# Rank-67243 over GF(64)

January 15, 2021

## The equation

The equation of the surface is :

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

( 0, 0, 0, 1, 0, 1, 0, 1, 0, 1, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0 )
The point rank of the equation over GF(64) is -2130177979

## General information

| | |
|---|---:|
| Number of lines | 16 |
| Number of points | 4417 |
| Number of singular points | 2 |
| Number of Eckardt points | 0 |
| Number of double points | 38 |
| Number of single points | 954 |
| Number of points off lines | 3423 |
| Number of Hesse planes | 0 |
| Number of axes | 0 |
| Type of points on lines | $65^{16}$ |
| Type of lines on points | $5^2, 2^{38}, 1^{954}, 0^{3423}$ |

### Singular Points

The surface has 2 singular points:

$0 : P_{233601} = \mathbf{P}(0, 1, \epsilon^{42}, 1) = \mathbf{P}(0, 1, 56, 1)$
$1 : P_{237697} = \mathbf{P}(0, 1, \epsilon^{21}, 1) = \mathbf{P}(0, 1, 57, 1)$

## The 16 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17043456} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17043456} = \mathbf{Pl}(0,0,0,0,0,1)_{270401}$$

1

$$\ell_1 = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17043521} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{17043521} = \mathbf{Pl}(0,1,0,0,0,1)_{270465}$$

$$\ell_2 = \begin{bmatrix} 1 & 0 & \epsilon^{42} & 1 \\ 0 & 1 & \epsilon^{21} & 1 \end{bmatrix}_{499441} = \begin{bmatrix} 1 & 0 & 56 & 1 \\ 0 & 1 & 57 & 1 \end{bmatrix}_{499441} = \mathbf{Pl}(56,57,56,57,57,1)_{15447346}$$

$$\ell_3 = \begin{bmatrix} 1 & 0 & \epsilon^{21} & 1 \\ 0 & 1 & \epsilon^{42} & 1 \end{bmatrix}_{503601} = \begin{bmatrix} 1 & 0 & 57 & 1 \\ 0 & 1 & 56 & 1 \end{bmatrix}_{503601} = \mathbf{Pl}(57,56,57,56,56,1)_{15189236}$$

$$\ell_4 = \begin{bmatrix} 1 & 0 & \epsilon^{26} & \epsilon^{36} \\ 0 & 1 & \epsilon^{42} & 1 \end{bmatrix}_{9682767} = \begin{bmatrix} 1 & 0 & 23 & 36 \\ 0 & 1 & 56 & 1 \end{bmatrix}_{9682767} = \mathbf{Pl}(59,51,5,63,41,1)_{11054485}$$

$$\ell_5 = \begin{bmatrix} 1 & 0 & \epsilon^{41} & \epsilon^{18} \\ 0 & 1 & \epsilon^{41} & 0 \end{bmatrix}_{3045880} = \begin{bmatrix} 1 & 0 & 28 & 11 \\ 0 & 1 & 28 & 0 \end{bmatrix}_{3045880} = \mathbf{Pl}(37,11,1,14,0,1)_{338163}$$

$$\ell_6 = \begin{bmatrix} 1 & 0 & \epsilon^{13} & \epsilon^{18} \\ 0 & 1 & \epsilon^{21} & 1 \end{bmatrix}_{3050134} = \begin{bmatrix} 1 & 0 & 29 & 11 \\ 0 & 1 & 57 & 1 \end{bmatrix}_{3050134} = \mathbf{Pl}(34,22,3,32,60,1)_{16024467}$$

$$\ell_7 = \begin{bmatrix} 1 & 0 & \epsilon^{52} & \epsilon^{9} \\ 0 & 1 & \epsilon^{52} & 0 \end{bmatrix}_{12724388} = \begin{bmatrix} 1 & 0 & 50 & 47 \\ 0 & 1 & 50 & 0 \end{bmatrix}_{12724388} = \mathbf{Pl}(10,47,1,44,0,1)_{457206}$$

$$\ell_8 = \begin{bmatrix} 1 & 0 & \epsilon^{19} & \epsilon^{36} \\ 0 & 1 & \epsilon^{19} & 0 \end{bmatrix}_{9678508} = \begin{bmatrix} 1 & 0 & 22 & 36 \\ 0 & 1 & 22 & 0 \end{bmatrix}_{9678508} = \mathbf{Pl}(46,36,1,53,0,1)_{492963}$$

$$\ell_9 = \begin{bmatrix} 1 & 0 & \epsilon^{52} & \epsilon^{9} \\ 0 & 1 & \epsilon^{21} & 1 \end{bmatrix}_{12724459} = \begin{bmatrix} 1 & 0 & 50 & 47 \\ 0 & 1 & 57 & 1 \end{bmatrix}_{12724459} = \mathbf{Pl}(60,29,17,44,31,1)_{8479172}$$

$$\ell_{10} = \begin{bmatrix} 1 & 0 & \epsilon^{38} & \epsilon^{9} \\ 0 & 1 & \epsilon^{42} & 1 \end{bmatrix}_{12728619} = \begin{bmatrix} 1 & 0 & 51 & 47 \\ 0 & 1 & 56 & 1 \end{bmatrix}_{12728619} = \mathbf{Pl}(19,28,27,9,59,1)_{15856494}$$

$$\ell_{11} = \begin{bmatrix} 1 & 0 & \epsilon^{26} & \epsilon^{36} \\ 0 & 1 & \epsilon^{26} & 0 \end{bmatrix}_{9682670} = \begin{bmatrix} 1 & 0 & 23 & 36 \\ 0 & 1 & 23 & 0 \end{bmatrix}_{9682670} = \mathbf{Pl}(46,36,1,63,0,1)_{532653}$$

$$\ell_{12} = \begin{bmatrix} 1 & 0 & \epsilon^{41} & \epsilon^{18} \\ 0 & 1 & \epsilon^{42} & 1 \end{bmatrix}_{3045972} = \begin{bmatrix} 1 & 0 & 28 & 11 \\ 0 & 1 & 56 & 1 \end{bmatrix}_{3045972} = \mathbf{Pl}(41,23,38,14,19,1)_{5415841}$$

$$\ell_{13} = \begin{bmatrix} 1 & 0 & \epsilon^{38} & \epsilon^{9} \\ 0 & 1 & \epsilon^{38} & 0 \end{bmatrix}_{12728550} = \begin{bmatrix} 1 & 0 & 51 & 47 \\ 0 & 1 & 51 & 0 \end{bmatrix}_{12728550} = \mathbf{Pl}(10,47,1,9,0,1)_{318291}$$

$$\ell_{14} = \begin{bmatrix} 1 & 0 & \epsilon^{13} & \epsilon^{18} \\ 0 & 1 & \epsilon^{13} & 0 \end{bmatrix}_{3050042} = \begin{bmatrix} 1 & 0 & 29 & 11 \\ 0 & 1 & 29 & 0 \end{bmatrix}_{3050042} = \mathbf{Pl}(37,11,1,32,0,1)_{409605}$$

$$\ell_{15} = \begin{bmatrix} 1 & 0 & \epsilon^{19} & \epsilon^{36} \\ 0 & 1 & \epsilon^{21} & 1 \end{bmatrix}_{9678607} = \begin{bmatrix} 1 & 0 & 22 & 36 \\ 0 & 1 & 57 & 1 \end{bmatrix}_{9678607} = \mathbf{Pl}(31,50,43,53,34,1)_{9368388}$$

Rank of lines: ( 17043456, 17043521, 499441, 503601, 9682767, 3045880, 3050134, 12724388, 9678508, 12724459, 12728619, 9682670, 3045972, 12728550, 3050042, 9678607 )

Rank of points on Klein quadric: ( 270401, 270465, 15447346, 15189236, 11054485, 338163, 16024467, 457206, 492963, 8479172, 15856494, 532653, 5415841, 318291, 409605, 9368388 )

## Eckardt Points

The surface has 0 Eckardt points:

## Double Points

The surface has 38 Double points:
The double points on the surface are:

$P_2 = (0, 0, 1, 0) = \ell_0 \cap \ell_1$
$P_{1283} = (0, 19, 1, 0) = \ell_0 \cap \ell_5$
$P_{2051} = (0, 31, 1, 0) = \ell_0 \cap \ell_7$
$P_{2243} = (0, 34, 1, 0) = \ell_0 \cap \ell_8$
$P_{2691} = (0, 41, 1, 0) = \ell_0 \cap \ell_{11}$
$P_{3843} = (0, 59, 1, 0) = \ell_0 \cap \ell_{13}$
$P_{3907} = (0, 60, 1, 0) = \ell_0 \cap \ell_{14}$
$P_{132} = (1, 1, 1, 0) = \ell_2 \cap \ell_3$
$P_{121190} = (37, 36, 28, 1) = \ell_2 \cap \ell_5$
$P_{101423} = (46, 47, 23, 1) = \ell_2 \cap \ell_{11}$
$P_{213771} = (10, 11, 51, 1) = \ell_2 \cap \ell_{13}$
$P_{209675} = (10, 11, 50, 1) = \ell_3 \cap \ell_7$
$P_{97327} = (46, 47, 22, 1) = \ell_3 \cap \ell_8$
$P_{125286} = (37, 36, 29, 1) = \ell_3 \cap \ell_{14}$
$P_{24687} = (46, 0, 5, 1) = \ell_4 \cap \ell_{11}$
$P_{187403} = (10, 47, 44, 1) = \ell_4 \cap \ell_{13}$
$P_{82662} = (37, 10, 19, 1) = \ell_4 \cap \ell_{14}$
$P_{193292} = (11, 11, 46, 1) = \ell_4 \cap \ell_{15}$
$P_{135974} = (37, 11, 32, 1) = \ell_5 \cap \ell_{10}$
$P_{159846} = (37, 0, 38, 1) = \ell_5 \cap \ell_{12}$

$P_{6567} = (37, 37, 0, 1) = \ell_5 \cap \ell_{14}$
$P_{250598} = (37, 10, 60, 1) = \ell_5 \cap \ell_{15}$
$P_{264559} = (46, 36, 63, 1) = \ell_6 \cap \ell_8$
$P_{158768} = (47, 47, 37, 1) = \ell_6 \cap \ell_{12}$
$P_{134091} = (10, 46, 31, 1) = \ell_6 \cap \ell_{13}$
$P_{16486} = (37, 0, 3, 1) = \ell_6 \cap \ell_{14}$
$P_{73803} = (10, 0, 17, 1) = \ell_7 \cap \ell_9$
$P_{248779} = (10, 46, 59, 1) = \ell_7 \cap \ell_{12}$
$P_{4812} = (10, 10, 0, 1) = \ell_7 \cap \ell_{13}$
$P_{44043} = (10, 47, 9, 1) = \ell_7 \cap \ell_{15}$
$P_{174511} = (46, 37, 41, 1) = \ell_8 \cap \ell_{10}$
$P_{7152} = (46, 46, 0, 1) = \ell_8 \cap \ell_{11}$
$P_{180335} = (46, 0, 43, 1) = \ell_8 \cap \ell_{15}$
$P_{47461} = (36, 36, 10, 1) = \ell_9 \cap \ell_{10}$
$P_{145839} = (46, 37, 34, 1) = \ell_9 \cap \ell_{11}$
$P_{62246} = (37, 11, 14, 1) = \ell_9 \cap \ell_{14}$
$P_{114763} = (10, 0, 27, 1) = \ell_{10} \cap \ell_{13}$
$P_{223599} = (46, 36, 53, 1) = \ell_{11} \cap \ell_{12}$

**Single Points**

The surface has 954 single points:
The single points on the surface are:

$0 :\ P_1 = (0, 1, 0, 0)$ lies on line $\ell_0$
$1 :\ P_{131} = (0, 1, 1, 0)$ lies on line $\ell_0$
$2 :\ P_{195} = (0, 2, 1, 0)$ lies on line $\ell_0$
$3 :\ P_{259} = (0, 3, 1, 0)$ lies on line $\ell_0$
$4 :\ P_{323} = (0, 4, 1, 0)$ lies on line $\ell_0$
$5 :\ P_{387} = (0, 5, 1, 0)$ lies on line $\ell_0$
$6 :\ P_{451} = (0, 6, 1, 0)$ lies on line $\ell_0$
$7 :\ P_{515} = (0, 7, 1, 0)$ lies on line $\ell_0$
$8 :\ P_{579} = (0, 8, 1, 0)$ lies on line $\ell_0$
$9 :\ P_{643} = (0, 9, 1, 0)$ lies on line $\ell_0$
$10 :\ P_{707} = (0, 10, 1, 0)$ lies on line $\ell_0$
$11 :\ P_{771} = (0, 11, 1, 0)$ lies on line $\ell_0$
$12 :\ P_{835} = (0, 12, 1, 0)$ lies on line $\ell_0$
$13 :\ P_{899} = (0, 13, 1, 0)$ lies on line $\ell_0$
$14 :\ P_{963} = (0, 14, 1, 0)$ lies on line $\ell_0$
$15 :\ P_{1027} = (0, 15, 1, 0)$ lies on line $\ell_0$
$16 :\ P_{1091} = (0, 16, 1, 0)$ lies on line $\ell_0$
$17 :\ P_{1155} = (0, 17, 1, 0)$ lies on line $\ell_0$
$18 :\ P_{1219} = (0, 18, 1, 0)$ lies on line $\ell_0$
$19 :\ P_{1267} = (48, 18, 1, 0)$ lies on line $\ell_4$
$20 :\ P_{1347} = (0, 20, 1, 0)$ lies on line $\ell_0$
$21 :\ P_{1411} = (0, 21, 1, 0)$ lies on line $\ell_0$
$22 :\ P_{1475} = (0, 22, 1, 0)$ lies on line $\ell_0$
$23 :\ P_{1539} = (0, 23, 1, 0)$ lies on line $\ell_0$
$24 :\ P_{1603} = (0, 24, 1, 0)$ lies on line $\ell_0$
$25 :\ P_{1667} = (0, 25, 1, 0)$ lies on line $\ell_0$
$26 :\ P_{1731} = (0, 26, 1, 0)$ lies on line $\ell_0$

