

# Rank-73737 over GF(32)

January 15, 2021

## The equation

The equation of the surface is :

$$X_1^3 + X_2^3 + X_0X_3^2 + X_0X_1X_2 = 0$$

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

The point rank of the equation over GF(32) is 1108379717

## General information

Number of lines	3
Number of points	1057
Number of singular points	2
Number of Eckardt points	0
Number of double points	2
Number of single points	95
Number of points off lines	960
Number of Hesse planes	0
Number of axes	0
Type of points on lines	$33^3$
Type of lines on points	$2^2, 1^{95}, 0^{960}$

## Singular Points

The surface has 2 singular points:

$$0 : P_0 = \mathbf{P}(1, 0, 0, 0) = \mathbf{P}(1, 0, 0, 0)$$

$$1 : P_4 = \mathbf{P}(1, 1, 1, 1) = \mathbf{P}(1, 1, 1, 1)$$

## The 3 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33} = \mathbf{Pl}(1, 0, 1, 0, 1, 0)_{1153}$$

$$\ell_1 = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \mathbf{Pl}(0, 1, 0, 1, 0, 0)_{97}$$

$$\ell_2 = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{34882} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{34882} = \mathbf{Pl}(1, 1, 1, 1, 0, 1)_{38818}$$

Rank of lines: ( 33, 1082433, 34882 )

Rank of points on Klein quadric: ( 1153, 97, 38818 )

### Eckardt Points

The surface has 0 Eckardt points:

### Double Points

The surface has 2 Double points:

The double points on the surface are:

$$P_{2114} = (0, 1, 1, 1) = \ell_0 \cap \ell_1$$

$$P_{67} = (0, 1, 1, 0) = \ell_1 \cap \ell_2$$

### Single Points

The surface has 95 single points:

The single points on the surface are:

- 0 :  $P_0 = (1, 0, 0, 0)$  lies on line  $\ell_0$
- 1 :  $P_3 = (0, 0, 0, 1)$  lies on line  $\ell_1$
- 2 :  $P_4 = (1, 1, 1, 1)$  lies on line  $\ell_0$
- 3 :  $P_{1091} = (1, 1, 0, 1)$  lies on line  $\ell_2$
- 4 :  $P_{2083} = (1, 0, 1, 1)$  lies on line  $\ell_2$
- 5 :  $P_{2115} = (2, 1, 1, 1)$  lies on line  $\ell_0$
- 6 :  $P_{2116} = (3, 1, 1, 1)$  lies on line  $\ell_0$
- 7 :  $P_{2117} = (4, 1, 1, 1)$  lies on line  $\ell_0$
- 8 :  $P_{2118} = (5, 1, 1, 1)$  lies on line  $\ell_0$
- 9 :  $P_{2119} = (6, 1, 1, 1)$  lies on line  $\ell_0$
- 10 :  $P_{2120} = (7, 1, 1, 1)$  lies on line  $\ell_0$
- 11 :  $P_{2121} = (8, 1, 1, 1)$  lies on line  $\ell_0$
- 12 :  $P_{2122} = (9, 1, 1, 1)$  lies on line  $\ell_0$
- 13 :  $P_{2123} = (10, 1, 1, 1)$  lies on line  $\ell_0$
- 14 :  $P_{2124} = (11, 1, 1, 1)$  lies on line  $\ell_0$
- 15 :  $P_{2125} = (12, 1, 1, 1)$  lies on line  $\ell_0$
- 16 :  $P_{2126} = (13, 1, 1, 1)$  lies on line  $\ell_0$
- 17 :  $P_{2127} = (14, 1, 1, 1)$  lies on line  $\ell_0$
- 18 :  $P_{2128} = (15, 1, 1, 1)$  lies on line  $\ell_0$
- 19 :  $P_{2129} = (16, 1, 1, 1)$  lies on line  $\ell_0$
- 20 :  $P_{2130} = (17, 1, 1, 1)$  lies on line  $\ell_0$
- 21 :  $P_{2131} = (18, 1, 1, 1)$  lies on line  $\ell_0$
- 22 :  $P_{2132} = (19, 1, 1, 1)$  lies on line  $\ell_0$
- 23 :  $P_{2133} = (20, 1, 1, 1)$  lies on line  $\ell_0$
- 24 :  $P_{2134} = (21, 1, 1, 1)$  lies on line  $\ell_0$
- 25 :  $P_{2135} = (22, 1, 1, 1)$  lies on line  $\ell_0$

- 26 :  $P_{2136} = (23, 1, 1, 1)$  lies on line  $\ell_0$
- 27 :  $P_{2137} = (24, 1, 1, 1)$  lies on line  $\ell_0$
- 28 :  $P_{2138} = (25, 1, 1, 1)$  lies on line  $\ell_0$
- 29 :  $P_{2139} = (26, 1, 1, 1)$  lies on line  $\ell_0$
- 30 :  $P_{2140} = (27, 1, 1, 1)$  lies on line  $\ell_0$
- 31 :  $P_{2141} = (28, 1, 1, 1)$  lies on line  $\ell_0$
- 32 :  $P_{2142} = (29, 1, 1, 1)$  lies on line  $\ell_0$
- 33 :  $P_{2143} = (30, 1, 1, 1)$  lies on line  $\ell_0$
- 34 :  $P_{2144} = (31, 1, 1, 1)$  lies on line  $\ell_0$
- 35 :  $P_{3169} = (0, 2, 2, 1)$  lies on line  $\ell_1$
- 36 :  $P_{3202} = (1, 3, 2, 1)$  lies on line  $\ell_2$
- 37 :  $P_{4194} = (1, 2, 3, 1)$  lies on line  $\ell_2$
- 38 :  $P_{4225} = (0, 3, 3, 1)$  lies on line  $\ell_1$
- 39 :  $P_{5281} = (0, 4, 4, 1)$  lies on line  $\ell_1$
- 40 :  $P_{5314} = (1, 5, 4, 1)$  lies on line  $\ell_2$
- 41 :  $P_{6306} = (1, 4, 5, 1)$  lies on line  $\ell_2$
- 42 :  $P_{6337} = (0, 5, 5, 1)$  lies on line  $\ell_1$
- 43 :  $P_{7393} = (0, 6, 6, 1)$  lies on line  $\ell_1$
- 44 :  $P_{7426} = (1, 7, 6, 1)$  lies on line  $\ell_2$
- 45 :  $P_{8418} = (1, 6, 7, 1)$  lies on line  $\ell_2$
- 46 :  $P_{8449} = (0, 7, 7, 1)$  lies on line  $\ell_1$
- 47 :  $P_{9505} = (0, 8, 8, 1)$  lies on line  $\ell_1$
- 48 :  $P_{9538} = (1, 9, 8, 1)$  lies on line  $\ell_2$
- 49 :  $P_{10530} = (1, 8, 9, 1)$  lies on line  $\ell_2$
- 50 :  $P_{10561} = (0, 9, 9, 1)$  lies on line  $\ell_1$
- 51 :  $P_{11617} = (0, 10, 10, 1)$  lies on line  $\ell_1$

52 :  $P_{11650} = (1, 11, 10, 1)$  lies on line  $\ell_2$   
 53 :  $P_{12642} = (1, 10, 11, 1)$  lies on line  $\ell_2$   
 54 :  $P_{12673} = (0, 11, 11, 1)$  lies on line  $\ell_1$   
 55 :  $P_{13729} = (0, 12, 12, 1)$  lies on line  $\ell_1$   
 56 :  $P_{13762} = (1, 13, 12, 1)$  lies on line  $\ell_2$   
 57 :  $P_{14754} = (1, 12, 13, 1)$  lies on line  $\ell_2$   
 58 :  $P_{14785} = (0, 13, 13, 1)$  lies on line  $\ell_1$   
 59 :  $P_{15841} = (0, 14, 14, 1)$  lies on line  $\ell_1$   
 60 :  $P_{15874} = (1, 15, 14, 1)$  lies on line  $\ell_2$   
 61 :  $P_{16866} = (1, 14, 15, 1)$  lies on line  $\ell_2$   
 62 :  $P_{16897} = (0, 15, 15, 1)$  lies on line  $\ell_1$   
 63 :  $P_{17953} = (0, 16, 16, 1)$  lies on line  $\ell_1$   
 64 :  $P_{17986} = (1, 17, 16, 1)$  lies on line  $\ell_2$   
 65 :  $P_{18978} = (1, 16, 17, 1)$  lies on line  $\ell_2$   
 66 :  $P_{19009} = (0, 17, 17, 1)$  lies on line  $\ell_1$   
 67 :  $P_{20065} = (0, 18, 18, 1)$  lies on line  $\ell_1$   
 68 :  $P_{20098} = (1, 19, 18, 1)$  lies on line  $\ell_2$   
 69 :  $P_{21090} = (1, 18, 19, 1)$  lies on line  $\ell_2$   
 70 :  $P_{21121} = (0, 19, 19, 1)$  lies on line  $\ell_1$   
 71 :  $P_{22177} = (0, 20, 20, 1)$  lies on line  $\ell_1$   
 72 :  $P_{22210} = (1, 21, 20, 1)$  lies on line  $\ell_2$   
 73 :  $P_{23202} = (1, 20, 21, 1)$  lies on line  $\ell_2$

