931} = (10, 7, 6, 1)$
69 : $P_{657} = (0, 8, 1, 1)$	123 : $P_{1211} = (10, 10, 3, 1)$	177 : $P_{1961} = (8, 9, 6, 1)$
70 : $P_{663} = (6, 8, 1, 1)$	124 : $P_{1220} = (3, 11, 3, 1)$	178 : $P_{1980} = (11, 10, 6, 1)$
71 : $P_{671} = (14, 8, 1, 1)$	125 : $P_{1235} = (2, 12, 3, 1)$	179 : $P_{1989} = (4, 11, 6, 1)$
72 : $P_{673} = (0, 9, 1, 1)$	126 : $P_{1267} = (2, 14, 3, 1)$	180 : $P_{2027} = (10, 13, 6, 1)$
73 : $P_{678} = (5, 9, 1, 1)$	127 : $P_{1294} = (13, 15, 3, 1)$	181 : $P_{2030} = (13, 13, 6, 1)$
74 : $P_{685} = (12, 9, 1, 1)$	128 : $P_{1296} = (15, 15, 3, 1)$	182 : $P_{2053} = (4, 15, 6, 1)$
75 : $P_{689} = (0, 10, 1, 1)$	129 : $P_{1303} = (6, 0, 4, 1)$	183 : $P_{2077} = (12, 0, 7, 1)$
76 : $P_{690} = (1, 10, 1, 1)$	130 : $P_{1325} = (12, 1, 4, 1)$	184 : $P_{2084} = (3, 1, 7, 1)$
77 : $P_{700} = (11, 10, 1, 1)$	131 : $P_{1352} = (7, 3, 4, 1)$	185 : $P_{2092} = (11, 1, 7, 1)$
78 : $P_{705} = (0, 11, 1, 1)$	132 : $P_{1368} = (7, 4, 4, 1)$	186 : $P_{2096} = (15, 1, 7, 1)$
79 : $P_{706} = (1, 11, 1, 1)$	133 : $P_{1372} = (11, 4, 4, 1)$	187 : $P_{2100} = (3, 2, 7, 1)$
80 : $P_{715} = (10, 11, 1, 1)$	134 : $P_{1374} = (13, 4, 4, 1)$	188 : $P_{2159} = (14, 5, 7, 1)$

189 : $P_{2171} = (10, 6, 7, 1)$	243 : $P_{2881} = (0, 3, 10, 1)$	297 : $P_{3351} = (6, 0, 12, 1)$
190 : $P_{2185} = (8, 7, 7, 1)$	244 : $P_{2897} = (0, 4, 10, 1)$	298 : $P_{3364} = (3, 1, 12, 1)$
191 : $P_{2200} = (7, 8, 7, 1)$	245 : $P_{2902} = (5, 4, 10, 1)$	299 : $P_{3366} = (5, 1, 12, 1)$
192 : $P_{2215} = (6, 9, 7, 1)$	246 : $P_{2907} = (10, 4, 10, 1)$	300 : $P_{3371} = (10, 1, 12, 1)$
193 : $P_{2236} = (11, 10, 7, 1)$	247 : $P_{2913} = (0, 5, 10, 1)$	301 : $P_{3380} = (3, 2, 12, 1)$
194 : $P_{2255} = (14, 11, 7, 1)$	248 : $P_{2929} = (0, 6, 10, 1)$	302 : $P_{3405} = (12, 3, 12, 1)$
195 : $P_{2267} = (10, 12, 7, 1)$	249 : $P_{2945} = (0, 7, 10, 1)$	303 : $P_{3406} = (13, 3, 12, 1)$
196 : $P_{2269} = (12, 12, 7, 1)$	250 : $P_{2961} = (0, 8, 10, 1)$	304 : $P_{3408} = (15, 3, 12, 1)$
197 : $P_{2304} = (15, 14, 7, 1)$	251 : $P_{2977} = (0, 9, 10, 1)$	305 : $P_{3414} = (5, 4, 12, 1)$
198 : $P_{2311} = (6, 15, 7, 1)$	252 : $P_{2993} = (0, 10, 10, 1)$	306 : $P_{3447} = (6, 6, 12, 1)$
199 : $P_{2312} = (7, 15, 7, 1)$	253 : $P_{2999} = (6, 10, 10, 1)$	307 : $P_{3452} = (11, 6, 12, 1)$
200 : $P_{2313} = (8, 15, 7, 1)$	254 : $P_{3000} = (7, 10, 10, 1)$	308 : $P_{3475} = (2, 8, 12, 1)$