$27 :\ P_{1795} = (0, 27, 1, 0)$ lies on line $\ell_0$
$28 :\ P_{1859} = (0, 28, 1, 0)$ lies on line $\ell_0$
$29 :\ P_{1923} = (0, 29, 1, 0)$ lies on line $\ell_0$
$30 :\ P_{1987} = (0, 30, 1, 0)$ lies on line $\ell_0$
$31 :\ P_{2000} = (13, 30, 1, 0)$ lies on line $\ell_6$
$32 :\ P_{2115} = (0, 32, 1, 0)$ lies on line $\ell_0$
$33 :\ P_{2179} = (0, 33, 1, 0)$ lies on line $\ell_0$
$34 :\ P_{2307} = (0, 35, 1, 0)$ lies on line $\ell_0$
$35 :\ P_{2331} = (24, 35, 1, 0)$ lies on line $\ell_9$
$36 :\ P_{2371} = (0, 36, 1, 0)$ lies on line $\ell_0$
$37 :\ P_{2435} = (0, 37, 1, 0)$ lies on line $\ell_0$
$38 :\ P_{2499} = (0, 38, 1, 0)$ lies on line $\ell_0$
$39 :\ P_{2563} = (0, 39, 1, 0)$ lies on line $\ell_0$
$40 :\ P_{2627} = (0, 40, 1, 0)$ lies on line $\ell_0$
$41 :\ P_{2682} = (55, 40, 1, 0)$ lies on line $\ell_{10}$
$42 :\ P_{2755} = (0, 42, 1, 0)$ lies on line $\ell_0$
$43 :\ P_{2819} = (0, 43, 1, 0)$ lies on line $\ell_0$
$44 :\ P_{2883} = (0, 44, 1, 0)$ lies on line $\ell_0$
$45 :\ P_{2947} = (0, 45, 1, 0)$ lies on line $\ell_0$
$46 :\ P_{3011} = (0, 46, 1, 0)$ lies on line $\ell_0$
$47 :\ P_{3075} = (0, 47, 1, 0)$ lies on line $\ell_0$
$48 :\ P_{3139} = (0, 48, 1, 0)$ lies on line $\ell_0$
$49 :\ P_{3203} = (0, 49, 1, 0)$ lies on line $\ell_0$
$50 :\ P_{3267} = (0, 50, 1, 0)$ lies on line $\ell_0$
$51 :\ P_{3331} = (0, 51, 1, 0)$ lies on line $\ell_0$
$52 :\ P_{3395} = (0, 52, 1, 0)$ lies on line $\ell_0$
$53 :\ P_{3459} = (0, 53, 1, 0)$ lies on line $\ell_0$

$54: P_{3523} = (0, 54, 1, 0)$ lies on line $\ell_0$
$55: P_{3587} = (0, 55, 1, 0)$ lies on line $\ell_0$
$56: P_{3651} = (0, 56, 1, 0)$ lies on line $\ell_0$
$57: P_{3715} = (0, 57, 1, 0)$ lies on line $\ell_0$
$58: P_{3779} = (0, 58, 1, 0)$ lies on line $\ell_0$
$59: P_{3785} = (6, 58, 1, 0)$ lies on line $\ell_{12}$
$60: P_{3971} = (0, 61, 1, 0)$ lies on line $\ell_0$
$61: P_{3991} = (20, 61, 1, 0)$ lies on line $\ell_{15}$
$62: P_{4035} = (0, 62, 1, 0)$ lies on line $\ell_0$
$63: P_{4099} = (0, 63, 1, 0)$ lies on line $\ell_0$
$64: P_{4226} = (0, 1, 0, 1)$ lies on line $\ell_1$
$65: P_{5401} = (23, 19, 0, 1)$ lies on line $\ell_{10}$
$66: P_{6175} = (29, 31, 0, 1)$ lies on line $\ell_{15}$
$67: P_{6388} = (50, 34, 0, 1)$ lies on line $\ell_6$
$68: P_{6837} = (51, 41, 0, 1)$ lies on line $\ell_{12}$
$69: P_{7803} = (57, 56, 0, 1)$ lies on line $\ell_2$
$70: P_{7866} = (56, 57, 0, 1)$ lies on line $\ell_3$
$71: P_{7966} = (28, 59, 0, 1)$ lies on line $\ell_4$
$72: P_{8024} = (22, 60, 0, 1)$ lies on line $\ell_9$
$73: P_{8322} = (0, 1, 1, 1)$ lies on line $\ell_1$
$74: P_{8751} = (46, 7, 1, 1)$ lies on line $\ell_{11}$
$75: P_{9071} = (46, 12, 1, 1)$ lies on line $\ell_8$
$76: P_{9526} = (53, 19, 1, 1)$ lies on line $\ell_{12}$
$77: P_{9611} = (10, 21, 1, 1)$ lies on line $\ell_7$
$78: P_{9894} = (37, 25, 1, 1)$ lies on line $\ell_{14}$
$79: P_{10255} = (14, 31, 1, 1)$ lies on line $\ell_9$
$80: P_{10442} = (9, 34, 1, 1)$ lies on line $\ell_{15}$
$81: P_{10925} = (44, 41, 1, 1)$ lies on line $\ell_4$
$82: P_{11403} = (10, 49, 1, 1)$ lies on line $\ell_{13}$
$83: P_{11750} = (37, 54, 1, 1)$ lies on line $\ell_5$
$84: P_{11898} = (57, 56, 1, 1)$ lies on line $\ell_3$
$85: P_{11961} = (56, 57, 1, 1)$ lies on line $\ell_2$
$86: P_{12065} = (32, 59, 1, 1)$ lies on line $\ell_{10}$
$87: P_{12160} = (63, 60, 1, 1)$ lies on line $\ell_6$
$88: P_{12417} = (0, 1, 2, 1)$ lies on line $\ell_1$
$89: P_{12582} = (37, 3, 2, 1)$ lies on line $\ell_5$
$90: P_{12662} = (53, 4, 2, 1)$ lies on line $\ell_{15}$
$91: P_{13103} = (46, 11, 2, 1)$ lies on line $\ell_8$
$92: P_{14119} = (38, 27, 2, 1)$ lies on line $\ell_9$
$93: P_{14219} = (10, 29, 2, 1)$ lies on line $\ell_{13}$
$94: P_{14255} = (46, 29, 2, 1)$ lies on line $\ell_{11}$
$95: P_{14313} = (40, 30, 2, 1)$ lies on line $\ell_6$
$96: P_{14366} = (29, 31, 2, 1)$ lies on line $\ell_4$
$97: P_{14553} = (24, 34, 2, 1)$ lies on line $\ell_{10}$
$98: P_{15691} = (10, 52, 2, 1)$ lies on line $\ell_7$
$99: P_{16124} = (59, 58, 2, 1)$ lies on line $\ell_2$
$100: P_{16187} = (58, 59, 2, 1)$ lies on line $\ell_3$
$101: P_{16230} = (37, 60, 2, 1)$ lies on line $\ell_{14}$
$102: P_{16256} = (63, 60, 2, 1)$ lies on line $\ell_{12}$
$103: P_{16513} = (0, 1, 3, 1)$ lies on line $\ell_1$
$104: P_{16890} = (57, 6, 3, 1)$ lies on line $\ell_{12}$
$105: P_{17136} = (47, 10, 3, 1)$ lies on line $\ell_{10}$
$106: P_{17326} = (45, 13, 3, 1)$ lies on line $\ell_4$
$107: P_{17510} = (37, 16, 3, 1)$ lies on line $\ell_5$

$108: P_{18891} = (10, 38, 3, 1)$ lies on line $\ell_{13}$
$109: P_{19119} = (46, 41, 3, 1)$ lies on line $\ell_8$
$110: P_{19211} = (10, 43, 3, 1)$ lies on line $\ell_7$
$111: P_{19823} = (46, 52, 3, 1)$ lies on line $\ell_{11}$
$112: P_{20095} = (62, 56, 3, 1)$ lies on line $\ell_9$
$113: P_{20130} = (33, 57, 3, 1)$ lies on line $\ell_{15}$
$114: P_{20220} = (59, 58, 3, 1)$ lies on line $\ell_3$
$115: P_{20283} = (58, 59, 3, 1)$ lies on line $\ell_2$
$116: P_{20609} = (0, 1, 4, 1)$ lies on line $\ell_1$
$117: P_{20780} = (43, 3, 4, 1)$ lies on line $\ell_{12}$
$118: P_{20911} = (46, 5, 4, 1)$ lies on line $\ell_8$
$119: P_{21094} = (37, 8, 4, 1)$ lies on line $\ell_5$
$120: P_{21578} = (9, 16, 4, 1)$ lies on line $\ell_{10}$
$121: P_{21727} = (30, 18, 4, 1)$ lies on line $\ell_4$
$122: P_{21784} = (23, 19, 4, 1)$ lies on line $\ell_9$
$123: P_{22027} = (10, 23, 4, 1)$ lies on line $\ell_7$
$124: P_{22054} = (37, 23, 4, 1)$ lies on line $\ell_{14}$
$125: P_{22859} = (10, 36, 4, 1)$ lies on line $\ell_{13}$
$126: P_{23213} = (44, 41, 4, 1)$ lies on line $\ell_{15}$
$127: P_{23215} = (46, 41, 4, 1)$ lies on line $\ell_{11}$
$128: P_{24327} = (6, 59, 4, 1)$ lies on line $\ell_6$
$129: P_{24446} = (61, 60, 4, 1)$ lies on line $\ell_2$
$130: P_{24509} = (60, 61, 4, 1)$ lies on line $\ell_3$
$131: P_{24705} = (0, 1, 5, 1)$ lies on line $\ell_1$
$132: P_{25163} = (10, 8, 5, 1)$ lies on line $\ell_7$
$133: P_{25977} = (56, 20, 5, 1)$ lies on line $\ell_{15}$
$134: P_{26406} = (37, 27, 5, 1)$ lies on line $\ell_5$
$135: P_{26635} = (10, 31, 5, 1)$ lies on line $\ell_{13}$
$136: P_{27020} = (11, 37, 5, 1)$ lies on line $\ell_6$
$137: P_{27183} = (46, 39, 5, 1)$ lies on line $\ell_8$
$138: P_{27430} = (37, 43, 5, 1)$ lies on line $\ell_{14}$
$139: P_{27728} = (15, 48, 5, 1)$ lies on line $\ell_9$
$140: P_{28287} = (62, 56, 5, 1)$ lies on line $\ell_{10}$
$141: P_{28334} = (45, 57, 5, 1)$ lies on line $\ell_{12}$
$142: P_{28542} = (61, 60, 5, 1)$ lies on line $\ell_3$
$143: P_{28605} = (60, 61, 5, 1)$ lies on line $\ell_2$
$144: P_{28801} = (0, 1, 6, 1)$ lies on line $\ell_1$
$145: P_{29213} = (28, 7, 6, 1)$ lies on line $\ell_6$
$146: P_{29670} = (37, 14, 6, 1)$ lies on line $\ell_{14}$
$147: P_{30184} = (39, 22, 6, 1)$ lies on line $\ell_{12}$
$148: P_{30447} = (46, 26, 6, 1)$ lies on line $\ell_{11}$
$149: P_{30831} = (46, 32, 6, 1)$ lies on line $\ell_8$
$150: P_{30855} = (6, 33, 6, 1)$ lies on line $\ell_{10}$
$151: P_{31371} = (10, 41, 6, 1)$ lies on line $\ell_7$
$152: P_{31718} = (37, 46, 6, 1)$ lies on line $\ell_5$
$153: P_{31941} = (4, 50, 6, 1)$ lies on line $\ell_{15}$
$154: P_{32011} = (10, 51, 6, 1)$ lies on line $\ell_{13}$
$155: P_{32104} = (39, 52, 6, 1)$ lies on line $\ell_9$
$156: P_{32224} = (31, 54, 6, 1)$ lies on line $\ell_4$
$157: P_{32768} = (63, 62, 6, 1)$ lies on line $\ell_2$
$158: P_{32831} = (62, 63, 6, 1)$ lies on line $\ell_3$
$159: P_{32897} = (0, 1, 7, 1)$ lies on line $\ell_1$
$160: P_{33007} = (46, 2, 7, 1)$ lies on line $\ell_8$
$161: P_{33355} = (10, 8, 7, 1)$ lies on line $\ell_{13}$