74 :  $P_{23233} = (0, 21, 21, 1)$  lies on line  $\ell_1$   
 75 :  $P_{24289} = (0, 22, 22, 1)$  lies on line  $\ell_1$   
 76 :  $P_{24322} = (1, 23, 22, 1)$  lies on line  $\ell_2$   
 77 :  $P_{25314} = (1, 22, 23, 1)$  lies on line  $\ell_2$   
 78 :  $P_{25345} = (0, 23, 23, 1)$  lies on line  $\ell_1$   
 79 :  $P_{26401} = (0, 24, 24, 1)$  lies on line  $\ell_1$   
 80 :  $P_{26434} = (1, 25, 24, 1)$  lies on line  $\ell_2$   
 81 :  $P_{27426} = (1, 24, 25, 1)$  lies on line  $\ell_2$   
 82 :  $P_{27457} = (0, 25, 25, 1)$  lies on line  $\ell_1$   
 83 :  $P_{28513} = (0, 26, 26, 1)$  lies on line  $\ell_1$   
 84 :  $P_{28546} = (1, 27, 26, 1)$  lies on line  $\ell_2$   
 85 :  $P_{29538} = (1, 26, 27, 1)$  lies on line  $\ell_2$   
 86 :  $P_{29569} = (0, 27, 27, 1)$  lies on line  $\ell_1$   
 87 :  $P_{30625} = (0, 28, 28, 1)$  lies on line  $\ell_1$   
 88 :  $P_{30658} = (1, 29, 28, 1)$  lies on line  $\ell_2$   
 89 :  $P_{31650} = (1, 28, 29, 1)$  lies on line  $\ell_2$   
 90 :  $P_{31681} = (0, 29, 29, 1)$  lies on line  $\ell_1$   
 91 :  $P_{32737} = (0, 30, 30, 1)$  lies on line  $\ell_1$   
 92 :  $P_{32770} = (1, 31, 30, 1)$  lies on line  $\ell_2$   
 93 :  $P_{33762} = (1, 30, 31, 1)$  lies on line  $\ell_2$   
 94 :  $P_{33793} = (0, 31, 31, 1)$  lies on line  $\ell_1$

The single points on the surface are:

### Points on surface but on no line

The surface has 960 points not on any line:

The points on the surface but not on lines are:

0 : $P_{121} = (22, 2, 1, 0)$	22 : $P_{825} = (22, 24, 1, 0)$
1 : $P_{156} = (25, 3, 1, 0)$	23 : $P_{847} = (12, 25, 1, 0)$
2 : $P_{188} = (25, 4, 1, 0)$	24 : $P_{889} = (22, 26, 1, 0)$
3 : $P_{201} = (6, 5, 1, 0)$	25 : $P_{928} = (29, 27, 1, 0)$
4 : $P_{253} = (26, 6, 1, 0)$	26 : $P_{951} = (20, 28, 1, 0)$
5 : $P_{284} = (25, 7, 1, 0)$	27 : $P_{968} = (5, 29, 1, 0)$
6 : $P_{319} = (28, 8, 1, 0)$	28 : $P_{1002} = (7, 30, 1, 0)$
7 : $P_{338} = (15, 9, 1, 0)$	29 : $P_{1036} = (9, 31, 1, 0)$
8 : $P_{378} = (23, 10, 1, 0)$	30 : $P_{1130} = (8, 2, 0, 1)$
9 : $P_{418} = (31, 11, 1, 0)$	31 : $P_{1169} = (15, 3, 0, 1)$
10 : $P_{448} = (29, 12, 1, 0)$	32 : $P_{1196} = (10, 4, 0, 1)$
11 : $P_{471} = (20, 13, 1, 0)$	33 : $P_{1249} = (31, 5, 0, 1)$
12 : $P_{507} = (24, 14, 1, 0)$	34 : $P_{1273} = (23, 6, 0, 1)$
13 : $P_{533} = (18, 15, 1, 0)$	35 : $P_{1286} = (4, 7, 0, 1)$
14 : $P_{553} = (6, 16, 1, 0)$	36 : $P_{1340} = (26, 8, 0, 1)$
15 : $P_{599} = (20, 17, 1, 0)$	37 : $P_{1371} = (25, 9, 0, 1)$
16 : $P_{622} = (11, 18, 1, 0)$	38 : $P_{1381} = (3, 10, 0, 1)$
17 : $P_{664} = (21, 19, 1, 0)$	39 : $P_{1416} = (6, 11, 0, 1)$
18 : $P_{678} = (3, 20, 1, 0)$	40 : $P_{1451} = (9, 12, 0, 1)$
19 : $P_{713} = (6, 21, 1, 0)$	41 : $P_{1504} = (30, 13, 0, 1)$
20 : $P_{756} = (17, 22, 1, 0)$	42 : $P_{1511} = (5, 14, 0, 1)$
21 : $P_{800} = (29, 23, 1, 0)$	43 : $P_{1558} = (20, 15, 0, 1)$

44 : $P_{1584} = (14, 16, 0, 1)$	98 : $P_{3430} = (5, 10, 2, 1)$
45 : $P_{1620} = (18, 17, 0, 1)$	99 : $P_{3476} = (19, 11, 2, 1)$
46 : $P_{1656} = (22, 18, 0, 1)$	100 : $P_{3499} = (10, 12, 2, 1)$
47 : $P_{1678} = (12, 19, 0, 1)$	101 : $P_{3535} = (14, 13, 2, 1)$
48 : $P_{1722} = (24, 20, 0, 1)$	102 : $P_{3578} = (25, 14, 2, 1)$
49 : $P_{1746} = (16, 21, 0, 1)$	103 : $P_{3594} = (9, 15, 2, 1)$
50 : $P_{1783} = (21, 22, 0, 1)$	104 : $P_{3636} = (19, 16, 2, 1)$
51 : $P_{1821} = (27, 23, 0, 1)$	105 : $P_{3673} = (24, 17, 2, 1)$
52 : $P_{1828} = (2, 24, 0, 1)$	106 : $P_{3715} = (2, 19, 2, 1)$
53 : $P_{1886} = (28, 25, 0, 1)$	107 : $P_{3776} = (31, 20, 2, 1)$
54 : $P_{1901} = (11, 26, 0, 1)$	108 : $P_{3803} = (26, 21, 2, 1)$
55 : $P_{1941} = (19, 27, 0, 1)$	109 : $P_{3816} = (7, 22, 2, 1)$
56 : $P_{1967} = (13, 28, 0, 1)$	110 : $P_{3848} = (7, 23, 2, 1)$
57 : $P_{1993} = (7, 29, 0, 1)$	111 : $P_{3891} = (18, 24, 2, 1)$
58 : $P_{2035} = (17, 30, 0, 1)$	112 : $P_{3922} = (17, 25, 2, 1)$
59 : $P_{2079} = (29, 31, 0, 1)$	113 : $P_{3966} = (29, 26, 2, 1)$
60 : $P_{2152} = (7, 2, 1, 1)$	114 : $P_{3988} = (19, 27, 2, 1)$
61 : $P_{2184} = (7, 3, 1, 1)$	115 : $P_{4016} = (15, 28, 2, 1)$
62 : $P_{2230} = (21, 4, 1, 1)$	116 : $P_{4051} = (18, 29, 2, 1)$
63 : $P_{2262} = (21, 5, 1, 1)$	117 : $P_{4081} = (16, 30, 2, 1)$
64 : $P_{2292} = (19, 6, 1, 1)$	118 : $P_{4125} = (28, 31, 2, 1)$
65 : $P_{2324} = (19, 7, 1, 1)$	119 : $P_{4144} = (15, 0, 3, 1)$
66 : $P_{2340} = (3, 8, 1, 1)$	120 : $P_{4168} = (7, 1, 3, 1)$
67 : $P_{2372} = (3, 9, 1, 1)$	121 : $P_{4279} = (22, 4, 3, 1)$
68 : $P_{2406} = (5, 10, 1, 1)$	122 : $P_{4304} = (15, 5, 3, 1)$
69 : $P_{2438} = (5, 11, 1, 1)$	123 : $P_{4346} = (25, 6, 3, 1)$
70 : $P_{2488} = (23, 12, 1, 1)$	124 : $P_{4383} = (30, 7, 3, 1)$
71 : $P_{2520} = (23, 13, 1, 1)$	125 : $P_{4407} = (22, 8, 3, 1)$
72 : $P_{2546} = (17, 14, 1, 1)$	126 : $P_{4423} = (6, 9, 3, 1)$
73 : $P_{2578} = (17, 15, 1, 1)$	127 : $P_{4454} = (5, 10, 3, 1)$
74 : $P_{2621} = (28, 16, 1, 1)$	128 : $P_{4508} = (27, 11, 3, 1)$
75 : $P_{2653} = (28, 17, 1, 1)$	129 : $P_{4535} = (22, 12, 3, 1)$
76 : $P_{2683} = (26, 18, 1, 1)$	130 : $P_{4573} = (28, 13, 3, 1)$
77 : $P_{2715} = (26, 19, 1, 1)$	131 : $P_{4589} = (12, 14, 3, 1)$
78 : $P_{2729} = (8, 20, 1, 1)$	132 : $P_{4623} = (14, 15, 3, 1)$
79 : $P_{2761} = (8, 21, 1, 1)$	133 : $P_{4671} = (30, 16, 3, 1)$
80 : $P_{2799} = (14, 22, 1, 1)$	134 : $P_{4679} = (6, 17, 3, 1)$
81 : $P_{2831} = (14, 23, 1, 1)$	135 : $P_{4728} = (23, 18, 3, 1)$
82 : $P_{2879} = (30, 24, 1, 1)$	136 : $P_{4750} = (13, 19, 3, 1)$
83 : $P_{2911} = (30, 25, 1, 1)$	137 : $P_{4774} = (5, 20, 3, 1)$
84 : $P_{2937} = (24, 26, 1, 1)$	138 : $P_{4819} = (18, 21, 3, 1)$
85 : $P_{2969} = (24, 27, 1, 1)$	139 : $P_{4860} = (27, 22, 3, 1)$
86 : $P_{2987} = (10, 28, 1, 1)$	140 : $P_{4895} = (30, 23, 3, 1)$
87 : $P_{3019} = (10, 29, 1, 1)$	141 : $P_{4903} = (6, 24, 3, 1)$
88 : $P_{3053} = (12, 30, 1, 1)$	142 : $P_{4954} = (25, 25, 3, 1)$
89 : $P_{3085} = (12, 31, 1, 1)$	143 : $P_{4972} = (11, 26, 3, 1)$
90 : $P_{3113} = (8, 0, 2, 1)$	144 : $P_{5024} = (31, 27, 3, 1)$
91 : $P_{3144} = (7, 1, 2, 1)$	145 : $P_{5084} = (27, 29, 3, 1)$
92 : $P_{3241} = (8, 4, 2, 1)$	146 : $P_{5094} = (5, 30, 3, 1)$
93 : $P_{3283} = (18, 5, 2, 1)$	147 : $P_{5146} = (25, 31, 3, 1)$
94 : $P_{3317} = (20, 6, 2, 1)$	148 : $P_{5163} = (10, 0, 4, 1)$
95 : $P_{3351} = (22, 7, 2, 1)$	149 : $P_{5206} = (21, 1, 4, 1)$
96 : $P_{3373} = (12, 8, 2, 1)$	150 : $P_{5225} = (8, 2, 4, 1)$
97 : $P_{3423} = (30, 9, 2, 1)$	151 : $P_{5271} = (22, 3, 4, 1)$