201 : $P_{2326} = (5, 0, 8, 1)$	255 : $P_{3009} = (0, 11, 10, 1)$	309 : $P_{3507} = (2, 10, 12, 1)$
202 : $P_{2327} = (6, 0, 8, 1)$	256 : $P_{3020} = (11, 11, 10, 1)$	310 : $P_{3531} = (10, 11, 12, 1)$
203 : $P_{2331} = (10, 0, 8, 1)$	257 : $P_{3025} = (0, 12, 10, 1)$	311 : $P_{3552} = (15, 12, 12, 1)$
204 : $P_{2377} = (8, 3, 8, 1)$	258 : $P_{3026} = (1, 12, 10, 1)$	312 : $P_{3564} = (11, 13, 12, 1)$
205 : $P_{2394} = (9, 4, 8, 1)$	259 : $P_{3031} = (6, 12, 10, 1)$	313 : $P_{3582} = (13, 14, 12, 1)$
206 : $P_{2406} = (5, 5, 8, 1)$	260 : $P_{3041} = (0, 13, 10, 1)$	314 : $P_{3597} = (12, 15, 12, 1)$
207 : $P_{2413} = (12, 5, 8, 1)$	261 : $P_{3042} = (1, 13, 10, 1)$	315 : $P_{3608} = (7, 0, 13, 1)$
208 : $P_{2423} = (6, 6, 8, 1)$	262 : $P_{3048} = (7, 13, 10, 1)$	316 : $P_{3625} = (8, 1, 13, 1)$
209 : $P_{2432} = (15, 6, 8, 1)$	263 : $P_{3057} = (0, 14, 10, 1)$	317 : $P_{3627} = (10, 1, 13, 1)$
210 : $P_{2468} = (3, 9, 8, 1)$	264 : $P_{3067} = (10, 14, 10, 1)$	318 : $P_{3632} = (15, 1, 13, 1)$
211 : $P_{2477} = (12, 9, 8, 1)$	265 : $P_{3072} = (15, 14, 10, 1)$	319 : $P_{3658} = (9, 3, 13, 1)$
212 : $P_{2480} = (15, 9, 8, 1)$	266 : $P_{3073} = (0, 15, 10, 1)$	320 : $P_{3677} = (12, 4, 13, 1)$
213 : $P_{2484} = (3, 10, 8, 1)$	267 : $P_{3089} = (0, 0, 11, 1)$	321 : $P_{3694} = (13, 5, 13, 1)$
214 : $P_{2491} = (10, 10, 8, 1)$	268 : $P_{3099} = (10, 0, 11, 1)$	322 : $P_{3720} = (7, 7, 13, 1)$
215 : $P_{2505} = (8, 11, 8, 1)$	269 : $P_{3105} = (0, 1, 11, 1)$	323 : $P_{3724} = (11, 7, 13, 1)$
216 : $P_{2538} = (9, 13, 8, 1)$	270 : $P_{3108} = (3, 1, 11, 1)$	324 : $P_{3734} = (5, 8, 13, 1)$
217 : $P_{2546} = (1, 14, 8, 1)$	271 : $P_{3113} = (8, 1, 11, 1)$	325 : $P_{3741} = (12, 8, 13, 1)$
218 : $P_{2562} = (1, 15, 8, 1)$	272 : $P_{3121} = (0, 2, 11, 1)$	326 : $P_{3742} = (13, 8, 13, 1)$
219 : $P_{2590} = (13, 0, 9, 1)$	273 : $P_{3124} = (3, 2, 11, 1)$	327 : $P_{3753} = (8, 9, 13, 1)$
220 : $P_{2599} = (6, 1, 9, 1)$	274 : $P_{3132} = (11, 2, 11, 1)$	328 : $P_{3770} = (9, 10, 13, 1)$
221 : $P_{2623} = (14, 2, 9, 1)$	275 : $P_{3137} = (0, 3, 11, 1)$	329 : $P_{3787} = (10, 11, 13, 1)$
222 : $P_{2635} = (10, 3, 9, 1)$	276 : $P_{3153} = (0, 4, 11, 1)$	330 : $P_{3804} = (11, 12, 13, 1)$
223 : $P_{2669} = (12, 5, 9, 1)$	277 : $P_{3169} = (0, 5, 11, 1)$	331 : $P_{3814} = (5, 13, 13, 1)$
224 : $P_{2674} = (1, 6, 9, 1)$	278 : $P_{3185} = (0, 6, 11, 1)$	332 : $P_{3840} = (15, 14, 13, 1)$