$162: P_{33458} = (49, 9, 7, 1)$ lies on line $\ell_{10}$
$163: P_{33809} = (16, 15, 7, 1)$ lies on line $\ell_{15}$
$164: P_{34368} = (63, 23, 7, 1)$ lies on line $\ell_9$
$165: P_{34450} = (17, 25, 7, 1)$ lies on line $\ell_6$
$166: P_{35184} = (47, 36, 7, 1)$ lies on line $\ell_4$
$167: P_{35682} = (33, 44, 7, 1)$ lies on line $\ell_{12}$
$168: P_{36070} = (37, 50, 7, 1)$ lies on line $\ell_{14}$
$169: P_{36143} = (46, 51, 7, 1)$ lies on line $\ell_{11}$
$170: P_{36299} = (10, 54, 7, 1)$ lies on line $\ell_7$
$171: P_{36774} = (37, 61, 7, 1)$ lies on line $\ell_5$
$172: P_{36864} = (63, 62, 7, 1)$ lies on line $\ell_3$
$173: P_{36927} = (62, 63, 7, 1)$ lies on line $\ell_2$
$174: P_{36993} = (0, 1, 8, 1)$ lies on line $\ell_1$
$175: P_{37141} = (20, 3, 8, 1)$ lies on line $\ell_9$
$176: P_{37465} = (24, 8, 8, 1)$ lies on line $\ell_4$
$177: P_{38012} = (59, 16, 8, 1)$ lies on line $\ell_6$
$178: P_{38111} = (30, 18, 8, 1)$ lies on line $\ell_{15}$
$179: P_{38316} = (43, 21, 8, 1)$ lies on line $\ell_{10}$
$180: P_{38575} = (46, 25, 8, 1)$ lies on line $\ell_8$
$181: P_{38724} = (3, 28, 8, 1)$ lies on line $\ell_{12}$
$182: P_{38886} = (37, 30, 8, 1)$ lies on line $\ell_5$
$183: P_{39014} = (37, 32, 8, 1)$ lies on line $\ell_{14}$
$184: P_{39023} = (46, 32, 8, 1)$ lies on line $\ell_{11}$
$185: P_{40011} = (10, 48, 8, 1)$ lies on line $\ell_7$
$186: P_{40050} = (49, 48, 8, 1)$ lies on line $\ell_2$
$187: P_{40113} = (48, 49, 8, 1)$ lies on line $\ell_3$
$188: P_{40459} = (10, 55, 8, 1)$ lies on line $\ell_{13}$
$189: P_{41089} = (0, 1, 9, 1)$ lies on line $\ell_1$
$190: P_{41647} = (46, 9, 9, 1)$ lies on line $\ell_{11}$
$191: P_{41803} = (10, 12, 9, 1)$ lies on line $\ell_{13}$
$192: P_{41894} = (37, 13, 9, 1)$ lies on line $\ell_5$
$193: P_{41975} = (54, 14, 9, 1)$ lies on line $\ell_6$
$194: P_{42729} = (40, 26, 9, 1)$ lies on line $\ell_4$
$195: P_{42854} = (37, 28, 9, 1)$ lies on line $\ell_{14}$
$196: P_{43085} = (12, 32, 9, 1)$ lies on line $\ell_9$
$197: P_{43462} = (5, 38, 9, 1)$ lies on line $\ell_{12}$
$198: P_{44146} = (49, 48, 9, 1)$ lies on line $\ell_3$
$199: P_{44209} = (48, 49, 9, 1)$ lies on line $\ell_2$
$200: P_{44847} = (46, 59, 9, 1)$ lies on line $\ell_8$
$201: P_{44957} = (28, 61, 9, 1)$ lies on line $\ell_{10}$
$202: P_{45185} = (0, 1, 10, 1)$ lies on line $\ell_1$
$203: P_{45712} = (15, 9, 10, 1)$ lies on line $\ell_{12}$
$204: P_{45751} = (54, 9, 10, 1)$ lies on line $\ell_{15}$
$205: P_{46027} = (10, 14, 10, 1)$ lies on line $\ell_7$
$206: P_{46383} = (46, 19, 10, 1)$ lies on line $\ell_{11}$
$207: P_{47179} = (10, 32, 10, 1)$ lies on line $\ell_{13}$
$208: P_{47962} = (25, 44, 10, 1)$ lies on line $\ell_4$
$209: P_{47970} = (33, 44, 10, 1)$ lies on line $\ell_6$
$210: P_{48372} = (51, 50, 10, 1)$ lies on line $\ell_2$
$211: P_{48435} = (50, 51, 10, 1)$ lies on line $\ell_3$
$212: P_{48742} = (37, 56, 10, 1)$ lies on line $\ell_5$
$213: P_{48806} = (37, 57, 10, 1)$ lies on line $\ell_{14}$
$214: P_{49007} = (46, 60, 10, 1)$ lies on line $\ell_8$
$215: P_{49281} = (0, 1, 11, 1)$ lies on line $\ell_1$

$216: P_{49574} = (37, 5, 11, 1)$ lies on line $\ell_{14}$
$217: P_{49725} = (60, 7, 11, 1)$ lies on line $\ell_9$
$218: P_{50004} = (19, 12, 11, 1)$ lies on line $\ell_{10}$
$219: P_{50315} = (10, 17, 11, 1)$ lies on line $\ell_7$
$220: P_{50955} = (10, 27, 11, 1)$ lies on line $\ell_{13}$
$221: P_{51183} = (46, 30, 11, 1)$ lies on line $\ell_8$
$222: P_{52006} = (37, 43, 11, 1)$ lies on line $\ell_5$
$223: P_{52461} = (44, 50, 11, 1)$ lies on line $\ell_6$
$224: P_{52468} = (51, 50, 11, 1)$ lies on line $\ell_3$
$225: P_{52490} = (9, 51, 11, 1)$ lies on line $\ell_{12}$
$226: P_{52531} = (50, 51, 11, 1)$ lies on line $\ell_2$
$227: P_{52579} = (34, 52, 11, 1)$ lies on line $\ell_{15}$
$228: P_{52975} = (46, 58, 11, 1)$ lies on line $\ell_{11}$
$229: P_{53226} = (41, 62, 11, 1)$ lies on line $\ell_4$
$230: P_{53377} = (0, 1, 12, 1)$ lies on line $\ell_1$
$231: P_{53904} = (15, 9, 12, 1)$ lies on line $\ell_6$
$232: P_{54502} = (37, 18, 12, 1)$ lies on line $\ell_{14}$
$233: P_{54774} = (53, 22, 12, 1)$ lies on line $\ell_{10}$
$234: P_{54923} = (10, 25, 12, 1)$ lies on line $\ell_{13}$
$235: P_{55451} = (26, 33, 12, 1)$ lies on line $\ell_4$
$236: P_{55664} = (47, 36, 12, 1)$ lies on line $\ell_{15}$
$237: P_{55855} = (46, 39, 12, 1)$ lies on line $\ell_{11}$
$238: P_{56150} = (21, 44, 12, 1)$ lies on line $\ell_9$
$239: P_{56203} = (10, 45, 12, 1)$ lies on line $\ell_7$
$240: P_{56559} = (46, 50, 12, 1)$ lies on line $\ell_8$
$241: P_{56614} = (37, 51, 12, 1)$ lies on line $\ell_5$
$242: P_{56694} = (53, 52, 12, 1)$ lies on line $\ell_2$
$243: P_{56757} = (52, 53, 12, 1)$ lies on line $\ell_3$
$244: P_{56796} = (27, 54, 12, 1)$ lies on line $\ell_{12}$
$245: P_{57473} = (0, 1, 13, 1)$ lies on line $\ell_1$
$246: P_{58206} = (29, 12, 13, 1)$ lies on line $\ell_{12}$
$247: P_{58351} = (46, 14, 13, 1)$ lies on line $\ell_{11}$
$248: P_{58382} = (13, 15, 13, 1)$ lies on line $\ell_9$
$249: P_{58479} = (46, 16, 13, 1)$ lies on line $\ell_8$
$250: P_{58883} = (2, 23, 13, 1)$ lies on line $\ell_6$
$251: P_{59068} = (59, 25, 13, 1)$ lies on line $\ell_{15}$
$252: P_{59494} = (37, 32, 13, 1)$ lies on line $\ell_5$
$253: P_{59595} = (10, 34, 13, 1)$ lies on line $\ell_{13}$
$254: P_{60390} = (37, 46, 13, 1)$ lies on line $\ell_{14}$
$255: P_{60619} = (10, 50, 13, 1)$ lies on line $\ell_7$
$256: P_{60715} = (42, 51, 13, 1)$ lies on line $\ell_4$
$257: P_{60790} = (53, 52, 13, 1)$ lies on line $\ell_3$
$258: P_{60853} = (52, 53, 13, 1)$ lies on line $\ell_2$
$259: P_{61379} = (2, 62, 13, 1)$ lies on line $\ell_{10}$
$260: P_{61569} = (0, 1, 14, 1)$ lies on line $\ell_1$
$261: P_{61852} = (27, 5, 14, 1)$ lies on line $\ell_4$
$262: P_{62411} = (10, 14, 14, 1)$ lies on line $\ell_{13}$
$263: P_{62731} = (10, 19, 14, 1)$ lies on line $\ell_7$
$264: P_{62831} = (46, 20, 14, 1)$ lies on line $\ell_{11}$
$265: P_{62886} = (37, 21, 14, 1)$ lies on line $\ell_5$
$266: P_{63023} = (46, 23, 14, 1)$ lies on line $\ell_8$
$267: P_{63768} = (23, 35, 14, 1)$ lies on line $\ell_{12}$
$268: P_{64059} = (58, 39, 14, 1)$ lies on line $\ell_{10}$
$269: P_{64918} = (21, 53, 14, 1)$ lies on line $\ell_6$