152 : $P_{5357} = (12, 6, 4, 1)$	206 : $P_{7224} = (23, 0, 6, 1)$
153 : $P_{5386} = (9, 7, 4, 1)$	207 : $P_{7252} = (19, 1, 6, 1)$
154 : $P_{5413} = (4, 8, 4, 1)$	208 : $P_{7285} = (20, 2, 6, 1)$
155 : $P_{5499} = (26, 10, 4, 1)$	209 : $P_{7322} = (25, 3, 6, 1)$
156 : $P_{5524} = (19, 11, 4, 1)$	210 : $P_{7341} = (12, 4, 6, 1)$
157 : $P_{5544} = (7, 12, 4, 1)$	211 : $P_{7367} = (6, 5, 6, 1)$
158 : $P_{5577} = (8, 13, 4, 1)$	212 : $P_{7459} = (2, 8, 6, 1)$
159 : $P_{5618} = (17, 14, 4, 1)$	213 : $P_{7517} = (28, 9, 6, 1)$
160 : $P_{5641} = (8, 15, 4, 1)$	214 : $P_{7540} = (19, 10, 6, 1)$
161 : $P_{5675} = (10, 16, 4, 1)$	215 : $P_{7572} = (19, 11, 6, 1)$
162 : $P_{5706} = (9, 17, 4, 1)$	216 : $P_{7601} = (16, 12, 6, 1)$
163 : $P_{5752} = (23, 18, 4, 1)$	217 : $P_{7632} = (15, 13, 6, 1)$
164 : $P_{5774} = (13, 19, 4, 1)$	218 : $P_{7699} = (18, 15, 6, 1)$
165 : $P_{5822} = (29, 20, 4, 1)$	219 : $P_{7741} = (28, 16, 6, 1)$
166 : $P_{5850} = (25, 21, 4, 1)$	220 : $P_{7749} = (4, 17, 6, 1)$
167 : $P_{5866} = (9, 22, 4, 1)$	221 : $P_{7795} = (18, 18, 6, 1)$
168 : $P_{5920} = (31, 23, 4, 1)$	222 : $P_{7838} = (29, 19, 6, 1)$
169 : $P_{5942} = (21, 24, 4, 1)$	223 : $P_{7864} = (23, 20, 6, 1)$
170 : $P_{5974} = (21, 25, 4, 1)$	224 : $P_{7893} = (20, 21, 6, 1)$
171 : $P_{5999} = (14, 26, 4, 1)$	225 : $P_{7920} = (15, 22, 6, 1)$
172 : $P_{6047} = (30, 27, 4, 1)$	226 : $P_{7957} = (20, 23, 6, 1)$
173 : $P_{6052} = (3, 28, 4, 1)$	227 : $P_{7979} = (10, 24, 6, 1)$
174 : $P_{6099} = (18, 29, 4, 1)$	228 : $P_{8029} = (28, 25, 6, 1)$
175 : $P_{6119} = (6, 30, 4, 1)$	229 : $P_{8036} = (3, 26, 6, 1)$
176 : $P_{6156} = (11, 31, 4, 1)$	230 : $P_{8080} = (15, 27, 6, 1)$
177 : $P_{6208} = (31, 0, 5, 1)$	231 : $P_{8118} = (21, 28, 6, 1)$
178 : $P_{6230} = (21, 1, 5, 1)$	232 : $P_{8147} = (18, 29, 6, 1)$
179 : $P_{6259} = (18, 2, 5, 1)$	233 : $P_{8172} = (11, 30, 6, 1)$
180 : $P_{6288} = (15, 3, 5, 1)$	234 : $P_{8206} = (13, 31, 6, 1)$
181 : $P_{6375} = (6, 6, 5, 1)$	235 : $P_{8229} = (4, 0, 7, 1)$
182 : $P_{6421} = (20, 7, 5, 1)$	236 : $P_{8276} = (19, 1, 7, 1)$
183 : $P_{6460} = (27, 8, 5, 1)$	237 : $P_{8311} = (22, 2, 7, 1)$
184 : $P_{6489} = (24, 9, 5, 1)$	238 : $P_{8351} = (30, 3, 7, 1)$
185 : $P_{6522} = (25, 10, 5, 1)$	239 : $P_{8362} = (9, 4, 7, 1)$
186 : $P_{6549} = (20, 11, 5, 1)$	240 : $P_{8405} = (20, 5, 7, 1)$
187 : $P_{6581} = (20, 12, 5, 1)$	241 : $P_{8488} = (7, 8, 7, 1)$
188 : $P_{6612} = (19, 13, 5, 1)$	242 : $P_{8522} = (9, 9, 7, 1)$
189 : $P_{6642} = (17, 14, 5, 1)$	243 : $P_{8559} = (14, 10, 7, 1)$
190 : $P_{6659} = (2, 15, 5, 1)$	244 : $P_{8594} = (17, 11, 7, 1)$
191 : $P_{6714} = (25, 16, 5, 1)$	245 : $P_{8650} = (9, 13, 7, 1)$
192 : $P_{6752} = (31, 17, 5, 1)$	246 : $P_{8679} = (6, 14, 7, 1)$
193 : $P_{6759} = (6, 18, 5, 1)$	247 : $P_{8715} = (10, 15, 7, 1)$
194 : $P_{6802} = (17, 19, 5, 1)$	248 : $P_{8765} = (28, 16, 7, 1)$
195 : $P_{6823} = (6, 20, 5, 1)$	249 : $P_{8777} = (8, 17, 7, 1)$
196 : $P_{6868} = (19, 21, 5, 1)$	250 : $P_{8824} = (23, 18, 7, 1)$
197 : $P_{6883} = (2, 22, 5, 1)$	251 : $P_{8846} = (13, 19, 7, 1)$
198 : $P_{6964} = (19, 24, 5, 1)$	252 : $P_{8879} = (14, 20, 7, 1)$
199 : $P_{6979} = (2, 25, 5, 1)$	253 : $P_{8901} = (4, 21, 7, 1)$
200 : $P_{7034} = (25, 26, 5, 1)$	254 : $P_{8953} = (24, 22, 7, 1)$
201 : $P_{7064} = (23, 27, 5, 1)$	255 : $P_{8967} = (6, 23, 7, 1)$
202 : $P_{7082} = (9, 28, 5, 1)$	256 : $P_{8995} = (2, 24, 7, 1)$
203 : $P_{7122} = (17, 29, 5, 1)$	257 : $P_{9031} = (6, 25, 7, 1)$
204 : $P_{7163} = (26, 30, 5, 1)$	258 : $P_{9088} = (31, 26, 7, 1)$
205 : $P_{7199} = (30, 31, 5, 1)$	259 : $P_{9101} = (12, 27, 7, 1)$

