Rank-76307 over GF(64)

January 15, 2021

The equation

The equation of the surface is :

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

(0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(64) is 1107562565

General information

Number of lines	16
Number of points	4417
Number of singular points	2
Number of Eckardt points	3
Number of double points	29
Number of single points	963
Number of points off lines	3420
Number of Hesse planes	0
Number of axes	0
Type of points on lines	65^{16}
Type of lines on points	$5^2, 3^3, 2^{29}, 1^{963}, 0^{3420}$

Singular Points

The surface has 2 singular points:

$0 : P_{123} = \mathbf{P}(\epsilon^{42}, 0, 1, 0) = \mathbf{P}(56, 0, 1, 0)$
$1 : P_{124} = \mathbf{P}(\epsilon^{21}, 0, 1, 0) = \mathbf{P}(57, 0, 1, 0)$

The 16 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4096} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{4096} = \mathbf{Pl}(0,0,1,0,0,0)_2$$

$$\ell_1 = \begin{bmatrix} 1 & 0 & \epsilon^{42} & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{233016} = \begin{bmatrix} 1 & 0 & 56 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{233016} = \mathbf{Pl}(57,0,0,0,0,1)_{270458}$$

$$\ell_2 = \begin{bmatrix} 1 & 0 & \epsilon^{21} & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{237177} = \begin{bmatrix} 1 & 0 & 57 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{237177} = \mathbf{Pl}(56,0,0,0,0,1)_{270457}$$

$$\ell_3 = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047616} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047616} = \mathbf{Pl}(0,1,0,0,0,0)_{1}$$

$$\ell_4 = \begin{bmatrix} 1 & 0 & \epsilon^{21} & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{237242} = \begin{bmatrix} 1 & 0 & 57 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{237242} = \mathbf{Pl}(1,1,1,0,56,1)_{14951040}$$

$$\ell_5 = \begin{bmatrix} 1 & 0 & \epsilon^{21} & 0 \\ 0 & 1 & \epsilon^{42} & \epsilon^{21} \end{bmatrix}_{240881} = \begin{bmatrix} 1 & 0 & 57 & 0 \\ 0 & 1 & 56 & 57 \end{bmatrix}_{240881} = \mathbf{Pl}(56,57,57,0,1,1)_{540223}$$

$$\ell_6 = \begin{bmatrix} 1 & 0 & \epsilon^{21} & 0 \\ 0 & 1 & \epsilon^{21} & \epsilon^{42} \end{bmatrix}_{240818} = \begin{bmatrix} 1 & 0 & 57 & 0 \\ 0 & 1 & 57 & 56 \end{bmatrix}_{240818} = \mathbf{Pl}(57,56,56,0,57,1)_{15216641}$$

$$\ell_7 = \begin{bmatrix} 1 & 0 & \epsilon^{42} & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{233081} = \begin{bmatrix} 1 & 0 & 56 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{233081} = \mathbf{Pl}(1,1,1,0,57,1)_{15213120}$$

$$\ell_8 = \begin{bmatrix} 1 & 0 & \epsilon^{42} & 0 \\ 0 & 1 & \epsilon^{42} & \epsilon^{21} \end{bmatrix}_{236720} = \begin{bmatrix} 1 & 0 & 56 & 0 \\ 0 & 1 & 56 & 57 \end{bmatrix}_{236720} = \mathbf{Pl}(56,57,57,0,56,1)_{14954623}$$

$$\ell_9 = \begin{bmatrix} 1 & 0 & \epsilon^{42} & 0 \\ 0 & 1 & \epsilon^{21} & \epsilon^{42} \end{bmatrix}_{236657} = \begin{bmatrix} 1 & 0 & 56 & 0 \\ 0 & 1 & 57 & 56 \end{bmatrix}_{236657} = \mathbf{Pl}(57,56,56,0,1,1)_{540161}$$

$$\ell_{10} = \begin{bmatrix} 1 & \epsilon^{21} & 0 & 1 \\ 0 & 0 & 1 & \epsilon^{42} \end{bmatrix}_{507633} = \begin{bmatrix} 1 & 57 & 0 & 1 \\ 0 & 0 & 1 & 56 \end{bmatrix}_{507633} = \mathbf{Pl}(0,56,57,56,57,1)_{15228289}$$

$$\ell_{11} = \begin{bmatrix} 1 & \epsilon^{42} & 0 & 1 \\ 0 & 0 & 1 & \epsilon^{21} \end{bmatrix}_{503473} = \begin{bmatrix} 1 & 56 & 0 & 1 \\ 0 & 0 & 1 & 57 \end{bmatrix}_{503473} = \mathbf{Pl}(0,57,56,57,56,1)_{14966083}$$

$$\ell_{12} = \begin{bmatrix} 1 & 1 & 0 & \epsilon^{21} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{15187586} = \begin{bmatrix} 1 & 1 & 0 & 57 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{15187586} = \mathbf{Pl}(0,57,1,1,1,1)_{544698}$$

$$\ell_{13} = \begin{bmatrix} 1 & \epsilon^{21} & 0 & \epsilon^{21} \\ 0 & 0 & 1 & \epsilon^{42} \end{bmatrix}_{15420657} = \begin{bmatrix} 1 & 57 & 0 & 57 \\ 0 & 0 & 1 & 56 \end{bmatrix}_{15420657} = \mathbf{Pl}(0,1,57,56,57,1)_{15228234}$$

$$\ell_{14} = \begin{bmatrix} 1 & \epsilon^{42} & 0 & \epsilon^{42} \\ 0 & 0 & 1 & \epsilon^{21} \end{bmatrix}_{15150193} = \begin{bmatrix} 1 & 56 & 0 & 56 \\ 0 & 0 & 1 & 57 \end{bmatrix}_{15150193} = \mathbf{Pl}(0,1,56,57,56,1)_{14966027}$$

$$\ell_{15} = \begin{bmatrix} 1 & 1 & 0 & \epsilon^{42} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{14921282} = \begin{bmatrix} 1 & 1 & 0 & 56 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{14921282} = \mathbf{Pl}(0,56,1,1,1,1)_{544697}$$

Rank of lines: (4096, 233016, 237177, 17047616, 237242, 240881, 240818, 233081, 236720, 236657, 507633, 503473, 15187586, 15420657, 15150193, 14921282)

Rank of points on Klein quadric: (2, 270458, 270457, 1, 14951040, 540223, 15216641, 15213120, 14954623, 540161, 15228289, 14966083, 544698, 15228234, 14966027, 544697)

Eckardt Points

The surface has **3** Eckardt points:
0 : $P_{8258} = \mathbf{P}(0,0,1,1) = \mathbf{P}(0,0,1,1)$,
1 : $P_{233537} = \mathbf{P}(0,0,\epsilon^{42},1) = \mathbf{P}(0,0,56,1)$,
2 : $P_{237633} = \mathbf{P}(0,0,\epsilon^{21},1) = \mathbf{P}(0,0,57,1)$.

Double Points

The surface has **29** Double points:
The double points on the surface are:

$P_2 = (0, 0, 1, 0) = \ell_0 \cap \ell_3$
$P_1 = (0, 1, 0, 0) = \ell_1 \cap \ell_2$
$P_{188} = (57, 1, 1, 0) = \ell_1 \cap \ell_{11}$
$P_{3708} = (57, 56, 1, 0) = \ell_1 \cap \ell_{13}$
$P_{3772} = (57, 57, 1, 0) = \ell_1 \cap \ell_{15}$
$P_{187} = (56, 1, 1, 0) = \ell_2 \cap \ell_{10}$
$P_{3707} = (56, 56, 1, 0) = \ell_2 \cap \ell_{12}$
$P_{3771} = (56, 57, 1, 0) = \ell_2 \cap \ell_{14}$
$P_{8322} = (0, 1, 1, 1) = \ell_4 \cap \ell_7$
$P_{237754} = (57, 1, 57, 1) = \ell_4 \cap \ell_{11}$
$P_{233602} = (1, 1, 56, 1) = \ell_4 \cap \ell_{12}$
$P_{4282} = (56, 1, 0, 1) = \ell_4 \cap \ell_{13}$
$P_{241217} = (0, 56, 57, 1) = \ell_5 \cap \ell_8$
$P_{11898} = (57, 56, 1, 1) = \ell_5 \cap \ell_{10}$
$P_{7747} = (1, 56, 0, 1) = \ell_5 \cap \ell_{11}$

$P_{237177} = (56, 56, 56, 1) = \ell_5 \cap \ell_{15}$
$P_{237185} = (0, 57, 56, 1) = \ell_6 \cap \ell_9$
$P_{11906} = (1, 57, 1, 1) = \ell_6 \cap \ell_{13}$
$P_{241337} = (56, 57, 57, 1) = \ell_6 \cap \ell_{14}$
$P_{7867} = (57, 57, 0, 1) = \ell_6 \cap \ell_{15}$
$P_{233657} = (56, 1, 56, 1) = \ell_7 \cap \ell_{10}$
$P_{4283} = (57, 1, 0, 1) = \ell_7 \cap \ell_{14}$
$P_{237698} = (1, 1, 57, 1) = \ell_7 \cap \ell_{15}$
$P_{7802} = (56, 56, 0, 1) = \ell_8 \cap \ell_{12}$
$P_{237178} = (57, 56, 56, 1) = \ell_8 \cap \ell_{13}$
$P_{11842} = (1, 56, 1, 1) = \ell_8 \cap \ell_{14}$
$P_{7811} = (1, 57, 0, 1) = \ell_9 \cap \ell_{10}$
$P_{11961} = (56, 57, 1, 1) = \ell_9 \cap \ell_{11}$
$P_{241338} = (57, 57, 57, 1) = \ell_9 \cap \ell_{12}$

Single Points

The surface has 963 single points:
The single points on the surface are:

$0 :$ $P_0 = (1, 0, 0, 0)$ lies on line ℓ_0
$1 :$ $P_3 = (0, 0, 0, 1)$ lies on line ℓ_3
$2 :$ $P_{68} = (1, 0, 1, 0)$ lies on line ℓ_0
$3 :$ $P_{69} = (2, 0, 1, 0)$ lies on line ℓ_0
$4 :$ $P_{70} = (3, 0, 1, 0)$ lies on line ℓ_0
$5 :$ $P_{71} = (4, 0, 1, 0)$ lies on line ℓ_0
$6 :$ $P_{72} = (5, 0, 1, 0)$ lies on line ℓ_0
$7 :$ $P_{73} = (6, 0, 1, 0)$ lies on line ℓ_0
$8 :$ $P_{74} = (7, 0, 1, 0)$ lies on line ℓ_0
$9 :$ $P_{75} = (8, 0, 1, 0)$ lies on line ℓ_0
$10 :$ $P_{76} = (9, 0, 1, 0)$ lies on line ℓ_0
$11 :$ $P_{77} = (10, 0, 1, 0)$ lies on line ℓ_0
$12 :$ $P_{78} = (11, 0, 1, 0)$ lies on line ℓ_0
$13 :$ $P_{79} = (12, 0, 1, 0)$ lies on line ℓ_0
$14 :$ $P_{80} = (13, 0, 1, 0)$ lies on line ℓ_0
$15 :$ $P_{81} = (14, 0, 1, 0)$ lies on line ℓ_0
$16 :$ $P_{82} = (15, 0, 1, 0)$ lies on line ℓ_0
$17 :$ $P_{83} = (16, 0, 1, 0)$ lies on line ℓ_0
$18 :$ $P_{84} = (17, 0, 1, 0)$ lies on line ℓ_0
$19 :$ $P_{85} = (18, 0, 1, 0)$ lies on line ℓ_0
$20 :$ $P_{86} = (19, 0, 1, 0)$ lies on line ℓ_0
$21 :$ $P_{87} = (20, 0, 1, 0)$ lies on line ℓ_0
$22 :$ $P_{88} = (21, 0, 1, 0)$ lies on line ℓ_0
$23 :$ $P_{89} = (22, 0, 1, 0)$ lies on line ℓ_0
$24 :$ $P_{90} = (23, 0, 1, 0)$ lies on line ℓ_0
$25 :$ $P_{91} = (24, 0, 1, 0)$ lies on line ℓ_0
$26 :$ $P_{92} = (25, 0, 1, 0)$ lies on line ℓ_0
$27 :$ $P_{93} = (26, 0, 1, 0)$ lies on line ℓ_0
$28 :$ $P_{94} = (27, 0, 1, 0)$ lies on line ℓ_0
$29 :$ $P_{95} = (28, 0, 1, 0)$ lies on line ℓ_0
$30 :$ $P_{96} = (29, 0, 1, 0)$ lies on line ℓ_0
$31 :$ $P_{97} = (30, 0, 1, 0)$ lies on line ℓ_0