$270: P_{65016} = (55, 54, 14, 1)$ lies on line $\ell_2$

$271: P_{65079} = (54, 55, 14, 1)$ lies on line $\ell_3$

$272: P_{65544} = (7, 63, 14, 1)$ lies on line $\ell_{15}$

$273: P_{65665} = (0, 1, 15, 1)$ lies on line $\ell_1$

$274: P_{65748} = (19, 2, 15, 1)$ lies on line $\ell_{15}$

$275: P_{66022} = (37, 6, 15, 1)$ lies on line $\ell_5$

$276: P_{66379} = (10, 12, 15, 1)$ lies on line $\ell_7$

$277: P_{66574} = (13, 15, 15, 1)$ lies on line $\ell_{10}$

$278: P_{67116} = (43, 23, 15, 1)$ lies on line $\ell_4$

$279: P_{67218} = (17, 25, 15, 1)$ lies on line $\ell_{12}$

$280: P_{68222} = (61, 40, 15, 1)$ lies on line $\ell_9$

$281: P_{68377} = (24, 43, 15, 1)$ lies on line $\ell_6$

$282: P_{69003} = (10, 53, 15, 1)$ lies on line $\ell_{13}$

$283: P_{69039} = (46, 53, 15, 1)$ lies on line $\ell_8$

$284: P_{69112} = (55, 54, 15, 1)$ lies on line $\ell_3$

$285: P_{69158} = (37, 55, 15, 1)$ lies on line $\ell_{14}$

$286: P_{69175} = (54, 55, 15, 1)$ lies on line $\ell_2$

$287: P_{69551} = (46, 61, 15, 1)$ lies on line $\ell_{11}$

$288: P_{69761} = (0, 1, 16, 1)$ lies on line $\ell_1$

$289: P_{70044} = (27, 5, 16, 1)$ lies on line $\ell_{15}$

$290: P_{70795} = (10, 17, 16, 1)$ lies on line $\ell_{13}$

$291: P_{71691} = (10, 31, 16, 1)$ lies on line $\ell_7$

$292: P_{71695} = (14, 31, 16, 1)$ lies on line $\ell_{10}$

$293: P_{71855} = (46, 33, 16, 1)$ lies on line $\ell_8$

$294: P_{71923} = (50, 34, 16, 1)$ lies on line $\ell_{12}$

$295: P_{71955} = (18, 35, 16, 1)$ lies on line $\ell_9$

$296: P_{72225} = (32, 39, 16, 1)$ lies on line $\ell_6$

$297: P_{72298} = (41, 40, 16, 1)$ lies on line $\ell_2$

$298: P_{72361} = (40, 41, 16, 1)$ lies on line $\ell_3$

$299: P_{72742} = (37, 47, 16, 1)$ lies on line $\ell_{14}$

$300: P_{72934} = (37, 50, 16, 1)$ lies on line $\ell_5$

$301: P_{72943} = (46, 50, 16, 1)$ lies on line $\ell_{11}$

$302: P_{73557} = (20, 60, 16, 1)$ lies on line $\ell_4$

$303: P_{73857} = (0, 1, 17, 1)$ lies on line $\ell_1$

$304: P_{74031} = (46, 3, 17, 1)$ lies on line $\ell_8$

$305: P_{75046} = (37, 19, 17, 1)$ lies on line $\ell_{14}$

$306: P_{75381} = (52, 24, 17, 1)$ lies on line $\ell_{12}$

$307: P_{75567} = (46, 27, 17, 1)$ lies on line $\ell_{11}$

$308: P_{75942} = (37, 33, 17, 1)$ lies on line $\ell_5$

$309: P_{76394} = (41, 40, 17, 1)$ lies on line $\ell_3$

$310: P_{76457} = (40, 41, 17, 1)$ lies on line $\ell_2$

$311: P_{76491} = (10, 42, 17, 1)$ lies on line $\ell_{13}$

$312: P_{76773} = (36, 46, 17, 1)$ lies on line $\ell_4$

$313: P_{77370} = (57, 55, 17, 1)$ lies on line $\ell_{10}$

$314: P_{77392} = (15, 56, 17, 1)$ lies on line $\ell_{15}$

$315: P_{77486} = (45, 57, 17, 1)$ lies on line $\ell_6$

$316: P_{77953} = (0, 1, 18, 1)$ lies on line $\ell_1$

$317: P_{77999} = (46, 1, 18, 1)$ lies on line $\ell_{11}$

$318: P_{78179} = (34, 4, 18, 1)$ lies on line $\ell_9$

$319: P_{78191} = (46, 4, 18, 1)$ lies on line $\ell_8$

$320: P_{78283} = (10, 6, 18, 1)$ lies on line $\ell_{13}$

$321: P_{79206} = (37, 20, 18, 1)$ lies on line $\ell_5$

$322: P_{79446} = (21, 24, 18, 1)$ lies on line $\ell_4$

$323: P_{79675} = (58, 27, 18, 1)$ lies on line $\ell_6$

$324: P_{79860} = (51, 30, 18, 1)$ lies on line $\ell_{15}$

$325: P_{80011} = (10, 33, 18, 1)$ lies on line $\ell_7$

$326: P_{80620} = (43, 42, 18, 1)$ lies on line $\ell_2$

$327: P_{80683} = (42, 43, 18, 1)$ lies on line $\ell_3$

$328: P_{80834} = (1, 46, 18, 1)$ lies on line $\ell_{10}$

$329: P_{81382} = (37, 54, 18, 1)$ lies on line $\ell_{14}$

$330: P_{81471} = (62, 55, 18, 1)$ lies on line $\ell_{12}$

$331: P_{82049} = (0, 1, 19, 1)$ lies on line $\ell_1$

$332: P_{82360} = (55, 5, 19, 1)$ lies on line $\ell_6$

$333: P_{82423} = (54, 6, 19, 1)$ lies on line $\ell_{10}$

$334: P_{82470} = (37, 7, 19, 1)$ lies on line $\ell_5$

$335: P_{82873} = (56, 13, 19, 1)$ lies on line $\ell_{12}$

$336: P_{84264} = (39, 35, 19, 1)$ lies on line $\ell_{15}$

$337: P_{84463} = (46, 38, 19, 1)$ lies on line $\ell_8$

$338: P_{84539} = (58, 39, 19, 1)$ lies on line $\ell_9$

$339: P_{84591} = (46, 40, 19, 1)$ lies on line $\ell_{11}$

$340: P_{84716} = (43, 42, 19, 1)$ lies on line $\ell_3$

$341: P_{84779} = (42, 43, 19, 1)$ lies on line $\ell_2$

$342: P_{85899} = (10, 61, 19, 1)$ lies on line $\ell_{13}$

$343: P_{85963} = (10, 62, 19, 1)$ lies on line $\ell_7$

$344: P_{86145} = (0, 1, 20, 1)$ lies on line $\ell_1$

$345: P_{86219} = (10, 2, 20, 1)$ lies on line $\ell_7$

$346: P_{86635} = (42, 8, 20, 1)$ lies on line $\ell_{12}$

$347: P_{86767} = (46, 10, 20, 1)$ lies on line $\ell_8$

$348: P_{86868} = (19, 12, 20, 1)$ lies on line $\ell_9$

$349: P_{87447} = (22, 21, 20, 1)$ lies on line $\ell_4$

$350: P_{87889} = (16, 28, 20, 1)$ lies on line $\ell_{10}$

$351: P_{87974} = (37, 29, 20, 1)$ lies on line $\ell_{14}$

$352: P_{88102} = (37, 31, 20, 1)$ lies on line $\ell_5$

$353: P_{88942} = (45, 44, 20, 1)$ lies on line $\ell_2$

$354: P_{89005} = (44, 45, 20, 1)$ lies on line $\ell_3$

$355: P_{89387} = (42, 51, 20, 1)$ lies on line $\ell_{15}$

$356: P_{89519} = (46, 53, 20, 1)$ lies on line $\ell_{11}$

$357: P_{90069} = (20, 62, 20, 1)$ lies on line $\ell_6$

$358: P_{90123} = (10, 63, 20, 1)$ lies on line $\ell_{13}$

$359: P_{90241} = (0, 1, 21, 1)$ lies on line $\ell_1$

$360: P_{90443} = (10, 4, 21, 1)$ lies on line $\ell_{13}$

$361: P_{90663} = (38, 7, 21, 1)$ lies on line $\ell_4$

$362: P_{90982} = (37, 12, 21, 1)$ lies on line $\ell_5$

$363: P_{91135} = (62, 14, 21, 1)$ lies on line $\ell_{15}$

$364: P_{92015} = (46, 28, 21, 1)$ lies on line $\ell_{11}$

$365: P_{92043} = (10, 29, 21, 1)$ lies on line $\ell_7$

$366: P_{92250} = (25, 32, 21, 1)$ lies on line $\ell_6$

$367: P_{92326} = (37, 33, 21, 1)$ lies on line $\ell_{14}$

$368: P_{92783} = (46, 40, 21, 1)$ lies on line $\ell_8$

$369: P_{93038} = (45, 44, 21, 1)$ lies on line $\ell_3$

$370: P_{93101} = (44, 45, 21, 1)$ lies on line $\ell_2$

$371: P_{93196} = (11, 47, 21, 1)$ lies on line $\ell_9$

$372: P_{93421} = (44, 50, 21, 1)$ lies on line $\ell_{12}$

$373: P_{93544} = (39, 52, 21, 1)$ lies on line $\ell_{10}$

$374: P_{94337} = (0, 1, 22, 1)$ lies on line $\ell_1$

$375: P_{94415} = (14, 2, 22, 1)$ lies on line $\ell_6$

$376: P_{94566} = (37, 4, 22, 1)$ lies on line $\ell_{14}$

$377: P_{94703} = (46, 6, 22, 1)$ lies on line $\ell_{11}$

$378: P_{96167} = (38, 29, 22, 1)$ lies on line $\ell_{12}$

$379: P_{96835} = (2, 40, 22, 1)$ lies on line $\ell_{15}$

$380: P_{96843} = (10, 40, 22, 1)$ lies on line $\ell_{13}$

$381: P_{97060} = (35, 43, 22, 1)$ lies on line $\ell_9$

$382: P_{97184} = (31, 45, 22, 1)$ lies on line $\ell_{10}$

$383: P_{97264} = (47, 46, 22, 1)$ lies on line $\ell_2$

$384: P_{97432} = (23, 49, 22, 1)$ lies on line $\ell_4$

$385: P_{97958} = (37, 57, 22, 1)$ lies on line $\ell_5$

$386: P_{98123} = (10, 60, 22, 1)$ lies on line $\ell_7$

$387: P_{98433} = (0, 1, 23, 1)$ lies on line $\ell_1$

$388: P_{98729} = (40, 5, 23, 1)$ lies on line $\ell_{10}$

$389: P_{98940} = (59, 8, 23, 1)$ lies on line $\ell_9$

$390: P_{99247} = (46, 13, 23, 1)$ lies on line $\ell_8$

$391: P_{99595} = (10, 19, 23, 1)$ lies on line $\ell_{13}$

$392: P_{99735} = (22, 21, 23, 1)$ lies on line $\ell_{15}$

$393: P_{100164} = (3, 28, 23, 1)$ lies on line $\ell_6$

$394: P_{100619} = (10, 35, 23, 1)$ lies on line $\ell_7$

$395: P_{100648} = (39, 35, 23, 1)$ lies on line $\ell_4$

$396: P_{100897} = (32, 39, 23, 1)$ lies on line $\ell_{12}$

$397: P_{101094} = (37, 42, 23, 1)$ lies on line $\ell_5$

$398: P_{101360} = (47, 46, 23, 1)$ lies on line $\ell_3$

$399: P_{101990} = (37, 56, 23, 1)$ lies on line $\ell_{14}$

$400: P_{102529} = (0, 1, 24, 1)$ lies on line $\ell_1$

$401: P_{103001} = (24, 8, 24, 1)$ lies on line $\ell_{15}$

$402: P_{103078} = (37, 9, 24, 1)$ lies on line $\ell_5$

$403: P_{103441} = (16, 15, 24, 1)$ lies on line $\ell_4$

$404: P_{103850} = (41, 21, 24, 1)$ lies on line $\ell_6$

$405: P_{103919} = (46, 22, 24, 1)$ lies on line $\ell_8$

$406: P_{103939} = (2, 23, 24, 1)$ lies on line $\ell_{12}$

$407: P_{104115} = (50, 25, 24, 1)$ lies on line $\ell_{10}$

$408: P_{104273} = (16, 28, 24, 1)$ lies on line $\ell_9$

$409: P_{104546} = (33, 32, 24, 1)$ lies on line $\ell_2$

$410: P_{104609} = (32, 33, 24, 1)$ lies on line $\ell_3$

$411: P_{104843} = (10, 37, 24, 1)$ lies on line $\ell_7$

$412: P_{105190} = (37, 42, 24, 1)$ lies on line $\ell_{14}$

$413: P_{105291} = (10, 44, 24, 1)$ lies on line $\ell_{13}$

$414: P_{106351} = (46, 60, 24, 1)$ lies on line $\ell_{11}$

$415: P_{106625} = (0, 1, 25, 1)$ lies on line $\ell_1$

$416: P_{107301} = (36, 11, 25, 1)$ lies on line $\ell_6$

$417: P_{107951} = (46, 21, 25, 1)$ lies on line $\ell_{11}$

$418: P_{108006} = (37, 22, 25, 1)$ lies on line $\ell_{14}$

$419: P_{108043} = (10, 23, 25, 1)$ lies on line $\ell_{13}$

$420: P_{108262} = (37, 26, 25, 1)$ lies on line $\ell_5$

$421: P_{108449} = (32, 29, 25, 1)$ lies on line $\ell_4$

$422: P_{108642} = (33, 32, 25, 1)$ lies on line $\ell_3$

$423: P_{108705} = (32, 33, 25, 1)$ lies on line $\ell_2$

$424: P_{109445} = (4, 45, 25, 1)$ lies on line $\ell_{12}$

$425: P_{109702} = (5, 49, 25, 1)$ lies on line $\ell_{10}$

$426: P_{109935} = (46, 52, 25, 1)$ lies on line $\ell_8$