260 : $P_{9150} = (29, 28, 7, 1)$	314 : $P_{11046} = (5, 24, 9, 1)$
261 : $P_{9175} = (22, 29, 7, 1)$	315 : $P_{11103} = (30, 25, 9, 1)$
262 : $P_{9199} = (14, 30, 7, 1)$	316 : $P_{11118} = (13, 26, 9, 1)$
263 : $P_{9239} = (22, 31, 7, 1)$	317 : $P_{11167} = (30, 27, 9, 1)$
264 : $P_{9275} = (26, 0, 8, 1)$	318 : $P_{11175} = (6, 28, 9, 1)$
265 : $P_{9284} = (3, 1, 8, 1)$	319 : $P_{11203} = (2, 29, 9, 1)$
266 : $P_{9325} = (12, 2, 8, 1)$	320 : $P_{11244} = (11, 30, 9, 1)$
267 : $P_{9367} = (22, 3, 8, 1)$	321 : $P_{11271} = (6, 31, 9, 1)$
268 : $P_{9381} = (4, 4, 8, 1)$	322 : $P_{11300} = (3, 0, 10, 1)$
269 : $P_{9436} = (27, 5, 8, 1)$	323 : $P_{11334} = (5, 1, 10, 1)$
270 : $P_{9443} = (2, 6, 8, 1)$	324 : $P_{11366} = (5, 2, 10, 1)$
271 : $P_{9480} = (7, 7, 8, 1)$	325 : $P_{11398} = (5, 3, 10, 1)$
272 : $P_{9595} = (26, 10, 8, 1)$	326 : $P_{11451} = (26, 4, 10, 1)$
273 : $P_{9612} = (11, 11, 8, 1)$	327 : $P_{11482} = (25, 5, 10, 1)$
274 : $P_{9638} = (5, 12, 8, 1)$	328 : $P_{11508} = (19, 6, 10, 1)$
275 : $P_{9694} = (29, 13, 8, 1)$	329 : $P_{11535} = (14, 7, 10, 1)$
276 : $P_{9718} = (21, 14, 8, 1)$	330 : $P_{11579} = (26, 8, 10, 1)$
277 : $P_{9760} = (31, 15, 8, 1)$	331 : $P_{11603} = (18, 9, 10, 1)$
278 : $P_{9788} = (27, 16, 8, 1)$	332 : $P_{11707} = (26, 12, 10, 1)$
279 : $P_{9805} = (12, 17, 8, 1)$	333 : $P_{11715} = (2, 13, 10, 1)$
280 : $P_{9856} = (31, 18, 8, 1)$	334 : $P_{11748} = (3, 14, 10, 1)$
281 : $P_{9869} = (12, 19, 8, 1)$	335 : $P_{11792} = (15, 15, 10, 1)$
282 : $P_{9911} = (22, 20, 8, 1)$	336 : $P_{11825} = (16, 16, 10, 1)$
283 : $P_{9948} = (27, 21, 8, 1)$	337 : $P_{11843} = (2, 17, 10, 1)$
284 : $P_{10007} = (22, 23, 8, 1)$	338 : $P_{11885} = (12, 18, 10, 1)$
285 : $P_{10027} = (10, 24, 8, 1)$	339 : $P_{11912} = (7, 19, 10, 1)$
286 : $P_{10079} = (30, 25, 8, 1)$	340 : $P_{11941} = (4, 20, 10, 1)$
287 : $P_{10084} = (3, 26, 8, 1)$	341 : $P_{11990} = (21, 21, 10, 1)$
288 : $P_{10116} = (3, 27, 8, 1)$	342 : $P_{12019} = (18, 22, 10, 1)$
289 : $P_{10164} = (19, 28, 8, 1)$	343 : $P_{12041} = (8, 23, 10, 1)$
290 : $P_{10208} = (31, 29, 8, 1)$	344 : $P_{12090} = (25, 24, 10, 1)$
291 : $P_{10233} = (24, 30, 8, 1)$	345 : $P_{12146} = (17, 26, 10, 1)$
292 : $P_{10258} = (17, 31, 8, 1)$	346 : $P_{12183} = (22, 27, 10, 1)$
293 : $P_{10298} = (25, 0, 9, 1)$	347 : $P_{12195} = (2, 28, 10, 1)$
294 : $P_{10308} = (3, 1, 9, 1)$	348 : $P_{12250} = (25, 29, 10, 1)$
295 : $P_{10367} = (30, 2, 9, 1)$	349 : $P_{12285} = (28, 30, 10, 1)$
296 : $P_{10375} = (6, 3, 9, 1)$	350 : $P_{12307} = (18, 31, 10, 1)$
297 : $P_{10457} = (24, 5, 9, 1)$	351 : $P_{12327} = (6, 0, 11, 1)$
298 : $P_{10493} = (28, 6, 9, 1)$	352 : $P_{12358} = (5, 1, 11, 1)$
299 : $P_{10506} = (9, 7, 9, 1)$	353 : $P_{12404} = (19, 2, 11, 1)$
300 : $P_{10611} = (18, 10, 9, 1)$	354 : $P_{12444} = (27, 3, 11, 1)$
301 : $P_{10650} = (25, 11, 9, 1)$	355 : $P_{12468} = (19, 4, 11, 1)$
302 : $P_{10665} = (8, 12, 9, 1)$	356 : $P_{12501} = (20, 5, 11, 1)$
303 : $P_{10720} = (31, 13, 9, 1)$	357 : $P_{12532} = (19, 6, 11, 1)$
304 : $P_{10747} = (26, 14, 9, 1)$	358 : $P_{12562} = (17, 7, 11, 1)$
305 : $P_{10782} = (29, 15, 9, 1)$	359 : $P_{12588} = (11, 8, 11, 1)$
306 : $P_{10809} = (24, 16, 9, 1)$	360 : $P_{12634} = (25, 9, 11, 1)$
307 : $P_{10837} = (20, 17, 9, 1)$	361 : $P_{12734} = (29, 12, 11, 1)$
308 : $P_{10871} = (22, 18, 9, 1)$	362 : $P_{12744} = (7, 13, 11, 1)$
309 : $P_{10890} = (9, 19, 9, 1)$	363 : $P_{12778} = (9, 14, 11, 1)$
310 : $P_{10922} = (9, 20, 9, 1)$	364 : $P_{12807} = (6, 15, 11, 1)$
311 : $P_{10969} = (24, 21, 9, 1)$	365 : $P_{12872} = (7, 17, 11, 1)$
312 : $P_{10992} = (15, 22, 9, 1)$	366 : $P_{12917} = (20, 18, 11, 1)$
313 : $P_{11028} = (19, 23, 9, 1)$	367 : $P_{12944} = (15, 19, 11, 1)$

368 :  $P_{12984} = (23, 20, 11, 1)$   
 369 :  $P_{13004} = (11, 21, 11, 1)$   
 370 :  $P_{13029} = (4, 22, 11, 1)$   
 371 :  $P_{13077} = (20, 23, 11, 1)$   
 372 :  $P_{13097} = (8, 24, 11, 1)$   
 373 :  $P_{13152} = (31, 25, 11, 1)$   
 374 :  $P_{13163} = (10, 26, 11, 1)$   
 375 :  $P_{13203} = (18, 27, 11, 1)$   
 376 :  $P_{13224} = (7, 28, 11, 1)$   
 377 :  $P_{13260} = (11, 29, 11, 1)$   
 378 :  $P_{13284} = (3, 30, 11, 1)$   
 379 :  $P_{13335} = (22, 31, 11, 1)$   
 380 :  $P_{13354} = (9, 0, 12, 1)$   
 381 :  $P_{13400} = (23, 1, 12, 1)$   
 382 :  $P_{13419} = (10, 2, 12, 1)$   
 383 :  $P_{13463} = (22, 3, 12, 1)$   
 384 :  $P_{13480} = (7, 4, 12, 1)$   
 385 :  $P_{13525} = (20, 5, 12, 1)$   
 386 :  $P_{13553} = (16, 6, 12, 1)$   
 387 :  $P_{13606} = (5, 8, 12, 1)$   
 388 :  $P_{13641} = (8, 9, 12, 1)$   
 389 :  $P_{13691} = (26, 10, 12, 1)$   
 390 :  $P_{13726} = (29, 11, 12, 1)$   
 391 :  $P_{13797} = (4, 14, 12, 1)$   
 392 :  $P_{13846} = (21, 15, 12, 1)$   
 393 :  $P_{13868} = (11, 16, 12, 1)$   
 394 :  $P_{13907} = (18, 17, 12, 1)$   
 395 :  $P_{13937} = (16, 18, 12, 1)$   
 396 :  $P_{13979} = (26, 19, 12, 1)$   
 397 :  $P_{14001} = (16, 20, 12, 1)$   
 398 :  $P_{14027} = (10, 21, 12, 1)$   
 399 :  $P_{14078} = (29, 22, 12, 1)$   
 400 :  $P_{14091} = (10, 23, 12, 1)$   
 401 :  $P_{14128} = (15, 24, 12, 1)$   
 402 :  $P_{14171} = (26, 25, 12, 1)$   
 403 :  $P_{14186} = (9, 26, 12, 1)$   
 404 :  $P_{14229} = (20, 27, 12, 1)$   
 405 :  $P_{14263} = (22, 28, 12, 1)$   
 406 :  $P_{14302} = (29, 29, 12, 1)$   
 407 :  $P_{14325} = (20, 30, 12, 1)$   
 408 :  $P_{14359} = (22, 31, 12, 1)$   
 409 :  $P_{14399} = (30, 0, 13, 1)$   
 410 :  $P_{14424} = (23, 1, 13, 1)$   
 411 :  $P_{14447} = (14, 2, 13, 1)$   
 412 :  $P_{14493} = (28, 3, 13, 1)$   
 413 :  $P_{14505} = (8, 4, 13, 1)$   
 414 :  $P_{14548} = (19, 5, 13, 1)$   
 415 :  $P_{14576} = (15, 6, 13, 1)$   
 416 :  $P_{14602} = (9, 7, 13, 1)$   
 417 :  $P_{14654} = (29, 8, 13, 1)$   
 418 :  $P_{14688} = (31, 9, 13, 1)$   
 419 :  $P_{14691} = (2, 10, 13, 1)$   
 420 :  $P_{14728} = (7, 11, 13, 1)$   
 421 :  $P_{14830} = (13, 14, 13, 1)$

