Rank-65695 over GF(64)

January 15, 2021

The equation

The equation of the surface is :

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

(0, 0, 1, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(64) is 1107828805

General information

Number of lines	15
Number of points	4417
Number of singular points	1
Number of Eckardt points	3
Number of double points	27
Number of single points	906
Number of points off lines	3480
Number of Hesse planes	0
Number of axes	0
Type of points on lines	65^{15}
Type of lines on points	$6, 3^3, 2^{27}, 1^{906}, 0^{3480}$

Singular Points

The surface has 1 singular points:

$0: P_{132} = \mathbf{P}(1,1,1,0) = \mathbf{P}(1,1,1,0)$

The 15 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4097} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{4097} = \mathbf{Pl}(0,0,1,0,1,0)_{4352}$$

$$\ell_1 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \epsilon^{21} \end{bmatrix}_{4153} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 57 \end{bmatrix}_{4153} = \mathbf{Pl}(0,0,56,0,1,0)_{11337}$$

$$\ell_2 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \epsilon^{42} \end{bmatrix}_{4152} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 56 \end{bmatrix}_{4152} = \mathbf{Pl}(0,0,57,0,1,0)_{11464}$$

$$\ell_3 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{17043457} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{17043457} = \mathbf{Pl}(0,0,0,1,0,1)_{278529}$$

$$\ell_4 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \epsilon^{21} \end{bmatrix}_{17043513} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 57 \end{bmatrix}_{17043513} = \mathbf{Pl}(0,0,0,57,0,1)_{285641}$$

$$\ell_5 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \epsilon^{42} \end{bmatrix}_{17043512} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 56 \end{bmatrix}_{17043512} = \mathbf{Pl}(0,0,0,56,0,1)_{285514}$$

$$\ell_6 = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{270530} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{270530} = \mathbf{Pl}(1,0,1,1,1,1)_{544579}$$

$$\ell_7 = \begin{bmatrix} 1 & 0 & 1 & \epsilon^{21} \\ 0 & 1 & 1 & \epsilon^{21} \end{bmatrix}_{15187138} = \begin{bmatrix} 1 & 0 & 1 & 57 \\ 0 & 1 & 1 & 57 \end{bmatrix}_{15187138} = \mathbf{Pl}(56,0,56,57,57,1)_{15228099}$$

$$\ell_8 = \begin{bmatrix} 1 & 0 & 1 & \epsilon^{42} \\ 0 & 1 & 1 & \epsilon^{42} \end{bmatrix}_{14920770} = \begin{bmatrix} 1 & 0 & 1 & 56 \\ 0 & 1 & 1 & 56 \end{bmatrix}_{14920770} = \mathbf{Pl}(57,0,57,56,56,1)_{14966147}$$

$$\ell_9 = \begin{bmatrix} 1 & 0 & \epsilon^{42} & \epsilon^{42} \\ 0 & 1 & \epsilon^{21} & \epsilon^{42} \end{bmatrix}_{15149681} = \begin{bmatrix} 1 & 0 & 56 & 56 \\ 0 & 1 & 57 & 56 \end{bmatrix}_{15149681} = \mathbf{Pl}(1,1,1,1,1,1)_{555981}$$

$$\ell_{10} = \begin{bmatrix} 1 & 0 & \epsilon^{21} & \epsilon^{21} \\ 0 & 1 & \epsilon^{42} & \epsilon^{21} \end{bmatrix}_{15420209} = \begin{bmatrix} 1 & 0 & 57 & 57 \\ 0 & 1 & 56 & 57 \end{bmatrix}_{15420209} = \mathbf{Pl}(1,1,1,1,1,1)_{556044}$$

$$\ell_{11} = \begin{bmatrix} 1 & 0 & \epsilon^{21} & \epsilon^{42} \\ 0 & 1 & \epsilon^{42} & \epsilon^{42} \end{bmatrix}_{15153841} = \begin{bmatrix} 1 & 0 & 57 & 56 \\ 0 & 1 & 56 & 56 \end{bmatrix}_{15153841} = \mathbf{Pl}(56,57,56,57,57,1)_{15447409}$$

$$\ell_{12} = \begin{bmatrix} 1 & 0 & \epsilon^{42} & 1 \\ 0 & 1 & \epsilon^{21} & 1 \end{bmatrix}_{499441} = \begin{bmatrix} 1 & 0 & 56 & 1 \\ 0 & 1 & 57 & 1 \end{bmatrix}_{499441} = \mathbf{Pl}(56,57,56,57,57,1)_{15447346}$$

$$\ell_{13} = \begin{bmatrix} 1 & 0 & \epsilon^{42} & \epsilon^{21} \\ 0 & 1 & \epsilon^{21} & \epsilon^{21} \end{bmatrix}_{15416049} = \begin{bmatrix} 1 & 0 & 56 & 57 \\ 0 & 1 & 57 & 57 \end{bmatrix}_{15416049} = \mathbf{Pl}(57,56,57,56,56,1)_{15189173}$$

$$\ell_{14} = \begin{bmatrix} 1 & 0 & \epsilon^{21} & 1 \\ 0 & 1 & \epsilon^{42} & 1 \end{bmatrix}_{503601} = \begin{bmatrix} 1 & 0 & 57 & 1 \\ 0 & 1 & 56 & 1 \end{bmatrix}_{503601} = \mathbf{Pl}(57,56,57,56,56,1)_{15189236}$$

Rank of lines: (4097, 4153, 4152, 17043457, 17043513, 17043512, 270530, 15187138, 14920770, 15149681, 15420209, 15153841, 499441, 15416049, 503601)

Rank of points on Klein quadric: (4352, 11337, 11464, 278529, 285641, 285514, 544579, 15228099, 14966147, 555981, 556044, 15447409, 15447346, 15189173, 15189236)

Eckardt Points

The surface has 3 Eckardt points:
$0 : P_0 = \mathbf{P}(1,0,0,0) = \mathbf{P}(1,0,0,0)$,
$1 : P_1 = \mathbf{P}(0,1,0,0) = \mathbf{P}(0,1,0,0)$,
$2 : P_5 = \mathbf{P}(1,1,0,0) = \mathbf{P}(1,1,0,0)$.

Double Points

The surface has 27 Double points:
The double points on the surface are:

$P_{8258} = (0,0,1,1) = \ell_0 \cap \ell_3$
$P_{8259} = (1,0,1,1) = \ell_0 \cap \ell_6$
$P_{8315} = (57,0,1,1) = \ell_0 \cap \ell_9$
$P_{8314} = (56,0,1,1) = \ell_0 \cap \ell_{10}$
$P_{233537} = (0,0,56,1) = \ell_1 \cap \ell_4$
$P_{233593} = (56,0,56,1) = \ell_1 \cap \ell_7$
$P_{233594} = (57,0,56,1) = \ell_1 \cap \ell_{11}$
$P_{233538} = (1,0,56,1) = \ell_1 \cap \ell_{12}$
$P_{237633} = (0,0,57,1) = \ell_2 \cap \ell_5$
$P_{237690} = (57,0,57,1) = \ell_2 \cap \ell_8$
$P_{237689} = (56,0,57,1) = \ell_2 \cap \ell_{13}$
$P_{237634} = (1,0,57,1) = \ell_2 \cap \ell_{14}$
$P_{8322} = (0,1,1,1) = \ell_3 \cap \ell_6$
$P_{11905} = (0,57,1,1) = \ell_3 \cap \ell_{11}$

$P_{11841} = (0,56,1,1) = \ell_3 \cap \ell_{13}$
$P_{237121} = (0,56,56,1) = \ell_4 \cap \ell_7$
$P_{237185} = (0,57,56,1) = \ell_4 \cap \ell_9$
$P_{233601} = (0,1,56,1) = \ell_4 \cap \ell_{14}$
$P_{241281} = (0,57,57,1) = \ell_5 \cap \ell_8$
$P_{241217} = (0,56,57,1) = \ell_5 \cap \ell_{10}$
$P_{237697} = (0,1,57,1) = \ell_5 \cap \ell_{12}$
$P_{11961} = (56,57,1,1) = \ell_6 \cap \ell_{12}$
$P_{11898} = (57,56,1,1) = \ell_6 \cap \ell_{14}$
$P_{237186} = (1,57,56,1) = \ell_7 \cap \ell_{10}$
$P_{233658} = (57,1,56,1) = \ell_7 \cap \ell_{13}$
$P_{241218} = (1,56,57,1) = \ell_8 \cap \ell_9$
$P_{237753} = (56,1,57,1) = \ell_8 \cap \ell_{11}$

Single Points

The surface has 906 single points:
The single points on the surface are:

$0: P_{4282} = (56,1,0,1)$ lies on line ℓ_9
$1: P_{4283} = (57,1,0,1)$ lies on line ℓ_{10}
$2: P_{7747} = (1,56,0,1)$ lies on line ℓ_{11}
$3: P_{7803} = (57,56,0,1)$ lies on line ℓ_{12}
$4: P_{7811} = (1,57,0,1)$ lies on line ℓ_{13}
$5: P_{7866} = (56,57,0,1)$ lies on line ℓ_{14}
$6: P_{8260} = (2,0,1,1)$ lies on line ℓ_0
$7: P_{8261} = (3,0,1,1)$ lies on line ℓ_0
$8: P_{8262} = (4,0,1,1)$ lies on line ℓ_0
$9: P_{8263} = (5,0,1,1)$ lies on line ℓ_0
$10: P_{8264} = (6,0,1,1)$ lies on line ℓ_0
$11: P_{8265} = (7,0,1,1)$ lies on line ℓ_0
$12: P_{8266} = (8,0,1,1)$ lies on line ℓ_0
$13: P_{8267} = (9,0,1,1)$ lies on line ℓ_0
$14: P_{8268} = (10,0,1,1)$ lies on line ℓ_0
$15: P_{8269} = (11,0,1,1)$ lies on line ℓ_0
$16: P_{8270} = (12,0,1,1)$ lies on line ℓ_0
$17: P_{8271} = (13,0,1,1)$ lies on line ℓ_0
$18: P_{8272} = (14,0,1,1)$ lies on line ℓ_0
$19: P_{8273} = (15,0,1,1)$ lies on line ℓ_0
$20: P_{8274} = (16,0,1,1)$ lies on line ℓ_0
$21: P_{8275} = (17,0,1,1)$ lies on line ℓ_0
$22: P_{8276} = (18,0,1,1)$ lies on line ℓ_0
$23: P_{8277} = (19,0,1,1)$ lies on line ℓ_0
$24: P_{8278} = (20,0,1,1)$ lies on line ℓ_0
$25: P_{8279} = (21,0,1,1)$ lies on line ℓ_0
$26: P_{8280} = (22,0,1,1)$ lies on line ℓ_0
$27: P_{8281} = (23,0,1,1)$ lies on line ℓ_0
$28: P_{8282} = (24,0,1,1)$ lies on line ℓ_0
$29: P_{8283} = (25,0,1,1)$ lies on line ℓ_0
$30: P_{8284} = (26,0,1,1)$ lies on line ℓ_0
$31: P_{8285} = (27,0,1,1)$ lies on line ℓ_0
$32: P_{8286} = (28,0,1,1)$ lies on line ℓ_0