$427: P_{109965} = (12, 53, 25, 1)$ lies on line $\ell_{15}$

$428: P_{110283} = (10, 58, 25, 1)$ lies on line $\ell_7$

$429: P_{110601} = (8, 63, 25, 1)$ lies on line $\ell_9$

$430: P_{110721} = (0, 1, 26, 1)$ lies on line $\ell_1$

$431: P_{110799} = (14, 2, 26, 1)$ lies on line $\ell_{12}$

$432: P_{111663} = (46, 15, 26, 1)$ lies on line $\ell_{11}$

$433: P_{111921} = (48, 19, 26, 1)$ lies on line $\ell_{15}$

$434: P_{112395} = (10, 27, 26, 1)$ lies on line $\ell_7$

$435: P_{112868} = (35, 34, 26, 1)$ lies on line $\ell_2$

$436: P_{112931} = (34, 35, 26, 1)$ lies on line $\ell_3$

$437: P_{113278} = (61, 40, 26, 1)$ lies on line $\ell_{10}$

$438: P_{113332} = (51, 41, 26, 1)$ lies on line $\ell_6$

$439: P_{113426} = (17, 43, 26, 1)$ lies on line $\ell_4$

$440: P_{113702} = (37, 47, 26, 1)$ lies on line $\ell_5$

$441: P_{113958} = (37, 51, 26, 1)$ lies on line $\ell_{14}$

$442: P_{113967} = (46, 51, 26, 1)$ lies on line $\ell_8$

$443: P_{114443} = (10, 59, 26, 1)$ lies on line $\ell_{13}$

$444: P_{114465} = (32, 59, 26, 1)$ lies on line $\ell_9$

$445: P_{114817} = (0, 1, 27, 1)$ lies on line $\ell_1$

$446: P_{115019} = (10, 4, 27, 1)$ lies on line $\ell_7$

$447: P_{115750} = (37, 15, 27, 1)$ lies on line $\ell_{14}$

$448: P_{115887} = (46, 17, 27, 1)$ lies on line $\ell_8$

$449: P_{116345} = (56, 24, 27, 1)$ lies on line $\ell_9$

$450: P_{116964} = (35, 34, 27, 1)$ lies on line $\ell_3$

$451: P_{117027} = (34, 35, 27, 1)$ lies on line $\ell_2$

$452: P_{117231} = (46, 38, 27, 1)$ lies on line $\ell_{11}$

$453: P_{117733} = (36, 46, 27, 1)$ lies on line $\ell_{15}$

$454: P_{118335} = (62, 55, 27, 1)$ lies on line $\ell_6$

$455: P_{118345} = (8, 56, 27, 1)$ lies on line $\ell_{12}$

$456: P_{118434} = (33, 57, 27, 1)$ lies on line $\ell_4$

$457: P_{118630} = (37, 60, 27, 1)$ lies on line $\ell_5$

$458: P_{118913} = (0, 1, 28, 1)$ lies on line $\ell_1$

$459: P_{118987} = (10, 2, 28, 1)$ lies on line $\ell_{13}$

$460: P_{119646} = (29, 12, 28, 1)$ lies on line $\ell_6$

$461: P_{120422} = (37, 24, 28, 1)$ lies on line $\ell_{14}$

$462: P_{120557} = (44, 26, 28, 1)$ lies on line $\ell_{10}$

$463: P_{121253} = (36, 37, 28, 1)$ lies on line $\ell_3$

$464: P_{121299} = (18, 38, 28, 1)$ lies on line $\ell_4$

$465: P_{122130} = (17, 51, 28, 1)$ lies on line $\ell_9$

$466: P_{122443} = (10, 56, 28, 1)$ lies on line $\ell_7$

$467: P_{122671} = (46, 59, 28, 1)$ lies on line $\ell_{11}$

$468: P_{122779} = (26, 61, 28, 1)$ lies on line $\ell_{12}$

$469: P_{122799} = (46, 61, 28, 1)$ lies on line $\ell_8$

$470: P_{122858} = (41, 62, 28, 1)$ lies on line $\ell_{15}$

$471: P_{123009} = (0, 1, 29, 1)$ lies on line $\ell_1$

$472: P_{123198} = (61, 3, 29, 1)$ lies on line $\ell_{15}$

$473: P_{123421} = (28, 7, 29, 1)$ lies on line $\ell_{12}$

$474: P_{123978} = (9, 16, 29, 1)$ lies on line $\ell_9$

$475: P_{124113} = (16, 18, 29, 1)$ lies on line $\ell_6$

$476: P_{124143} = (46, 18, 29, 1)$ lies on line $\ell_{11}$

$477: P_{124975} = (46, 31, 29, 1)$ lies on line $\ell_8$

$478: P_{125349} = (36, 37, 29, 1)$ lies on line $\ell_2$

$479: P_{125451} = (10, 39, 29, 1)$ lies on line $\ell_7$

$480: P_{126172} = (27, 50, 29, 1)$ lies on line $\ell_{10}$

$481: P_{126307} = (34, 52, 29, 1)$ lies on line $\ell_4$

$482: P_{126502} = (37, 55, 29, 1)$ lies on line $\ell_5$

$483: P_{126603} = (10, 57, 29, 1)$ lies on line $\ell_{13}$

$484: P_{127105} = (0, 1, 30, 1)$ lies on line $\ell_1$

$485: P_{127142} = (37, 1, 30, 1)$ lies on line $\ell_{14}$

$486: P_{127188} = (19, 2, 30, 1)$ lies on line $\ell_4$

$487: P_{127206} = (37, 2, 30, 1)$ lies on line $\ell_5$

$488: P_{127435} = (10, 6, 30, 1)$ lies on line $\ell_7$

$489: P_{127599} = (46, 8, 30, 1)$ lies on line $\ell_{11}$

$490: P_{128354} = (33, 20, 30, 1)$ lies on line $\ell_9$

$491: P_{128395} = (10, 21, 30, 1)$ lies on line $\ell_{13}$

$492: P_{128623} = (46, 24, 30, 1)$ lies on line $\ell_8$

$493: P_{129410} = (1, 37, 30, 1)$ lies on line $\ell_{15}$

$494: P_{129512} = (39, 38, 30, 1)$ lies on line $\ell_2$

$495: P_{129575} = (38, 39, 30, 1)$ lies on line $\ell_3$

$496: P_{129623} = (22, 40, 30, 1)$ lies on line $\ell_{12}$

$497: P_{129828} = (35, 43, 30, 1)$ lies on line $\ell_{10}$

$498: P_{130120} = (7, 48, 30, 1)$ lies on line $\ell_6$

$499: P_{131201} = (0, 1, 31, 1)$ lies on line $\ell_1$

$500: P_{131349} = (20, 3, 31, 1)$ lies on line $\ell_{10}$

$501: P_{132196} = (35, 16, 31, 1)$ lies on line $\ell_4$

$502: P_{132262} = (37, 17, 31, 1)$ lies on line $\ell_5$

$503: P_{132305} = (16, 18, 31, 1)$ lies on line $\ell_{12}$

$504: P_{132694} = (21, 24, 31, 1)$ lies on line $\ell_{15}$

$505: P_{132747} = (10, 25, 31, 1)$ lies on line $\ell_7$

$506: P_{133295} = (46, 33, 31, 1)$ lies on line $\ell_{11}$

$507: P_{133608} = (39, 38, 31, 1)$ lies on line $\ell_3$

$508: P_{133671} = (38, 39, 31, 1)$ lies on line $\ell_2$

$509: P_{134714} = (57, 55, 31, 1)$ lies on line $\ell_9$

$510: P_{134895} = (46, 58, 31, 1)$ lies on line $\ell_8$

$511: P_{135078} = (37, 61, 31, 1)$ lies on line $\ell_{14}$

$512: P_{135297} = (0, 1, 32, 1)$ lies on line $\ell_1$

$513: P_{135391} = (30, 2, 32, 1)$ lies on line $\ell_9$

$514: P_{136687} = (46, 22, 32, 1)$ lies on line $\ell_{11}$

$515: P_{136794} = (25, 24, 32, 1)$ lies on line $\ell_2$

$516: P_{136857} = (24, 25, 32, 1)$ lies on line $\ell_3$

$517: P_{137291} = (10, 32, 32, 1)$ lies on line $\ell_7$

$518: P_{137815} = (22, 40, 32, 1)$ lies on line $\ell_6$

$519: P_{138002} = (17, 43, 32, 1)$ lies on line $\ell_{15}$

$520: P_{138351} = (46, 48, 32, 1)$ lies on line $\ell_8$

$521: P_{138406} = (37, 49, 32, 1)$ lies on line $\ell_{14}$

$522: P_{138637} = (12, 53, 32, 1)$ lies on line $\ell_4$

$523: P_{139083} = (10, 60, 32, 1)$ lies on line $\ell_{13}$

$524: P_{139314} = (49, 63, 32, 1)$ lies on line $\ell_{12}$

$525: P_{139393} = (0, 1, 33, 1)$ lies on line $\ell_1$

$526: P_{139704} = (55, 5, 33, 1)$ lies on line $\ell_{12}$

$527: P_{139787} = (10, 7, 33, 1)$ lies on line $\ell_{13}$

$528: P_{140198} = (37, 13, 33, 1)$ lies on line $\ell_{14}$

$529: P_{140527} = (46, 18, 33, 1)$ lies on line $\ell_8$

$530: P_{140742} = (5, 22, 33, 1)$ lies on line $\ell_{15}$

$531: P_{140890} = (25, 24, 33, 1)$ lies on line $\ell_3$

$532: P_{140902} = (37, 24, 33, 1)$ lies on line $\ell_5$

$533: P_{140953} = (24, 25, 33, 1)$ lies on line $\ell_2$

$534: P_{141447} = (6, 33, 33, 1)$ lies on line $\ell_9$

$535: P_{141587} = (18, 35, 33, 1)$ lies on line $\ell_{10}$

$536: P_{141885} = (60, 39, 33, 1)$ lies on line $\ell_4$

$537: P_{142812} = (27, 54, 33, 1)$ lies on line $\ell_6$

$538: P_{143371} = (10, 63, 33, 1)$ lies on line $\ell_7$

$539: P_{143407} = (46, 63, 33, 1)$ lies on line $\ell_{11}$

$540: P_{143489} = (0, 1, 34, 1)$ lies on line $\ell_1$

$541: P_{144526} = (13, 17, 34, 1)$ lies on line $\ell_4$

$542: P_{144717} = (12, 20, 34, 1)$ lies on line $\ell_6$

$543: P_{144815} = (46, 21, 34, 1)$ lies on line $\ell_8$

$544: P_{145116} = (27, 26, 34, 1)$ lies on line $\ell_2$

$545: P_{145179} = (26, 27, 34, 1)$ lies on line $\ell_3$

$546: P_{145355} = (10, 30, 34, 1)$ lies on line $\ell_7$

$547: P_{146022} = (37, 40, 34, 1)$ lies on line $\ell_{14}$

$548: P_{146174} = (61, 42, 34, 1)$ lies on line $\ell_{12}$

$549: P_{146187} = (10, 43, 34, 1)$ lies on line $\ell_{13}$

$550: P_{146342} = (37, 45, 34, 1)$ lies on line $\ell_5$

$551: P_{146554} = (57, 48, 34, 1)$ lies on line $\ell_{15}$

$552: P_{147179} = (42, 58, 34, 1)$ lies on line $\ell_{10}$

$553: P_{147585} = (0, 1, 35, 1)$ lies on line $\ell_1$

$554: P_{147595} = (10, 1, 35, 1)$ lies on line $\ell_7$

$555: P_{147774} = (61, 3, 35, 1)$ lies on line $\ell_4$

$556: P_{147959} = (54, 6, 35, 1)$ lies on line $\ell_9$

$557: P_{148162} = (1, 10, 35, 1)$ lies on line $\ell_6$

$558: P_{148335} = (46, 12, 35, 1)$ lies on line $\ell_{11}$

$559: P_{148398} = (45, 13, 35, 1)$ lies on line $\ell_{15}$

$560: P_{148555} = (10, 16, 35, 1)$ lies on line $\ell_{13}$

$561: P_{148604} = (59, 16, 35, 1)$ lies on line $\ell_{12}$

$562: P_{148702} = (29, 18, 35, 1)$ lies on line $\ell_{10}$

$563: P_{148838} = (37, 20, 35, 1)$ lies on line $\ell_{14}$

$564: P_{149212} = (27, 26, 35, 1)$ lies on line $\ell_3$

$565: P_{149275} = (26, 27, 35, 1)$ lies on line $\ell_2$

$566: P_{151087} = (46, 55, 35, 1)$ lies on line $\ell_8$

$567: P_{151526} = (37, 62, 35, 1)$ lies on line $\ell_5$

$568: P_{151681} = (0, 1, 36, 1)$ lies on line $\ell_1$

$569: P_{151846} = (37, 3, 36, 1)$ lies on line $\ell_{14}$

$570: P_{152188} = (59, 8, 36, 1)$ lies on line $\ell_{10}$

$571: P_{152751} = (46, 17, 36, 1)$ lies on line $\ell_{11}$

$572: P_{152779} = (10, 18, 36, 1)$ lies on line $\ell_{13}$

$573: P_{153002} = (41, 21, 36, 1)$ lies on line $\ell_{12}$

$574: P_{153391} = (46, 27, 36, 1)$ lies on line $\ell_8$

$575: P_{153423} = (14, 28, 36, 1)$ lies on line $\ell_4$

$576: P_{153438} = (29, 28, 36, 1)$ lies on line $\ell_2$

$577: P_{153501} = (28, 29, 36, 1)$ lies on line $\ell_3$

$578: P_{153505} = (32, 29, 36, 1)$ lies on line $\ell_{15}$

$579: P_{154086} = (37, 38, 36, 1)$ lies on line $\ell_5$

$580: P_{154528} = (31, 45, 36, 1)$ lies on line $\ell_9$

$581: P_{154787} = (34, 49, 36, 1)$ lies on line $\ell_6$

$582: P_{155531} = (10, 61, 36, 1)$ lies on line $\ell_7$