422 :  $P_{14895} = (14, 16, 13, 1)$   
 423 :  $P_{14919} = (6, 17, 13, 1)$   
 424 :  $P_{14959} = (14, 18, 13, 1)$   
 425 :  $P_{15003} = (26, 19, 13, 1)$   
 426 :  $P_{15032} = (23, 20, 13, 1)$   
 427 :  $P_{15064} = (23, 21, 13, 1)$   
 428 :  $P_{15098} = (25, 22, 13, 1)$   
 429 :  $P_{15125} = (20, 23, 13, 1)$   
 430 :  $P_{15154} = (17, 24, 13, 1)$   
 431 :  $P_{15180} = (11, 25, 13, 1)$   
 432 :  $P_{15216} = (15, 26, 13, 1)$   
 433 :  $P_{15263} = (30, 27, 13, 1)$   
 434 :  $P_{15280} = (15, 28, 13, 1)$   
 435 :  $P_{15300} = (3, 29, 13, 1)$   
 436 :  $P_{15334} = (5, 30, 13, 1)$   
 437 :  $P_{15371} = (10, 31, 13, 1)$   
 438 :  $P_{15398} = (5, 0, 14, 1)$   
 439 :  $P_{15442} = (17, 1, 14, 1)$   
 440 :  $P_{15482} = (25, 2, 14, 1)$   
 441 :  $P_{15501} = (12, 3, 14, 1)$   
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 444 :  $P_{15623} = (6, 7, 14, 1)$   
 445 :  $P_{15670} = (21, 8, 14, 1)$   
 446 :  $P_{15707} = (26, 9, 14, 1)$   
 447 :  $P_{15716} = (3, 10, 14, 1)$   
 448 :  $P_{15754} = (9, 11, 14, 1)$   
 449 :  $P_{15781} = (4, 12, 14, 1)$   
 450 :  $P_{15822} = (13, 13, 14, 1)$   
 451 :  $P_{15908} = (3, 16, 14, 1)$   
 452 :  $P_{15943} = (6, 17, 14, 1)$   
 453 :  $P_{15978} = (9, 18, 14, 1)$   
 454 :  $P_{16024} = (23, 19, 14, 1)$   
 455 :  $P_{16041} = (8, 20, 14, 1)$   
 456 :  $P_{16095} = (30, 21, 14, 1)$   
 457 :  $P_{16103} = (6, 22, 14, 1)$   
 458 :  $P_{16133} = (4, 23, 14, 1)$   
 459 :  $P_{16171} = (10, 24, 14, 1)$   
 460 :  $P_{16202} = (9, 25, 14, 1)$   
 461 :  $P_{16228} = (3, 26, 14, 1)$   
 462 :  $P_{16261} = (4, 27, 14, 1)$   
 463 :  $P_{16317} = (28, 28, 14, 1)$   
 464 :  $P_{16337} = (16, 29, 14, 1)$   
 465 :  $P_{16358} = (5, 30, 14, 1)$   
 466 :  $P_{16416} = (31, 31, 14, 1)$   
 467 :  $P_{16437} = (20, 0, 15, 1)$   
 468 :  $P_{16466} = (17, 1, 15, 1)$   
 469 :  $P_{16490} = (9, 2, 15, 1)$   
 470 :  $P_{16527} = (14, 3, 15, 1)$   
 471 :  $P_{16553} = (8, 4, 15, 1)$   
 472 :  $P_{16579} = (2, 5, 15, 1)$   
 473 :  $P_{16627} = (18, 6, 15, 1)$   
 474 :  $P_{16651} = (10, 7, 15, 1)$   
 475 :  $P_{16704} = (31, 8, 15, 1)$

476 :  $P_{16734} = (29, 9, 15, 1)$   
 477 :  $P_{16752} = (15, 10, 15, 1)$   
 478 :  $P_{16775} = (6, 11, 15, 1)$   
 479 :  $P_{16822} = (21, 12, 15, 1)$   
 480 :  $P_{16937} = (8, 16, 15, 1)$   
 481 :  $P_{16990} = (29, 17, 15, 1)$   
 482 :  $P_{17018} = (25, 18, 15, 1)$   
 483 :  $P_{17030} = (5, 19, 15, 1)$   
 484 :  $P_{17065} = (8, 20, 15, 1)$   
 485 :  $P_{17101} = (12, 21, 15, 1)$   
 486 :  $P_{17136} = (15, 22, 15, 1)$   
 487 :  $P_{17174} = (21, 23, 15, 1)$   
 488 :  $P_{17214} = (29, 24, 15, 1)$   
 489 :  $P_{17233} = (16, 25, 15, 1)$   
 490 :  $P_{17271} = (22, 26, 15, 1)$   
 491 :  $P_{17302} = (21, 27, 15, 1)$   
 492 :  $P_{17328} = (15, 28, 15, 1)$   
 493 :  $P_{17369} = (24, 29, 15, 1)$   
 494 :  $P_{17388} = (11, 30, 15, 1)$   
 495 :  $P_{17429} = (20, 31, 15, 1)$   
 496 :  $P_{17455} = (14, 0, 16, 1)$   
 497 :  $P_{17501} = (28, 1, 16, 1)$   
 498 :  $P_{17524} = (19, 2, 16, 1)$   
 499 :  $P_{17567} = (30, 3, 16, 1)$   
 500 :  $P_{17579} = (10, 4, 16, 1)$   
 501 :  $P_{17626} = (25, 5, 16, 1)$   
 502 :  $P_{17661} = (28, 6, 16, 1)$   
 503 :  $P_{17693} = (28, 7, 16, 1)$   
 504 :  $P_{17724} = (27, 8, 16, 1)$   
 505 :  $P_{17753} = (24, 9, 16, 1)$   
 506 :  $P_{17777} = (16, 10, 16, 1)$   
 507 :  $P_{17836} = (11, 12, 16, 1)$   
 508 :  $P_{17871} = (14, 13, 16, 1)$   
 509 :  $P_{17892} = (3, 14, 16, 1)$   
 510 :  $P_{17929} = (8, 15, 16, 1)$   
 511 :  $P_{18032} = (15, 18, 16, 1)$   
 512 :  $P_{18069} = (20, 19, 16, 1)$   
 513 :  $P_{18107} = (26, 20, 16, 1)$   
 514 :  $P_{18124} = (11, 21, 16, 1)$   
 515 :  $P_{18154} = (9, 22, 16, 1)$   
 516 :  $P_{18182} = (5, 23, 16, 1)$   
 517 :  $P_{18227} = (18, 24, 16, 1)$   
 518 :  $P_{18252} = (11, 25, 16, 1)$   
 519 :  $P_{18294} = (21, 26, 16, 1)$   
 520 :  $P_{18315} = (10, 27, 16, 1)$   
 521 :  $P_{18343} = (6, 28, 16, 1)$   
 522 :  $P_{18391} = (22, 29, 16, 1)$   
 523 :  $P_{18413} = (12, 30, 16, 1)$   
 524 :  $P_{18443} = (10, 31, 16, 1)$   
 525 :  $P_{18483} = (18, 0, 17, 1)$   
 526 :  $P_{18525} = (28, 1, 17, 1)$   
 527 :  $P_{18553} = (24, 2, 17, 1)$   
 528 :  $P_{18567} = (6, 3, 17, 1)$   
 529 :  $P_{18602} = (9, 4, 17, 1)$