$32 :$ $P_{98} = (31, 0, 1, 0)$ lies on line ℓ_0
$33 :$ $P_{99} = (32, 0, 1, 0)$ lies on line ℓ_0
$34 :$ $P_{100} = (33, 0, 1, 0)$ lies on line ℓ_0
$35 :$ $P_{101} = (34, 0, 1, 0)$ lies on line ℓ_0
$36 :$ $P_{102} = (35, 0, 1, 0)$ lies on line ℓ_0
$37 :$ $P_{103} = (36, 0, 1, 0)$ lies on line ℓ_0
$38 :$ $P_{104} = (37, 0, 1, 0)$ lies on line ℓ_0
$39 :$ $P_{105} = (38, 0, 1, 0)$ lies on line ℓ_0
$40 :$ $P_{106} = (39, 0, 1, 0)$ lies on line ℓ_0
$41 :$ $P_{107} = (40, 0, 1, 0)$ lies on line ℓ_0
$42 :$ $P_{108} = (41, 0, 1, 0)$ lies on line ℓ_0
$43 :$ $P_{109} = (42, 0, 1, 0)$ lies on line ℓ_0
$44 :$ $P_{110} = (43, 0, 1, 0)$ lies on line ℓ_0
$45 :$ $P_{111} = (44, 0, 1, 0)$ lies on line ℓ_0
$46 :$ $P_{112} = (45, 0, 1, 0)$ lies on line ℓ_0
$47 :$ $P_{113} = (46, 0, 1, 0)$ lies on line ℓ_0
$48 :$ $P_{114} = (47, 0, 1, 0)$ lies on line ℓ_0
$49 :$ $P_{115} = (48, 0, 1, 0)$ lies on line ℓ_0
$50 :$ $P_{116} = (49, 0, 1, 0)$ lies on line ℓ_0
$51 :$ $P_{117} = (50, 0, 1, 0)$ lies on line ℓ_0
$52 :$ $P_{118} = (51, 0, 1, 0)$ lies on line ℓ_0
$53 :$ $P_{119} = (52, 0, 1, 0)$ lies on line ℓ_0
$54 :$ $P_{120} = (53, 0, 1, 0)$ lies on line ℓ_0
$55 :$ $P_{121} = (54, 0, 1, 0)$ lies on line ℓ_0
$56 :$ $P_{122} = (55, 0, 1, 0)$ lies on line ℓ_0
$57 :$ $P_{125} = (58, 0, 1, 0)$ lies on line ℓ_0
$58 :$ $P_{126} = (59, 0, 1, 0)$ lies on line ℓ_0
$59 :$ $P_{127} = (60, 0, 1, 0)$ lies on line ℓ_0
$60 :$ $P_{128} = (61, 0, 1, 0)$ lies on line ℓ_0
$61 :$ $P_{129} = (62, 0, 1, 0)$ lies on line ℓ_0
$62 :$ $P_{130} = (63, 0, 1, 0)$ lies on line ℓ_0
$63 :$ $P_{251} = (56, 2, 1, 0)$ lies on line ℓ_2