$33: P_{8287} = (29,0,1,1)$ lies on line ℓ_0
$34: P_{8288} = (30,0,1,1)$ lies on line ℓ_0
$35: P_{8289} = (31,0,1,1)$ lies on line ℓ_0
$36: P_{8290} = (32,0,1,1)$ lies on line ℓ_0
$37: P_{8291} = (33,0,1,1)$ lies on line ℓ_0
$38: P_{8292} = (34,0,1,1)$ lies on line ℓ_0
$39: P_{8293} = (35,0,1,1)$ lies on line ℓ_0
$40: P_{8294} = (36,0,1,1)$ lies on line ℓ_0
$41: P_{8295} = (37,0,1,1)$ lies on line ℓ_0
$42: P_{8296} = (38,0,1,1)$ lies on line ℓ_0
$43: P_{8297} = (39,0,1,1)$ lies on line ℓ_0
$44: P_{8298} = (40,0,1,1)$ lies on line ℓ_0
$45: P_{8299} = (41,0,1,1)$ lies on line ℓ_0
$46: P_{8300} = (42,0,1,1)$ lies on line ℓ_0
$47: P_{8301} = (43,0,1,1)$ lies on line ℓ_0
$48: P_{8302} = (44,0,1,1)$ lies on line ℓ_0
$49: P_{8303} = (45,0,1,1)$ lies on line ℓ_0
$50: P_{8304} = (46,0,1,1)$ lies on line ℓ_0
$51: P_{8305} = (47,0,1,1)$ lies on line ℓ_0
$52: P_{8306} = (48,0,1,1)$ lies on line ℓ_0
$53: P_{8307} = (49,0,1,1)$ lies on line ℓ_0
$54: P_{8308} = (50,0,1,1)$ lies on line ℓ_0
$55: P_{8309} = (51,0,1,1)$ lies on line ℓ_0
$56: P_{8310} = (52,0,1,1)$ lies on line ℓ_0
$57: P_{8311} = (53,0,1,1)$ lies on line ℓ_0
$58: P_{8312} = (54,0,1,1)$ lies on line ℓ_0
$59: P_{8313} = (55,0,1,1)$ lies on line ℓ_0
$60: P_{8316} = (58,0,1,1)$ lies on line ℓ_0
$61: P_{8317} = (59,0,1,1)$ lies on line ℓ_0
$62: P_{8318} = (60,0,1,1)$ lies on line ℓ_0
$63: P_{8319} = (61,0,1,1)$ lies on line ℓ_0
$64: P_{8320} = (62,0,1,1)$ lies on line ℓ_0
$65: P_{8321} = (63,0,1,1)$ lies on line ℓ_0

$66 : P_{8385} = (0, 2, 1, 1)$ lies on line ℓ_3
$67 : P_{8388} = (3, 2, 1, 1)$ lies on line ℓ_6
$68 : P_{8449} = (0, 3, 1, 1)$ lies on line ℓ_3
$69 : P_{8451} = (2, 3, 1, 1)$ lies on line ℓ_6
$70 : P_{8513} = (0, 4, 1, 1)$ lies on line ℓ_3
$71 : P_{8518} = (5, 4, 1, 1)$ lies on line ℓ_6
$72 : P_{8577} = (0, 5, 1, 1)$ lies on line ℓ_3
$73 : P_{8581} = (4, 5, 1, 1)$ lies on line ℓ_6
$74 : P_{8641} = (0, 6, 1, 1)$ lies on line ℓ_3
$75 : P_{8648} = (7, 6, 1, 1)$ lies on line ℓ_6
$76 : P_{8705} = (0, 7, 1, 1)$ lies on line ℓ_3
$77 : P_{8711} = (6, 7, 1, 1)$ lies on line ℓ_6
$78 : P_{8769} = (0, 8, 1, 1)$ lies on line ℓ_3
$79 : P_{8778} = (9, 8, 1, 1)$ lies on line ℓ_6
$80 : P_{8833} = (0, 9, 1, 1)$ lies on line ℓ_3
$81 : P_{8841} = (8, 9, 1, 1)$ lies on line ℓ_6
$82 : P_{8897} = (0, 10, 1, 1)$ lies on line ℓ_3
$83 : P_{8908} = (11, 10, 1, 1)$ lies on line ℓ_6
$84 : P_{8961} = (0, 11, 1, 1)$ lies on line ℓ_3
$85 : P_{8971} = (10, 11, 1, 1)$ lies on line ℓ_6
$86 : P_{9025} = (0, 12, 1, 1)$ lies on line ℓ_3
$87 : P_{9038} = (13, 12, 1, 1)$ lies on line ℓ_6
$88 : P_{9089} = (0, 13, 1, 1)$ lies on line ℓ_3
$89 : P_{9101} = (12, 13, 1, 1)$ lies on line ℓ_6
$90 : P_{9153} = (0, 14, 1, 1)$ lies on line ℓ_3
$91 : P_{9168} = (15, 14, 1, 1)$ lies on line ℓ_6
$92 : P_{9217} = (0, 15, 1, 1)$ lies on line ℓ_3
$93 : P_{9231} = (14, 15, 1, 1)$ lies on line ℓ_6
$94 : P_{9281} = (0, 16, 1, 1)$ lies on line ℓ_3
$95 : P_{9298} = (17, 16, 1, 1)$ lies on line ℓ_6
$96 : P_{9345} = (0, 17, 1, 1)$ lies on line ℓ_3
$97 : P_{9361} = (16, 17, 1, 1)$ lies on line ℓ_6
$98 : P_{9409} = (0, 18, 1, 1)$ lies on line ℓ_3
$99 : P_{9428} = (19, 18, 1, 1)$ lies on line ℓ_6
$100 : P_{9473} = (0, 19, 1, 1)$ lies on line ℓ_3
$101 : P_{9491} = (18, 19, 1, 1)$ lies on line ℓ_6
$102 : P_{9537} = (0, 20, 1, 1)$ lies on line ℓ_3
$103 : P_{9558} = (21, 20, 1, 1)$ lies on line ℓ_6
$104 : P_{9601} = (0, 21, 1, 1)$ lies on line ℓ_3
$105 : P_{9621} = (20, 21, 1, 1)$ lies on line ℓ_6
$106 : P_{9665} = (0, 22, 1, 1)$ lies on line ℓ_3
$107 : P_{9688} = (23, 22, 1, 1)$ lies on line ℓ_6
$108 : P_{9729} = (0, 23, 1, 1)$ lies on line ℓ_3
$109 : P_{9751} = (22, 23, 1, 1)$ lies on line ℓ_6
$110 : P_{9793} = (0, 24, 1, 1)$ lies on line ℓ_3
$111 : P_{9818} = (25, 24, 1, 1)$ lies on line ℓ_6
$112 : P_{9857} = (0, 25, 1, 1)$ lies on line ℓ_3
$113 : P_{9881} = (24, 25, 1, 1)$ lies on line ℓ_6
$114 : P_{9921} = (0, 26, 1, 1)$ lies on line ℓ_3
$115 : P_{9948} = (27, 26, 1, 1)$ lies on line ℓ_6
$116 : P_{9985} = (0, 27, 1, 1)$ lies on line ℓ_3
$117 : P_{10011} = (26, 27, 1, 1)$ lies on line ℓ_6
$118 : P_{10049} = (0, 28, 1, 1)$ lies on line ℓ_3
$119 : P_{10078} = (29, 28, 1, 1)$ lies on line ℓ_6

$120 : P_{10113} = (0, 29, 1, 1)$ lies on line ℓ_3
$121 : P_{10141} = (28, 29, 1, 1)$ lies on line ℓ_6
$122 : P_{10177} = (0, 30, 1, 1)$ lies on line ℓ_3
$123 : P_{10208} = (31, 30, 1, 1)$ lies on line ℓ_6
$124 : P_{10241} = (0, 31, 1, 1)$ lies on line ℓ_3
$125 : P_{10271} = (30, 31, 1, 1)$ lies on line ℓ_6
$126 : P_{10305} = (0, 32, 1, 1)$ lies on line ℓ_3
$127 : P_{10338} = (33, 32, 1, 1)$ lies on line ℓ_6
$128 : P_{10369} = (0, 33, 1, 1)$ lies on line ℓ_3
$129 : P_{10401} = (32, 33, 1, 1)$ lies on line ℓ_6
$130 : P_{10433} = (0, 34, 1, 1)$ lies on line ℓ_3
$131 : P_{10468} = (35, 34, 1, 1)$ lies on line ℓ_6
$132 : P_{10497} = (0, 35, 1, 1)$ lies on line ℓ_3
$133 : P_{10531} = (34, 35, 1, 1)$ lies on line ℓ_6
$134 : P_{10561} = (0, 36, 1, 1)$ lies on line ℓ_3
$135 : P_{10598} = (37, 36, 1, 1)$ lies on line ℓ_6
$136 : P_{10625} = (0, 37, 1, 1)$ lies on line ℓ_3
$137 : P_{10661} = (36, 37, 1, 1)$ lies on line ℓ_6
$138 : P_{10689} = (0, 38, 1, 1)$ lies on line ℓ_3
$139 : P_{10728} = (39, 38, 1, 1)$ lies on line ℓ_6
$140 : P_{10753} = (0, 39, 1, 1)$ lies on line ℓ_3
$141 : P_{10791} = (38, 39, 1, 1)$ lies on line ℓ_6
$142 : P_{10817} = (0, 40, 1, 1)$ lies on line ℓ_3
$143 : P_{10858} = (41, 40, 1, 1)$ lies on line ℓ_6
$144 : P_{10881} = (0, 41, 1, 1)$ lies on line ℓ_3
$145 : P_{10921} = (40, 41, 1, 1)$ lies on line ℓ_6
$146 : P_{10945} = (0, 42, 1, 1)$ lies on line ℓ_3
$147 : P_{10988} = (43, 42, 1, 1)$ lies on line ℓ_6
$148 : P_{11009} = (0, 43, 1, 1)$ lies on line ℓ_3
$149 : P_{11051} = (42, 43, 1, 1)$ lies on line ℓ_6
$150 : P_{11073} = (0, 44, 1, 1)$ lies on line ℓ_3
$151 : P_{11118} = (45, 44, 1, 1)$ lies on line ℓ_6
$152 : P_{11137} = (0, 45, 1, 1)$ lies on line ℓ_3
$153 : P_{11181} = (44, 45, 1, 1)$ lies on line ℓ_6
$154 : P_{11201} = (0, 46, 1, 1)$ lies on line ℓ_3
$155 : P_{11248} = (47, 46, 1, 1)$ lies on line ℓ_6
$156 : P_{11265} = (0, 47, 1, 1)$ lies on line ℓ_3
$157 : P_{11311} = (46, 47, 1, 1)$ lies on line ℓ_6
$158 : P_{11329} = (0, 48, 1, 1)$ lies on line ℓ_3
$159 : P_{11378} = (49, 48, 1, 1)$ lies on line ℓ_6
$160 : P_{11393} = (0, 49, 1, 1)$ lies on line ℓ_3
$161 : P_{11441} = (48, 49, 1, 1)$ lies on line ℓ_6
$162 : P_{11457} = (0, 50, 1, 1)$ lies on line ℓ_3
$163 : P_{11508} = (51, 50, 1, 1)$ lies on line ℓ_6
$164 : P_{11521} = (0, 51, 1, 1)$ lies on line ℓ_3
$165 : P_{11571} = (50, 51, 1, 1)$ lies on line ℓ_6
$166 : P_{11585} = (0, 52, 1, 1)$ lies on line ℓ_3
$167 : P_{11638} = (53, 52, 1, 1)$ lies on line ℓ_6
$168 : P_{11649} = (0, 53, 1, 1)$ lies on line ℓ_3
$169 : P_{11701} = (52, 53, 1, 1)$ lies on line ℓ_6
$170 : P_{11713} = (0, 54, 1, 1)$ lies on line ℓ_3
$171 : P_{11768} = (55, 54, 1, 1)$ lies on line ℓ_6
$172 : P_{11777} = (0, 55, 1, 1)$ lies on line ℓ_3
$173 : P_{11831} = (54, 55, 1, 1)$ lies on line ℓ_6