530 :  $P_{18656} = (31, 5, 17, 1)$   
 531 :  $P_{18661} = (4, 6, 17, 1)$   
 532 :  $P_{18697} = (8, 7, 17, 1)$   
 533 :  $P_{18733} = (12, 8, 17, 1)$   
 534 :  $P_{18773} = (20, 9, 17, 1)$   
 535 :  $P_{18787} = (2, 10, 17, 1)$   
 536 :  $P_{18824} = (7, 11, 17, 1)$   
 537 :  $P_{18867} = (18, 12, 17, 1)$   
 538 :  $P_{18887} = (6, 13, 17, 1)$   
 539 :  $P_{18919} = (6, 14, 17, 1)$   
 540 :  $P_{18974} = (29, 15, 17, 1)$   
 541 :  $P_{19060} = (19, 18, 17, 1)$   
 542 :  $P_{19076} = (3, 19, 17, 1)$   
 543 :  $P_{19125} = (20, 20, 17, 1)$   
 544 :  $P_{19166} = (29, 21, 17, 1)$   
 545 :  $P_{19181} = (12, 22, 17, 1)$   
 546 :  $P_{19212} = (11, 23, 17, 1)$   
 547 :  $P_{19269} = (4, 25, 17, 1)$   
 548 :  $P_{19326} = (29, 26, 17, 1)$   
 549 :  $P_{19337} = (8, 27, 17, 1)$   
 550 :  $P_{19369} = (8, 28, 17, 1)$   
 551 :  $P_{19413} = (20, 29, 17, 1)$   
 552 :  $P_{19437} = (12, 30, 17, 1)$   
 553 :  $P_{19461} = (4, 31, 17, 1)$   
 554 :  $P_{19511} = (22, 0, 18, 1)$   
 555 :  $P_{19547} = (26, 1, 18, 1)$   
 556 :  $P_{19608} = (23, 3, 18, 1)$   
 557 :  $P_{19640} = (23, 4, 18, 1)$   
 558 :  $P_{19655} = (6, 5, 18, 1)$   
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 560 :  $P_{19736} = (23, 7, 18, 1)$   
 561 :  $P_{19776} = (31, 8, 18, 1)$   
 562 :  $P_{19799} = (22, 9, 18, 1)$   
 563 :  $P_{19821} = (12, 10, 18, 1)$   
 564 :  $P_{19861} = (20, 11, 18, 1)$   
 565 :  $P_{19889} = (16, 12, 18, 1)$   
 566 :  $P_{19919} = (14, 13, 18, 1)$   
 567 :  $P_{19946} = (9, 14, 18, 1)$   
 568 :  $P_{19994} = (25, 15, 18, 1)$   
 569 :  $P_{20016} = (15, 16, 18, 1)$   
 570 :  $P_{20052} = (19, 17, 18, 1)$   
 571 :  $P_{20156} = (27, 20, 18, 1)$   
 572 :  $P_{20186} = (25, 21, 18, 1)$   
 573 :  $P_{20207} = (14, 22, 18, 1)$   
 574 :  $P_{20228} = (3, 23, 18, 1)$   
 575 :  $P_{20275} = (18, 24, 18, 1)$   
 576 :  $P_{20310} = (21, 25, 18, 1)$   
 577 :  $P_{20346} = (25, 26, 18, 1)$   
 578 :  $P_{20367} = (14, 27, 18, 1)$   
 579 :  $P_{20415} = (30, 28, 18, 1)$   
 580 :  $P_{20428} = (11, 29, 18, 1)$   
 581 :  $P_{20467} = (18, 30, 18, 1)$   
 582 :  $P_{20510} = (29, 31, 18, 1)$   
 583 :  $P_{20525} = (12, 0, 19, 1)$



584 :  $P_{20571} = (26, 1, 19, 1)$   
 585 :  $P_{20579} = (2, 2, 19, 1)$   
 586 :  $P_{20622} = (13, 3, 19, 1)$   
 587 :  $P_{20654} = (13, 4, 19, 1)$   
 588 :  $P_{20690} = (17, 5, 19, 1)$   
 589 :  $P_{20734} = (29, 6, 19, 1)$   
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 592 :  $P_{20810} = (9, 9, 19, 1)$   
 593 :  $P_{20840} = (7, 10, 19, 1)$   
 594 :  $P_{20880} = (15, 11, 19, 1)$   
 595 :  $P_{20923} = (26, 12, 19, 1)$   
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 597 :  $P_{20984} = (23, 14, 19, 1)$   
 598 :  $P_{20998} = (5, 15, 19, 1)$   
 599 :  $P_{21045} = (20, 16, 19, 1)$   
 600 :  $P_{21060} = (3, 17, 19, 1)$   
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 603 :  $P_{21231} = (14, 22, 19, 1)$   
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 605 :  $P_{21305} = (24, 24, 19, 1)$   
 606 :  $P_{21340} = (27, 25, 19, 1)$   
 607 :  $P_{21374} = (29, 26, 19, 1)$   
 608 :  $P_{21394} = (17, 27, 19, 1)$   
 609 :  $P_{21438} = (29, 28, 19, 1)$   
 610 :  $P_{21490} = (17, 30, 19, 1)$   
 611 :  $P_{21520} = (15, 31, 19, 1)$   
 612 :  $P_{21561} = (24, 0, 20, 1)$   
 613 :  $P_{21577} = (8, 1, 20, 1)$   
 614 :  $P_{21632} = (31, 2, 20, 1)$   
 615 :  $P_{21638} = (5, 3, 20, 1)$   
 616 :  $P_{21694} = (29, 4, 20, 1)$   
 617 :  $P_{21703} = (6, 5, 20, 1)$   
 618 :  $P_{21752} = (23, 6, 20, 1)$   
 619 :  $P_{21775} = (14, 7, 20, 1)$   
 620 :  $P_{21815} = (22, 8, 20, 1)$   
 621 :  $P_{21834} = (9, 9, 20, 1)$   
 622 :  $P_{21861} = (4, 10, 20, 1)$   
 623 :  $P_{21912} = (23, 11, 20, 1)$   
 624 :  $P_{21937} = (16, 12, 20, 1)$   
 625 :  $P_{21976} = (23, 13, 20, 1)$   
 626 :  $P_{21993} = (8, 14, 20, 1)$   
 627 :  $P_{22025} = (8, 15, 20, 1)$   
 628 :  $P_{22075} = (26, 16, 20, 1)$   
 629 :  $P_{22101} = (20, 17, 20, 1)$   
 630 :  $P_{22140} = (27, 18, 20, 1)$   
 631 :  $P_{22160} = (15, 19, 20, 1)$   
 632 :  $P_{22250} = (9, 22, 20, 1)$   
 633 :  $P_{22301} = (28, 23, 20, 1)$   
 634 :  $P_{22334} = (29, 24, 20, 1)$   
 635 :  $P_{22368} = (31, 25, 20, 1)$   
 636 :  $P_{22382} = (13, 26, 20, 1)$   
 637 :  $P_{22432} = (31, 27, 20, 1)$

638 :  $P_{22462} = (29, 28, 20, 1)$   
 639 :  $P_{22489} = (24, 29, 20, 1)$   
 640 :  $P_{22538} = (9, 31, 20, 1)$   
 641 :  $P_{22577} = (16, 0, 21, 1)$   
 642 :  $P_{22601} = (8, 1, 21, 1)$   
 643 :  $P_{22651} = (26, 2, 21, 1)$   
 644 :  $P_{22675} = (18, 3, 21, 1)$   
 645 :  $P_{22714} = (25, 4, 21, 1)$   
 646 :  $P_{22740} = (19, 5, 21, 1)$   
 647 :  $P_{22773} = (20, 6, 21, 1)$   
 648 :  $P_{22789} = (4, 7, 21, 1)$   
 649 :  $P_{22844} = (27, 8, 21, 1)$   
 650 :  $P_{22873} = (24, 9, 21, 1)$   
 651 :  $P_{22902} = (21, 10, 21, 1)$   
 652 :  $P_{22924} = (11, 11, 21, 1)$   
 653 :  $P_{22955} = (10, 12, 21, 1)$   
 654 :  $P_{23000} = (23, 13, 21, 1)$   
 655 :  $P_{23039} = (30, 14, 21, 1)$   
 656 :  $P_{23053} = (12, 15, 21, 1)$   
 657 :  $P_{23084} = (11, 16, 21, 1)$   
 658 :  $P_{23134} = (29, 17, 21, 1)$   
 659 :  $P_{23162} = (25, 18, 21, 1)$   
 660 :  $P_{23199} = (30, 19, 21, 1)$   
 661 :  $P_{23290} = (25, 22, 21, 1)$   
 662 :  $P_{23319} = (22, 23, 21, 1)$   
 663 :  $P_{23349} = (20, 24, 21, 1)$   
 664 :  $P_{23368} = (7, 25, 21, 1)$   
 665 :  $P_{23436} = (11, 27, 21, 1)$   
 666 :  $P_{23473} = (16, 28, 21, 1)$   
 667 :  $P_{23519} = (30, 29, 21, 1)$   
 668 :  $P_{23541} = (20, 30, 21, 1)$   
 669 :  $P_{23567} = (14, 31, 21, 1)$   
 670 :  $P_{23606} = (21, 0, 22, 1)$   
 671 :  $P_{23631} = (14, 1, 22, 1)$   
 672 :  $P_{23656} = (7, 2, 22, 1)$   
 673 :  $P_{23708} = (27, 3, 22, 1)$   
 674 :  $P_{23722} = (9, 4, 22, 1)$   
 675 :  $P_{23747} = (2, 5, 22, 1)$   
 676 :  $P_{23792} = (15, 6, 22, 1)$   
 677 :  $P_{23833} = (24, 7, 22, 1)$   
 678 :  $P_{23888} = (15, 9, 22, 1)$   
 679 :  $P_{23923} = (18, 10, 22, 1)$   
 680 :  $P_{23941} = (4, 11, 22, 1)$   
 681 :  $P_{23998} = (29, 12, 22, 1)$   
 682 :  $P_{24026} = (25, 13, 22, 1)$   
 683 :  $P_{24039} = (6, 14, 22, 1)$   
 684 :  $P_{24080} = (15, 15, 22, 1)$   
 685 :  $P_{24106} = (9, 16, 22, 1)$   
 686 :  $P_{24141} = (12, 17, 22, 1)$   
 687 :  $P_{24175} = (14, 18, 22, 1)$   
 688 :  $P_{24207} = (14, 19, 22, 1)$   
 689 :  $P_{24234} = (9, 20, 22, 1)$   
 690 :  $P_{24282} = (25, 21, 22, 1)$   
 691 :  $P_{24378} = (25, 24, 22, 1)$