$64: P_{252} = (57, 2, 1, 0)$ lies on line ℓ_1

$65: P_{315} = (56, 3, 1, 0)$ lies on line ℓ_2

$66: P_{316} = (57, 3, 1, 0)$ lies on line ℓ_1

$67: P_{379} = (56, 4, 1, 0)$ lies on line ℓ_2

$68: P_{380} = (57, 4, 1, 0)$ lies on line ℓ_1

$69: P_{443} = (56, 5, 1, 0)$ lies on line ℓ_2

$70: P_{444} = (57, 5, 1, 0)$ lies on line ℓ_1

$71: P_{507} = (56, 6, 1, 0)$ lies on line ℓ_2

$72: P_{508} = (57, 6, 1, 0)$ lies on line ℓ_1

$73: P_{571} = (56, 7, 1, 0)$ lies on line ℓ_2

$74: P_{572} = (57, 7, 1, 0)$ lies on line ℓ_1

$75: P_{635} = (56, 8, 1, 0)$ lies on line ℓ_2

$76: P_{636} = (57, 8, 1, 0)$ lies on line ℓ_1

$77: P_{699} = (56, 9, 1, 0)$ lies on line ℓ_2

$78: P_{700} = (57, 9, 1, 0)$ lies on line ℓ_1

$79: P_{763} = (56, 10, 1, 0)$ lies on line ℓ_2

$80: P_{764} = (57, 10, 1, 0)$ lies on line ℓ_1

$81: P_{827} = (56, 11, 1, 0)$ lies on line ℓ_2

$82: P_{828} = (57, 11, 1, 0)$ lies on line ℓ_1

$83: P_{891} = (56, 12, 1, 0)$ lies on line ℓ_2

$84: P_{892} = (57, 12, 1, 0)$ lies on line ℓ_1

$85: P_{955} = (56, 13, 1, 0)$ lies on line ℓ_2

$86: P_{956} = (57, 13, 1, 0)$ lies on line ℓ_1

$87: P_{1019} = (56, 14, 1, 0)$ lies on line ℓ_2

$88: P_{1020} = (57, 14, 1, 0)$ lies on line ℓ_1

$89: P_{1083} = (56, 15, 1, 0)$ lies on line ℓ_2

$90: P_{1084} = (57, 15, 1, 0)$ lies on line ℓ_1

$91: P_{1147} = (56, 16, 1, 0)$ lies on line ℓ_2

$92: P_{1148} = (57, 16, 1, 0)$ lies on line ℓ_1

$93: P_{1211} = (56, 17, 1, 0)$ lies on line ℓ_2

$94: P_{1212} = (57, 17, 1, 0)$ lies on line ℓ_1

$95: P_{1275} = (56, 18, 1, 0)$ lies on line ℓ_2

$96: P_{1276} = (57, 18, 1, 0)$ lies on line ℓ_1

$97: P_{1339} = (56, 19, 1, 0)$ lies on line ℓ_2

$98: P_{1340} = (57, 19, 1, 0)$ lies on line ℓ_1

$99: P_{1403} = (56, 20, 1, 0)$ lies on line ℓ_2

$100: P_{1404} = (57, 20, 1, 0)$ lies on line ℓ_1

$101: P_{1467} = (56, 21, 1, 0)$ lies on line ℓ_2

$102: P_{1468} = (57, 21, 1, 0)$ lies on line ℓ_1

$103: P_{1531} = (56, 22, 1, 0)$ lies on line ℓ_2

$104: P_{1532} = (57, 22, 1, 0)$ lies on line ℓ_1

$105: P_{1595} = (56, 23, 1, 0)$ lies on line ℓ_2

$106: P_{1596} = (57, 23, 1, 0)$ lies on line ℓ_1

$107: P_{1659} = (56, 24, 1, 0)$ lies on line ℓ_2

$108: P_{1660} = (57, 24, 1, 0)$ lies on line ℓ_1

$109: P_{1723} = (56, 25, 1, 0)$ lies on line ℓ_2

$110: P_{1724} = (57, 25, 1, 0)$ lies on line ℓ_1

$111: P_{1787} = (56, 26, 1, 0)$ lies on line ℓ_2

$112: P_{1788} = (57, 26, 1, 0)$ lies on line ℓ_1

$113: P_{1851} = (56, 27, 1, 0)$ lies on line ℓ_2

$114: P_{1852} = (57, 27, 1, 0)$ lies on line ℓ_1

$115: P_{1915} = (56, 28, 1, 0)$ lies on line ℓ_2

$116: P_{1916} = (57, 28, 1, 0)$ lies on line ℓ_1

$117: P_{1979} = (56, 29, 1, 0)$ lies on line ℓ_2

$118: P_{1980} = (57, 29, 1, 0)$ lies on line ℓ_1

$119: P_{2043} = (56, 30, 1, 0)$ lies on line ℓ_2

$120: P_{2044} = (57, 30, 1, 0)$ lies on line ℓ_1

$121: P_{2107} = (56, 31, 1, 0)$ lies on line ℓ_2

$122: P_{2108} = (57, 31, 1, 0)$ lies on line ℓ_1

$123: P_{2171} = (56, 32, 1, 0)$ lies on line ℓ_2

$124: P_{2172} = (57, 32, 1, 0)$ lies on line ℓ_1

$125: P_{2235} = (56, 33, 1, 0)$ lies on line ℓ_2

$126: P_{2236} = (57, 33, 1, 0)$ lies on line ℓ_1

$127: P_{2299} = (56, 34, 1, 0)$ lies on line ℓ_2

$128: P_{2300} = (57, 34, 1, 0)$ lies on line ℓ_1

$129: P_{2363} = (56, 35, 1, 0)$ lies on line ℓ_2

$130: P_{2364} = (57, 35, 1, 0)$ lies on line ℓ_1

$131: P_{2427} = (56, 36, 1, 0)$ lies on line ℓ_2

$132: P_{2428} = (57, 36, 1, 0)$ lies on line ℓ_1

$133: P_{2491} = (56, 37, 1, 0)$ lies on line ℓ_2

$134: P_{2492} = (57, 37, 1, 0)$ lies on line ℓ_1

$135: P_{2555} = (56, 38, 1, 0)$ lies on line ℓ_2

$136: P_{2556} = (57, 38, 1, 0)$ lies on line ℓ_1

$137: P_{2619} = (56, 39, 1, 0)$ lies on line ℓ_2

$138: P_{2620} = (57, 39, 1, 0)$ lies on line ℓ_1

$139: P_{2683} = (56, 40, 1, 0)$ lies on line ℓ_2

$140: P_{2684} = (57, 40, 1, 0)$ lies on line ℓ_1

$141: P_{2747} = (56, 41, 1, 0)$ lies on line ℓ_2

$142: P_{2748} = (57, 41, 1, 0)$ lies on line ℓ_1

$143: P_{2811} = (56, 42, 1, 0)$ lies on line ℓ_2

$144: P_{2812} = (57, 42, 1, 0)$ lies on line ℓ_1

$145: P_{2875} = (56, 43, 1, 0)$ lies on line ℓ_2

$146: P_{2876} = (57, 43, 1, 0)$ lies on line ℓ_1

$147: P_{2939} = (56, 44, 1, 0)$ lies on line ℓ_2

$148: P_{2940} = (57, 44, 1, 0)$ lies on line ℓ_1

$149: P_{3003} = (56, 45, 1, 0)$ lies on line ℓ_2

$150: P_{3004} = (57, 45, 1, 0)$ lies on line ℓ_1

$151: P_{3067} = (56, 46, 1, 0)$ lies on line ℓ_2

$152: P_{3068} = (57, 46, 1, 0)$ lies on line ℓ_1

$153: P_{3131} = (56, 47, 1, 0)$ lies on line ℓ_2

$154: P_{3132} = (57, 47, 1, 0)$ lies on line ℓ_1

$155: P_{3195} = (56, 48, 1, 0)$ lies on line ℓ_2

$156: P_{3196} = (57, 48, 1, 0)$ lies on line ℓ_1

$157: P_{3259} = (56, 49, 1, 0)$ lies on line ℓ_2

$158: P_{3260} = (57, 49, 1, 0)$ lies on line ℓ_1

$159: P_{3323} = (56, 50, 1, 0)$ lies on line ℓ_2

$160: P_{3324} = (57, 50, 1, 0)$ lies on line ℓ_1

$161: P_{3387} = (56, 51, 1, 0)$ lies on line ℓ_2

$162: P_{3388} = (57, 51, 1, 0)$ lies on line ℓ_1

$163: P_{3451} = (56, 52, 1, 0)$ lies on line ℓ_2

$164: P_{3452} = (57, 52, 1, 0)$ lies on line ℓ_1

$165: P_{3515} = (56, 53, 1, 0)$ lies on line ℓ_2

$166: P_{3516} = (57, 53, 1, 0)$ lies on line ℓ_1

$167: P_{3579} = (56, 54, 1, 0)$ lies on line ℓ_2

$168: P_{3580} = (57, 54, 1, 0)$ lies on line ℓ_1

$169: P_{3643} = (56, 55, 1, 0)$ lies on line ℓ_2

$170: P_{3644} = (57, 55, 1, 0)$ lies on line ℓ_1

$171: P_{3835} = (56, 58, 1, 0)$ lies on line ℓ_2

$172 : P_{3836} = (57, 58, 1, 0)$ lies on line ℓ_1

$173 : P_{3899} = (56, 59, 1, 0)$ lies on line ℓ_2

$174 : P_{3900} = (57, 59, 1, 0)$ lies on line ℓ_1

$175 : P_{3963} = (56, 60, 1, 0)$ lies on line ℓ_2

$176 : P_{3964} = (57, 60, 1, 0)$ lies on line ℓ_1

$177 : P_{4027} = (56, 61, 1, 0)$ lies on line ℓ_2

$178 : P_{4028} = (57, 61, 1, 0)$ lies on line ℓ_1

$179 : P_{4091} = (56, 62, 1, 0)$ lies on line ℓ_2

$180 : P_{4092} = (57, 62, 1, 0)$ lies on line ℓ_1

$181 : P_{4155} = (56, 63, 1, 0)$ lies on line ℓ_2

$182 : P_{4156} = (57, 63, 1, 0)$ lies on line ℓ_1

$183 : P_{12353} = (0, 0, 2, 1)$ lies on line ℓ_3

$184 : P_{12458} = (41, 1, 2, 1)$ lies on line ℓ_4

$185 : P_{12459} = (42, 1, 2, 1)$ lies on line ℓ_7

$186 : P_{13420} = (43, 16, 2, 1)$ lies on line ℓ_{13}

$187 : P_{13545} = (40, 18, 2, 1)$ lies on line ℓ_{14}

$188 : P_{15018} = (41, 41, 2, 1)$ lies on line ℓ_{12}

$189 : P_{15083} = (42, 42, 2, 1)$ lies on line ℓ_{15}

$190 : P_{15953} = (16, 56, 2, 1)$ lies on line ℓ_5

$191 : P_{15980} = (43, 56, 2, 1)$ lies on line ℓ_8

$192 : P_{16019} = (18, 57, 2, 1)$ lies on line ℓ_9

$193 : P_{16041} = (40, 57, 2, 1)$ lies on line ℓ_6

$194 : P_{16083} = (18, 58, 2, 1)$ lies on line ℓ_{11}

$195 : P_{16145} = (16, 59, 2, 1)$ lies on line ℓ_{10}

$196 : P_{16449} = (0, 0, 3, 1)$ lies on line ℓ_3

$197 : P_{16530} = (17, 1, 3, 1)$ lies on line ℓ_4

$198 : P_{16532} = (19, 1, 3, 1)$ lies on line ℓ_7

$199 : P_{17554} = (17, 17, 3, 1)$ lies on line ℓ_{12}

$200 : P_{17684} = (19, 19, 3, 1)$ lies on line ℓ_{15}

$201 : P_{19027} = (18, 40, 3, 1)$ lies on line ℓ_{13}

$202 : P_{19217} = (16, 43, 3, 1)$ lies on line ℓ_{14}

$203 : P_{20051} = (18, 56, 3, 1)$ lies on line ℓ_8

$204 : P_{20073} = (40, 56, 3, 1)$ lies on line ℓ_5

$205 : P_{20113} = (16, 57, 3, 1)$ lies on line ℓ_6

$206 : P_{20140} = (43, 57, 3, 1)$ lies on line ℓ_9

$207 : P_{20201} = (40, 58, 3, 1)$ lies on line ℓ_{10}

$208 : P_{20268} = (43, 59, 3, 1)$ lies on line ℓ_{11}

$209 : P_{20545} = (0, 0, 4, 1)$ lies on line ℓ_3

$210 : P_{20635} = (26, 1, 4, 1)$ lies on line ℓ_4

$211 : P_{20640} = (31, 1, 4, 1)$ lies on line ℓ_7

$212 : P_{22235} = (26, 26, 4, 1)$ lies on line ℓ_{12}

$213 : P_{22560} = (31, 31, 4, 1)$ lies on line ℓ_{15}

$214 : P_{22815} = (30, 35, 4, 1)$ lies on line ℓ_{13}

$215 : P_{23068} = (27, 39, 4, 1)$ lies on line ℓ_{14}

$216 : P_{24159} = (30, 56, 4, 1)$ lies on line ℓ_8

$217 : P_{24164} = (35, 56, 4, 1)$ lies on line ℓ_5

$218 : P_{24220} = (27, 57, 4, 1)$ lies on line ℓ_6

$219 : P_{24232} = (39, 57, 4, 1)$ lies on line ℓ_9

$220 : P_{24424} = (39, 60, 4, 1)$ lies on line ℓ_{11}

$221 : P_{24484} = (35, 61, 4, 1)$ lies on line ℓ_{10}

$222 : P_{24641} = (0, 0, 5, 1)$ lies on line ℓ_3

$223 : P_{24739} = (34, 1, 5, 1)$ lies on line ℓ_4

$224 : P_{24743} = (38, 1, 5, 1)$ lies on line ℓ_7

$225 : P_{26408} = (39, 27, 5, 1)$ lies on line ℓ_{13}

$226 : P_{26596} = (35, 30, 5, 1)$ lies on line ℓ_{14}

$227 : P_{26851} = (34, 34, 5, 1)$ lies on line ℓ_{12}

$228 : P_{27111} = (38, 38, 5, 1)$ lies on line ℓ_{15}

$229 : P_{28252} = (27, 56, 5, 1)$ lies on line ℓ_5

$230 : P_{28264} = (39, 56, 5, 1)$ lies on line ℓ_8

$231 : P_{28319} = (30, 57, 5, 1)$ lies on line ℓ_9

$232 : P_{28324} = (35, 57, 5, 1)$ lies on line ℓ_6

$233 : P_{28508} = (27, 60, 5, 1)$ lies on line ℓ_{10}

$234 : P_{28575} = (30, 61, 5, 1)$ lies on line ℓ_{11}

$235 : P_{28737} = (0, 0, 6, 1)$ lies on line ℓ_3

$236 : P_{28812} = (11, 1, 6, 1)$ lies on line ℓ_4

$237 : P_{28813} = (12, 1, 6, 1)$ lies on line ℓ_7

$238 : P_{29452} = (11, 11, 6, 1)$ lies on line ℓ_{12}

$239 : P_{29517} = (12, 12, 6, 1)$ lies on line ℓ_{15}

$240 : P_{31950} = (13, 50, 6, 1)$ lies on line ℓ_{13}

$241 : P_{32075} = (10, 52, 6, 1)$ lies on line ℓ_{14}

$242 : P_{32334} = (13, 56, 6, 1)$ lies on line ℓ_8

$243 : P_{32371} = (50, 56, 6, 1)$ lies on line ℓ_5

$244 : P_{32395} = (10, 57, 6, 1)$ lies on line ℓ_6

$245 : P_{32437} = (52, 57, 6, 1)$ lies on line ℓ_9

$246 : P_{32757} = (52, 62, 6, 1)$ lies on line ℓ_{11}

$247 : P_{32819} = (50, 63, 6, 1)$ lies on line ℓ_{10}

$248 : P_{32833} = (0, 0, 7, 1)$ lies on line ℓ_3

$249 : P_{32948} = (51, 1, 7, 1)$ lies on line ℓ_4