$583: P_{155777} = (0, 1, 37, 1)$ lies on line $\ell_1$

$584: P_{156616} = (7, 14, 37, 1)$ lies on line $\ell_9$

$585: P_{156671} = (62, 14, 37, 1)$ lies on line $\ell_4$

$586: P_{157534} = (29, 28, 37, 1)$ lies on line $\ell_3$

$587: P_{157597} = (28, 29, 37, 1)$ lies on line $\ell_2$

$588: P_{157773} = (12, 32, 37, 1)$ lies on line $\ell_{10}$

$589: P_{157813} = (52, 32, 37, 1)$ lies on line $\ell_{15}$

$590: P_{157899} = (10, 34, 37, 1)$ lies on line $\ell_7$

$591: P_{158347} = (10, 41, 37, 1)$ lies on line $\ell_{13}$

$592: P_{159142} = (37, 53, 37, 1)$ lies on line $\ell_5$

$593: P_{159343} = (46, 56, 37, 1)$ lies on line $\ell_{11}$

$594 : P_{159407} = (46, 57, 37, 1)$ lies on line $\ell_8$

$595 : P_{159782} = (37, 63, 37, 1)$ lies on line $\ell_{14}$

$596 : P_{159873} = (0, 1, 38, 1)$ lies on line $\ell_1$

$597 : P_{160011} = (10, 3, 38, 1)$ lies on line $\ell_7$

$598 : P_{160139} = (10, 5, 38, 1)$ lies on line $\ell_{13}$

$599 : P_{160201} = (8, 6, 38, 1)$ lies on line $\ell_{15}$

$600 : P_{160496} = (47, 10, 38, 1)$ lies on line $\ell_9$

$601 : P_{160697} = (56, 13, 38, 1)$ lies on line $\ell_6$

$602 : P_{161510} = (37, 26, 38, 1)$ lies on line $\ell_{14}$

$603 : P_{161760} = (31, 30, 38, 1)$ lies on line $\ell_2$

$604 : P_{161823} = (30, 31, 38, 1)$ lies on line $\ell_3$

$605 : P_{162031} = (46, 34, 38, 1)$ lies on line $\ell_{11}$

$606 : P_{163408} = (15, 56, 38, 1)$ lies on line $\ell_4$

$607 : P_{163509} = (52, 57, 38, 1)$ lies on line $\ell_{10}$

$608 : P_{163823} = (46, 62, 38, 1)$ lies on line $\ell_8$

$609 : P_{163969} = (0, 1, 39, 1)$ lies on line $\ell_1$

$610 : P_{164655} = (46, 11, 39, 1)$ lies on line $\ell_{11}$

$611 : P_{164996} = (3, 17, 39, 1)$ lies on line $\ell_{10}$

$612 : P_{165158} = (37, 19, 39, 1)$ lies on line $\ell_5$

$613 : P_{165174} = (53, 19, 39, 1)$ lies on line $\ell_6$

$614 : P_{165707} = (10, 28, 39, 1)$ lies on line $\ell_7$

$615 : P_{165743} = (46, 28, 39, 1)$ lies on line $\ell_8$

$616 : P_{165856} = (31, 30, 39, 1)$ lies on line $\ell_3$

$617 : P_{165919} = (30, 31, 39, 1)$ lies on line $\ell_2$

$618 : P_{166374} = (37, 38, 39, 1)$ lies on line $\ell_{14}$

$619 : P_{166584} = (55, 41, 39, 1)$ lies on line $\ell_9$

$620 : P_{166656} = (63, 42, 39, 1)$ lies on line $\ell_4$

$621 : P_{167652} = (35, 58, 39, 1)$ lies on line $\ell_{12}$

$622 : P_{167709} = (28, 59, 39, 1)$ lies on line $\ell_{15}$

$623 : P_{167883} = (10, 62, 39, 1)$ lies on line $\ell_{13}$

$624 : P_{168065} = (0, 1, 40, 1)$ lies on line $\ell_1$

$625 : P_{168075} = (10, 1, 40, 1)$ lies on line $\ell_{13}$

$626 : P_{168393} = (8, 6, 40, 1)$ lies on line $\ell_4$

$627 : P_{168495} = (46, 7, 40, 1)$ lies on line $\ell_8$

$628 : P_{168642} = (1, 10, 40, 1)$ lies on line $\ell_{12}$

$629 : P_{168858} = (25, 13, 40, 1)$ lies on line $\ell_{10}$

$630 : P_{169042} = (17, 16, 40, 1)$ lies on line $\ell_2$

$631 : P_{169105} = (16, 17, 40, 1)$ lies on line $\ell_3$

$632 : P_{169583} = (46, 24, 40, 1)$ lies on line $\ell_{11}$

$633 : P_{169675} = (10, 26, 40, 1)$ lies on line $\ell_7$

$634 : P_{169696} = (31, 26, 40, 1)$ lies on line $\ell_6$

$635 : P_{170451} = (18, 38, 40, 1)$ lies on line $\ell_{15}$

$636 : P_{171110} = (37, 48, 40, 1)$ lies on line $\ell_5$

$637 : P_{171366} = (37, 52, 40, 1)$ lies on line $\ell_{14}$

$638 : P_{171933} = (28, 61, 40, 1)$ lies on line $\ell_9$

$639 : P_{172161} = (0, 1, 41, 1)$ lies on line $\ell_1$

$640 : P_{172371} = (18, 4, 41, 1)$ lies on line $\ell_6$

$641 : P_{172427} = (10, 5, 41, 1)$ lies on line $\ell_7$

$642 : P_{172646} = (37, 8, 41, 1)$ lies on line $\ell_{14}$

$643 : P_{173138} = (17, 16, 41, 1)$ lies on line $\ell_3$

$644 : P_{173201} = (16, 17, 41, 1)$ lies on line $\ell_2$

$645 : P_{173433} = (56, 20, 41, 1)$ lies on line $\ell_4$

$646 : P_{173831} = (6, 27, 41, 1)$ lies on line $\ell_{15}$

$647 : P_{174021} = (4, 30, 41, 1)$ lies on line $\ell_9$

$648 : P_{174374} = (37, 35, 41, 1)$ lies on line $\ell_5$

$649 : P_{175176} = (7, 48, 41, 1)$ lies on line $\ell_{12}$

$650 : P_{175279} = (46, 49, 41, 1)$ lies on line $\ell_{11}$

$651 : P_{175819} = (10, 58, 41, 1)$ lies on line $\ell_{13}$

$652 : P_{176257} = (0, 1, 42, 1)$ lies on line $\ell_1$

$653 : P_{177364} = (19, 18, 42, 1)$ lies on line $\ell_2$

$654 : P_{177427} = (18, 19, 42, 1)$ lies on line $\ell_3$

$655 : P_{177611} = (10, 22, 42, 1)$ lies on line $\ell_{13}$

$656 : P_{177638} = (37, 22, 42, 1)$ lies on line $\ell_5$

$657 : P_{177901} = (44, 26, 42, 1)$ lies on line $\ell_9$

$658 : P_{178190} = (13, 31, 42, 1)$ lies on line $\ell_{12}$

$659 : P_{178378} = (9, 34, 42, 1)$ lies on line $\ell_4$

$660 : P_{178415} = (46, 34, 42, 1)$ lies on line $\ell_8$

$661 : P_{178507} = (10, 36, 42, 1)$ lies on line $\ell_7$

$662 : P_{178630} = (5, 38, 42, 1)$ lies on line $\ell_6$

$663 : P_{178991} = (46, 43, 42, 1)$ lies on line $\ell_{11}$

$664 : P_{179110} = (37, 45, 42, 1)$ lies on line $\ell_{14}$

$665 : P_{180055} = (22, 60, 42, 1)$ lies on line $\ell_{10}$

$666 : P_{180155} = (58, 61, 42, 1)$ lies on line $\ell_{15}$

$667 : P_{180353} = (0, 1, 43, 1)$ lies on line $\ell_1$

$668 : P_{180463} = (46, 2, 43, 1)$ lies on line $\ell_{11}$

$669 : P_{180646} = (37, 5, 43, 1)$ lies on line $\ell_5$

$670 : P_{181414} = (37, 17, 43, 1)$ lies on line $\ell_{14}$

$671 : P_{181460} = (19, 18, 43, 1)$ lies on line $\ell_3$

$672 : P_{181523} = (18, 19, 43, 1)$ lies on line $\ell_2$

$673 : P_{181602} = (33, 20, 43, 1)$ lies on line $\ell_{10}$

$674 : P_{182668} = (11, 37, 43, 1)$ lies on line $\ell_{12}$

$675 : P_{183179} = (10, 45, 43, 1)$ lies on line $\ell_{13}$

$676 : P_{183418} = (57, 48, 43, 1)$ lies on line $\ell_4$

$677 : P_{183881} = (8, 56, 43, 1)$ lies on line $\ell_6$

$678 : P_{183989} = (52, 57, 43, 1)$ lies on line $\ell_9$

$679 : P_{184075} = (10, 59, 43, 1)$ lies on line $\ell_7$

$680 : P_{184449} = (0, 1, 44, 1)$ lies on line $\ell_1$

$681 : P_{184620} = (43, 3, 44, 1)$ lies on line $\ell_6$

$682 : P_{184806} = (37, 6, 44, 1)$ lies on line $\ell_{14}$

$683 : P_{184843} = (10, 7, 44, 1)$ lies on line $\ell_7$

$684 : P_{185288} = (7, 14, 44, 1)$ lies on line $\ell_{10}$

$685 : P_{185444} = (35, 16, 44, 1)$ lies on line $\ell_{15}$

$686 : P_{185566} = (29, 18, 44, 1)$ lies on line $\ell_9$

$687 : P_{185686} = (21, 20, 44, 1)$ lies on line $\ell_2$

$688 : P_{185749} = (20, 21, 44, 1)$ lies on line $\ell_3$

$689 : P_{186278} = (37, 29, 44, 1)$ lies on line $\ell_5$

$690 : P_{186415} = (46, 31, 44, 1)$ lies on line $\ell_{11}$

$691 : P_{186458} = (25, 32, 44, 1)$ lies on line $\ell_{12}$

$692 : P_{187247} = (46, 44, 44, 1)$ lies on line $\ell_8$

$693 : P_{188545} = (0, 1, 45, 1)$ lies on line $\ell_1$

$694 : P_{189414} = (37, 14, 45, 1)$ lies on line $\ell_5$

$695 : P_{189423} = (46, 14, 45, 1)$ lies on line $\ell_8$

$696 : P_{189771} = (10, 20, 45, 1)$ lies on line $\ell_{13}$

$697 : P_{189782} = (21, 20, 45, 1)$ lies on line $\ell_3$

$698 : P_{189845} = (20, 21, 45, 1)$ lies on line $\ell_2$

$699 : P_{190027} = (10, 24, 45, 1)$ lies on line $\ell_7$

$700 : P_{190176} = (31, 26, 45, 1)$ lies on line $\ell_{12}$

$701 : P_{190375} = (38, 29, 45, 1)$ lies on line $\ell_6$

702 : $P_{190961} = (48, 38, 45, 1)$ lies on line $\ell_{10}$

703 : $P_{191416} = (55, 45, 45, 1)$ lies on line $\ell_{15}$

704 : $P_{191622} = (5, 49, 45, 1)$ lies on line $\ell_9$

705 : $P_{191983} = (46, 54, 45, 1)$ lies on line $\ell_{11}$

706 : $P_{192230} = (37, 58, 45, 1)$ lies on line $\ell_{14}$

707 : $P_{192443} = (58, 61, 45, 1)$ lies on line $\ell_4$

708 : $P_{192641} = (0, 1, 46, 1)$ lies on line $\ell_1$

709 : $P_{193199} = (46, 9, 46, 1)$ lies on line $\ell_8$

710 : $P_{194008} = (23, 22, 46, 1)$ lies on line $\ell_2$

711 : $P_{194071} = (22, 23, 46, 1)$ lies on line $\ell_3$

712 : $P_{194598} = (37, 31, 46, 1)$ lies on line $\ell_{14}$

713 : $P_{195439} = (46, 44, 46, 1)$ lies on line $\ell_{11}$

714 : $P_{195990} = (21, 53, 46, 1)$ lies on line $\ell_{12}$

715 : $P_{196014} = (45, 53, 46, 1)$ lies on line $\ell_9$

716 : $P_{196171} = (10, 56, 46, 1)$ lies on line $\ell_{13}$

717 : $P_{196235} = (10, 57, 46, 1)$ lies on line $\ell_7$

718 : $P_{196390} = (37, 59, 46, 1)$ lies on line $\ell_5$

719 : $P_{196617} = (8, 63, 46, 1)$ lies on line $\ell_{10}$

720 : $P_{196658} = (49, 63, 46, 1)$ lies on line $\ell_6$

721 : $P_{196737} = (0, 1, 47, 1)$ lies on line $\ell_1$

722 : $P_{196875} = (10, 3, 47, 1)$ lies on line $\ell_{13}$

723 : $P_{197039} = (46, 5, 47, 1)$ lies on line $\ell_{11}$

724 : $P_{197652} = (19, 15, 47, 1)$ lies on line $\ell_{12}$

725 : $P_{198104} = (23, 22, 47, 1)$ lies on line $\ell_3$

726 : $P_{198134} = (53, 22, 47, 1)$ lies on line $\ell_9$

727 : $P_{198167} = (22, 23, 47, 1)$ lies on line $\ell_2$

728 : $P_{198208} = (63, 23, 47, 1)$ lies on line $\ell_{10}$

729 : $P_{198332} = (59, 25, 47, 1)$ lies on line $\ell_4$

730 : $P_{198845} = (60, 33, 47, 1)$ lies on line $\ell_6$

731 : $P_{198950} = (37, 35, 47, 1)$ lies on line $\ell_{14}$

732 : $P_{199115} = (10, 38, 47, 1)$ lies on line $\ell_7$

733 : $P_{199270} = (37, 40, 47, 1)$ lies on line $\ell_5$

734 : $P_{199471} = (46, 43, 47, 1)$ lies on line $\ell_8$

735 : $P_{200160} = (31, 54, 47, 1)$ lies on line $\ell_{15}$