692 :  $P_{24406} = (21, 25, 22, 1)$   
 693 :  $P_{24439} = (22, 26, 22, 1)$   
 694 :  $P_{24454} = (5, 27, 22, 1)$   
 695 :  $P_{24500} = (19, 28, 22, 1)$   
 696 :  $P_{24520} = (7, 29, 22, 1)$   
 697 :  $P_{24558} = (13, 30, 22, 1)$   
 698 :  $P_{24584} = (7, 31, 22, 1)$   
 699 :  $P_{24636} = (27, 0, 23, 1)$   
 700 :  $P_{24655} = (14, 1, 23, 1)$   
 701 :  $P_{24680} = (7, 2, 23, 1)$   
 702 :  $P_{24735} = (30, 3, 23, 1)$   
 703 :  $P_{24768} = (31, 4, 23, 1)$   
 704 :  $P_{24821} = (20, 6, 23, 1)$   
 705 :  $P_{24839} = (6, 7, 23, 1)$   
 706 :  $P_{24887} = (22, 8, 23, 1)$   
 707 :  $P_{24916} = (19, 9, 23, 1)$   
 708 :  $P_{24937} = (8, 10, 23, 1)$   
 709 :  $P_{24981} = (20, 11, 23, 1)$   
 710 :  $P_{25003} = (10, 12, 23, 1)$   
 711 :  $P_{25045} = (20, 13, 23, 1)$   
 712 :  $P_{25061} = (4, 14, 23, 1)$   
 713 :  $P_{25110} = (21, 15, 23, 1)$   
 714 :  $P_{25126} = (5, 16, 23, 1)$   
 715 :  $P_{25164} = (11, 17, 23, 1)$   
 716 :  $P_{25188} = (3, 18, 23, 1)$   
 717 :  $P_{25225} = (8, 19, 23, 1)$   
 718 :  $P_{25277} = (28, 20, 23, 1)$   
 719 :  $P_{25303} = (22, 21, 23, 1)$   
 720 :  $P_{25404} = (27, 24, 23, 1)$   
 721 :  $P_{25417} = (8, 25, 23, 1)$   
 722 :  $P_{25466} = (25, 26, 23, 1)$   
 723 :  $P_{25504} = (31, 27, 23, 1)$   
 724 :  $P_{25518} = (13, 28, 23, 1)$   
 725 :  $P_{25559} = (22, 29, 23, 1)$   
 726 :  $P_{25592} = (23, 30, 23, 1)$   
 727 :  $P_{25632} = (31, 31, 23, 1)$   
 728 :  $P_{25635} = (2, 0, 24, 1)$   
 729 :  $P_{25695} = (30, 1, 24, 1)$   
 730 :  $P_{25715} = (18, 2, 24, 1)$   
 731 :  $P_{25735} = (6, 3, 24, 1)$   
 732 :  $P_{25782} = (21, 4, 24, 1)$   
 733 :  $P_{25812} = (19, 5, 24, 1)$   
 734 :  $P_{25835} = (10, 6, 24, 1)$   
 735 :  $P_{25859} = (2, 7, 24, 1)$   
 736 :  $P_{25899} = (10, 8, 24, 1)$   
 737 :  $P_{25926} = (5, 9, 24, 1)$   
 738 :  $P_{25978} = (25, 10, 24, 1)$   
 739 :  $P_{25993} = (8, 11, 24, 1)$   
 740 :  $P_{26032} = (15, 12, 24, 1)$   
 741 :  $P_{26066} = (17, 13, 24, 1)$   
 742 :  $P_{26091} = (10, 14, 24, 1)$   
 743 :  $P_{26142} = (29, 15, 24, 1)$   
 744 :  $P_{26163} = (18, 16, 24, 1)$   
 745 :  $P_{26227} = (18, 18, 24, 1)$

746 :  $P_{26265} = (24, 19, 24, 1)$   
 747 :  $P_{26302} = (29, 20, 24, 1)$   
 748 :  $P_{26325} = (20, 21, 24, 1)$   
 749 :  $P_{26362} = (25, 22, 24, 1)$   
 750 :  $P_{26396} = (27, 23, 24, 1)$   
 751 :  $P_{26479} = (14, 26, 24, 1)$   
 752 :  $P_{26526} = (29, 27, 24, 1)$   
 753 :  $P_{26554} = (25, 28, 24, 1)$   
 754 :  $P_{26584} = (23, 29, 24, 1)$   
 755 :  $P_{26609} = (16, 30, 24, 1)$   
 756 :  $P_{26653} = (28, 31, 24, 1)$   
 757 :  $P_{26685} = (28, 0, 25, 1)$   
 758 :  $P_{26719} = (30, 1, 25, 1)$   
 759 :  $P_{26738} = (17, 2, 25, 1)$   
 760 :  $P_{26778} = (25, 3, 25, 1)$   
 761 :  $P_{26806} = (21, 4, 25, 1)$   
 762 :  $P_{26819} = (2, 5, 25, 1)$   
 763 :  $P_{26877} = (28, 6, 25, 1)$   
 764 :  $P_{26887} = (6, 7, 25, 1)$   
 765 :  $P_{26943} = (30, 8, 25, 1)$   
 766 :  $P_{26975} = (30, 9, 25, 1)$   
 767 :  $P_{27040} = (31, 11, 25, 1)$   
 768 :  $P_{27067} = (26, 12, 25, 1)$   
 769 :  $P_{27084} = (11, 13, 25, 1)$   
 770 :  $P_{27114} = (9, 14, 25, 1)$   
 771 :  $P_{27153} = (16, 15, 25, 1)$   
 772 :  $P_{27180} = (11, 16, 25, 1)$   
 773 :  $P_{27205} = (4, 17, 25, 1)$   
 774 :  $P_{27254} = (21, 18, 25, 1)$   
 775 :  $P_{27292} = (27, 19, 25, 1)$   
 776 :  $P_{27328} = (31, 20, 25, 1)$   
 777 :  $P_{27336} = (7, 21, 25, 1)$   
 778 :  $P_{27382} = (21, 22, 25, 1)$   
 779 :  $P_{27401} = (8, 23, 25, 1)$   
 780 :  $P_{27511} = (22, 26, 25, 1)$   
 781 :  $P_{27527} = (6, 27, 25, 1)$   
 782 :  $P_{27559} = (6, 28, 25, 1)$   
 783 :  $P_{27596} = (11, 29, 25, 1)$   
 784 :  $P_{27637} = (20, 30, 25, 1)$   
 785 :  $P_{27680} = (31, 31, 25, 1)$   
 786 :  $P_{27692} = (11, 0, 26, 1)$   
 787 :  $P_{27737} = (24, 1, 26, 1)$   
 788 :  $P_{27774} = (29, 2, 26, 1)$   
 789 :  $P_{27788} = (11, 3, 26, 1)$   
 790 :  $P_{27823} = (14, 4, 26, 1)$   
 791 :  $P_{27866} = (25, 5, 26, 1)$   
 792 :  $P_{27876} = (3, 6, 26, 1)$   
 793 :  $P_{27936} = (31, 7, 26, 1)$   
 794 :  $P_{27940} = (3, 8, 26, 1)$   
 795 :  $P_{27982} = (13, 9, 26, 1)$   
 796 :  $P_{28018} = (17, 10, 26, 1)$   
 797 :  $P_{28043} = (10, 11, 26, 1)$   
 798 :  $P_{28074} = (9, 12, 26, 1)$   
 799 :  $P_{28112} = (15, 13, 26, 1)$

800 :  $P_{28132} = (3, 14, 26, 1)$   
 801 :  $P_{28183} = (22, 15, 26, 1)$   
 802 :  $P_{28214} = (21, 16, 26, 1)$   
 803 :  $P_{28254} = (29, 17, 26, 1)$   
 804 :  $P_{28282} = (25, 18, 26, 1)$   
 805 :  $P_{28318} = (29, 19, 26, 1)$   
 806 :  $P_{28334} = (13, 20, 26, 1)$   
 807 :  $P_{28407} = (22, 22, 26, 1)$   
 808 :  $P_{28442} = (25, 23, 26, 1)$   
 809 :  $P_{28463} = (14, 24, 26, 1)$   
 810 :  $P_{28503} = (22, 25, 26, 1)$   
 811 :  $P_{28591} = (14, 28, 26, 1)$   
 812 :  $P_{28622} = (13, 29, 26, 1)$   
 813 :  $P_{28657} = (16, 30, 26, 1)$   
 814 :  $P_{28701} = (28, 31, 26, 1)$   
 815 :  $P_{28724} = (19, 0, 27, 1)$   
 816 :  $P_{28761} = (24, 1, 27, 1)$   
 817 :  $P_{28788} = (19, 2, 27, 1)$   
 818 :  $P_{28832} = (31, 3, 27, 1)$   
 819 :  $P_{28863} = (30, 4, 27, 1)$   
 820 :  $P_{28888} = (23, 5, 27, 1)$   
 821 :  $P_{28912} = (15, 6, 27, 1)$   
 822 :  $P_{28941} = (12, 7, 27, 1)$   
 823 :  $P_{28964} = (3, 8, 27, 1)$   
 824 :  $P_{29023} = (30, 9, 27, 1)$   
 825 :  $P_{29047} = (22, 10, 27, 1)$   
 826 :  $P_{29075} = (18, 11, 27, 1)$   
 827 :  $P_{29109} = (20, 12, 27, 1)$   
 828 :  $P_{29151} = (30, 13, 27, 1)$   
 829 :  $P_{29157} = (4, 14, 27, 1)$   
 830 :  $P_{29206} = (21, 15, 27, 1)$   
 831 :  $P_{29227} = (10, 16, 27, 1)$   
 832 :  $P_{29257} = (8, 17, 27, 1)$   
 833 :  $P_{29295} = (14, 18, 27, 1)$   
 834 :  $P_{29330} = (17, 19, 27, 1)$   
 835 :  $P_{29376} = (31, 20, 27, 1)$   
 836 :  $P_{29388} = (11, 21, 27, 1)$   
 837 :  $P_{29414} = (5, 22, 27, 1)$   
 838 :  $P_{29472} = (31, 23, 27, 1)$   
 839 :  $P_{29502} = (29, 24, 27, 1)$   
 840 :  $P_{29511} = (6, 25, 27, 1)$   
 841 :  $P_{29625} = (24, 28, 27, 1)$   
 842 :  $P_{29657} = (24, 29, 27, 1)$   
 843 :  $P_{29692} = (27, 30, 27, 1)$   
 844 :  $P_{29742} = (13, 0, 28, 1)$   
 845 :  $P_{29771} = (10, 1, 28, 1)$   
 846 :  $P_{29808} = (15, 2, 28, 1)$   
 847 :  $P_{29860} = (3, 4, 28, 1)$   
 848 :  $P_{29898} = (9, 5, 28, 1)$   
 849 :  $P_{29942} = (21, 6, 28, 1)$   
 850 :  $P_{29982} = (29, 7, 28, 1)$   
 851 :  $P_{30004} = (19, 8, 28, 1)$   
 852 :  $P_{30023} = (6, 9, 28, 1)$   
 853 :  $P_{30051} = (2, 10, 28, 1)$