$174: P_{11969} = (0, 58, 1, 1)$ lies on line ℓ_3

$175: P_{12028} = (59, 58, 1, 1)$ lies on line ℓ_6

$176: P_{12033} = (0, 59, 1, 1)$ lies on line ℓ_3

$177: P_{12091} = (58, 59, 1, 1)$ lies on line ℓ_6

$178: P_{12097} = (0, 60, 1, 1)$ lies on line ℓ_3

$179: P_{12158} = (61, 60, 1, 1)$ lies on line ℓ_6

$180: P_{12161} = (0, 61, 1, 1)$ lies on line ℓ_3

$181: P_{12221} = (60, 61, 1, 1)$ lies on line ℓ_6

$182: P_{12225} = (0, 62, 1, 1)$ lies on line ℓ_3

$183: P_{12288} = (63, 62, 1, 1)$ lies on line ℓ_6

$184: P_{12289} = (0, 63, 1, 1)$ lies on line ℓ_3

$185: P_{12351} = (62, 63, 1, 1)$ lies on line ℓ_6

$186: P_{12603} = (58, 3, 2, 1)$ lies on line ℓ_9

$187: P_{12604} = (59, 3, 2, 1)$ lies on line ℓ_{10}

$188: P_{16068} = (3, 58, 2, 1)$ lies on line ℓ_{11}

$189: P_{16124} = (59, 58, 2, 1)$ lies on line ℓ_{12}

$190: P_{16132} = (3, 59, 2, 1)$ lies on line ℓ_{13}

$191: P_{16187} = (58, 59, 2, 1)$ lies on line ℓ_{14}

$192: P_{16635} = (58, 2, 3, 1)$ lies on line ℓ_{10}

$193: P_{16636} = (59, 2, 3, 1)$ lies on line ℓ_9

$194: P_{20163} = (2, 58, 3, 1)$ lies on line ℓ_{13}

$195: P_{20220} = (59, 58, 3, 1)$ lies on line ℓ_{14}

$196: P_{20227} = (2, 59, 3, 1)$ lies on line ℓ_{11}

$197: P_{20283} = (58, 59, 3, 1)$ lies on line ℓ_{12}

$198: P_{20925} = (60, 5, 4, 1)$ lies on line ℓ_9

$199: P_{20926} = (61, 5, 4, 1)$ lies on line ℓ_{10}

$200: P_{24390} = (5, 60, 4, 1)$ lies on line ℓ_{11}

$201: P_{24446} = (61, 60, 4, 1)$ lies on line ℓ_{12}

$202: P_{24454} = (5, 61, 4, 1)$ lies on line ℓ_{13}

$203: P_{24509} = (60, 61, 4, 1)$ lies on line ℓ_{14}

$204: P_{24957} = (60, 4, 5, 1)$ lies on line ℓ_{10}

$205: P_{24958} = (61, 4, 5, 1)$ lies on line ℓ_9

$206: P_{28485} = (4, 60, 5, 1)$ lies on line ℓ_{13}

$207: P_{28542} = (61, 60, 5, 1)$ lies on line ℓ_{14}

$208: P_{28549} = (4, 61, 5, 1)$ lies on line ℓ_{11}

$209: P_{28605} = (60, 61, 5, 1)$ lies on line ℓ_{12}

$210: P_{29247} = (62, 7, 6, 1)$ lies on line ℓ_9

$211: P_{29248} = (63, 7, 6, 1)$ lies on line ℓ_{10}

$212: P_{32712} = (7, 62, 6, 1)$ lies on line ℓ_{11}

$213: P_{32768} = (63, 62, 6, 1)$ lies on line ℓ_{12}

$214: P_{32776} = (7, 63, 6, 1)$ lies on line ℓ_{13}

$215: P_{32831} = (62, 63, 6, 1)$ lies on line ℓ_{14}

$216: P_{33279} = (62, 6, 7, 1)$ lies on line ℓ_{10}

$217: P_{33280} = (63, 6, 7, 1)$ lies on line ℓ_9

$218: P_{36807} = (6, 62, 7, 1)$ lies on line ℓ_{13}

$219: P_{36864} = (63, 62, 7, 1)$ lies on line ℓ_{14}

$220: P_{36871} = (6, 63, 7, 1)$ lies on line ℓ_{11}

$221: P_{36927} = (62, 63, 7, 1)$ lies on line ℓ_{12}

$222: P_{37553} = (48, 9, 8, 1)$ lies on line ℓ_9

$223: P_{37554} = (49, 9, 8, 1)$ lies on line ℓ_{10}

$224: P_{40010} = (9, 48, 8, 1)$ lies on line ℓ_{11}

$225: P_{40050} = (49, 48, 8, 1)$ lies on line ℓ_{12}

$226: P_{40074} = (9, 49, 8, 1)$ lies on line ℓ_{13}

$227: P_{40113} = (48, 49, 8, 1)$ lies on line ℓ_{14}

$228: P_{41585} = (48, 8, 9, 1)$ lies on line ℓ_{10}

$229: P_{41586} = (49, 8, 9, 1)$ lies on line ℓ_9

$230: P_{44105} = (8, 48, 9, 1)$ lies on line ℓ_{13}

$231: P_{44146} = (49, 48, 9, 1)$ lies on line ℓ_{14}

$232: P_{44169} = (8, 49, 9, 1)$ lies on line ℓ_{11}

$233: P_{44209} = (48, 49, 9, 1)$ lies on line ℓ_{12}

$234: P_{45875} = (50, 11, 10, 1)$ lies on line ℓ_9

$235: P_{45876} = (51, 11, 10, 1)$ lies on line ℓ_{10}

$236: P_{48332} = (11, 50, 10, 1)$ lies on line ℓ_{11}

$237: P_{48372} = (51, 50, 10, 1)$ lies on line ℓ_{12}

$238: P_{48396} = (11, 51, 10, 1)$ lies on line ℓ_{13}

$239: P_{48435} = (50, 51, 10, 1)$ lies on line ℓ_{14}

$240: P_{49907} = (50, 10, 11, 1)$ lies on line ℓ_{10}

$241: P_{49908} = (51, 10, 11, 1)$ lies on line ℓ_9

$242: P_{52427} = (10, 50, 11, 1)$ lies on line ℓ_{13}

$243: P_{52468} = (51, 50, 11, 1)$ lies on line ℓ_{14}

$244: P_{52491} = (10, 51, 11, 1)$ lies on line ℓ_{11}

$245: P_{52531} = (50, 51, 11, 1)$ lies on line ℓ_{12}

$246: P_{54197} = (52, 13, 12, 1)$ lies on line ℓ_9

$247: P_{54198} = (53, 13, 12, 1)$ lies on line ℓ_{10}

$248: P_{56654} = (13, 52, 12, 1)$ lies on line ℓ_{11}

$249: P_{56694} = (53, 52, 12, 1)$ lies on line ℓ_{12}

$250: P_{56718} = (13, 53, 12, 1)$ lies on line ℓ_{13}

$251: P_{56757} = (52, 53, 12, 1)$ lies on line ℓ_{14}

$252: P_{58229} = (52, 12, 13, 1)$ lies on line ℓ_{10}

$253: P_{58230} = (53, 12, 13, 1)$ lies on line ℓ_9

$254: P_{60749} = (12, 52, 13, 1)$ lies on line ℓ_{13}

$255: P_{60790} = (53, 52, 13, 1)$ lies on line ℓ_{14}

$256: P_{60813} = (12, 53, 13, 1)$ lies on line ℓ_{11}

$257: P_{60853} = (52, 53, 13, 1)$ lies on line ℓ_{12}

$258: P_{62519} = (54, 15, 14, 1)$ lies on line ℓ_9

$259: P_{62520} = (55, 15, 14, 1)$ lies on line ℓ_{10}

$260: P_{64976} = (15, 54, 14, 1)$ lies on line ℓ_{11}

$261: P_{65016} = (55, 54, 14, 1)$ lies on line ℓ_{12}

$262: P_{65040} = (15, 55, 14, 1)$ lies on line ℓ_{13}

$263: P_{65079} = (54, 55, 14, 1)$ lies on line ℓ_{14}

$264: P_{66551} = (54, 14, 15, 1)$ lies on line ℓ_{10}

$265: P_{66552} = (55, 14, 15, 1)$ lies on line ℓ_9

$266: P_{69071} = (14, 54, 15, 1)$ lies on line ℓ_{13}

$267: P_{69112} = (55, 54, 15, 1)$ lies on line ℓ_{14}

$268: P_{69135} = (14, 55, 15, 1)$ lies on line ℓ_{11}

$269: P_{69175} = (54, 55, 15, 1)$ lies on line ℓ_{12}

$270: P_{70825} = (40, 17, 16, 1)$ lies on line ℓ_9

$271: P_{70826} = (41, 17, 16, 1)$ lies on line ℓ_{10}

$272: P_{72274} = (17, 40, 16, 1)$ lies on line ℓ_{11}

$273: P_{72298} = (41, 40, 16, 1)$ lies on line ℓ_{12}

$274: P_{72338} = (17, 41, 16, 1)$ lies on line ℓ_{13}

$275: P_{72361} = (40, 41, 16, 1)$ lies on line ℓ_{14}

$276: P_{74857} = (40, 16, 17, 1)$ lies on line ℓ_{10}

$277: P_{74858} = (41, 16, 17, 1)$ lies on line ℓ_9

$278: P_{76369} = (16, 40, 17, 1)$ lies on line ℓ_{13}

$279: P_{76394} = (41, 40, 17, 1)$ lies on line ℓ_{14}

$280: P_{76433} = (16, 41, 17, 1)$ lies on line ℓ_{11}

$281: P_{76457} = (40, 41, 17, 1)$ lies on line ℓ_{12}

$282 : P_{79147} = (42, 19, 18, 1)$ lies on line ℓ_9

$283 : P_{79148} = (43, 19, 18, 1)$ lies on line ℓ_{10}

$284 : P_{80596} = (19, 42, 18, 1)$ lies on line ℓ_{11}

$285 : P_{80620} = (43, 42, 18, 1)$ lies on line ℓ_{12}

$286 : P_{80660} = (19, 43, 18, 1)$ lies on line ℓ_{13}

$287 : P_{80683} = (42, 43, 18, 1)$ lies on line ℓ_{14}

$288 : P_{83179} = (42, 18, 19, 1)$ lies on line ℓ_{10}

$289 : P_{83180} = (43, 18, 19, 1)$ lies on line ℓ_9

$290 : P_{84691} = (18, 42, 19, 1)$ lies on line ℓ_{13}

$291 : P_{84716} = (43, 42, 19, 1)$ lies on line ℓ_{14}

$292 : P_{84755} = (18, 43, 19, 1)$ lies on line ℓ_{11}

$293 : P_{84779} = (42, 43, 19, 1)$ lies on line ℓ_{12}

$294 : P_{87469} = (44, 21, 20, 1)$ lies on line ℓ_9

$295 : P_{87470} = (45, 21, 20, 1)$ lies on line ℓ_{10}

$296 : P_{88918} = (21, 44, 20, 1)$ lies on line ℓ_{11}

$297 : P_{88942} = (45, 44, 20, 1)$ lies on line ℓ_{12}