736 : $P_{200833} = (0, 1, 48, 1)$ lies on line $\ell_1$

737 : $P_{201277} = (60, 7, 48, 1)$ lies on line $\ell_{10}$

738 : $P_{201290} = (9, 8, 48, 1)$ lies on line $\ell_2$

739 : $P_{201353} = (8, 9, 48, 1)$ lies on line $\ell_3$

740 : $P_{201455} = (46, 10, 48, 1)$ lies on line $\ell_{11}$

741 : $P_{202598} = (37, 28, 48, 1)$ lies on line $\ell_5$

742 : $P_{202651} = (26, 29, 48, 1)$ lies on line $\ell_9$

743 : $P_{203275} = (10, 39, 48, 1)$ lies on line $\ell_{13}$

744 : $P_{203653} = (4, 45, 48, 1)$ lies on line $\ell_6$

745 : $P_{203928} = (23, 49, 48, 1)$ lies on line $\ell_{15}$

746 : $P_{203973} = (4, 50, 48, 1)$ lies on line $\ell_4$

747 : $P_{204145} = (48, 52, 48, 1)$ lies on line $\ell_{12}$

748 : $P_{204171} = (10, 53, 48, 1)$ lies on line $\ell_7$

749 : $P_{204582} = (37, 59, 48, 1)$ lies on line $\ell_{14}$

750 : $P_{204847} = (46, 63, 48, 1)$ lies on line $\ell_8$

751 : $P_{204929} = (0, 1, 49, 1)$ lies on line $\ell_1$

752 : $P_{205350} = (37, 7, 49, 1)$ lies on line $\ell_{14}$

753 : $P_{205386} = (9, 8, 49, 1)$ lies on line $\ell_3$

754 : $P_{205449} = (8, 9, 49, 1)$ lies on line $\ell_2$

755 : $P_{205636} = (3, 12, 49, 1)$ lies on line $\ell_{15}$

756 : $P_{205815} = (54, 14, 49, 1)$ lies on line $\ell_{12}$

757 : $P_{205862} = (37, 15, 49, 1)$ lies on line $\ell_5$

758 : $P_{206667} = (10, 28, 49, 1)$ lies on line $\ell_{13}$

759 : $P_{206767} = (46, 29, 49, 1)$ lies on line $\ell_8$

760 : $P_{206965} = (52, 32, 49, 1)$ lies on line $\ell_4$

761 : $P_{207151} = (46, 35, 49, 1)$ lies on line $\ell_{11}$

762 : $P_{207563} = (10, 42, 49, 1)$ lies on line $\ell_7$

763 : $P_{207884} = (11, 47, 49, 1)$ lies on line $\ell_{10}$

764 : $P_{208138} = (9, 51, 49, 1)$ lies on line $\ell_6$

765 : $P_{208835} = (2, 62, 49, 1)$ lies on line $\ell_9$

766 : $P_{209025} = (0, 1, 50, 1)$ lies on line $\ell_1$

767 : $P_{209612} = (11, 10, 50, 1)$ lies on line $\ell_2$

768 : $P_{210079} = (30, 17, 50, 1)$ lies on line $\ell_6$

769 : $P_{210374} = (5, 22, 50, 1)$ lies on line $\ell_4$

770 : $P_{210671} = (46, 26, 50, 1)$ lies on line $\ell_8$

771 : $P_{211133} = (60, 33, 50, 1)$ lies on line $\ell_{12}$

772 : $P_{211174} = (37, 34, 50, 1)$ lies on line $\ell_{14}$

773 : $P_{211712} = (63, 42, 50, 1)$ lies on line $\ell_{15}$

774 : $P_{212043} = (10, 48, 50, 1)$ lies on line $\ell_{13}$

775 : $P_{212468} = (51, 54, 50, 1)$ lies on line $\ell_{10}$

776 : $P_{212655} = (46, 57, 50, 1)$ lies on line $\ell_{11}$

777 : $P_{212710} = (37, 58, 50, 1)$ lies on line $\ell_5$

778 : $P_{212715} = (42, 58, 50, 1)$ lies on line $\ell_9$

779 : $P_{213121} = (0, 1, 51, 1)$ lies on line $\ell_1$

780 : $P_{213366} = (53, 4, 51, 1)$ lies on line $\ell_4$

781 : $P_{213708} = (11, 10, 51, 1)$ lies on line $\ell_3$

782 : $P_{214036} = (19, 15, 51, 1)$ lies on line $\ell_6$

783 : $P_{214127} = (46, 16, 51, 1)$ lies on line $\ell_{11}$

784 : $P_{214347} = (10, 20, 51, 1)$ lies on line $\ell_7$

785 : $P_{214572} = (43, 23, 51, 1)$ lies on line $\ell_{15}$

786 : $P_{214707} = (50, 25, 51, 1)$ lies on line $\ell_9$

787 : $P_{214843} = (58, 27, 51, 1)$ lies on line $\ell_{12}$

788 : $P_{214981} = (4, 30, 51, 1)$ lies on line $\ell_{10}$

789 : $P_{215014} = (37, 30, 51, 1)$ lies on line $\ell_{14}$

790 : $P_{215718} = (37, 41, 51, 1)$ lies on line $\ell_5$

791 : $P_{216687} = (46, 56, 51, 1)$ lies on line $\ell_8$

792 : $P_{217217} = (0, 1, 52, 1)$ lies on line $\ell_1$

793 : $P_{217443} = (34, 4, 52, 1)$ lies on line $\ell_{10}$

794 : $P_{217639} = (38, 7, 52, 1)$ lies on line $\ell_{15}$

795 : $P_{217739} = (10, 9, 52, 1)$ lies on line $\ell_{13}$

796 : $P_{217766} = (37, 9, 52, 1)$ lies on line $\ell_{14}$

797 : $P_{217934} = (13, 12, 52, 1)$ lies on line $\ell_2$

798 : $P_{217997} = (12, 13, 52, 1)$ lies on line $\ell_3$

799 : $P_{218031} = (46, 13, 52, 1)$ lies on line $\ell_{11}$

800 : $P_{218479} = (46, 20, 52, 1)$ lies on line $\ell_8$

801 : $P_{218887} = (6, 27, 52, 1)$ lies on line $\ell_4$

802 : $P_{219113} = (40, 30, 52, 1)$ lies on line $\ell_{12}$

803 : $P_{219723} = (10, 40, 52, 1)$ lies on line $\ell_7$

804 : $P_{220326} = (37, 49, 52, 1)$ lies on line $\ell_5$

805 : $P_{220380} = (27, 50, 52, 1)$ lies on line $\ell_9$

806 : $P_{220529} = (48, 52, 52, 1)$ lies on line $\ell_6$

807 : $P_{221313} = (0, 1, 53, 1)$ lies on line $\ell_1$

808 : $P_{221879} = (54, 9, 53, 1)$ lies on line $\ell_4$

809 : $P_{222030} = (13, 12, 53, 1)$ lies on line $\ell_3$

$810 : P_{222093} = (12, 13, 53, 1)$ lies on line $\ell_2$

$811 : P_{222340} = (3, 17, 53, 1)$ lies on line $\ell_9$

$812 : P_{223462} = (37, 34, 53, 1)$ lies on line $\ell_5$

$813 : P_{223998} = (61, 42, 53, 1)$ lies on line $\ell_6$

$814 : P_{224086} = (21, 44, 53, 1)$ lies on line $\ell_{10}$

$815 : P_{224459} = (10, 50, 53, 1)$ lies on line $\ell_{13}$

$816 : P_{224678} = (37, 53, 53, 1)$ lies on line $\ell_{14}$

$817 : P_{224751} = (46, 54, 53, 1)$ lies on line $\ell_8$

$818 : P_{224779} = (10, 55, 53, 1)$ lies on line $\ell_7$

$819 : P_{225011} = (50, 58, 53, 1)$ lies on line $\ell_{15}$

$820 : P_{225409} = (0, 1, 54, 1)$ lies on line $\ell_1$

$821 : P_{225899} = (42, 8, 54, 1)$ lies on line $\ell_6$

$822 : P_{226085} = (36, 11, 54, 1)$ lies on line $\ell_{12}$

$823 : P_{226256} = (15, 14, 54, 1)$ lies on line $\ell_2$

$824 : P_{226319} = (14, 15, 54, 1)$ lies on line $\ell_3$

$825 : P_{226406} = (37, 16, 54, 1)$ lies on line $\ell_{14}$

$826 : P_{226732} = (43, 21, 54, 1)$ lies on line $\ell_9$

$827 : P_{226763} = (10, 22, 54, 1)$ lies on line $\ell_7$

$828 : P_{226854} = (37, 23, 54, 1)$ lies on line $\ell_5$

$829 : P_{227151} = (14, 28, 54, 1)$ lies on line $\ell_{15}$

$830 : P_{227275} = (10, 30, 54, 1)$ lies on line $\ell_{13}$

$831 : P_{228527} = (46, 49, 54, 1)$ lies on line $\ell_8$

$832 : P_{228782} = (45, 53, 54, 1)$ lies on line $\ell_{10}$

$833 : P_{229359} = (46, 62, 54, 1)$ lies on line $\ell_{11}$

$834 : P_{229384} = (7, 63, 54, 1)$ lies on line $\ell_4$

$835 : P_{229505} = (0, 1, 55, 1)$ lies on line $\ell_1$

$836 : P_{229734} = (37, 4, 55, 1)$ lies on line $\ell_5$

$837 : P_{230027} = (10, 9, 55, 1)$ lies on line $\ell_7$

$838 : P_{230352} = (15, 14, 55, 1)$ lies on line $\ell_3$

$839 : P_{230415} = (14, 15, 55, 1)$ lies on line $\ell_2$

$840 : P_{230703} = (46, 19, 55, 1)$ lies on line $\ell_8$

$841 : P_{230888} = (39, 22, 55, 1)$ lies on line $\ell_6$

$842 : P_{230959} = (46, 23, 55, 1)$ lies on line $\ell_{11}$

$843 : P_{231323} = (26, 29, 55, 1)$ lies on line $\ell_{10}$

$844 : P_{231579} = (26, 33, 55, 1)$ lies on line $\ell_{15}$

$845 : P_{231819} = (10, 37, 55, 1)$ lies on line $\ell_{13}$

$846 : P_{232294} = (37, 44, 55, 1)$ lies on line $\ell_{14}$

$847 : P_{232376} = (55, 45, 55, 1)$ lies on line $\ell_4$

$848 : P_{232611} = (34, 49, 55, 1)$ lies on line $\ell_{12}$

$849 : P_{232948} = (51, 54, 55, 1)$ lies on line $\ell_9$

$850 : P_{233538} = (1, 0, 56, 1)$ lies on line $\ell_2$

$851 : P_{233839} = (46, 4, 56, 1)$ lies on line $\ell_{11}$

$852 : P_{234095} = (46, 8, 56, 1)$ lies on line $\ell_8$

$853 : P_{234507} = (10, 15, 56, 1)$ lies on line $\ell_7$

$854 : P_{235211} = (10, 26, 56, 1)$ lies on line $\ell_{13}$

$855 : P_{235534} = (13, 31, 56, 1)$ lies on line $\ell_6$

$856 : P_{235737} = (24, 34, 56, 1)$ lies on line $\ell_9$

$857 : P_{236070} = (37, 39, 56, 1)$ lies on line $\ell_5$

$858 : P_{237397} = (20, 60, 56, 1)$ lies on line $\ell_{15}$

$859 : P_{237542} = (37, 62, 56, 1)$ lies on line $\ell_{14}$

$860 : P_{237634} = (1, 0, 57, 1)$ lies on line $\ell_3$

$861 : P_{237798} = (37, 2, 57, 1)$ lies on line $\ell_{14}$

$862 : P_{238667} = (10, 16, 57, 1)$ lies on line $\ell_7$

$863 : P_{238897} = (48, 19, 57, 1)$ lies on line $\ell_4$

$864 : P_{239755} = (10, 33, 57, 1)$ lies on line $\ell_{13}$

$865 : P_{240312} = (55, 41, 57, 1)$ lies on line $\ell_{10}$

$866 : P_{240367} = (46, 42, 57, 1)$ lies on line $\ell_8$

$867 : P_{240559} = (46, 45, 57, 1)$ lies on line $\ell_{11}$

$868 : P_{240998} = (37, 52, 57, 1)$ lies on line $\ell_5$

$869 : P_{241415} = (6, 59, 57, 1)$ lies on line $\ell_{12}$

$870 : P_{241793} = (0, 1, 58, 1)$ lies on line $\ell_1$

$871 : P_{241830} = (37, 1, 58, 1)$ lies on line $\ell_5$

$872 : P_{241860} = (3, 2, 58, 1)$ lies on line $\ell_2$

$873 : P_{241923} = (2, 3, 58, 1)$ lies on line $\ell_3$

$874 : P_{242089} = (40, 5, 58, 1)$ lies on line $\ell_9$

$875 : P_{242571} = (10, 13, 58, 1)$ lies on line $\ell_{13}$

$876 : P_{243021} = (12, 20, 58, 1)$ lies on line $\ell_{12}$

$877 : P_{243992} = (23, 35, 58, 1)$ lies on line $\ell_6$

$878 : P_{244098} = (1, 37, 58, 1)$ lies on line $\ell_4$

$879 : P_{244262} = (37, 39, 58, 1)$ lies on line $\ell_{14}$

$880 : P_{244285} = (60, 39, 58, 1)$ lies on line $\ell_{15}$

$881 : P_{244655} = (46, 45, 58, 1)$ lies on line $\ell_8$

$882 : P_{244816} = (15, 48, 58, 1)$ lies on line $\ell_{10}$

$883 : P_{244875} = (10, 49, 58, 1)$ lies on line $\ell_7$

$884 : P_{245295} = (46, 55, 58, 1)$ lies on line $\ell_{11}$

$885 : P_{245889} = (0, 1, 59, 1)$ lies on line $\ell_1$

$886 : P_{245956} = (3, 2, 59, 1)$ lies on line $\ell_3$

$887 : P_{246019} = (2, 3, 59, 1)$ lies on line $\ell_2$

$888 : P_{246831} = (46, 15, 59, 1)$ lies on line $\ell_8$