225 : $P_{2690} = (1, 7, 9, 1)$	279 : $P_{3186} = (1, 6, 11, 1)$	333 : $P_{3864} = (7, 0, 14, 1)$
226 : $P_{2695} = (6, 7, 9, 1)$	280 : $P_{3198} = (13, 6, 11, 1)$	334 : $P_{3886} = (13, 1, 14, 1)$
227 : $P_{2697} = (8, 7, 9, 1)$	281 : $P_{3201} = (0, 7, 11, 1)$	335 : $P_{3901} = (12, 2, 14, 1)$
228 : $P_{2710} = (5, 8, 9, 1)$	282 : $P_{3202} = (1, 7, 11, 1)$	336 : $P_{3920} = (15, 3, 14, 1)$
229 : $P_{2728} = (7, 9, 9, 1)$	283 : $P_{3213} = (12, 7, 11, 1)$	337 : $P_{3923} = (2, 4, 14, 1)$
230 : $P_{2731} = (10, 9, 9, 1)$	284 : $P_{3217} = (0, 8, 11, 1)$	338 : $P_{3948} = (11, 5, 14, 1)$
231 : $P_{2733} = (12, 9, 9, 1)$	285 : $P_{3233} = (0, 9, 11, 1)$	339 : $P_{3955} = (2, 6, 14, 1)$
232 : $P_{2783} = (14, 12, 9, 1)$	286 : $P_{3241} = (8, 9, 11, 1)$	340 : $P_{3976} = (7, 7, 14, 1)$
233 : $P_{2790} = (5, 13, 9, 1)$	287 : $P_{3244} = (11, 9, 11, 1)$	341 : $P_{3977} = (8, 7, 14, 1)$
234 : $P_{2798} = (13, 13, 9, 1)$	288 : $P_{3249} = (0, 10, 11, 1)$	342 : $P_{3991} = (6, 8, 14, 1)$
235 : $P_{2808} = (7, 14, 9, 1)$	289 : $P_{3259} = (10, 10, 11, 1)$	343 : $P_{4050} = (1, 12, 14, 1)$
236 : $P_{2825} = (8, 15, 9, 1)$	290 : $P_{3265} = (0, 11, 11, 1)$	344 : $P_{4062} = (13, 12, 14, 1)$
237 : $P_{2833} = (0, 0, 10, 1)$	291 : $P_{3277} = (12, 11, 11, 1)$	345 : $P_{4064} = (15, 12, 14, 1)$
238 : $P_{2844} = (11, 0, 10, 1)$	292 : $P_{3278} = (13, 11, 11, 1)$	346 : $P_{4066} = (1, 13, 14, 1)$
239 : $P_{2849} = (0, 1, 10, 1)$	293 : $P_{3281} = (0, 12, 11, 1)$	347 : $P_{4087} = (6, 14, 14, 1)$
240 : $P_{2854} = (5, 1, 10, 1)$	294 : $P_{3297} = (0, 13, 11, 1)$	348 : $P_{4092} = (11, 14, 14, 1)$
241 : $P_{2864} = (15, 1, 10, 1)$	295 : $P_{3313} = (0, 14, 11, 1)$	349 : $P_{4093} = (12, 14, 14, 1)$
242 : $P_{2865} = (0, 2, 10, 1)$	296 : $P_{3329} = (0, 15, 11, 1)$	350 : $P_{4105} = (8, 15, 14, 1)$

351 : $P_{4121} = (8, 0, 15, 1)$	358 : $P_{4247} = (6, 8, 15, 1)$	365 : $P_{4334} = (13, 13, 15, 1)$
352 : $P_{4124} = (11, 0, 15, 1)$	359 : $P_{4249} = (8, 8, 15, 1)$	366 : $P_{4340} = (3, 14, 15, 1)$
353 : $P_{4126} = (13, 0, 15, 1)$	360 : $P_{4271} = (14, 9, 15, 1)$	367 : $P_{4342} = (5, 14, 15, 1)$
354 : $P_{4146} = (1, 2, 15, 1)$	361 : $P_{4288} = (15, 10, 15, 1)$	368 : $P_{4343} = (6, 14, 15, 1)$
355 : $P_{4162} = (1, 3, 15, 1)$	362 : $P_{4294} = (5, 11, 15, 1)$	
356 : $P_{4208} = (15, 5, 15, 1)$	363 : $P_{4300} = (11, 11, 15, 1)$	
357 : $P_{4239} = (14, 7, 15, 1)$	364 : $P_{4324} = (3, 13, 15, 1)$	