$298 : P_{88982} = (21, 45, 20, 1)$ lies on line ℓ_{13}

$299 : P_{89005} = (44, 45, 20, 1)$ lies on line ℓ_{14}

$300 : P_{91501} = (44, 20, 21, 1)$ lies on line ℓ_{10}

$301 : P_{91502} = (45, 20, 21, 1)$ lies on line ℓ_9

$302 : P_{93013} = (20, 44, 21, 1)$ lies on line ℓ_{13}

$303 : P_{93038} = (45, 44, 21, 1)$ lies on line ℓ_{14}

$304 : P_{93077} = (20, 45, 21, 1)$ lies on line ℓ_{11}

$305 : P_{93101} = (44, 45, 21, 1)$ lies on line ℓ_{12}

$306 : P_{95791} = (46, 23, 22, 1)$ lies on line ℓ_9

$307 : P_{95792} = (47, 23, 22, 1)$ lies on line ℓ_{10}

$308 : P_{97240} = (23, 46, 22, 1)$ lies on line ℓ_{11}

$309 : P_{97264} = (47, 46, 22, 1)$ lies on line ℓ_{12}

$310 : P_{97304} = (23, 47, 22, 1)$ lies on line ℓ_{13}

$311 : P_{97327} = (46, 47, 22, 1)$ lies on line ℓ_{14}

$312 : P_{99823} = (46, 22, 23, 1)$ lies on line ℓ_{10}

$313 : P_{99824} = (47, 22, 23, 1)$ lies on line ℓ_9

$314 : P_{101335} = (22, 46, 23, 1)$ lies on line ℓ_{13}

$315 : P_{101360} = (47, 46, 23, 1)$ lies on line ℓ_{14}

$316 : P_{101399} = (22, 47, 23, 1)$ lies on line ℓ_{11}

$317 : P_{101423} = (46, 47, 23, 1)$ lies on line ℓ_{12}

$318 : P_{104097} = (32, 25, 24, 1)$ lies on line ℓ_9

$319 : P_{104098} = (33, 25, 24, 1)$ lies on line ℓ_{10}

$320 : P_{104538} = (25, 32, 24, 1)$ lies on line ℓ_{11}

$321 : P_{104546} = (33, 32, 24, 1)$ lies on line ℓ_{12}

$322 : P_{104602} = (25, 33, 24, 1)$ lies on line ℓ_{13}

$323 : P_{104609} = (32, 33, 24, 1)$ lies on line ℓ_{14}

$324 : P_{108129} = (32, 24, 25, 1)$ lies on line ℓ_{10}

$325 : P_{108130} = (33, 24, 25, 1)$ lies on line ℓ_9

$326 : P_{108633} = (24, 32, 25, 1)$ lies on line ℓ_{13}

$327 : P_{108642} = (33, 32, 25, 1)$ lies on line ℓ_{14}

$328 : P_{108697} = (24, 33, 25, 1)$ lies on line ℓ_{11}

$329 : P_{108705} = (32, 33, 25, 1)$ lies on line ℓ_{12}

$330 : P_{112419} = (34, 27, 26, 1)$ lies on line ℓ_9

$331 : P_{112420} = (35, 27, 26, 1)$ lies on line ℓ_{10}

$332 : P_{112860} = (27, 34, 26, 1)$ lies on line ℓ_{11}

$333 : P_{112868} = (35, 34, 26, 1)$ lies on line ℓ_{12}

$334 : P_{112924} = (27, 35, 26, 1)$ lies on line ℓ_{13}

$335 : P_{112931} = (34, 35, 26, 1)$ lies on line ℓ_{14}

$336 : P_{116451} = (34, 26, 27, 1)$ lies on line ℓ_{10}

$337 : P_{116452} = (35, 26, 27, 1)$ lies on line ℓ_9

$338 : P_{116955} = (26, 34, 27, 1)$ lies on line ℓ_{13}

$339 : P_{116964} = (35, 34, 27, 1)$ lies on line ℓ_{14}

$340 : P_{117019} = (26, 35, 27, 1)$ lies on line ℓ_{11}

$341 : P_{117027} = (34, 35, 27, 1)$ lies on line ℓ_{12}

$342 : P_{120741} = (36, 29, 28, 1)$ lies on line ℓ_9

$343 : P_{120742} = (37, 29, 28, 1)$ lies on line ℓ_{10}

$344 : P_{121182} = (29, 36, 28, 1)$ lies on line ℓ_{11}

$345 : P_{121190} = (37, 36, 28, 1)$ lies on line ℓ_{12}

$346 : P_{121246} = (29, 37, 28, 1)$ lies on line ℓ_{13}

$347 : P_{121253} = (36, 37, 28, 1)$ lies on line ℓ_{14}

$348 : P_{124773} = (36, 28, 29, 1)$ lies on line ℓ_{10}

$349 : P_{124774} = (37, 28, 29, 1)$ lies on line ℓ_9

$350 : P_{125277} = (28, 36, 29, 1)$ lies on line ℓ_{13}

$351 : P_{125286} = (37, 36, 29, 1)$ lies on line ℓ_{14}

$352 : P_{125341} = (28, 37, 29, 1)$ lies on line ℓ_{11}

$353 : P_{125349} = (36, 37, 29, 1)$ lies on line ℓ_{12}

$354 : P_{129063} = (38, 31, 30, 1)$ lies on line ℓ_9

$355 : P_{129064} = (39, 31, 30, 1)$ lies on line ℓ_{10}

$356 : P_{129504} = (31, 38, 30, 1)$ lies on line ℓ_{11}

$357 : P_{129512} = (39, 38, 30, 1)$ lies on line ℓ_{12}

$358 : P_{129568} = (31, 39, 30, 1)$ lies on line ℓ_{13}

$359 : P_{129575} = (38, 39, 30, 1)$ lies on line ℓ_{14}

$360 : P_{133095} = (38, 30, 31, 1)$ lies on line ℓ_{10}

$361 : P_{133096} = (39, 30, 31, 1)$ lies on line ℓ_9

$362 : P_{133599} = (30, 38, 31, 1)$ lies on line ℓ_{13}

$363 : P_{133608} = (39, 38, 31, 1)$ lies on line ℓ_{14}

$364 : P_{133663} = (30, 39, 31, 1)$ lies on line ℓ_{11}

$365 : P_{133671} = (38, 39, 31, 1)$ lies on line ℓ_{12}

$366 : P_{136794} = (25, 24, 32, 1)$ lies on line ℓ_{12}

$367 : P_{136802} = (33, 24, 32, 1)$ lies on line ℓ_{11}

$368 : P_{136857} = (24, 25, 32, 1)$ lies on line ℓ_{14}

$369 : P_{136866} = (33, 25, 32, 1)$ lies on line ℓ_{13}

$370 : P_{137369} = (24, 33, 32, 1)$ lies on line ℓ_9

$371 : P_{137370} = (25, 33, 32, 1)$ lies on line ℓ_{10}

$372 : P_{140890} = (25, 24, 33, 1)$ lies on line ℓ_{14}

$373 : P_{140897} = (32, 24, 33, 1)$ lies on line ℓ_{13}

$374 : P_{140953} = (24, 25, 33, 1)$ lies on line ℓ_{12}

$375 : P_{140961} = (32, 25, 33, 1)$ lies on line ℓ_{11}

$376 : P_{141401} = (24, 32, 33, 1)$ lies on line ℓ_{10}

$377 : P_{141402} = (25, 32, 33, 1)$ lies on line ℓ_9

$378 : P_{145116} = (27, 26, 34, 1)$ lies on line ℓ_{12}

$379 : P_{145124} = (35, 26, 34, 1)$ lies on line ℓ_{11}

$380 : P_{145179} = (26, 27, 34, 1)$ lies on line ℓ_{14}

$381 : P_{145188} = (35, 27, 34, 1)$ lies on line ℓ_{13}

$382 : P_{145691} = (26, 35, 34, 1)$ lies on line ℓ_9

$383 : P_{145692} = (27, 35, 34, 1)$ lies on line ℓ_{10}

$384 : P_{149212} = (27, 26, 35, 1)$ lies on line ℓ_{14}

$385 : P_{149219} = (34, 26, 35, 1)$ lies on line ℓ_{13}

$386 : P_{149275} = (26, 27, 35, 1)$ lies on line ℓ_{12}

$387 : P_{149283} = (34, 27, 35, 1)$ lies on line ℓ_{11}

$388 : P_{149723} = (26, 34, 35, 1)$ lies on line ℓ_{10}

$389 : P_{149724} = (27, 34, 35, 1)$ lies on line ℓ_9

$390: P_{153438} = (29, 28, 36, 1)$ lies on line ℓ_{12}
$391: P_{153446} = (37, 28, 36, 1)$ lies on line ℓ_{11}
$392: P_{153501} = (28, 29, 36, 1)$ lies on line ℓ_{14}
$393: P_{153510} = (37, 29, 36, 1)$ lies on line ℓ_{13}
$394: P_{154013} = (28, 37, 36, 1)$ lies on line ℓ_{9}
$395: P_{154014} = (29, 37, 36, 1)$ lies on line ℓ_{10}
$396: P_{157534} = (29, 28, 37, 1)$ lies on line ℓ_{14}
$397: P_{157541} = (36, 28, 37, 1)$ lies on line ℓ_{13}
$398: P_{157597} = (28, 29, 37, 1)$ lies on line ℓ_{12}
$399: P_{157605} = (36, 29, 37, 1)$ lies on line ℓ_{11}
$400: P_{158045} = (28, 36, 37, 1)$ lies on line ℓ_{10}
$401: P_{158046} = (29, 36, 37, 1)$ lies on line ℓ_{9}
$402: P_{161760} = (31, 30, 38, 1)$ lies on line ℓ_{12}
$403: P_{161768} = (39, 30, 38, 1)$ lies on line ℓ_{11}
$404: P_{161823} = (30, 31, 38, 1)$ lies on line ℓ_{14}
$405: P_{161832} = (39, 31, 38, 1)$ lies on line ℓ_{13}
$406: P_{162335} = (30, 39, 38, 1)$ lies on line ℓ_{9}
$407: P_{162336} = (31, 39, 38, 1)$ lies on line ℓ_{10}
$408: P_{165856} = (31, 30, 39, 1)$ lies on line ℓ_{14}
$409: P_{165863} = (38, 30, 39, 1)$ lies on line ℓ_{13}
$410: P_{165919} = (30, 31, 39, 1)$ lies on line ℓ_{12}
$411: P_{165927} = (38, 31, 39, 1)$ lies on line ℓ_{11}
$412: P_{166367} = (30, 38, 39, 1)$ lies on line ℓ_{10}
$413: P_{166368} = (31, 38, 39, 1)$ lies on line ℓ_{9}
$414: P_{169042} = (17, 16, 40, 1)$ lies on line ℓ_{12}
$415: P_{169066} = (41, 16, 40, 1)$ lies on line ℓ_{11}
$416: P_{169105} = (16, 17, 40, 1)$ lies on line ℓ_{14}