$250 : P_{32950} = (53, 1, 7, 1)$ lies on line ℓ_7

$251 : P_{33525} = (52, 10, 7, 1)$ lies on line ℓ_{13}

$252 : P_{33715} = (50, 13, 7, 1)$ lies on line ℓ_{14}

$253 : P_{36148} = (51, 51, 7, 1)$ lies on line ℓ_{12}

$254 : P_{36278} = (53, 53, 7, 1)$ lies on line ℓ_{15}

$255 : P_{36427} = (10, 56, 7, 1)$ lies on line ℓ_5

$256 : P_{36469} = (52, 56, 7, 1)$ lies on line ℓ_8

$257 : P_{36494} = (13, 57, 7, 1)$ lies on line ℓ_9

$258 : P_{36531} = (50, 57, 7, 1)$ lies on line ℓ_6

$259 : P_{36811} = (10, 62, 7, 1)$ lies on line ℓ_{10}

$260 : P_{36878} = (13, 63, 7, 1)$ lies on line ℓ_{11}

$261 : P_{36929} = (0, 0, 8, 1)$ lies on line ℓ_3

$262 : P_{37013} = (20, 1, 8, 1)$ lies on line ℓ_7

$263 : P_{37022} = (29, 1, 8, 1)$ lies on line ℓ_4

$264 : P_{38229} = (20, 20, 8, 1)$ lies on line ℓ_{15}

$265 : P_{38814} = (29, 29, 8, 1)$ lies on line ℓ_{12}

$266 : P_{39254} = (21, 36, 8, 1)$ lies on line ℓ_{13}

$267 : P_{39773} = (28, 44, 8, 1)$ lies on line ℓ_{14}

$268 : P_{40045} = (44, 48, 8, 1)$ lies on line ℓ_{11}

$269 : P_{40101} = (36, 49, 8, 1)$ lies on line ℓ_{10}

$270 : P_{40534} = (21, 56, 8, 1)$ lies on line ℓ_8

$271 : P_{40549} = (36, 56, 8, 1)$ lies on line ℓ_5

$272 : P_{40605} = (28, 57, 8, 1)$ lies on line ℓ_6

$273 : P_{40621} = (44, 57, 8, 1)$ lies on line ℓ_9

$274 : P_{41025} = (0, 0, 9, 1)$ lies on line ℓ_3

$275 : P_{41126} = (37, 1, 9, 1)$ lies on line ℓ_4

$276 : P_{41134} = (45, 1, 9, 1)$ lies on line ℓ_7

$277 : P_{42405} = (36, 21, 9, 1)$ lies on line ℓ_{14}

$278 : P_{42861} = (44, 28, 9, 1)$ lies on line ℓ_{13}

$279 : P_{43430} = (37, 37, 9, 1)$ lies on line ℓ_{12}

$280 : P_{43950} = (45, 45, 9, 1)$ lies on line ℓ_{15}

$281 : P_{44125} = (28, 48, 9, 1)$ lies on line ℓ_{10}

$282 : P_{44182} = (21, 49, 9, 1)$ lies on line ℓ_{11}

$283 : P_{44637} = (28, 56, 9, 1)$ lies on line ℓ_5

$284 : P_{44653} = (44, 56, 9, 1)$ lies on line ℓ_8

$285 : P_{44694} = (21, 57, 9, 1)$ lies on line ℓ_9

$286 : P_{44709} = (36, 57, 9, 1)$ lies on line ℓ_6

$287 : P_{45121} = (0, 0, 10, 1)$ lies on line ℓ_3

$288 : P_{45192} = (7, 1, 10, 1)$ lies on line ℓ_7

$289 : P_{45197} = (12, 1, 10, 1)$ lies on line ℓ_4

$290 : P_{45576} = (7, 7, 10, 1)$ lies on line ℓ_{15}

$291 : P_{45901} = (12, 12, 10, 1)$ lies on line ℓ_{12}

$292 : P_{48384} = (63, 50, 10, 1)$ lies on line ℓ_{11}

$293 : P_{48438} = (53, 51, 10, 1)$ lies on line ℓ_{10}

$294 : P_{48519} = (6, 53, 10, 1)$ lies on line ℓ_{13}

$295 : P_{48711} = (6, 56, 10, 1)$ lies on line ℓ_8

$296 : P_{48758} = (53, 56, 10, 1)$ lies on line ℓ_5

$297 : P_{48782} = (13, 57, 10, 1)$ lies on line ℓ_6

$298 : P_{48832} = (63, 57, 10, 1)$ lies on line ℓ_9

$299 : P_{49166} = (13, 63, 10, 1)$ lies on line ℓ_{14}

$300 : P_{49217} = (0, 0, 11, 1)$ lies on line ℓ_3

$301 : P_{49333} = (52, 1, 11, 1)$ lies on line ℓ_4

$302 : P_{49343} = (62, 1, 11, 1)$ lies on line ℓ_7

$303 : P_{49654} = (53, 6, 11, 1)$ lies on line ℓ_{14}

$304 : P_{50112} = (63, 13, 11, 1)$ lies on line ℓ_{13}

$305 : P_{52430} = (13, 50, 11, 1)$ lies on line ℓ_{10}

$306 : P_{52487} = (6, 51, 11, 1)$ lies on line ℓ_{11}

$307 : P_{52597} = (52, 52, 11, 1)$ lies on line ℓ_{12}

$308 : P_{52814} = (13, 56, 11, 1)$ lies on line ℓ_5

$309 : P_{52864} = (63, 56, 11, 1)$ lies on line ℓ_8

$310 : P_{52871} = (6, 57, 11, 1)$ lies on line ℓ_9

$311 : P_{52918} = (53, 57, 11, 1)$ lies on line ℓ_6

$312 : P_{53247} = (62, 62, 11, 1)$ lies on line ℓ_{15}

$313 : P_{53313} = (0, 0, 12, 1)$ lies on line ℓ_3

$314 : P_{53427} = (50, 1, 12, 1)$ lies on line ℓ_7

$315 : P_{53440} = (63, 1, 12, 1)$ lies on line ℓ_4

$316 : P_{53748} = (51, 6, 12, 1)$ lies on line ℓ_{13}

$317 : P_{54015} = (62, 10, 12, 1)$ lies on line ℓ_{14}

$318 : P_{56563} = (50, 50, 12, 1)$ lies on line ℓ_{15}

$319 : P_{56651} = (10, 52, 12, 1)$ lies on line ℓ_{11}

$320 : P_{56711} = (6, 53, 12, 1)$ lies on line ℓ_{10}

$321 : P_{56903} = (6, 56, 12, 1)$ lies on line ℓ_5

$322 : P_{56948} = (51, 56, 12, 1)$ lies on line ℓ_8

$323 : P_{56971} = (10, 57, 12, 1)$ lies on line ℓ_9

$324 : P_{57023} = (62, 57, 12, 1)$ lies on line ℓ_6

$325 : P_{57408} = (63, 63, 12, 1)$ lies on line ℓ_{12}

$326 : P_{57409} = (0, 0, 13, 1)$ lies on line ℓ_3

$327 : P_{57480} = (7, 1, 13, 1)$ lies on line ℓ_4

$328 : P_{57484} = (11, 1, 13, 1)$ lies on line ℓ_7

$329 : P_{57864} = (7, 7, 13, 1)$ lies on line ℓ_{12}

$330 : P_{58124} = (11, 11, 13, 1)$ lies on line ℓ_{15}

$331 : P_{60679} = (6, 51, 13, 1)$ lies on line ℓ_{14}

$332 : P_{60799} = (62, 52, 13, 1)$ lies on line ℓ_{10}

$333 : P_{60852} = (51, 53, 13, 1)$ lies on line ℓ_{11}

$334 : P_{61003} = (10, 56, 13, 1)$ lies on line ℓ_8

$335 : P_{61055} = (62, 56, 13, 1)$ lies on line ℓ_5

$336 : P_{61063} = (6, 57, 13, 1)$ lies on line ℓ_6

$337 : P_{61108} = (51, 57, 13, 1)$ lies on line ℓ_9

$338 : P_{61387} = (10, 62, 13, 1)$ lies on line ℓ_{13}

$339 : P_{61505} = (0, 0, 14, 1)$ lies on line ℓ_3

$340 : P_{61602} = (33, 1, 14, 1)$ lies on line ℓ_7

$341 : P_{61615} = (46, 1, 14, 1)$ lies on line ℓ_4

$342 : P_{63009} = (32, 23, 14, 1)$ lies on line ℓ_{13}

$343 : P_{63152} = (47, 25, 14, 1)$ lies on line ℓ_{14}

$344 : P_{63650} = (33, 33, 14, 1)$ lies on line ℓ_{15}

$345 : P_{64495} = (46, 46, 14, 1)$ lies on line ℓ_{12}

$346 : P_{64986} = (25, 54, 14, 1)$ lies on line ℓ_{11}

$347 : P_{65048} = (23, 55, 14, 1)$ lies on line ℓ_{10}

$348 : P_{65112} = (23, 56, 14, 1)$ lies on line ℓ_5

$349 : P_{65121} = (32, 56, 14, 1)$ lies on line ℓ_8

$350 : P_{65178} = (25, 57, 14, 1)$ lies on line ℓ_9

$351 : P_{65200} = (47, 57, 14, 1)$ lies on line ℓ_6

$352 : P_{65601} = (0, 0, 15, 1)$ lies on line ℓ_3

$353 : P_{65687} = (22, 1, 15, 1)$ lies on line ℓ_4

$354 : P_{65689} = (24, 1, 15, 1)$ lies on line ℓ_7

$355 : P_{67031} = (22, 22, 15, 1)$ lies on line ℓ_{12}

$356 : P_{67161} = (24, 24, 15, 1)$ lies on line ℓ_{15}

$357 : P_{67672} = (23, 32, 15, 1)$ lies on line ℓ_{14}

$358 : P_{68634} = (25, 47, 15, 1)$ lies on line ℓ_{13}

$359 : P_{69104} = (47, 54, 15, 1)$ lies on line ℓ_{10}

$360 : P_{69153} = (32, 55, 15, 1)$ lies on line ℓ_{11}

$361 : P_{69210} = (25, 56, 15, 1)$ lies on line ℓ_8

$362 : P_{69232} = (47, 56, 15, 1)$ lies on line ℓ_5

$363 : P_{69272} = (23, 57, 15, 1)$ lies on line ℓ_6

$364 : P_{69281} = (32, 57, 15, 1)$ lies on line ℓ_9

$365 : P_{69697} = (0, 0, 16, 1)$ lies on line ℓ_3

$366 : P_{69763} = (2, 1, 16, 1)$ lies on line ℓ_7

$367 : P_{69780} = (19, 1, 16, 1)$ lies on line ℓ_4

$368 : P_{69827} = (2, 2, 16, 1)$ lies on line ℓ_{15}

$369 : P_{70932} = (19, 19, 16, 1)$ lies on line ℓ_{12}

$370 : P_{72315} = (58, 40, 16, 1)$ lies on line ℓ_{11}

$371 : P_{72363} = (42, 41, 16, 1)$ lies on line ℓ_{10}

$372 : P_{72388} = (3, 42, 16, 1)$ lies on line ℓ_{13}

$373 : P_{73284} = (3, 56, 16, 1)$ lies on line ℓ_8

$374 : P_{73323} = (42, 56, 16, 1)$ lies on line ℓ_5

$375 : P_{73363} = (18, 57, 16, 1)$ lies on line ℓ_6

$376 : P_{73403} = (58, 57, 16, 1)$ lies on line ℓ_9

$377 : P_{73427} = (18, 58, 16, 1)$ lies on line ℓ_{14}

$378 : P_{73793} = (0, 0, 17, 1)$ lies on line ℓ_3

$379 : P_{73900} = (43, 1, 17, 1)$ lies on line ℓ_4

$380 : P_{73916} = (59, 1, 17, 1)$ lies on line ℓ_7

$381 : P_{74027} = (42, 3, 17, 1)$ lies on line ℓ_{14}

$382 : P_{75003} = (58, 18, 17, 1)$ lies on line ℓ_{13}

$383 : P_{76371} = (18, 40, 17, 1)$ lies on line ℓ_{10}

$384 : P_{76420} = (3, 41, 17, 1)$ lies on line ℓ_{11}

$385 : P_{76588} = (43, 43, 17, 1)$ lies on line ℓ_{12}

$386 : P_{77395} = (18, 56, 17, 1)$ lies on line ℓ_5

$387 : P_{77435} = (58, 56, 17, 1)$ lies on line ℓ_8

$388: P_{77444} = (3, 57, 17, 1)$ lies on line ℓ_9

$389: P_{77483} = (42, 57, 17, 1)$ lies on line ℓ_6

$390: P_{77628} = (59, 59, 17, 1)$ lies on line ℓ_{15}

$391: P_{77889} = (0, 0, 18, 1)$ lies on line ℓ_3

$392: P_{77955} = (2, 1, 18, 1)$ lies on line ℓ_4

$393: P_{77970} = (17, 1, 18, 1)$ lies on line ℓ_7

$394: P_{78019} = (2, 2, 18, 1)$ lies on line ℓ_{12}

$395: P_{78994} = (17, 17, 18, 1)$ lies on line ℓ_{15}

$396: P_{80516} = (3, 41, 18, 1)$ lies on line ℓ_{14}

$397: P_{80618} = (41, 42, 18, 1)$ lies on line ℓ_{11}

$398: P_{80700} = (59, 43, 18, 1)$ lies on line ℓ_{10}

$399: P_{81489} = (16, 56, 18, 1)$ lies on line ℓ_8

$400: P_{81532} = (59, 56, 18, 1)$ lies on line ℓ_5

$401: P_{81540} = (3, 57, 18, 1)$ lies on line ℓ_6

$402: P_{81578} = (41, 57, 18, 1)$ lies on line ℓ_9

$403: P_{81681} = (16, 59, 18, 1)$ lies on line ℓ_{13}

$404: P_{81985} = (0, 0, 19, 1)$ lies on line ℓ_3

$405: P_{82089} = (40, 1, 19, 1)$ lies on line ℓ_7

$406: P_{82107} = (58, 1, 19, 1)$ lies on line ℓ_4

$407: P_{82218} = (41, 3, 19, 1)$ lies on line ℓ_{13}

$408: P_{83068} = (59, 16, 19, 1)$ lies on line ℓ_{14}

$409: P_{84585} = (40, 40, 19, 1)$ lies on line ℓ_{15}

$410: P_{84676} = (3, 42, 19, 1)$ lies on line ℓ_{10}

$411: P_{84753} = (16, 43, 19, 1)$ lies on line ℓ_{11}

$412: P_{85572} = (3, 56, 19, 1)$ lies on line ℓ_5

$413: P_{85610} = (41, 56, 19, 1)$ lies on line ℓ_8

$414: P_{85649} = (16, 57, 19, 1)$ lies on line ℓ_9

$415: P_{85692} = (59, 57, 19, 1)$ lies on line ℓ_6

$416: P_{85755} = (58, 58, 19, 1)$ lies on line ℓ_{12}

$417: P_{86081} = (0, 0, 20, 1)$ lies on line ℓ_3

$418: P_{86181} = (36, 1, 20, 1)$ lies on line ℓ_7

$419: P_{86194} = (49, 1, 20, 1)$ lies on line ℓ_4

$420: P_{86630} = (37, 8, 20, 1)$ lies on line ℓ_{13}

$421: P_{87921} = (48, 28, 20, 1)$ lies on line ℓ_{14}

$422: P_{88421} = (36, 36, 20, 1)$ lies on line ℓ_{15}

$423: P_{88925} = (28, 44, 20, 1)$ lies on line ℓ_{11}

$424: P_{88969} = (8, 45, 20, 1)$ lies on line ℓ_{10}

$425: P_{89266} = (49, 49, 20, 1)$ lies on line ℓ_{12}