854 :  $P_{30088} = (7, 11, 28, 1)$   
 855 :  $P_{30135} = (22, 12, 28, 1)$   
 856 :  $P_{30160} = (15, 13, 28, 1)$   
 857 :  $P_{30205} = (28, 14, 28, 1)$   
 858 :  $P_{30224} = (15, 15, 28, 1)$   
 859 :  $P_{30247} = (6, 16, 28, 1)$   
 860 :  $P_{30281} = (8, 17, 28, 1)$   
 861 :  $P_{30335} = (30, 18, 28, 1)$   
 862 :  $P_{30366} = (29, 19, 28, 1)$   
 863 :  $P_{30398} = (29, 20, 28, 1)$   
 864 :  $P_{30417} = (16, 21, 28, 1)$   
 865 :  $P_{30452} = (19, 22, 28, 1)$   
 866 :  $P_{30478} = (13, 23, 28, 1)$   
 867 :  $P_{30522} = (25, 24, 28, 1)$   
 868 :  $P_{30535} = (6, 25, 28, 1)$   
 869 :  $P_{30575} = (14, 26, 28, 1)$   
 870 :  $P_{30617} = (24, 27, 28, 1)$   
 871 :  $P_{30708} = (19, 30, 28, 1)$   
 872 :  $P_{30747} = (26, 31, 28, 1)$   
 873 :  $P_{30760} = (7, 0, 29, 1)$   
 874 :  $P_{30795} = (10, 1, 29, 1)$   
 875 :  $P_{30835} = (18, 2, 29, 1)$   
 876 :  $P_{30876} = (27, 3, 29, 1)$   
 877 :  $P_{30899} = (18, 4, 29, 1)$   
 878 :  $P_{30930} = (17, 5, 29, 1)$   
 879 :  $P_{30963} = (18, 6, 29, 1)$   
 880 :  $P_{30999} = (22, 7, 29, 1)$   
 881 :  $P_{31040} = (31, 8, 29, 1)$   
 882 :  $P_{31043} = (2, 9, 29, 1)$   
 883 :  $P_{31098} = (25, 10, 29, 1)$   
 884 :  $P_{31116} = (11, 11, 29, 1)$   
 885 :  $P_{31166} = (29, 12, 29, 1)$   
 886 :  $P_{31172} = (3, 13, 29, 1)$   
 887 :  $P_{31217} = (16, 14, 29, 1)$   
 888 :  $P_{31257} = (24, 15, 29, 1)$   
 889 :  $P_{31287} = (22, 16, 29, 1)$   
 890 :  $P_{31317} = (20, 17, 29, 1)$   
 891 :  $P_{31340} = (11, 18, 29, 1)$   
 892 :  $P_{31417} = (24, 20, 29, 1)$   
 893 :  $P_{31455} = (30, 21, 29, 1)$   
 894 :  $P_{31464} = (7, 22, 29, 1)$   
 895 :  $P_{31511} = (22, 23, 29, 1)$   
 896 :  $P_{31544} = (23, 24, 29, 1)$   
 897 :  $P_{31564} = (11, 25, 29, 1)$   
 898 :  $P_{31598} = (13, 26, 29, 1)$   
 899 :  $P_{31641} = (24, 27, 29, 1)$   
 900 :  $P_{31723} = (10, 30, 29, 1)$   
 901 :  $P_{31755} = (10, 31, 29, 1)$   
 902 :  $P_{31794} = (17, 0, 30, 1)$   
 903 :  $P_{31821} = (12, 1, 30, 1)$   
 904 :  $P_{31857} = (16, 2, 30, 1)$   
 905 :  $P_{31878} = (5, 3, 30, 1)$   
 906 :  $P_{31911} = (6, 4, 30, 1)$   
 907 :  $P_{31963} = (26, 5, 30, 1)$

908 :  $P_{31980} = (11, 6, 30, 1)$   
 909 :  $P_{32015} = (14, 7, 30, 1)$   
 910 :  $P_{32057} = (24, 8, 30, 1)$   
 911 :  $P_{32076} = (11, 9, 30, 1)$   
 912 :  $P_{32125} = (28, 10, 30, 1)$   
 913 :  $P_{32132} = (3, 11, 30, 1)$   
 914 :  $P_{32181} = (20, 12, 30, 1)$   
 915 :  $P_{32198} = (5, 13, 30, 1)$   
 916 :  $P_{32230} = (5, 14, 30, 1)$   
 917 :  $P_{32268} = (11, 15, 30, 1)$   
 918 :  $P_{32301} = (12, 16, 30, 1)$   
 919 :  $P_{32333} = (12, 17, 30, 1)$   
 920 :  $P_{32371} = (18, 18, 30, 1)$   
 921 :  $P_{32402} = (17, 19, 30, 1)$   
 922 :  $P_{32469} = (20, 21, 30, 1)$   
 923 :  $P_{32494} = (13, 22, 30, 1)$   
 924 :  $P_{32536} = (23, 23, 30, 1)$   
 925 :  $P_{32561} = (16, 24, 30, 1)$   
 926 :  $P_{32597} = (20, 25, 30, 1)$   
 927 :  $P_{32625} = (16, 26, 30, 1)$   
 928 :  $P_{32668} = (27, 27, 30, 1)$   
 929 :  $P_{32692} = (19, 28, 30, 1)$   
 930 :  $P_{32715} = (10, 29, 30, 1)$   
 931 :  $P_{32830} = (29, 0, 31, 1)$   
 932 :  $P_{32845} = (12, 1, 31, 1)$   
 933 :  $P_{32893} = (28, 2, 31, 1)$   
 934 :  $P_{32922} = (25, 3, 31, 1)$   
 935 :  $P_{32940} = (11, 4, 31, 1)$   
 936 :  $P_{32991} = (30, 5, 31, 1)$   
 937 :  $P_{33006} = (13, 6, 31, 1)$   
 938 :  $P_{33047} = (22, 7, 31, 1)$   
 939 :  $P_{33074} = (17, 8, 31, 1)$   
 940 :  $P_{33095} = (6, 9, 31, 1)$   
 941 :  $P_{33139} = (18, 10, 31, 1)$   
 942 :  $P_{33175} = (22, 11, 31, 1)$   
 943 :  $P_{33207} = (22, 12, 31, 1)$   
 944 :  $P_{33227} = (10, 13, 31, 1)$   
 945 :  $P_{33280} = (31, 14, 31, 1)$   
 946 :  $P_{33301} = (20, 15, 31, 1)$   
 947 :  $P_{33323} = (10, 16, 31, 1)$   
 948 :  $P_{33349} = (4, 17, 31, 1)$   
 949 :  $P_{33406} = (29, 18, 31, 1)$   
 950 :  $P_{33424} = (15, 19, 31, 1)$   
 951 :  $P_{33450} = (9, 20, 31, 1)$   
 952 :  $P_{33487} = (14, 21, 31, 1)$   
 953 :  $P_{33512} = (7, 22, 31, 1)$   
 954 :  $P_{33568} = (31, 23, 31, 1)$   
 955 :  $P_{33597} = (28, 24, 31, 1)$   
 956 :  $P_{33632} = (31, 25, 31, 1)$   
 957 :  $P_{33661} = (28, 26, 31, 1)$   
 958 :  $P_{33723} = (26, 28, 31, 1)$   
 959 :  $P_{33739} = (10, 29, 31, 1)$

## Line Intersection Graph

0	1 2
0	0 1 0
1	1 0 1
2	0 1 0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	$\ell_1$
in point	$P_{2114}$

Line 1 intersects

Line	$\ell_0$	$\ell_2$
in point	$P_{2114}$	$P_{67}$

Line 2 intersects

Line	$\ell_1$
in point	$P_{67}$

The surface has 1057 points:

Too many to print.