$417: P_{169130} = (41, 17, 40, 1)$ lies on line ℓ_{13}
$418: P_{170641} = (16, 41, 40, 1)$ lies on line ℓ_{9}
$419: P_{170642} = (17, 41, 40, 1)$ lies on line ℓ_{10}
$420: P_{173138} = (17, 16, 41, 1)$ lies on line ℓ_{14}
$421: P_{173161} = (40, 16, 41, 1)$ lies on line ℓ_{13}
$422: P_{173201} = (16, 17, 41, 1)$ lies on line ℓ_{12}
$423: P_{173225} = (40, 17, 41, 1)$ lies on line ℓ_{11}
$424: P_{174673} = (16, 40, 41, 1)$ lies on line ℓ_{10}
$425: P_{174674} = (17, 40, 41, 1)$ lies on line ℓ_{9}
$426: P_{177364} = (19, 18, 42, 1)$ lies on line ℓ_{12}
$427: P_{177388} = (43, 18, 42, 1)$ lies on line ℓ_{11}
$428: P_{177427} = (18, 19, 42, 1)$ lies on line ℓ_{14}
$429: P_{177452} = (43, 19, 42, 1)$ lies on line ℓ_{13}
$430: P_{178963} = (18, 43, 42, 1)$ lies on line ℓ_{9}
$431: P_{178964} = (19, 43, 42, 1)$ lies on line ℓ_{10}
$432: P_{181460} = (19, 18, 43, 1)$ lies on line ℓ_{14}
$433: P_{181483} = (42, 18, 43, 1)$ lies on line ℓ_{13}
$434: P_{181523} = (18, 19, 43, 1)$ lies on line ℓ_{12}
$435: P_{181547} = (42, 19, 43, 1)$ lies on line ℓ_{11}
$436: P_{182995} = (18, 42, 43, 1)$ lies on line ℓ_{10}
$437: P_{182996} = (19, 42, 43, 1)$ lies on line ℓ_{9}
$438: P_{185686} = (21, 20, 44, 1)$ lies on line ℓ_{12}
$439: P_{185710} = (45, 20, 44, 1)$ lies on line ℓ_{11}
$440: P_{185749} = (20, 21, 44, 1)$ lies on line ℓ_{14}
$441: P_{185774} = (45, 21, 44, 1)$ lies on line ℓ_{13}
$442: P_{187285} = (20, 45, 44, 1)$ lies on line ℓ_{9}
$443: P_{187286} = (21, 45, 44, 1)$ lies on line ℓ_{10}

$444: P_{189782} = (21, 20, 45, 1)$ lies on line ℓ_{14}
$445: P_{189805} = (44, 20, 45, 1)$ lies on line ℓ_{13}
$446: P_{189845} = (20, 21, 45, 1)$ lies on line ℓ_{12}
$447: P_{189869} = (44, 21, 45, 1)$ lies on line ℓ_{11}
$448: P_{191317} = (20, 44, 45, 1)$ lies on line ℓ_{10}
$449: P_{191318} = (21, 44, 45, 1)$ lies on line ℓ_{9}
$450: P_{194008} = (23, 22, 46, 1)$ lies on line ℓ_{12}
$451: P_{194032} = (47, 22, 46, 1)$ lies on line ℓ_{11}
$452: P_{194071} = (22, 23, 46, 1)$ lies on line ℓ_{14}
$453: P_{194096} = (47, 23, 46, 1)$ lies on line ℓ_{13}
$454: P_{195607} = (22, 47, 46, 1)$ lies on line ℓ_{9}
$455: P_{195608} = (23, 47, 46, 1)$ lies on line ℓ_{10}
$456: P_{198104} = (23, 22, 47, 1)$ lies on line ℓ_{14}
$457: P_{198127} = (46, 22, 47, 1)$ lies on line ℓ_{13}
$458: P_{198167} = (22, 23, 47, 1)$ lies on line ℓ_{12}
$459: P_{198191} = (46, 23, 47, 1)$ lies on line ℓ_{11}
$460: P_{199639} = (22, 46, 47, 1)$ lies on line ℓ_{10}
$461: P_{199640} = (23, 46, 47, 1)$ lies on line ℓ_{9}
$462: P_{201290} = (9, 8, 48, 1)$ lies on line ℓ_{12}
$463: P_{201330} = (49, 8, 48, 1)$ lies on line ℓ_{11}
$464: P_{201353} = (8, 9, 48, 1)$ lies on line ℓ_{14}
$465: P_{201394} = (49, 9, 48, 1)$ lies on line ℓ_{13}
$466: P_{203913} = (8, 49, 48, 1)$ lies on line ℓ_{9}
$467: P_{203914} = (9, 49, 48, 1)$ lies on line ℓ_{10}
$468: P_{205386} = (9, 8, 49, 1)$ lies on line ℓ_{14}
$469: P_{205425} = (48, 8, 49, 1)$ lies on line ℓ_{13}
$470: P_{205449} = (8, 9, 49, 1)$ lies on line ℓ_{12}
$471: P_{205489} = (48, 9, 49, 1)$ lies on line ℓ_{11}
$472: P_{207945} = (8, 48, 49, 1)$ lies on line ℓ_{10}
$473: P_{207946} = (9, 48, 49, 1)$ lies on line ℓ_{9}
$474: P_{209612} = (11, 10, 50, 1)$ lies on line ℓ_{12}
$475: P_{209652} = (51, 10, 50, 1)$ lies on line ℓ_{11}
$476: P_{209675} = (10, 11, 50, 1)$ lies on line ℓ_{14}
$477: P_{209716} = (51, 11, 50, 1)$ lies on line ℓ_{13}
$478: P_{212235} = (10, 51, 50, 1)$ lies on line ℓ_{9}
$479: P_{212236} = (11, 51, 50, 1)$ lies on line ℓ_{10}
$480: P_{213708} = (11, 10, 51, 1)$ lies on line ℓ_{14}
$481: P_{213747} = (50, 10, 51, 1)$ lies on line ℓ_{13}
$482: P_{213771} = (10, 11, 51, 1)$ lies on line ℓ_{12}
$483: P_{213811} = (50, 11, 51, 1)$ lies on line ℓ_{11}
$484: P_{216267} = (10, 50, 51, 1)$ lies on line ℓ_{10}
$485: P_{216268} = (11, 50, 51, 1)$ lies on line ℓ_{9}
$486: P_{217934} = (13, 12, 52, 1)$ lies on line ℓ_{12}
$487: P_{217974} = (53, 12, 52, 1)$ lies on line ℓ_{11}
$488: P_{217997} = (12, 13, 52, 1)$ lies on line ℓ_{14}
$489: P_{218038} = (53, 13, 52, 1)$ lies on line ℓ_{13}
$490: P_{220557} = (12, 53, 52, 1)$ lies on line ℓ_{9}
$491: P_{220558} = (13, 53, 52, 1)$ lies on line ℓ_{10}
$492: P_{222030} = (13, 12, 53, 1)$ lies on line ℓ_{14}
$493: P_{222069} = (52, 12, 53, 1)$ lies on line ℓ_{13}
$494: P_{222093} = (12, 13, 53, 1)$ lies on line ℓ_{12}
$495: P_{222133} = (52, 13, 53, 1)$ lies on line ℓ_{11}
$496: P_{224589} = (12, 52, 53, 1)$ lies on line ℓ_{10}
$497: P_{224590} = (13, 52, 53, 1)$ lies on line ℓ_{9}

$498: P_{226256} = (15, 14, 54, 1)$ lies on line ℓ_{12}
$499: P_{226296} = (55, 14, 54, 1)$ lies on line ℓ_{11}
$500: P_{226319} = (14, 15, 54, 1)$ lies on line ℓ_{14}
$501: P_{226360} = (55, 15, 54, 1)$ lies on line ℓ_{13}
$502: P_{228879} = (14, 55, 54, 1)$ lies on line ℓ_9
$503: P_{228880} = (15, 55, 54, 1)$ lies on line ℓ_{10}
$504: P_{230352} = (15, 14, 55, 1)$ lies on line ℓ_{14}
$505: P_{230391} = (54, 14, 55, 1)$ lies on line ℓ_{13}
$506: P_{230415} = (14, 15, 55, 1)$ lies on line ℓ_{12}
$507: P_{230455} = (54, 15, 55, 1)$ lies on line ℓ_{11}
$508: P_{232911} = (14, 54, 55, 1)$ lies on line ℓ_{10}
$509: P_{232912} = (15, 54, 55, 1)$ lies on line ℓ_9
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$512: P_{233541} = (4, 0, 56, 1)$ lies on line ℓ_1
$513: P_{233542} = (5, 0, 56, 1)$ lies on line ℓ_1
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$515: P_{233544} = (7, 0, 56, 1)$ lies on line ℓ_1
$516: P_{233545} = (8, 0, 56, 1)$ lies on line ℓ_1
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$523: P_{233552} = (15, 0, 56, 1)$ lies on line ℓ_1
$524: P_{233553} = (16, 0, 56, 1)$ lies on line ℓ_1
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$526: P_{233555} = (18, 0, 56, 1)$ lies on line ℓ_1
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$530: P_{233559} = (22, 0, 56, 1)$ lies on line ℓ_1
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$533: P_{233562} = (25, 0, 56, 1)$ lies on line ℓ_1
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$535: P_{233564} = (27, 0, 56, 1)$ lies on line ℓ_1
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$537: P_{233566} = (29, 0, 56, 1)$ lies on line ℓ_1
$538: P_{233567} = (30, 0, 56, 1)$ lies on line ℓ_1
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$540: P_{233569} = (32, 0, 56, 1)$ lies on line ℓ_1
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$543: P_{233572} = (35, 0, 56, 1)$ lies on line ℓ_1
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$547: P_{233576} = (39, 0, 56, 1)$ lies on line ℓ_1
$548: P_{233577} = (40, 0, 56, 1)$ lies on line ℓ_1
$549: P_{233578} = (41, 0, 56, 1)$ lies on line ℓ_1
$550: P_{233579} = (42, 0, 56, 1)$ lies on line ℓ_1
$551: P_{233580} = (43, 0, 56, 1)$ lies on line ℓ_1