$426: P_{89673} = (8, 56, 20, 1)$ lies on line ℓ_5

$427: P_{89702} = (37, 56, 20, 1)$ lies on line ℓ_8

$428: P_{89757} = (28, 57, 20, 1)$ lies on line ℓ_9

$429: P_{89777} = (48, 57, 20, 1)$ lies on line ℓ_6

$430: P_{90177} = (0, 0, 21, 1)$ lies on line ℓ_3

$431: P_{90250} = (9, 1, 21, 1)$ lies on line ℓ_4

$432: P_{90270} = (29, 1, 21, 1)$ lies on line ℓ_7

$433: P_{90762} = (9, 9, 21, 1)$ lies on line ℓ_{12}

$434: P_{92062} = (29, 29, 21, 1)$ lies on line ℓ_{15}

$435: P_{92553} = (8, 37, 21, 1)$ lies on line ℓ_{14}

$436: P_{93041} = (48, 44, 21, 1)$ lies on line ℓ_{10}

$437: P_{93094} = (37, 45, 21, 1)$ lies on line ℓ_{11}

$438: P_{93277} = (28, 48, 21, 1)$ lies on line ℓ_{13}

$439: P_{93789} = (28, 56, 21, 1)$ lies on line ℓ_8

$440: P_{93809} = (48, 56, 21, 1)$ lies on line ℓ_5

$441: P_{93833} = (8, 57, 21, 1)$ lies on line ℓ_6

$442: P_{93862} = (37, 57, 21, 1)$ lies on line ℓ_9

$443: P_{94273} = (0, 0, 22, 1)$ lies on line ℓ_3

$444: P_{94369} = (32, 1, 22, 1)$ lies on line ℓ_4

$445: P_{94392} = (55, 1, 22, 1)$ lies on line ℓ_7

$446: P_{95266} = (33, 15, 22, 1)$ lies on line ℓ_{14}

$447: P_{95927} = (54, 25, 22, 1)$ lies on line ℓ_{13}

$448: P_{96353} = (32, 32, 22, 1)$ lies on line ℓ_{12}

$449: P_{97232} = (15, 46, 22, 1)$ lies on line ℓ_{11}

$450: P_{97306} = (25, 47, 22, 1)$ lies on line ℓ_{10}

$451: P_{97848} = (55, 55, 22, 1)$ lies on line ℓ_{15}

$452: P_{97882} = (25, 56, 22, 1)$ lies on line ℓ_5

$453: P_{97911} = (54, 56, 22, 1)$ lies on line ℓ_8

$454: P_{97936} = (15, 57, 22, 1)$ lies on line ℓ_9

$455: P_{97954} = (33, 57, 22, 1)$ lies on line ℓ_6

$456: P_{98369} = (0, 0, 23, 1)$ lies on line ℓ_3

$457: P_{98447} = (14, 1, 23, 1)$ lies on line ℓ_7

$458: P_{98457} = (24, 1, 23, 1)$ lies on line ℓ_4

$459: P_{99279} = (14, 14, 23, 1)$ lies on line ℓ_{15}

$460: P_{99929} = (24, 24, 23, 1)$ lies on line ℓ_{12}

$461: P_{100496} = (15, 33, 23, 1)$ lies on line ℓ_{13}

$462: P_{101346} = (33, 46, 23, 1)$ lies on line ℓ_{10}

$463: P_{101431} = (54, 47, 23, 1)$ lies on line ℓ_{11}

$464: P_{101850} = (25, 54, 23, 1)$ lies on line ℓ_{14}

$465: P_{101968} = (15, 56, 23, 1)$ lies on line ℓ_8

$466: P_{101986} = (33, 56, 23, 1)$ lies on line ℓ_5

$467: P_{102042} = (25, 57, 23, 1)$ lies on line ℓ_6

$468: P_{102071} = (54, 57, 23, 1)$ lies on line ℓ_9

$469: P_{102465} = (0, 0, 24, 1)$ lies on line ℓ_3

$470: P_{102576} = (47, 1, 24, 1)$ lies on line ℓ_7

$471: P_{102583} = (54, 1, 24, 1)$ lies on line ℓ_4

$472: P_{103471} = (46, 15, 24, 1)$ lies on line ℓ_{13}

$473: P_{103992} = (55, 23, 24, 1)$ lies on line ℓ_{14}

$474: P_{104536} = (23, 32, 24, 1)$ lies on line ℓ_{11}

$475: P_{104592} = (15, 33, 24, 1)$ lies on line ℓ_{10}

$476: P_{105520} = (47, 47, 24, 1)$ lies on line ℓ_{15}

$477: P_{105975} = (54, 54, 24, 1)$ lies on line ℓ_{12}

$478: P_{106064} = (15, 56, 24, 1)$ lies on line ℓ_5

$479: P_{106095} = (46, 56, 24, 1)$ lies on line ℓ_8

$480: P_{106136} = (23, 57, 24, 1)$ lies on line ℓ_9

$481: P_{106168} = (55, 57, 24, 1)$ lies on line ℓ_6

$482: P_{106561} = (0, 0, 25, 1)$ lies on line ℓ_3

$483: P_{106639} = (14, 1, 25, 1)$ lies on line ℓ_4

$484: P_{106647} = (22, 1, 25, 1)$ lies on line ℓ_7

$485: P_{107471} = (14, 14, 25, 1)$ lies on line ℓ_{12}

$486: P_{107991} = (22, 22, 25, 1)$ lies on line ℓ_{15}

$487: P_{108664} = (55, 32, 25, 1)$ lies on line ℓ_{10}

$488: P_{108719} = (46, 33, 25, 1)$ lies on line ℓ_{11}

$489: P_{109520} = (15, 46, 25, 1)$ lies on line ℓ_{14}

$490: P_{110104} = (23, 55, 25, 1)$ lies on line ℓ_{13}

$491: P_{110168} = (23, 56, 25, 1)$ lies on line ℓ_8

$492: P_{110200} = (55, 56, 25, 1)$ lies on line ℓ_5

$493: P_{110224} = (15, 57, 25, 1)$ lies on line ℓ_6

$494: P_{110255} = (46, 57, 25, 1)$ lies on line ℓ_9

$495: P_{110657} = (0, 0, 26, 1)$ lies on line ℓ_3

$496: P_{110760} = (39, 1, 26, 1)$ lies on line ℓ_4
$497: P_{110781} = (60, 1, 26, 1)$ lies on line ℓ_7
$498: P_{110951} = (38, 4, 26, 1)$ lies on line ℓ_{14}
$499: P_{112638} = (61, 30, 26, 1)$ lies on line ℓ_{13}
$500: P_{112837} = (4, 34, 26, 1)$ lies on line ℓ_{11}
$501: P_{112927} = (30, 35, 26, 1)$ lies on line ℓ_{10}
$502: P_{113192} = (39, 39, 26, 1)$ lies on line ℓ_{12}
$503: P_{114271} = (30, 56, 26, 1)$ lies on line ℓ_5
$504: P_{114302} = (61, 56, 26, 1)$ lies on line ℓ_8
$505: P_{114309} = (4, 57, 26, 1)$ lies on line ℓ_9
$506: P_{114343} = (38, 57, 26, 1)$ lies on line ℓ_6
$507: P_{114557} = (60, 60, 26, 1)$ lies on line ℓ_{15}
$508: P_{114753} = (0, 0, 27, 1)$ lies on line ℓ_3
$509: P_{114822} = (5, 1, 27, 1)$ lies on line ℓ_7
$510: P_{114848} = (31, 1, 27, 1)$ lies on line ℓ_4
$511: P_{115078} = (5, 5, 27, 1)$ lies on line ℓ_{15}
$512: P_{116768} = (31, 31, 27, 1)$ lies on line ℓ_{12}
$513: P_{116967} = (38, 34, 27, 1)$ lies on line ℓ_{10}
$514: P_{117054} = (61, 35, 27, 1)$ lies on line ℓ_{11}
$515: P_{117189} = (4, 38, 27, 1)$ lies on line ℓ_{13}
$516: P_{118341} = (4, 56, 27, 1)$ lies on line ℓ_8
$517: P_{118375} = (38, 56, 27, 1)$ lies on line ℓ_5
$518: P_{118431} = (30, 57, 27, 1)$ lies on line ℓ_6
$519: P_{118462} = (61, 57, 27, 1)$ lies on line ℓ_9
$520: P_{118687} = (30, 61, 27, 1)$ lies on line ℓ_{14}
$521: P_{118849} = (0, 0, 28, 1)$ lies on line ℓ_3
$522: P_{118922} = (9, 1, 28, 1)$ lies on line ℓ_7
$523: P_{118933} = (20, 1, 28, 1)$ lies on line ℓ_4
$524: P_{119434} = (9, 9, 28, 1)$ lies on line ℓ_{15}
$525: P_{120149} = (20, 20, 28, 1)$ lies on line ℓ_{12}
$526: P_{121202} = (49, 36, 28, 1)$ lies on line ℓ_{11}
$527: P_{121262} = (45, 37, 28, 1)$ lies on line ℓ_{10}
$528: P_{121737} = (8, 45, 28, 1)$ lies on line ℓ_{13}
$529: P_{122006} = (21, 49, 28, 1)$ lies on line ℓ_{14}
$530: P_{122441} = (8, 56, 28, 1)$ lies on line ℓ_8
$531: P_{122478} = (45, 56, 28, 1)$ lies on line ℓ_5
$532: P_{122518} = (21, 57, 28, 1)$ lies on line ℓ_6
$533: P_{122546} = (49, 57, 28, 1)$ lies on line ℓ_9
$534: P_{122945} = (0, 0, 29, 1)$ lies on line ℓ_3
$535: P_{123053} = (44, 1, 29, 1)$ lies on line ℓ_4
$536: P_{123057} = (48, 1, 29, 1)$ lies on line ℓ_7
$537: P_{123502} = (45, 8, 29, 1)$ lies on line ℓ_{14}
$538: P_{124338} = (49, 21, 29, 1)$ lies on line ℓ_{13}
$539: P_{125270} = (21, 36, 29, 1)$ lies on line ℓ_{10}
$540: P_{125321} = (8, 37, 29, 1)$ lies on line ℓ_{11}
$541: P_{125805} = (44, 44, 29, 1)$ lies on line ℓ_{12}
$542: P_{126065} = (48, 48, 29, 1)$ lies on line ℓ_{15}
$543: P_{126550} = (21, 56, 29, 1)$ lies on line ℓ_5
$544: P_{126578} = (49, 56, 29, 1)$ lies on line ℓ_8
$545: P_{126601} = (8, 57, 29, 1)$ lies on line ℓ_9
$546: P_{126638} = (45, 57, 29, 1)$ lies on line ℓ_6
$547: P_{127041} = (0, 0, 30, 1)$ lies on line ℓ_3
$548: P_{127110} = (5, 1, 30, 1)$ lies on line ℓ_4
$549: P_{127131} = (26, 1, 30, 1)$ lies on line ℓ_7

$550: P_{127366} = (5, 5, 30, 1)$ lies on line ℓ_{12}
$551: P_{128731} = (26, 26, 30, 1)$ lies on line ℓ_{15}
$552: P_{129221} = (4, 34, 30, 1)$ lies on line ℓ_{14}
$553: P_{129507} = (34, 38, 30, 1)$ lies on line ℓ_{11}
$554: P_{129597} = (60, 39, 30, 1)$ lies on line ℓ_{10}
$555: P_{130652} = (27, 56, 30, 1)$ lies on line ℓ_8
$556: P_{130685} = (60, 56, 30, 1)$ lies on line ℓ_5
$557: P_{130693} = (4, 57, 30, 1)$ lies on line ℓ_6
$558: P_{130723} = (34, 57, 30, 1)$ lies on line ℓ_9
$559: P_{130908} = (27, 60, 30, 1)$ lies on line ℓ_{13}
$560: P_{131137} = (0, 0, 31, 1)$ lies on line ℓ_3
$561: P_{131236} = (35, 1, 31, 1)$ lies on line ℓ_7
$562: P_{131262} = (61, 1, 31, 1)$ lies on line ℓ_4
$563: P_{131427} = (34, 4, 31, 1)$ lies on line ℓ_{13}
$564: P_{132925} = (60, 27, 31, 1)$ lies on line ℓ_{14}
$565: P_{133412} = (35, 35, 31, 1)$ lies on line ℓ_{15}
$566: P_{133573} = (4, 38, 31, 1)$ lies on line ℓ_{10}
$567: P_{133660} = (27, 39, 31, 1)$ lies on line ℓ_{11}
$568: P_{134725} = (4, 56, 31, 1)$ lies on line ℓ_5
$569: P_{134755} = (34, 56, 31, 1)$ lies on line ℓ_8
$570: P_{134812} = (27, 57, 31, 1)$ lies on line ℓ_9
$571: P_{134845} = (60, 57, 31, 1)$ lies on line ℓ_6
$572: P_{135102} = (61, 61, 31, 1)$ lies on line ℓ_{12}
$573: P_{135233} = (0, 0, 32, 1)$ lies on line ℓ_3
$574: P_{135312} = (15, 1, 32, 1)$ lies on line ℓ_4
$575: P_{135343} = (46, 1, 32, 1)$ lies on line ℓ_7
$576: P_{136208} = (15, 15, 32, 1)$ lies on line ℓ_{12}
$577: P_{136655} = (14, 22, 32, 1)$ lies on line ℓ_{14}
$578: P_{136791} = (22, 24, 32, 1)$ lies on line ℓ_{11}
$579: P_{136887} = (54, 25, 32, 1)$ lies on line ℓ_{10}
$580: P_{138223} = (46, 46, 32, 1)$ lies on line ℓ_{15}
$581: P_{138736} = (47, 54, 32, 1)$ lies on line ℓ_{13}
$582: P_{138864} = (47, 56, 32, 1)$ lies on line ℓ_8
$583: P_{138871} = (54, 56, 32, 1)$ lies on line ℓ_5
$584: P_{138895} = (14, 57, 32, 1)$ lies on line ℓ_6
$585: P_{138903} = (22, 57, 32, 1)$ lies on line ℓ_9
$586: P_{139329} = (0, 0, 33, 1)$ lies on line ℓ_3
$587: P_{139416} = (23, 1, 33, 1)$ lies on line ℓ_7
$588: P_{139448} = (55, 1, 33, 1)$ lies on line ℓ_4
$589: P_{140247} = (22, 14, 33, 1)$ lies on line ℓ_{13}
$590: P_{140824} = (23, 23, 33, 1)$ lies on line ℓ_{15}
$591: P_{140879} = (14, 24, 33, 1)$ lies on line ℓ_{10}
$592: P_{140976} = (47, 25, 33, 1)$ lies on line ℓ_{11}
$593: P_{142391} = (54, 47, 33, 1)$ lies on line ℓ_{14}
$594: P_{142904} = (55, 55, 33, 1)$ lies on line ℓ_{12}
$595: P_{142927} = (14, 56, 33, 1)$ lies on line ℓ_5
$596: P_{142935} = (22, 56, 33, 1)$ lies on line ℓ_8
$597: P_{143024} = (47, 57, 33, 1)$ lies on line ℓ_9
$598: P_{143031} = (54, 57, 33, 1)$ lies on line ℓ_6
$599: P_{143425} = (0, 0, 34, 1)$ lies on line ℓ_3
$600: P_{143519} = (30, 1, 34, 1)$ lies on line ℓ_4
$601: P_{143550} = (61, 1, 34, 1)$ lies on line ℓ_7
$602: P_{143776} = (31, 5, 34, 1)$ lies on line ℓ_{14}
$603: P_{145094} = (5, 26, 34, 1)$ lies on line ℓ_{11}