$889 : P_{247014} = (37, 18, 59, 1)$ lies on line $\ell_5$

$890 : P_{247417} = (56, 24, 59, 1)$ lies on line $\ell_{10}$

$891 : P_{247529} = (40, 26, 59, 1)$ lies on line $\ell_{15}$

$892 : P_{247590} = (37, 27, 59, 1)$ lies on line $\ell_{14}$

$893 : P_{247791} = (46, 30, 59, 1)$ lies on line $\ell_{11}$

$894 : P_{248305} = (48, 38, 59, 1)$ lies on line $\ell_9$

$895 : P_{249291} = (10, 54, 59, 1)$ lies on line $\ell_{13}$

$896 : P_{249394} = (49, 55, 59, 1)$ lies on line $\ell_4$

$897 : P_{249755} = (26, 61, 59, 1)$ lies on line $\ell_6$

$898 : P_{249985} = (0, 1, 60, 1)$ lies on line $\ell_1$

$899 : P_{250079} = (30, 2, 60, 1)$ lies on line $\ell_{10}$

$900 : P_{250159} = (46, 3, 60, 1)$ lies on line $\ell_{11}$

$901 : P_{250182} = (5, 4, 60, 1)$ lies on line $\ell_2$

$902 : P_{250245} = (4, 5, 60, 1)$ lies on line $\ell_3$

$903 : P_{250362} = (57, 6, 60, 1)$ lies on line $\ell_6$

$904 : P_{250726} = (37, 12, 60, 1)$ lies on line $\ell_{14}$

$905 : P_{250778} = (25, 13, 60, 1)$ lies on line $\ell_9$

$906 : P_{251083} = (10, 18, 60, 1)$ lies on line $\ell_7$

$907 : P_{252207} = (46, 35, 60, 1)$ lies on line $\ell_8$

$908 : P_{252483} = (2, 40, 60, 1)$ lies on line $\ell_4$

$909 : P_{252697} = (24, 43, 60, 1)$ lies on line $\ell_{12}$

$910 : P_{253259} = (10, 52, 60, 1)$ lies on line $\ell_{13}$

$911 : P_{254081} = (0, 1, 61, 1)$ lies on line $\ell_1$

$912 : P_{254127} = (46, 1, 61, 1)$ lies on line $\ell_8$

$913 : P_{254278} = (5, 4, 61, 1)$ lies on line $\ell_3$

$914 : P_{254341} = (4, 5, 61, 1)$ lies on line $\ell_2$

$915 : P_{254859} = (10, 13, 61, 1)$ lies on line $\ell_7$

$916 : P_{254987} = (10, 15, 61, 1)$ lies on line $\ell_{13}$

$917 : P_{255135} = (30, 17, 61, 1)$ lies on line $\ell_{12}$

918 : $P_{255605} = (52, 24, 61, 1)$ lies on line $\ell_6$
919 : $P_{255654} = (37, 25, 61, 1)$ lies on line $\ell_5$
920 : $P_{256746} = (41, 42, 61, 1)$ lies on line $\ell_{10}$
921 : $P_{256751} = (46, 42, 61, 1)$ lies on line $\ell_{11}$
922 : $P_{256962} = (1, 46, 61, 1)$ lies on line $\ell_9$
923 : $P_{257126} = (37, 48, 61, 1)$ lies on line $\ell_{14}$
924 : $P_{257586} = (49, 55, 61, 1)$ lies on line $\ell_{15}$
925 : $P_{257779} = (50, 58, 61, 1)$ lies on line $\ell_4$
926 : $P_{258177} = (0, 1, 62, 1)$ lies on line $\ell_1$
927 : $P_{258504} = (7, 6, 62, 1)$ lies on line $\ell_2$
928 : $P_{258543} = (46, 6, 62, 1)$ lies on line $\ell_8$
929 : $P_{258567} = (6, 7, 62, 1)$ lies on line $\ell_3$
930 : $P_{258884} = (3, 12, 62, 1)$ lies on line $\ell_4$
931 : $P_{259214} = (13, 17, 62, 1)$ lies on line $\ell_{15}$
932 : $P_{259494} = (37, 21, 62, 1)$ lies on line $\ell_{14}$
933 : $P_{260363} = (10, 35, 62, 1)$ lies on line $\ell_{13}$
934 : $P_{260842} = (41, 42, 62, 1)$ lies on line $\ell_9$
935 : $P_{260939} = (10, 44, 62, 1)$ lies on line $\ell_7$
936 : $P_{260966} = (37, 44, 62, 1)$ lies on line $\ell_5$

937 : $P_{261231} = (46, 48, 62, 1)$ lies on line $\ell_{11}$
938 : $P_{261394} = (17, 51, 62, 1)$ lies on line $\ell_{10}$
939 : $P_{261860} = (35, 58, 62, 1)$ lies on line $\ell_6$
940 : $P_{262101} = (20, 62, 62, 1)$ lies on line $\ell_{12}$
941 : $P_{262273} = (0, 1, 63, 1)$ lies on line $\ell_1$
942 : $P_{262483} = (18, 4, 63, 1)$ lies on line $\ell_{12}$
943 : $P_{262600} = (7, 6, 63, 1)$ lies on line $\ell_3$
944 : $P_{262663} = (6, 7, 63, 1)$ lies on line $\ell_2$
945 : $P_{262834} = (49, 9, 63, 1)$ lies on line $\ell_9$
946 : $P_{263755} = (10, 24, 63, 1)$ lies on line $\ell_{13}$
947 : $P_{263855} = (46, 25, 63, 1)$ lies on line $\ell_{11}$
948 : $P_{263975} = (38, 27, 63, 1)$ lies on line $\ell_{10}$
949 : $P_{264180} = (51, 30, 63, 1)$ lies on line $\ell_4$
950 : $P_{264870} = (37, 41, 63, 1)$ lies on line $\ell_{14}$
951 : $P_{265050} = (25, 44, 63, 1)$ lies on line $\ell_{15}$
952 : $P_{265483} = (10, 51, 63, 1)$ lies on line $\ell_7$
953 : $P_{266278} = (37, 63, 63, 1)$ lies on line $\ell_5$

The single points on the surface are:

**Points on surface but on no line**

The surface has 3423 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 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| 1  | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| 2  | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3  | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 4  | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 6  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| 7  | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 8  | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 9  | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 10 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| 11 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 12 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 13 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 14 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

Neighbor sets in the line intersection graph:
Line 0 intersects

| Line | $\ell_1$ | $\ell_5$ | $\ell_7$ | $\ell_8$ | $\ell_{11}$ | $\ell_{13}$ | $\ell_{14}$ |
|------|----------|----------|----------|----------|-------------|-------------|-------------|
| in point | $P_2$ | $P_{1283}$ | $P_{2051}$ | $P_{2243}$ | $P_{2691}$ | $P_{3843}$ | $P_{3907}$ |

Line 1 intersects

| Line | $\ell_0$ | $\ell_2$ | $\ell_3$ | $\ell_4$ | $\ell_6$ | $\ell_9$ | $\ell_{10}$ | $\ell_{12}$ | $\ell_{15}$ |
|---|---|---|---|---|---|---|---|---|---|
| in point | $P_2$ | $P_{237697}$ | $P_{233601}$ | $P_{233601}$ | $P_{237697}$ | $P_{237697}$ | $P_{233601}$ | $P_{233601}$ | $P_{237697}$ |

Line 2 intersects

| Line | $\ell_1$ | $\ell_3$ | $\ell_5$ | $\ell_6$ | $\ell_9$ | $\ell_{11}$ | $\ell_{13}$ | $\ell_{15}$ |
|---|---|---|---|---|---|---|---|---|
| in point | $P_{237697}$ | $P_{132}$ | $P_{121190}$ | $P_{237697}$ | $P_{237697}$ | $P_{101423}$ | $P_{213771}$ | $P_{237697}$ |

Line 3 intersects

| Line | $\ell_1$ | $\ell_2$ | $\ell_4$ | $\ell_7$ | $\ell_8$ | $\ell_{10}$ | $\ell_{12}$ | $\ell_{14}$ |
|---|---|---|---|---|---|---|---|---|
| in point | $P_{233601}$ | $P_{132}$ | $P_{233601}$ | $P_{209675}$ | $P_{97327}$ | $P_{233601}$ | $P_{233601}$ | $P_{125286}$ |

Line 4 intersects

| Line | $\ell_1$ | $\ell_3$ | $\ell_{10}$ | $\ell_{11}$ | $\ell_{12}$ | $\ell_{13}$ | $\ell_{14}$ | $\ell_{15}$ |
|---|---|---|---|---|---|---|---|---|
| in point | $P_{233601}$ | $P_{233601}$ | $P_{233601}$ | $P_{24687}$ | $P_{233601}$ | $P_{187403}$ | $P_{82662}$ | $P_{193292}$ |

Line 5 intersects

| Line | $\ell_0$ | $\ell_2$ | $\ell_{10}$ | $\ell_{12}$ | $\ell_{14}$ | $\ell_{15}$ |
|---|---|---|---|---|---|---|
| in point | $P_{1283}$ | $P_{121190}$ | $P_{135974}$ | $P_{159846}$ | $P_{6567}$ | $P_{250598}$ |

Line 6 intersects

| Line | $\ell_1$ | $\ell_2$ | $\ell_8$ | $\ell_9$ | $\ell_{12}$ | $\ell_{13}$ | $\ell_{14}$ | $\ell_{15}$ |
|---|---|---|---|---|---|---|---|---|
| in point | $P_{237697}$ | $P_{237697}$ | $P_{264559}$ | $P_{237697}$ | $P_{158768}$ | $P_{134091}$ | $P_{16486}$ | $P_{237697}$ |

Line 7 intersects

| Line | $\ell_0$ | $\ell_3$ | $\ell_9$ | $\ell_{12}$ | $\ell_{13}$ | $\ell_{15}$ |
|---|---|---|---|---|---|---|
| in point | $P_{2051}$ | $P_{209675}$ | $P_{73803}$ | $P_{248779}$ | $P_{4812}$ | $P_{44043}$ |

Line 8 intersects

| Line | $\ell_0$ | $\ell_3$ | $\ell_6$ | $\ell_{10}$ | $\ell_{11}$ | $\ell_{15}$ |
|---|---|---|---|---|---|---|
| in point | $P_{2243}$ | $P_{97327}$ | $P_{264559}$ | $P_{174511}$ | $P_{7152}$ | $P_{180335}$ |

Line 9 intersects

| Line | $\ell_1$ | $\ell_2$ | $\ell_6$ | $\ell_7$ | $\ell_{10}$ | $\ell_{11}$ | $\ell_{14}$ | $\ell_{15}$ |
|---|---|---|---|---|---|---|---|---|
| in point | $P_{237697}$ | $P_{237697}$ | $P_{237697}$ | $P_{73803}$ | $P_{47461}$ | $P_{145839}$ | $P_{62246}$ | $P_{237697}$ |

Line 10 intersects

| Line | $\ell_1$ | $\ell_3$ | $\ell_4$ | $\ell_5$ | $\ell_8$ | $\ell_9$ | $\ell_{12}$ | $\ell_{13}$ |
|---|---|---|---|---|---|---|---|---|
| in point | $P_{233601}$ | $P_{233601}$ | $P_{233601}$ | $P_{135974}$ | $P_{174511}$ | $P_{47461}$ | $P_{233601}$ | $P_{114763}$ |

Line 11 intersects

| Line | $\ell_0$ | $\ell_2$ | $\ell_4$ | $\ell_8$ | $\ell_9$ | $\ell_{12}$ |
|---|---|---|---|---|---|---|
| in point | $P_{2691}$ | $P_{101423}$ | $P_{24687}$ | $P_{7152}$ | $P_{145839}$ | $P_{223599}$ |

Line 12 intersects

| Line | $\ell_1$ | $\ell_3$ | $\ell_4$ | $\ell_5$ | $\ell_6$ | $\ell_7$ | $\ell_{10}$ | $\ell_{11}$ |
|---|---|---|---|---|---|---|---|---|
| in point | $P_{233601}$ | $P_{233601}$ | $P_{233601}$ | $P_{159846}$ | $P_{158768}$ | $P_{248779}$ | $P_{233601}$ | $P_{223599}$ |

Line 13 intersects

| Line | $\ell_0$ | $\ell_2$ | $\ell_4$ | $\ell_6$ | $\ell_7$ | $\ell_{10}$ |
|---|---|---|---|---|---|---|
| in point | $P_{3843}$ | $P_{213771}$ | $P_{187403}$ | $P_{134091}$ | $P_{4812}$ | $P_{114763}$ |

Line 14 intersects

| Line | $\ell_0$ | $\ell_3$ | $\ell_4$ | $\ell_5$ | $\ell_6$ | $\ell_9$ |
|---|---|---|---|---|---|---|
| in point | $P_{3907}$ | $P_{125286}$ | $P_{82662}$ | $P_{6567}$ | $P_{16486}$ | $P_{62246}$ |

Line 15 intersects

| Line | $\ell_1$ | $\ell_2$ | $\ell_4$ | $\ell_5$ | $\ell_6$ | $\ell_7$ | $\ell_8$ | $\ell_9$ |
|---|---|---|---|---|---|---|---|---|
| in point | $P_{237697}$ | $P_{237697}$ | $P_{193292}$ | $P_{250598}$ | $P_{237697}$ | $P_{44043}$ | $P_{180335}$ | $P_{237697}$ |

The surface has 4417 points:
Too many to print.