$552: P_{233581} = (44, 0, 56, 1)$ lies on line ℓ_1
$553: P_{233582} = (45, 0, 56, 1)$ lies on line ℓ_1
$554: P_{233583} = (46, 0, 56, 1)$ lies on line ℓ_1
$555: P_{233584} = (47, 0, 56, 1)$ lies on line ℓ_1
$556: P_{233585} = (48, 0, 56, 1)$ lies on line ℓ_1
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$558: P_{233587} = (50, 0, 56, 1)$ lies on line ℓ_1
$559: P_{233588} = (51, 0, 56, 1)$ lies on line ℓ_1
$560: P_{233589} = (52, 0, 56, 1)$ lies on line ℓ_1
$561: P_{233590} = (53, 0, 56, 1)$ lies on line ℓ_1
$562: P_{233591} = (54, 0, 56, 1)$ lies on line ℓ_1
$563: P_{233592} = (55, 0, 56, 1)$ lies on line ℓ_1
$564: P_{233595} = (58, 0, 56, 1)$ lies on line ℓ_1
$565: P_{233596} = (59, 0, 56, 1)$ lies on line ℓ_1
$566: P_{233597} = (60, 0, 56, 1)$ lies on line ℓ_1
$567: P_{233598} = (61, 0, 56, 1)$ lies on line ℓ_1
$568: P_{233599} = (62, 0, 56, 1)$ lies on line ℓ_1
$569: P_{233600} = (63, 0, 56, 1)$ lies on line ℓ_1
$570: P_{233665} = (0, 2, 56, 1)$ lies on line ℓ_4
$571: P_{233723} = (58, 2, 56, 1)$ lies on line ℓ_7
$572: P_{233729} = (0, 3, 56, 1)$ lies on line ℓ_4
$573: P_{233788} = (59, 3, 56, 1)$ lies on line ℓ_7
$574: P_{233793} = (0, 4, 56, 1)$ lies on line ℓ_4
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$576: P_{233857} = (0, 5, 56, 1)$ lies on line ℓ_4
$577: P_{233918} = (61, 5, 56, 1)$ lies on line ℓ_7
$578: P_{233921} = (0, 6, 56, 1)$ lies on line ℓ_4
$579: P_{233983} = (62, 6, 56, 1)$ lies on line ℓ_7
$580: P_{233985} = (0, 7, 56, 1)$ lies on line ℓ_4
$581: P_{234048} = (63, 7, 56, 1)$ lies on line ℓ_7
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$583: P_{234097} = (48, 8, 56, 1)$ lies on line ℓ_7
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$585: P_{234162} = (49, 9, 56, 1)$ lies on line ℓ_7
$586: P_{234177} = (0, 10, 56, 1)$ lies on line ℓ_4
$587: P_{234227} = (50, 10, 56, 1)$ lies on line ℓ_7
$588: P_{234241} = (0, 11, 56, 1)$ lies on line ℓ_4
$589: P_{234292} = (51, 11, 56, 1)$ lies on line ℓ_7
$590: P_{234305} = (0, 12, 56, 1)$ lies on line ℓ_4
$591: P_{234357} = (52, 12, 56, 1)$ lies on line ℓ_7
$592: P_{234369} = (0, 13, 56, 1)$ lies on line ℓ_4
$593: P_{234422} = (53, 13, 56, 1)$ lies on line ℓ_7
$594: P_{234433} = (0, 14, 56, 1)$ lies on line ℓ_4
$595: P_{234487} = (54, 14, 56, 1)$ lies on line ℓ_7
$596: P_{234497} = (0, 15, 56, 1)$ lies on line ℓ_4
$597: P_{234552} = (55, 15, 56, 1)$ lies on line ℓ_7
$598: P_{234561} = (0, 16, 56, 1)$ lies on line ℓ_4
$599: P_{234601} = (40, 16, 56, 1)$ lies on line ℓ_7
$600: P_{234625} = (0, 17, 56, 1)$ lies on line ℓ_4
$601: P_{234666} = (41, 17, 56, 1)$ lies on line ℓ_7
$602: P_{234689} = (0, 18, 56, 1)$ lies on line ℓ_4
$603: P_{234731} = (42, 18, 56, 1)$ lies on line ℓ_7
$604: P_{234753} = (0, 19, 56, 1)$ lies on line ℓ_4
$605: P_{234796} = (43, 19, 56, 1)$ lies on line ℓ_7

$606: P_{234817} = (0, 20, 56, 1)$ lies on line ℓ_4
$607: P_{234861} = (44, 20, 56, 1)$ lies on line ℓ_7
$608: P_{234881} = (0, 21, 56, 1)$ lies on line ℓ_4
$609: P_{234926} = (45, 21, 56, 1)$ lies on line ℓ_7
$610: P_{234945} = (0, 22, 56, 1)$ lies on line ℓ_4
$611: P_{234991} = (46, 22, 56, 1)$ lies on line ℓ_7
$612: P_{235009} = (0, 23, 56, 1)$ lies on line ℓ_4
$613: P_{235056} = (47, 23, 56, 1)$ lies on line ℓ_7
$614: P_{235073} = (0, 24, 56, 1)$ lies on line ℓ_4
$615: P_{235105} = (32, 24, 56, 1)$ lies on line ℓ_7
$616: P_{235137} = (0, 25, 56, 1)$ lies on line ℓ_4
$617: P_{235170} = (33, 25, 56, 1)$ lies on line ℓ_7
$618: P_{235201} = (0, 26, 56, 1)$ lies on line ℓ_4
$619: P_{235235} = (34, 26, 56, 1)$ lies on line ℓ_7
$620: P_{235265} = (0, 27, 56, 1)$ lies on line ℓ_4
$621: P_{235300} = (35, 27, 56, 1)$ lies on line ℓ_7
$622: P_{235329} = (0, 28, 56, 1)$ lies on line ℓ_4
$623: P_{235365} = (36, 28, 56, 1)$ lies on line ℓ_7
$624: P_{235393} = (0, 29, 56, 1)$ lies on line ℓ_4
$625: P_{235430} = (37, 29, 56, 1)$ lies on line ℓ_7
$626: P_{235457} = (0, 30, 56, 1)$ lies on line ℓ_4
$627: P_{235495} = (38, 30, 56, 1)$ lies on line ℓ_7
$628: P_{235521} = (0, 31, 56, 1)$ lies on line ℓ_4
$629: P_{235560} = (39, 31, 56, 1)$ lies on line ℓ_7
$630: P_{235585} = (0, 32, 56, 1)$ lies on line ℓ_4
$631: P_{235609} = (24, 32, 56, 1)$ lies on line ℓ_7
$632: P_{235649} = (0, 33, 56, 1)$ lies on line ℓ_4
$633: P_{235674} = (25, 33, 56, 1)$ lies on line ℓ_7
$634: P_{235713} = (0, 34, 56, 1)$ lies on line ℓ_4
$635: P_{235739} = (26, 34, 56, 1)$ lies on line ℓ_7
$636: P_{235777} = (0, 35, 56, 1)$ lies on line ℓ_4
$637: P_{235804} = (27, 35, 56, 1)$ lies on line ℓ_7
$638: P_{235841} = (0, 36, 56, 1)$ lies on line ℓ_4
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$641: P_{235934} = (29, 37, 56, 1)$ lies on line ℓ_7
$642: P_{235969} = (0, 38, 56, 1)$ lies on line ℓ_4
$643: P_{235999} = (30, 38, 56, 1)$ lies on line ℓ_7
$644: P_{236033} = (0, 39, 56, 1)$ lies on line ℓ_4
$645: P_{236064} = (31, 39, 56, 1)$ lies on line ℓ_7
$646: P_{236097} = (0, 40, 56, 1)$ lies on line ℓ_4
$647: P_{236113} = (16, 40, 56, 1)$ lies on line ℓ_7
$648: P_{236161} = (0, 41, 56, 1)$ lies on line ℓ_4
$649: P_{236178} = (17, 41, 56, 1)$ lies on line ℓ_7
$650: P_{236225} = (0, 42, 56, 1)$ lies on line ℓ_4
$651: P_{236243} = (18, 42, 56, 1)$ lies on line ℓ_7
$652: P_{236289} = (0, 43, 56, 1)$ lies on line ℓ_4
$653: P_{236308} = (19, 43, 56, 1)$ lies on line ℓ_7
$654: P_{236353} = (0, 44, 56, 1)$ lies on line ℓ_4
$655: P_{236373} = (20, 44, 56, 1)$ lies on line ℓ_7
$656: P_{236417} = (0, 45, 56, 1)$ lies on line ℓ_4
$657: P_{236438} = (21, 45, 56, 1)$ lies on line ℓ_7
$658: P_{236481} = (0, 46, 56, 1)$ lies on line ℓ_4
$659: P_{236503} = (22, 46, 56, 1)$ lies on line ℓ_7

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$661: P_{236568} = (23, 47, 56, 1)$ lies on line ℓ_7
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$664: P_{236673} = (0, 49, 56, 1)$ lies on line ℓ_4
$665: P_{236682} = (9, 49, 56, 1)$ lies on line ℓ_7
$666: P_{236737} = (0, 50, 56, 1)$ lies on line ℓ_4
$667: P_{236747} = (10, 50, 56, 1)$ lies on line ℓ_7
$668: P_{236801} = (0, 51, 56, 1)$ lies on line ℓ_4
$669: P_{236812} = (11, 51, 56, 1)$ lies on line ℓ_7
$670: P_{236865} = (0, 52, 56, 1)$ lies on line ℓ_4
$671: P_{236877} = (12, 52, 56, 1)$ lies on line ℓ_7
$672: P_{236929} = (0, 53, 56, 1)$ lies on line ℓ_4
$673: P_{236942} = (13, 53, 56, 1)$ lies on line ℓ_7
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$677: P_{237072} = (15, 55, 56, 1)$ lies on line ℓ_7
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$682: P_{237377} = (0, 60, 56, 1)$ lies on line ℓ_4
$683: P_{237381} = (4, 60, 56, 1)$ lies on line ℓ_7
$684: P_{237441} = (0, 61, 56, 1)$ lies on line ℓ_4
$685: P_{237446} = (5, 61, 56, 1)$ lies on line ℓ_7
$686: P_{237505} = (0, 62, 56, 1)$ lies on line ℓ_4
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$688: P_{237569} = (0, 63, 56, 1)$ lies on line ℓ_4
$689: P_{237576} = (7, 63, 56, 1)$ lies on line ℓ_7
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$691: P_{237636} = (3, 0, 57, 1)$ lies on line ℓ_2
$692: P_{237637} = (4, 0, 57, 1)$ lies on line ℓ_2
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$694: P_{237639} = (6, 0, 57, 1)$ lies on line ℓ_2
$695: P_{237640} = (7, 0, 57, 1)$ lies on line ℓ_2
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$697: P_{237642} = (9, 0, 57, 1)$ lies on line ℓ_2
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$699: P_{237644} = (11, 0, 57, 1)$ lies on line ℓ_2
$700: P_{237645} = (12, 0, 57, 1)$ lies on line ℓ_2
$701: P_{237646} = (13, 0, 57, 1)$ lies on line ℓ_2
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$703: P_{237648} = (15, 0, 57, 1)$ lies on line ℓ_2
$704: P_{237649} = (16, 0, 57, 1)$ lies on line ℓ_2
$705: P_{237650} = (17, 0, 57, 1)$ lies on line ℓ_2
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$707: P_{237652} = (19, 0, 57, 1)$ lies on line ℓ_2
$708: P_{237653} = (20, 0, 57, 1)$ lies on line ℓ_2
$709: P_{237654} = (21, 0, 57, 1)$ lies on line ℓ_2
$710: P_{237655} = (22, 0, 57, 1)$ lies on line ℓ_2
$711: P_{237656} = (23, 0, 57, 1)$ lies on line ℓ_2
$712: P_{237657} = (24, 0, 57, 1)$ lies on line ℓ_2
$713: P_{237658} = (25, 0, 57, 1)$ lies on line ℓ_2