$604: P_{145192} = (39, 27, 34, 1)$ lies on line ℓ_{10}
$605: P_{145375} = (30, 30, 34, 1)$ lies on line ℓ_{12}
$606: P_{145981} = (60, 39, 34, 1)$ lies on line ℓ_{13}
$607: P_{147048} = (39, 56, 34, 1)$ lies on line ℓ_5
$608: P_{147069} = (60, 56, 34, 1)$ lies on line ℓ_8
$609: P_{147078} = (5, 57, 34, 1)$ lies on line ℓ_9
$610: P_{147104} = (31, 57, 34, 1)$ lies on line ℓ_6
$611: P_{147390} = (61, 61, 34, 1)$ lies on line ℓ_{15}
$612: P_{147521} = (0, 0, 35, 1)$ lies on line ℓ_3
$613: P_{147589} = (4, 1, 35, 1)$ lies on line ℓ_7
$614: P_{147623} = (38, 1, 35, 1)$ lies on line ℓ_4
$615: P_{147781} = (4, 4, 35, 1)$ lies on line ℓ_{15}
$616: P_{149216} = (31, 26, 35, 1)$ lies on line ℓ_{10}
$617: P_{149309} = (60, 27, 35, 1)$ lies on line ℓ_{11}
$618: P_{149510} = (5, 31, 35, 1)$ lies on line ℓ_{13}
$619: P_{149991} = (38, 38, 35, 1)$ lies on line ℓ_{12}
$620: P_{151110} = (5, 56, 35, 1)$ lies on line ℓ_8
$621: P_{151136} = (31, 56, 35, 1)$ lies on line ℓ_5
$622: P_{151208} = (39, 57, 35, 1)$ lies on line ℓ_6
$623: P_{151229} = (60, 57, 35, 1)$ lies on line ℓ_9
$624: P_{151400} = (39, 60, 35, 1)$ lies on line ℓ_{14}
$625: P_{151617} = (0, 0, 36, 1)$ lies on line ℓ_3
$626: P_{151689} = (8, 1, 36, 1)$ lies on line ℓ_7
$627: P_{151726} = (45, 1, 36, 1)$ lies on line ℓ_4
$628: P_{152137} = (8, 8, 36, 1)$ lies on line ℓ_{15}
$629: P_{152906} = (9, 20, 36, 1)$ lies on line ℓ_{13}
$630: P_{153457} = (48, 28, 36, 1)$ lies on line ℓ_{11}
$631: P_{153493} = (20, 29, 36, 1)$ lies on line ℓ_{10}
$632: P_{154542} = (45, 45, 36, 1)$ lies on line ℓ_{12}
$633: P_{154733} = (44, 48, 36, 1)$ lies on line ℓ_{14}
$634: P_{155210} = (9, 56, 36, 1)$ lies on line ℓ_8
$635: P_{155221} = (20, 56, 36, 1)$ lies on line ℓ_5
$636: P_{155309} = (44, 57, 36, 1)$ lies on line ℓ_6
$637: P_{155313} = (48, 57, 36, 1)$ lies on line ℓ_9
$638: P_{155713} = (0, 0, 37, 1)$ lies on line ℓ_3
$639: P_{155798} = (21, 1, 37, 1)$ lies on line ℓ_4
$640: P_{155826} = (49, 1, 37, 1)$ lies on line ℓ_7
$641: P_{156309} = (20, 9, 37, 1)$ lies on line ℓ_{14}
$642: P_{157078} = (21, 21, 37, 1)$ lies on line ℓ_{12}
$643: P_{157549} = (44, 28, 37, 1)$ lies on line ℓ_{10}
$644: P_{157578} = (9, 29, 37, 1)$ lies on line ℓ_{11}
$645: P_{158577} = (48, 44, 37, 1)$ lies on line ℓ_{13}
$646: P_{158898} = (49, 49, 37, 1)$ lies on line ℓ_{15}
$647: P_{159341} = (44, 56, 37, 1)$ lies on line ℓ_5
$648: P_{159345} = (48, 56, 37, 1)$ lies on line ℓ_8
$649: P_{159370} = (9, 57, 37, 1)$ lies on line ℓ_9
$650: P_{159381} = (20, 57, 37, 1)$ lies on line ℓ_6
$651: P_{159809} = (0, 0, 38, 1)$ lies on line ℓ_3
$652: P_{159900} = (27, 1, 38, 1)$ lies on line ℓ_7
$653: P_{159933} = (60, 1, 38, 1)$ lies on line ℓ_4
$654: P_{160155} = (26, 5, 38, 1)$ lies on line ℓ_{13}
$655: P_{161564} = (27, 27, 38, 1)$ lies on line ℓ_{15}
$656: P_{161764} = (35, 30, 38, 1)$ lies on line ℓ_{11}
$657: P_{161798} = (5, 31, 38, 1)$ lies on line ℓ_{10}

$658: P_{162110} = (61, 35, 38, 1)$ lies on line ℓ_{14}
$659: P_{163398} = (5, 56, 38, 1)$ lies on line ℓ_5
$660: P_{163419} = (26, 56, 38, 1)$ lies on line ℓ_8
$661: P_{163492} = (35, 57, 38, 1)$ lies on line ℓ_9
$662: P_{163518} = (61, 57, 38, 1)$ lies on line ℓ_6
$663: P_{163709} = (60, 60, 38, 1)$ lies on line ℓ_{12}
$664: P_{163905} = (0, 0, 39, 1)$ lies on line ℓ_3
$665: P_{163973} = (4, 1, 39, 1)$ lies on line ℓ_4
$666: P_{164003} = (34, 1, 39, 1)$ lies on line ℓ_7
$667: P_{164165} = (4, 4, 39, 1)$ lies on line ℓ_{12}
$668: P_{165574} = (5, 26, 39, 1)$ lies on line ℓ_{14}
$669: P_{165886} = (61, 30, 39, 1)$ lies on line ℓ_{10}
$670: P_{165915} = (26, 31, 39, 1)$ lies on line ℓ_{11}
$671: P_{166115} = (34, 34, 39, 1)$ lies on line ℓ_{15}
$672: P_{167524} = (35, 56, 39, 1)$ lies on line ℓ_8
$673: P_{167550} = (61, 56, 39, 1)$ lies on line ℓ_5
$674: P_{167558} = (5, 57, 39, 1)$ lies on line ℓ_6
$675: P_{167579} = (26, 57, 39, 1)$ lies on line ℓ_9
$676: P_{167844} = (35, 61, 39, 1)$ lies on line ℓ_{13}
$677: P_{168001} = (0, 0, 40, 1)$ lies on line ℓ_3
$678: P_{168068} = (3, 1, 40, 1)$ lies on line ℓ_7
$679: P_{168107} = (42, 1, 40, 1)$ lies on line ℓ_4
$680: P_{168196} = (3, 3, 40, 1)$ lies on line ℓ_{15}
$681: P_{169084} = (59, 16, 40, 1)$ lies on line ℓ_{11}
$682: P_{169108} = (19, 17, 40, 1)$ lies on line ℓ_{10}
$683: P_{169219} = (2, 19, 40, 1)$ lies on line ℓ_{13}
$684: P_{170731} = (42, 42, 40, 1)$ lies on line ℓ_{12}
$685: P_{171587} = (2, 56, 40, 1)$ lies on line ℓ_8
$686: P_{171604} = (19, 56, 40, 1)$ lies on line ℓ_5
$687: P_{171692} = (43, 57, 40, 1)$ lies on line ℓ_6
$688: P_{171708} = (59, 57, 40, 1)$ lies on line ℓ_9
$689: P_{171820} = (43, 59, 40, 1)$ lies on line ℓ_{14}
$690: P_{172097} = (0, 0, 41, 1)$ lies on line ℓ_3
$691: P_{172179} = (18, 1, 41, 1)$ lies on line ℓ_4
$692: P_{172219} = (58, 1, 41, 1)$ lies on line ℓ_7
$693: P_{172244} = (19, 2, 41, 1)$ lies on line ℓ_{14}
$694: P_{173164} = (43, 16, 41, 1)$ lies on line ℓ_{10}
$695: P_{173187} = (2, 17, 41, 1)$ lies on line ℓ_{11}
$696: P_{173267} = (18, 18, 41, 1)$ lies on line ℓ_{12}
$697: P_{174908} = (59, 43, 41, 1)$ lies on line ℓ_{13}
$698: P_{175724} = (43, 56, 41, 1)$ lies on line ℓ_5
$699: P_{175740} = (59, 56, 41, 1)$ lies on line ℓ_8
$700: P_{175747} = (2, 57, 41, 1)$ lies on line ℓ_9
$701: P_{175764} = (19, 57, 41, 1)$ lies on line ℓ_6
$702: P_{175867} = (58, 58, 41, 1)$ lies on line ℓ_{15}
$703: P_{176193} = (0, 0, 42, 1)$ lies on line ℓ_3
$704: P_{176273} = (16, 1, 42, 1)$ lies on line ℓ_7
$705: P_{176316} = (59, 1, 42, 1)$ lies on line ℓ_4
$706: P_{176338} = (17, 2, 42, 1)$ lies on line ℓ_{13}
$707: P_{177233} = (16, 16, 42, 1)$ lies on line ℓ_{15}
$708: P_{177385} = (40, 18, 42, 1)$ lies on line ℓ_{11}
$709: P_{177411} = (2, 19, 42, 1)$ lies on line ℓ_{10}
$710: P_{178811} = (58, 40, 42, 1)$ lies on line ℓ_{14}
$711: P_{179779} = (2, 56, 42, 1)$ lies on line ℓ_5

$712: P_{179794} = (17, 56, 42, 1)$ lies on line ℓ_8
$713: P_{179881} = (40, 57, 42, 1)$ lies on line ℓ_9
$714: P_{179899} = (58, 57, 42, 1)$ lies on line ℓ_6
$715: P_{180028} = (59, 59, 42, 1)$ lies on line ℓ_{12}
$716: P_{180289} = (0, 0, 43, 1)$ lies on line ℓ_3
$717: P_{180356} = (3, 1, 43, 1)$ lies on line ℓ_4
$718: P_{180394} = (41, 1, 43, 1)$ lies on line ℓ_7
$719: P_{180484} = (3, 3, 43, 1)$ lies on line ℓ_{12}
$720: P_{181379} = (2, 17, 43, 1)$ lies on line ℓ_{14}
$721: P_{181499} = (58, 18, 43, 1)$ lies on line ℓ_{10}
$722: P_{181522} = (17, 19, 43, 1)$ lies on line ℓ_{11}
$723: P_{182954} = (41, 41, 43, 1)$ lies on line ℓ_{15}
$724: P_{183913} = (40, 56, 43, 1)$ lies on line ℓ_8
$725: P_{183931} = (58, 56, 43, 1)$ lies on line ℓ_5
$726: P_{183939} = (2, 57, 43, 1)$ lies on line ℓ_6
$727: P_{183954} = (17, 57, 43, 1)$ lies on line ℓ_9
$728: P_{184041} = (40, 58, 43, 1)$ lies on line ℓ_{13}
$729: P_{184385} = (0, 0, 44, 1)$ lies on line ℓ_3
$730: P_{184457} = (8, 1, 44, 1)$ lies on line ℓ_4
$731: P_{184486} = (37, 1, 44, 1)$ lies on line ℓ_7
$732: P_{184905} = (8, 8, 44, 1)$ lies on line ℓ_{12}
$733: P_{185694} = (29, 20, 44, 1)$ lies on line ℓ_{11}
$734: P_{185778} = (49, 21, 44, 1)$ lies on line ℓ_{10}
$735: P_{186250} = (9, 29, 44, 1)$ lies on line ℓ_{14}
$736: P_{186790} = (37, 37, 44, 1)$ lies on line ℓ_{15}
$737: P_{187557} = (36, 49, 44, 1)$ lies on line ℓ_{13}
$738: P_{188005} = (36, 56, 44, 1)$ lies on line ℓ_8
$739: P_{188018} = (49, 56, 44, 1)$ lies on line ℓ_5
$740: P_{188042} = (9, 57, 44, 1)$ lies on line ℓ_6
$741: P_{188062} = (29, 57, 44, 1)$ lies on line ℓ_9
$742: P_{188481} = (0, 0, 45, 1)$ lies on line ℓ_3
$743: P_{188573} = (28, 1, 45, 1)$ lies on line ℓ_7
$744: P_{188593} = (48, 1, 45, 1)$ lies on line ℓ_4
$745: P_{189086} = (29, 9, 45, 1)$ lies on line ℓ_{13}
$746: P_{189770} = (9, 20, 45, 1)$ lies on line ℓ_{10}
$747: P_{189861} = (36, 21, 45, 1)$ lies on line ℓ_{11}
$748: P_{190301} = (28, 28, 45, 1)$ lies on line ℓ_{15}
$749: P_{190834} = (49, 36, 45, 1)$ lies on line ℓ_{14}
$750: P_{191601} = (48, 48, 45, 1)$ lies on line ℓ_{12}
$751: P_{192074} = (9, 56, 45, 1)$ lies on line ℓ_5
$752: P_{192094} = (29, 56, 45, 1)$ lies on line ℓ_8
$753: P_{192165} = (36, 57, 45, 1)$ lies on line ℓ_9
$754: P_{192178} = (49, 57, 45, 1)$ lies on line ℓ_6
$755: P_{192577} = (0, 0, 46, 1)$ lies on line ℓ_3
$756: P_{192666} = (25, 1, 46, 1)$ lies on line ℓ_4
$757: P_{192695} = (54, 1, 46, 1)$ lies on line ℓ_7
$758: P_{193497} = (24, 14, 46, 1)$ lies on line ℓ_{14}
$759: P_{193999} = (14, 22, 46, 1)$ lies on line ℓ_{11}
$760: P_{194081} = (32, 23, 46, 1)$ lies on line ℓ_{10}
$761: P_{194202} = (25, 25, 46, 1)$ lies on line ℓ_{12}
$762: P_{194680} = (55, 32, 46, 1)$ lies on line ℓ_{13}
$763: P_{196087} = (54, 54, 46, 1)$ lies on line ℓ_{15}
$764: P_{196193} = (32, 56, 46, 1)$ lies on line ℓ_5
$765: P_{196216} = (55, 56, 46, 1)$ lies on line ℓ_8