714 : $P_{237659} = (26, 0, 57, 1)$ lies on line ℓ_2

715 : $P_{237660} = (27, 0, 57, 1)$ lies on line ℓ_2

716 : $P_{237661} = (28, 0, 57, 1)$ lies on line ℓ_2

717 : $P_{237662} = (29, 0, 57, 1)$ lies on line ℓ_2

718 : $P_{237663} = (30, 0, 57, 1)$ lies on line ℓ_2

719 : $P_{237664} = (31, 0, 57, 1)$ lies on line ℓ_2

720 : $P_{237665} = (32, 0, 57, 1)$ lies on line ℓ_2

721 : $P_{237666} = (33, 0, 57, 1)$ lies on line ℓ_2

722 : $P_{237667} = (34, 0, 57, 1)$ lies on line ℓ_2

723 : $P_{237668} = (35, 0, 57, 1)$ lies on line ℓ_2

724 : $P_{237669} = (36, 0, 57, 1)$ lies on line ℓ_2

725 : $P_{237670} = (37, 0, 57, 1)$ lies on line ℓ_2

726 : $P_{237671} = (38, 0, 57, 1)$ lies on line ℓ_2

727 : $P_{237672} = (39, 0, 57, 1)$ lies on line ℓ_2

728 : $P_{237673} = (40, 0, 57, 1)$ lies on line ℓ_2

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731 : $P_{237676} = (43, 0, 57, 1)$ lies on line ℓ_2

732 : $P_{237677} = (44, 0, 57, 1)$ lies on line ℓ_2

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734 : $P_{237679} = (46, 0, 57, 1)$ lies on line ℓ_2

735 : $P_{237680} = (47, 0, 57, 1)$ lies on line ℓ_2

736 : $P_{237681} = (48, 0, 57, 1)$ lies on line ℓ_2

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745 : $P_{237692} = (59, 0, 57, 1)$ lies on line ℓ_2