$766: P_{196239} = (14, 57, 46, 1)$ lies on line ℓ_9
$767: P_{196249} = (24, 57, 46, 1)$ lies on line ℓ_6
$768: P_{196673} = (0, 0, 47, 1)$ lies on line ℓ_3
$769: P_{196752} = (15, 1, 47, 1)$ lies on line ℓ_7
$770: P_{196770} = (33, 1, 47, 1)$ lies on line ℓ_4
$771: P_{197648} = (15, 15, 47, 1)$ lies on line ℓ_{15}
$772: P_{198105} = (24, 22, 47, 1)$ lies on line ℓ_{10}
$773: P_{198200} = (55, 23, 47, 1)$ lies on line ℓ_{11}
$774: P_{198223} = (14, 24, 47, 1)$ lies on line ℓ_{13}
$775: P_{198818} = (33, 33, 47, 1)$ lies on line ℓ_{12}
$776: P_{200225} = (32, 55, 47, 1)$ lies on line ℓ_{14}
$777: P_{200271} = (14, 56, 47, 1)$ lies on line ℓ_8
$778: P_{200281} = (24, 56, 47, 1)$ lies on line ℓ_5
$779: P_{200353} = (32, 57, 47, 1)$ lies on line ℓ_6
$780: P_{200376} = (55, 57, 47, 1)$ lies on line ℓ_9
$781: P_{200769} = (0, 0, 48, 1)$ lies on line ℓ_3
$782: P_{200854} = (21, 1, 48, 1)$ lies on line ℓ_7
$783: P_{200869} = (36, 1, 48, 1)$ lies on line ℓ_4
$784: P_{201326} = (45, 8, 48, 1)$ lies on line ℓ_{11}
$785: P_{201374} = (29, 9, 48, 1)$ lies on line ℓ_{10}
$786: P_{202134} = (21, 21, 48, 1)$ lies on line ℓ_{15}
$787: P_{202645} = (20, 29, 48, 1)$ lies on line ℓ_{13}
$788: P_{203109} = (36, 36, 48, 1)$ lies on line ℓ_{12}
$789: P_{203686} = (37, 45, 48, 1)$ lies on line ℓ_{14}
$790: P_{204373} = (20, 56, 48, 1)$ lies on line ℓ_8
$791: P_{204382} = (29, 56, 48, 1)$ lies on line ℓ_5
$792: P_{204454} = (37, 57, 48, 1)$ lies on line ℓ_6
$793: P_{204462} = (45, 57, 48, 1)$ lies on line ℓ_9
$794: P_{204865} = (0, 0, 49, 1)$ lies on line ℓ_3
$795: P_{204957} = (28, 1, 49, 1)$ lies on line ℓ_4
$796: P_{204973} = (44, 1, 49, 1)$ lies on line ℓ_7
$797: P_{205414} = (37, 8, 49, 1)$ lies on line ℓ_{10}
$798: P_{205461} = (20, 9, 49, 1)$ lies on line ℓ_{11}
$799: P_{206174} = (29, 20, 49, 1)$ lies on line ℓ_{14}
$800: P_{206685} = (28, 28, 49, 1)$ lies on line ℓ_{12}
$801: P_{207278} = (45, 37, 49, 1)$ lies on line ℓ_{13}
$802: P_{207725} = (44, 44, 49, 1)$ lies on line ℓ_{15}
$803: P_{208486} = (37, 56, 49, 1)$ lies on line ℓ_5
$804: P_{208494} = (45, 56, 49, 1)$ lies on line ℓ_8
$805: P_{208533} = (20, 57, 49, 1)$ lies on line ℓ_9
$806: P_{208542} = (29, 57, 49, 1)$ lies on line ℓ_6
$807: P_{208961} = (0, 0, 50, 1)$ lies on line ℓ_3
$808: P_{209031} = (6, 1, 50, 1)$ lies on line ℓ_7
$809: P_{209078} = (53, 1, 50, 1)$ lies on line ℓ_4
$810: P_{209351} = (6, 6, 50, 1)$ lies on line ℓ_{15}
$811: P_{209663} = (62, 10, 50, 1)$ lies on line ℓ_{11}
$812: P_{209677} = (12, 11, 50, 1)$ lies on line ℓ_{10}
$813: P_{209736} = (7, 12, 50, 1)$ lies on line ℓ_{13}
$814: P_{212406} = (53, 53, 50, 1)$ lies on line ℓ_{12}
$815: P_{212552} = (7, 56, 50, 1)$ lies on line ℓ_8
$816: P_{212557} = (12, 56, 50, 1)$ lies on line ℓ_5
$817: P_{212661} = (52, 57, 50, 1)$ lies on line ℓ_6
$818: P_{212671} = (62, 57, 50, 1)$ lies on line ℓ_9
$819: P_{212981} = (52, 62, 50, 1)$ lies on line ℓ_{14}

820 : $P_{213057} = (0, 0, 51, 1)$ lies on line ℓ_3
821 : $P_{213134} = (13, 1, 51, 1)$ lies on line ℓ_4
822 : $P_{213184} = (63, 1, 51, 1)$ lies on line ℓ_7
823 : $P_{213517} = (12, 7, 51, 1)$ lies on line ℓ_{14}
824 : $P_{213749} = (52, 10, 51, 1)$ lies on line ℓ_{10}
825 : $P_{213768} = (7, 11, 51, 1)$ lies on line ℓ_{11}
826 : $P_{213902} = (13, 13, 51, 1)$ lies on line ℓ_{12}
827 : $P_{216447} = (62, 52, 51, 1)$ lies on line ℓ_{13}
828 : $P_{216693} = (52, 56, 51, 1)$ lies on line ℓ_5
829 : $P_{216703} = (62, 56, 51, 1)$ lies on line ℓ_8
830 : $P_{216712} = (7, 57, 51, 1)$ lies on line ℓ_9
831 : $P_{216717} = (12, 57, 51, 1)$ lies on line ℓ_6
832 : $P_{217152} = (63, 63, 51, 1)$ lies on line ℓ_{15}
833 : $P_{217153} = (0, 0, 52, 1)$ lies on line ℓ_3
834 : $P_{217223} = (6, 1, 52, 1)$ lies on line ℓ_4
835 : $P_{217268} = (51, 1, 52, 1)$ lies on line ℓ_7
836 : $P_{217543} = (6, 6, 52, 1)$ lies on line ℓ_{12}
837 : $P_{217864} = (7, 11, 52, 1)$ lies on line ℓ_{14}
838 : $P_{217932} = (11, 12, 52, 1)$ lies on line ℓ_{11}
839 : $P_{218048} = (63, 13, 52, 1)$ lies on line ℓ_{10}
840 : $P_{220468} = (51, 51, 52, 1)$ lies on line ℓ_{15}
841 : $P_{220787} = (50, 56, 52, 1)$ lies on line ℓ_8
842 : $P_{220800} = (63, 56, 52, 1)$ lies on line ℓ_5
843 : $P_{220808} = (7, 57, 52, 1)$ lies on line ℓ_6
844 : $P_{220812} = (11, 57, 52, 1)$ lies on line ℓ_9
845 : $P_{221235} = (50, 63, 52, 1)$ lies on line ℓ_{13}
846 : $P_{221249} = (0, 0, 53, 1)$ lies on line ℓ_3
847 : $P_{221323} = (10, 1, 53, 1)$ lies on line ℓ_7
848 : $P_{221375} = (62, 1, 53, 1)$ lies on line ℓ_4
849 : $P_{221708} = (11, 7, 53, 1)$ lies on line ℓ_{13}
850 : $P_{221899} = (10, 10, 53, 1)$ lies on line ℓ_{15}
851 : $P_{222024} = (7, 12, 53, 1)$ lies on line ℓ_{10}
852 : $P_{222131} = (50, 13, 53, 1)$ lies on line ℓ_{11}
853 : $P_{224512} = (63, 50, 53, 1)$ lies on line ℓ_{14}
854 : $P_{224840} = (7, 56, 53, 1)$ lies on line ℓ_5
855 : $P_{224844} = (11, 56, 53, 1)$ lies on line ℓ_8
856 : $P_{224947} = (50, 57, 53, 1)$ lies on line ℓ_9
857 : $P_{224960} = (63, 57, 53, 1)$ lies on line ℓ_6
858 : $P_{225279} = (62, 62, 53, 1)$ lies on line ℓ_{12}
859 : $P_{225345} = (0, 0, 54, 1)$ lies on line ℓ_3
860 : $P_{225432} = (23, 1, 54, 1)$ lies on line ℓ_4
861 : $P_{225441} = (32, 1, 54, 1)$ lies on line ℓ_7
862 : $P_{226265} = (24, 14, 54, 1)$ lies on line ℓ_{11}
863 : $P_{226351} = (46, 15, 54, 1)$ lies on line ℓ_{10}
864 : $P_{226840} = (23, 23, 54, 1)$ lies on line ℓ_{12}
865 : $P_{226903} = (22, 24, 54, 1)$ lies on line ℓ_{14}
866 : $P_{227425} = (32, 32, 54, 1)$ lies on line ℓ_{15}
867 : $P_{228322} = (33, 46, 54, 1)$ lies on line ℓ_{13}
868 : $P_{228962} = (33, 56, 54, 1)$ lies on line ℓ_8
869 : $P_{228975} = (46, 56, 54, 1)$ lies on line ℓ_5
870 : $P_{229015} = (22, 57, 54, 1)$ lies on line ℓ_6
871 : $P_{229017} = (24, 57, 54, 1)$ lies on line ℓ_9
872 : $P_{229441} = (0, 0, 55, 1)$ lies on line ℓ_3
873 : $P_{229530} = (25, 1, 55, 1)$ lies on line ℓ_7