746 : $P_{237693} = (60, 0, 57, 1)$ lies on line ℓ_2

747 : $P_{237694} = (61, 0, 57, 1)$ lies on line ℓ_2

748 : $P_{237695} = (62, 0, 57, 1)$ lies on line ℓ_2

749 : $P_{237696} = (63, 0, 57, 1)$ lies on line ℓ_2

750 : $P_{237761} = (0, 2, 57, 1)$ lies on line ℓ_5

751 : $P_{237820} = (59, 2, 57, 1)$ lies on line ℓ_8

752 : $P_{237825} = (0, 3, 57, 1)$ lies on line ℓ_5

753 : $P_{237883} = (58, 3, 57, 1)$ lies on line ℓ_8

754 : $P_{237889} = (0, 4, 57, 1)$ lies on line ℓ_5

755 : $P_{237950} = (61, 4, 57, 1)$ lies on line ℓ_8

756 : $P_{237953} = (0, 5, 57, 1)$ lies on line ℓ_5

757 : $P_{238013} = (60, 5, 57, 1)$ lies on line ℓ_8

758 : $P_{238017} = (0, 6, 57, 1)$ lies on line ℓ_5

759 : $P_{238080} = (63, 6, 57, 1)$ lies on line ℓ_8

760 : $P_{238081} = (0, 7, 57, 1)$ lies on line ℓ_5

761 : $P_{238143} = (62, 7, 57, 1)$ lies on line ℓ_8

762 : $P_{238145} = (0, 8, 57, 1)$ lies on line ℓ_5

763 : $P_{238194} = (49, 8, 57, 1)$ lies on line ℓ_8

764 : $P_{238209} = (0, 9, 57, 1)$ lies on line ℓ_5

765 : $P_{238257} = (48, 9, 57, 1)$ lies on line ℓ_8

766 : $P_{238273} = (0, 10, 57, 1)$ lies on line ℓ_5

767 : $P_{238324} = (51, 10, 57, 1)$ lies on line ℓ_8

768 : $P_{238337} = (0, 11, 57, 1)$ lies on line ℓ_5

769 : $P_{238387} = (50, 11, 57, 1)$ lies on line ℓ_8

770 : $P_{238401} = (0, 12, 57, 1)$ lies on line ℓ_5

771 : $P_{238454} = (53, 12, 57, 1)$ lies on line ℓ_8

772 : $P_{238465} = (0, 13, 57, 1)$ lies on line ℓ_5

773 : $P_{238517} = (52, 13, 57, 1)$ lies on line ℓ_8

774 : $P_{238529} = (0, 14, 57, 1)$ lies on line ℓ_5

775 : $P_{238584} = (55, 14, 57, 1)$ lies on line ℓ_8

776 : $P_{238593} = (0, 15, 57, 1)$ lies on line ℓ_5

777 : $P_{238647} = (54, 15, 57, 1)$ lies on line ℓ_8

778 : $P_{238657} = (0, 16, 57, 1)$ lies on line ℓ_5

779 : $P_{238698} = (41, 16, 57, 1)$ lies on line ℓ_8

780 : $P_{238721} = (0, 17, 57, 1)$ lies on line ℓ_5

781 : $P_{238761} = (40, 17, 57, 1)$ lies on line ℓ_8

782 : $P_{238785} = (0, 18, 57, 1)$ lies on line ℓ_5

783 : $P_{238828} = (43, 18, 57, 1)$ lies on line ℓ_8

784 : $P_{238849} = (0, 19, 57, 1)$ lies on line ℓ_5

785 : $P_{238891} = (42, 19, 57, 1)$ lies on line ℓ_8

786 : $P_{238913} = (0, 20, 57, 1)$ lies on line ℓ_5

787 : $P_{238958} = (45, 20, 57, 1)$ lies on line ℓ_8

788 : $P_{238977} = (0, 21, 57, 1)$ lies on line ℓ_5

789 : $P_{239021} = (44, 21, 57, 1)$ lies on line ℓ_8

790 : $P_{239041} = (0, 22, 57, 1)$ lies on line ℓ_5

791 : $P_{239088} = (47, 22, 57, 1)$ lies on line ℓ_8

792 : $P_{239105} = (0, 23, 57, 1)$ lies on line ℓ_5

793 : $P_{239151} = (46, 23, 57, 1)$ lies on line ℓ_8

794 : $P_{239169} = (0, 24, 57, 1)$ lies on line ℓ_5

795 : $P_{239202} = (33, 24, 57, 1)$ lies on line ℓ_8

796 : $P_{239233} = (0, 25, 57, 1)$ lies on line ℓ_5

797 : $P_{239265} = (32, 25, 57, 1)$ lies on line ℓ_8

798 : $P_{239297} = (0, 26, 57, 1)$ lies on line ℓ_5

799 : $P_{239332} = (35, 26, 57, 1)$ lies on line ℓ_8

800 : $P_{239361} = (0, 27, 57, 1)$ lies on line ℓ_5

801 : $P_{239395} = (34, 27, 57, 1)$ lies on line ℓ_8

802 : $P_{239425} = (0, 28, 57, 1)$ lies on line ℓ_5

803 : $P_{239462} = (37, 28, 57, 1)$ lies on line ℓ_8

804 : $P_{239489} = (0, 29, 57, 1)$ lies on line ℓ_5

805 : $P_{239525} = (36, 29, 57, 1)$ lies on line ℓ_8

806 : $P_{239553} = (0, 30, 57, 1)$ lies on line ℓ_5

807 : $P_{239592} = (39, 30, 57, 1)$ lies on line ℓ_8

808 : $P_{239617} = (0, 31, 57, 1)$ lies on line ℓ_5

809 : $P_{239655} = (38, 31, 57, 1)$ lies on line ℓ_8

810 : $P_{239681} = (0, 32, 57, 1)$ lies on line ℓ_5

811 : $P_{239706} = (25, 32, 57, 1)$ lies on line ℓ_8

812 : $P_{239745} = (0, 33, 57, 1)$ lies on line ℓ_5

813 : $P_{239769} = (24, 33, 57, 1)$ lies on line ℓ_8

814 : $P_{239809} = (0, 34, 57, 1)$ lies on line ℓ_5

815 : $P_{239836} = (27, 34, 57, 1)$ lies on line ℓ_8

816 : $P_{239873} = (0, 35, 57, 1)$ lies on line ℓ_5

817 : $P_{239899} = (26, 35, 57, 1)$ lies on line ℓ_8

818 : $P_{239937} = (0, 36, 57, 1)$ lies on line ℓ_5

819 : $P_{239966} = (29, 36, 57, 1)$ lies on line ℓ_8

820 : $P_{240001} = (0, 37, 57, 1)$ lies on line ℓ_5

821 : $P_{240029} = (28, 37, 57, 1)$ lies on line ℓ_8

822 : $P_{240065} = (0, 38, 57, 1)$ lies on line ℓ_5
823 : $P_{240096} = (31, 38, 57, 1)$ lies on line ℓ_8
824 : $P_{240129} = (0, 39, 57, 1)$ lies on line ℓ_5
825 : $P_{240159} = (30, 39, 57, 1)$ lies on line ℓ_8
826 : $P_{240193} = (0, 40, 57, 1)$ lies on line ℓ_5
827 : $P_{240210} = (17, 40, 57, 1)$ lies on line ℓ_8
828 : $P_{240257} = (0, 41, 57, 1)$ lies on line ℓ_5
829 : $P_{240273} = (16, 41, 57, 1)$ lies on line ℓ_8
830 : $P_{240321} = (0, 42, 57, 1)$ lies on line ℓ_5
831 : $P_{240340} = (19, 42, 57, 1)$ lies on line ℓ_8
832 : $P_{240385} = (0, 43, 57, 1)$ lies on line ℓ_5
833 : $P_{240403} = (18, 43, 57, 1)$ lies on line ℓ_8
834 : $P_{240449} = (0, 44, 57, 1)$ lies on line ℓ_5
835 : $P_{240470} = (21, 44, 57, 1)$ lies on line ℓ_8
836 : $P_{240513} = (0, 45, 57, 1)$ lies on line ℓ_5
837 : $P_{240533} = (20, 45, 57, 1)$ lies on line ℓ_8
838 : $P_{240577} = (0, 46, 57, 1)$ lies on line ℓ_5
839 : $P_{240600} = (23, 46, 57, 1)$ lies on line ℓ_8
840 : $P_{240641} = (0, 47, 57, 1)$ lies on line ℓ_5
841 : $P_{240663} = (22, 47, 57, 1)$ lies on line ℓ_8
842 : $P_{240705} = (0, 48, 57, 1)$ lies on line ℓ_5
843 : $P_{240714} = (9, 48, 57, 1)$ lies on line ℓ_8
844 : $P_{240769} = (0, 49, 57, 1)$ lies on line ℓ_5
845 : $P_{240777} = (8, 49, 57, 1)$ lies on line ℓ_8
846 : $P_{240833} = (0, 50, 57, 1)$ lies on line ℓ_5
847 : $P_{240844} = (11, 50, 57, 1)$ lies on line ℓ_8
848 : $P_{240897} = (0, 51, 57, 1)$ lies on line ℓ_5
849 : $P_{240907} = (10, 51, 57, 1)$ lies on line ℓ_8
850 : $P_{240961} = (0, 52, 57, 1)$ lies on line ℓ_5
851 : $P_{240974} = (13, 52, 57, 1)$ lies on line ℓ_8
852 : $P_{241025} = (0, 53, 57, 1)$ lies on line ℓ_5
853 : $P_{241037} = (12, 53, 57, 1)$ lies on line ℓ_8
854 : $P_{241089} = (0, 54, 57, 1)$ lies on line ℓ_5
855 : $P_{241104} = (15, 54, 57, 1)$ lies on line ℓ_8
856 : $P_{241153} = (0, 55, 57, 1)$ lies on line ℓ_5
857 : $P_{241167} = (14, 55, 57, 1)$ lies on line ℓ_8
858 : $P_{241345} = (0, 58, 57, 1)$ lies on line ℓ_5
859 : $P_{241348} = (3, 58, 57, 1)$ lies on line ℓ_8
860 : $P_{241409} = (0, 59, 57, 1)$ lies on line ℓ_5
861 : $P_{241411} = (2, 59, 57, 1)$ lies on line ℓ_8
862 : $P_{241473} = (0, 60, 57, 1)$ lies on line ℓ_5
863 : $P_{241478} = (5, 60, 57, 1)$ lies on line ℓ_8
864 : $P_{241537} = (0, 61, 57, 1)$ lies on line ℓ_5

865 : $P_{241541} = (4, 61, 57, 1)$ lies on line ℓ_8
866 : $P_{241601} = (0, 62, 57, 1)$ lies on line ℓ_5
867 : $P_{241608} = (7, 62, 57, 1)$ lies on line ℓ_8
868 : $P_{241665} = (0, 63, 57, 1)$ lies on line ℓ_5
869 : $P_{241671} = (6, 63, 57, 1)$ lies on line ℓ_8
870 : $P_{241860} = (3, 2, 58, 1)$ lies on line ℓ_{12}
871 : $P_{241916} = (59, 2, 58, 1)$ lies on line ℓ_{11}
872 : $P_{241923} = (2, 3, 58, 1)$ lies on line ℓ_{14}
873 : $P_{241980} = (59, 3, 58, 1)$ lies on line ℓ_{13}
874 : $P_{245507} = (2, 59, 58, 1)$ lies on line ℓ_9
875 : $P_{245508} = (3, 59, 58, 1)$ lies on line ℓ_{10}
876 : $P_{245956} = (3, 2, 59, 1)$ lies on line ℓ_{14}
877 : $P_{246011} = (58, 2, 59, 1)$ lies on line ℓ_{13}
878 : $P_{246019} = (2, 3, 59, 1)$ lies on line ℓ_{12}
879 : $P_{246075} = (58, 3, 59, 1)$ lies on line ℓ_{11}
880 : $P_{249539} = (2, 58, 59, 1)$ lies on line ℓ_{10}
881 : $P_{249540} = (3, 58, 59, 1)$ lies on line ℓ_9
882 : $P_{250182} = (5, 4, 60, 1)$ lies on line ℓ_{12}
883 : $P_{250238} = (61, 4, 60, 1)$ lies on line ℓ_{11}
884 : $P_{250245} = (4, 5, 60, 1)$ lies on line ℓ_{14}
885 : $P_{250302} = (61, 5, 60, 1)$ lies on line ℓ_{13}
886 : $P_{253829} = (4, 61, 60, 1)$ lies on line ℓ_9
887 : $P_{253830} = (5, 61, 60, 1)$ lies on line ℓ_{10}
888 : $P_{254278} = (5, 4, 61, 1)$ lies on line ℓ_{14}
889 : $P_{254333} = (60, 4, 61, 1)$ lies on line ℓ_{13}
890 : $P_{254341} = (4, 5, 61, 1)$ lies on line ℓ_{12}
891 : $P_{254397} = (60, 5, 61, 1)$ lies on line ℓ_{11}
892 : $P_{257861} = (4, 60, 61, 1)$ lies on line ℓ_{10}
893 : $P_{257862} = (5, 60, 61, 1)$ lies on line ℓ_9
894 : $P_{258504} = (7, 6, 62, 1)$ lies on line ℓ_{12}
895 : $P_{258560} = (63, 6, 62, 1)$ lies on line ℓ_{11}
896 : $P_{258567} = (6, 7, 62, 1)$ lies on line ℓ_{14}
897 : $P_{258624} = (63, 7, 62, 1)$ lies on line ℓ_{13}
898 : $P_{262151} = (6, 63, 62, 1)$ lies on line ℓ_9
899 : $P_{262152} = (7, 63, 62, 1)$ lies on line ℓ_{10}
900 : $P_{262600} = (7, 6, 63, 1)$ lies on line ℓ_{14}
901 : $P_{262655} = (62, 6, 63, 1)$ lies on line ℓ_{13}
902 : $P_{262663} = (6, 7, 63, 1)$ lies on line ℓ_{12}
903 : $P_{262719} = (62, 7, 63, 1)$ lies on line ℓ_{11}
904 : $P_{266183} = (6, 62, 63, 1)$ lies on line ℓ_{10}
905 : $P_{266184} = (7, 62, 63, 1)$ lies on line ℓ_9

The single points on the surface are:

Points on surface but on no line

The surface has 3480 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
 --+--------------------------------
  0|0 1 1 1 0 0 1 0 0 1  1  0  0  0  0
  1|1 0 1 0 1 0 0 1 0 0  0  1  1  0  0
  2|1 1 0 0 0 1 0 0 1 0  0  0  0  1  1
  3|1 0 0 0 1 1 1 0 0 0  0  1  0  1  0
  4|0 1 0 1 0 1 0 1 0 1  0  0  0  0  1
  5|0 0 1 1 1 0 0 0 1 0  1  0  1  0  0
  6|1 0 0 1 0 0 0 1 1 0  0  0  1  0  1
  7|0 1 0 0 1 0 1 0 1 0  1  0  0  1  0
  8|0 0 1 0 0 1 1 1 0 1  0  1  0  0  0
  9|1 0 0 0 1 0 0 0 1 0  1  1  1  1  1
 10|1 0 0 0 0 1 0 1 0 1  0  1  1  1  1
 11|0 1 0 1 0 0 0 0 1 1  1  0  1  1  1
 12|0 1 0 0 0 1 1 0 0 1  1  1  0  1  1
 13|0 0 1 1 0 0 0 1 0 1  1  1  1  0  1
 14|0 0 1 0 1 0 1 0 0 1  1  1  1  1  0
```

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_6	ℓ_9	ℓ_{10}
in point	P_0	P_0	P_{8258}	P_{8259}	P_{8315}	P_{8314}

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_4	ℓ_7	ℓ_{11}	ℓ_{12}
in point	P_0	P_0	P_{233537}	P_{233593}	P_{233594}	P_{233538}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_5	ℓ_8	ℓ_{13}	ℓ_{14}
in point	P_0	P_0	P_{237633}	P_{237690}	P_{237689}	P_{237634}

Line 3 intersects

Line	ℓ_0	ℓ_4	ℓ_5	ℓ_6	ℓ_{11}	ℓ_{13}
in point	P_{8258}	P_1	P_1	P_{8322}	P_{11905}	P_{11841}

Line 4 intersects

Line	ℓ_1	ℓ_3	ℓ_5	ℓ_7	ℓ_9	ℓ_{14}
in point	P_{233537}	P_1	P_1	P_{237121}	P_{237185}	P_{233601}

Line 5 intersects

Line	ℓ_2	ℓ_3	ℓ_4	ℓ_8	ℓ_{10}	ℓ_{12}
in point	P_{237633}	P_1	P_1	P_{241281}	P_{241217}	P_{237697}

Line 6 intersects

Line	ℓ_0	ℓ_3	ℓ_7	ℓ_8	ℓ_{12}	ℓ_{14}
in point	P_{8259}	P_{8322}	P_5	P_5	P_{11961}	P_{11898}

Line 7 intersects

Line	ℓ_1	ℓ_4	ℓ_6	ℓ_8	ℓ_{10}	ℓ_{13}
in point	P_{233593}	P_{237121}	P_5	P_5	P_{237186}	P_{233658}

Line 8 intersects

Line	ℓ_2	ℓ_5	ℓ_6	ℓ_7	ℓ_9	ℓ_{11}
in point	P_{237690}	P_{241281}	P_5	P_5	P_{241218}	P_{237753}

Line 9 intersects

Line	ℓ_0	ℓ_4	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}
in point	P_{8315}	P_{237185}	P_{241218}	P_{132}	P_{132}	P_{132}	P_{132}	P_{132}

Line 10 intersects

Line	ℓ_0	ℓ_5	ℓ_7	ℓ_9	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}
in point	P_{8314}	P_{241217}	P_{237186}	P_{132}	P_{132}	P_{132}	P_{132}	P_{132}

Line 11 intersects

Line	ℓ_1	ℓ_3	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{12}	ℓ_{13}	ℓ_{14}
in point	P_{233594}	P_{11905}	P_{237753}	P_{132}	P_{132}	P_{132}	P_{132}	P_{132}

Line 12 intersects

Line	ℓ_1	ℓ_5	ℓ_6	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{13}	ℓ_{14}
in point	P_{233538}	P_{237697}	P_{11961}	P_{132}	P_{132}	P_{132}	P_{132}	P_{132}

Line 13 intersects

Line	ℓ_2	ℓ_3	ℓ_7	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}
in point	P_{237689}	P_{11841}	P_{233658}	P_{132}	P_{132}	P_{132}	P_{132}	P_{132}

Line 14 intersects

Line	ℓ_2	ℓ_4	ℓ_6	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}
in point	P_{237634}	P_{233601}	P_{11898}	P_{132}	P_{132}	P_{132}	P_{132}	P_{132}

The surface has 4417 points:
Too many to print.