874 : $P_{229552} = (47, 1, 55, 1)$ lies on line ℓ_4
875 : $P_{230359} = (22, 14, 55, 1)$ lies on line ℓ_{10}
876 : $P_{230434} = (33, 15, 55, 1)$ lies on line ℓ_{11}
877 : $P_{230873} = (24, 22, 55, 1)$ lies on line ℓ_{13}
878 : $P_{231066} = (25, 25, 55, 1)$ lies on line ℓ_{15}
879 : $P_{231599} = (46, 33, 55, 1)$ lies on line ℓ_{14}
880 : $P_{232496} = (47, 47, 55, 1)$ lies on line ℓ_{12}
881 : $P_{233047} = (22, 56, 55, 1)$ lies on line ℓ_5
882 : $P_{233049} = (24, 56, 55, 1)$ lies on line ℓ_8
883 : $P_{233122} = (33, 57, 55, 1)$ lies on line ℓ_9
884 : $P_{233135} = (46, 57, 55, 1)$ lies on line ℓ_6
885 : $P_{241729} = (0, 0, 58, 1)$ lies on line ℓ_3
886 : $P_{241809} = (16, 1, 58, 1)$ lies on line ℓ_4
887 : $P_{241836} = (43, 1, 58, 1)$ lies on line ℓ_7
888 : $P_{241876} = (19, 2, 58, 1)$ lies on line ℓ_{11}
889 : $P_{241962} = (41, 3, 58, 1)$ lies on line ℓ_{10}
890 : $P_{242769} = (16, 16, 58, 1)$ lies on line ℓ_{12}
891 : $P_{242962} = (17, 19, 58, 1)$ lies on line ℓ_{14}
892 : $P_{244395} = (42, 41, 58, 1)$ lies on line ℓ_{13}
893 : $P_{244524} = (43, 43, 58, 1)$ lies on line ℓ_{15}
894 : $P_{245354} = (41, 56, 58, 1)$ lies on line ℓ_5
895 : $P_{245355} = (42, 56, 58, 1)$ lies on line ℓ_8
896 : $P_{245394} = (17, 57, 58, 1)$ lies on line ℓ_6
897 : $P_{245396} = (19, 57, 58, 1)$ lies on line ℓ_9
898 : $P_{245825} = (0, 0, 59, 1)$ lies on line ℓ_3
899 : $P_{245907} = (18, 1, 59, 1)$ lies on line ℓ_7
900 : $P_{245929} = (40, 1, 59, 1)$ lies on line ℓ_4
901 : $P_{245970} = (17, 2, 59, 1)$ lies on line ℓ_{10}
902 : $P_{246059} = (42, 3, 59, 1)$ lies on line ℓ_{11}
903 : $P_{246932} = (19, 17, 59, 1)$ lies on line ℓ_{13}
904 : $P_{246995} = (18, 18, 59, 1)$ lies on line ℓ_{15}
905 : $P_{248425} = (40, 40, 59, 1)$ lies on line ℓ_{12}
906 : $P_{248554} = (41, 42, 59, 1)$ lies on line ℓ_{14}
907 : $P_{249426} = (17, 56, 59, 1)$ lies on line ℓ_5
908 : $P_{249428} = (19, 56, 59, 1)$ lies on line ℓ_8
909 : $P_{249514} = (41, 57, 59, 1)$ lies on line ℓ_6
910 : $P_{249515} = (42, 57, 59, 1)$ lies on line ℓ_9
911 : $P_{249921} = (0, 0, 60, 1)$ lies on line ℓ_3
912 : $P_{250015} = (30, 1, 60, 1)$ lies on line ℓ_7
913 : $P_{250020} = (35, 1, 60, 1)$ lies on line ℓ_4
914 : $P_{250215} = (38, 4, 60, 1)$ lies on line ℓ_{11}
915 : $P_{250267} = (26, 5, 60, 1)$ lies on line ℓ_{10}
916 : $P_{251616} = (31, 26, 60, 1)$ lies on line ℓ_{13}
917 : $P_{251871} = (30, 30, 60, 1)$ lies on line ℓ_{15}
918 : $P_{252196} = (35, 35, 60, 1)$ lies on line ℓ_{12}
919 : $P_{252387} = (34, 38, 60, 1)$ lies on line ℓ_{14}
920 : $P_{253531} = (26, 56, 60, 1)$ lies on line ℓ_5
921 : $P_{253536} = (31, 56, 60, 1)$ lies on line ℓ_8
922 : $P_{253603} = (34, 57, 60, 1)$ lies on line ℓ_6
923 : $P_{253607} = (38, 57, 60, 1)$ lies on line ℓ_9
924 : $P_{254017} = (0, 0, 61, 1)$ lies on line ℓ_3
925 : $P_{254108} = (27, 1, 61, 1)$ lies on line ℓ_4
926 : $P_{254120} = (39, 1, 61, 1)$ lies on line ℓ_7
927 : $P_{254307} = (34, 4, 61, 1)$ lies on line ℓ_{10}

928 : $P_{254368} = (31, 5, 61, 1)$ lies on line ℓ_{11}
929 : $P_{255772} = (27, 27, 61, 1)$ lies on line ℓ_{12}
930 : $P_{256027} = (26, 31, 61, 1)$ lies on line ℓ_{14}
931 : $P_{256231} = (38, 34, 61, 1)$ lies on line ℓ_{13}
932 : $P_{256552} = (39, 39, 61, 1)$ lies on line ℓ_{15}
933 : $P_{257635} = (34, 56, 61, 1)$ lies on line ℓ_5
934 : $P_{257639} = (38, 56, 61, 1)$ lies on line ℓ_8
935 : $P_{257691} = (26, 57, 61, 1)$ lies on line ℓ_6
936 : $P_{257696} = (31, 57, 61, 1)$ lies on line ℓ_9
937 : $P_{258113} = (0, 0, 62, 1)$ lies on line ℓ_3
938 : $P_{258190} = (13, 1, 62, 1)$ lies on line ℓ_7
939 : $P_{258227} = (50, 1, 62, 1)$ lies on line ℓ_4
940 : $P_{258550} = (53, 6, 62, 1)$ lies on line ℓ_{11}
941 : $P_{258572} = (11, 7, 62, 1)$ lies on line ℓ_{10}
942 : $P_{258829} = (12, 11, 62, 1)$ lies on line ℓ_{13}
943 : $P_{258958} = (13, 13, 62, 1)$ lies on line ℓ_{15}
944 : $P_{261363} = (50, 50, 62, 1)$ lies on line ℓ_{12}
945 : $P_{261556} = (51, 53, 62, 1)$ lies on line ℓ_{14}

946 : $P_{261708} = (11, 56, 62, 1)$ lies on line ℓ_5
947 : $P_{261709} = (12, 56, 62, 1)$ lies on line ℓ_8
948 : $P_{261812} = (51, 57, 62, 1)$ lies on line ℓ_6
949 : $P_{261814} = (53, 57, 62, 1)$ lies on line ℓ_9
950 : $P_{262209} = (0, 0, 63, 1)$ lies on line ℓ_3
951 : $P_{262283} = (10, 1, 63, 1)$ lies on line ℓ_4
952 : $P_{262325} = (52, 1, 63, 1)$ lies on line ℓ_7
953 : $P_{262644} = (51, 6, 63, 1)$ lies on line ℓ_{10}
954 : $P_{262669} = (12, 7, 63, 1)$ lies on line ℓ_{11}
955 : $P_{262859} = (10, 10, 63, 1)$ lies on line ℓ_{12}
956 : $P_{262988} = (11, 12, 63, 1)$ lies on line ℓ_{14}
957 : $P_{265526} = (53, 51, 63, 1)$ lies on line ℓ_{13}
958 : $P_{265589} = (52, 52, 63, 1)$ lies on line ℓ_{15}
959 : $P_{265844} = (51, 56, 63, 1)$ lies on line ℓ_5
960 : $P_{265846} = (53, 56, 63, 1)$ lies on line ℓ_8
961 : $P_{265868} = (11, 57, 63, 1)$ lies on line ℓ_6
962 : $P_{265869} = (12, 57, 63, 1)$ lies on line ℓ_9

The single points on the surface are:

Points on surface but on no line

The surface has 3420 points not on any line:
Too many to print.

Line Intersection Graph

```
   |0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 0 |0 1 1 1 1 1 1 1 1 1  0  0  0  0  0  0
 1 |1 0 1 0 0 0 0 1 1 1  0  1  0  1  0  1
 2 |1 1 0 0 1 1 1 0 0 0  1  0  1  0  1  0
 3 |1 0 0 0 0 0 0 0 0 0  1  1  1  1  1  1
 4 |1 0 1 0 0 1 1 1 0 0  0  1  1  1  0  0
 5 |1 0 1 0 1 0 1 0 1 0  1  1  0  0  0  1
 6 |1 0 1 0 1 1 0 0 0 1  0  0  0  1  1  1
 7 |1 1 0 0 1 0 0 0 1 1  1  0  0  0  1  1
 8 |1 1 0 0 0 0 1 0 1 0  1  0  0  1  1  1
 9 |1 1 0 0 0 0 0 1 1 1  0  1  1  1  0  0
10 |0 0 1 1 0 1 0 1 0 1  0  0  0  1  0  0
11 |0 1 0 1 1 1 0 0 0 1  0  0  0  0  1  0
12 |0 0 1 1 1 0 0 0 1 1  0  0  0  0  0  1
13 |0 1 0 1 1 0 1 0 1 0  1  0  0  0  0  0
14 |0 0 1 1 0 0 1 1 1 0  0  1  0  0  0  0
15 |0 1 0 1 0 1 0 1 1 0  0  0  1  0  0  0
```

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9
in point	P_{124}	P_{123}	P_2	P_{123}	P_{123}	P_{123}	P_{124}	P_{124}	P_{124}

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}	ℓ_{13}	ℓ_{15}
in point	P_{124}	P_1	P_{124}	P_{124}	P_{124}	P_{188}	P_{3708}	P_{3772}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_4	ℓ_5	ℓ_6	ℓ_{10}	ℓ_{12}	ℓ_{14}
in point	P_{123}	P_1	P_{123}	P_{123}	P_{123}	P_{187}	P_{3707}	P_{3771}

Line 3 intersects

Line	ℓ_0	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}
in point	P_2	P_{237633}	P_{233537}	P_{8258}	P_{237633}	P_{233537}	P_{8258}

Line 4 intersects

Line	ℓ_0	ℓ_2	ℓ_5	ℓ_6	ℓ_7	ℓ_{11}	ℓ_{12}	ℓ_{13}
in point	P_{123}	P_{123}	P_{123}	P_{123}	P_{8322}	P_{237754}	P_{233602}	P_{4282}

Line 5 intersects

Line	ℓ_0	ℓ_2	ℓ_4	ℓ_6	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{15}
in point	P_{123}	P_{123}	P_{123}	P_{123}	P_{241217}	P_{11898}	P_{7747}	P_{237177}

Line 6 intersects

Line	ℓ_0	ℓ_2	ℓ_4	ℓ_5	ℓ_9	ℓ_{13}	ℓ_{14}	ℓ_{15}
in point	P_{123}	P_{123}	P_{123}	P_{123}	P_{237185}	P_{11906}	P_{241337}	P_{7867}

Line 7 intersects

Line	ℓ_0	ℓ_1	ℓ_4	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{14}	ℓ_{15}
in point	P_{124}	P_{124}	P_{8322}	P_{124}	P_{124}	P_{233657}	P_{4283}	P_{237698}

Line 8 intersects

Line	ℓ_0	ℓ_1	ℓ_5	ℓ_7	ℓ_9	ℓ_{12}	ℓ_{13}	ℓ_{14}
in point	P_{124}	P_{124}	P_{241217}	P_{124}	P_{124}	P_{7802}	P_{237178}	P_{11842}

Line 9 intersects

Line	ℓ_0	ℓ_1	ℓ_6	ℓ_7	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{12}
in point	P_{124}	P_{124}	P_{237185}	P_{124}	P_{124}	P_{7811}	P_{11961}	P_{241338}

Line 10 intersects

Line	ℓ_2	ℓ_3	ℓ_5	ℓ_7	ℓ_9	ℓ_{13}
in point	P_{187}	P_{237633}	P_{11898}	P_{233657}	P_{7811}	P_{237633}

Line 11 intersects

Line	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_9	ℓ_{14}
in point	P_{188}	P_{233537}	P_{237754}	P_{7747}	P_{11961}	P_{233537}

Line 12 intersects

Line	ℓ_2	ℓ_3	ℓ_4	ℓ_8	ℓ_9	ℓ_{15}
in point	P_{3707}	P_{8258}	P_{233602}	P_{7802}	P_{241338}	P_{8258}

Line 13 intersects

Line	ℓ_1	ℓ_3	ℓ_4	ℓ_6	ℓ_8	ℓ_{10}
in point	P_{3708}	P_{237633}	P_{4282}	P_{11906}	P_{237178}	P_{237633}

Line 14 intersects

Line	ℓ_2	ℓ_3	ℓ_6	ℓ_7	ℓ_8	ℓ_{11}
in point	P_{3771}	P_{233537}	P_{241337}	P_{4283}	P_{11842}	P_{233537}

Line 15 intersects

Line	ℓ_1	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_{12}
in point	P_{3772}	P_{8258}	P_{237177}	P_{7867}	P_{237698}	P_{8258}

The surface has 4417 points:
Too many to print.