

Rank-65904 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(32) is -2079258586

General information

Number of lines	0
Number of points	993
Number of singular points	0
Number of Eckardt points	0
Number of double points	0
Number of single points	0
Number of points off lines	993
Number of Hesse planes	0
Number of axes	0
Type of points on lines	
Type of lines on points	0^{993}

Singular Points

The surface has 0 singular points:

The 0 Lines

The lines and their Pluecker coordinates are:

Rank of lines: ()

Rank of points on Klein quadric: ()

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 0 Double points:

The double points on the surface are:

Single Points

The surface has 0 single points:

The single points on the surface are:

The single points on the surface are:

Points on surface but on no line

The surface has 993 points not on any line:

The points on the surface but not on lines are:

0 : $P_1 = (0, 1, 0, 0)$	27 : $P_{2236} = (27, 4, 1, 1)$
1 : $P_{67} = (0, 1, 1, 0)$	28 : $P_{2250} = (9, 5, 1, 1)$
2 : $P_{121} = (22, 2, 1, 0)$	29 : $P_{2263} = (22, 5, 1, 1)$
3 : $P_{188} = (25, 4, 1, 0)$	30 : $P_{2272} = (31, 5, 1, 1)$
4 : $P_{256} = (29, 6, 1, 0)$	31 : $P_{2362} = (25, 8, 1, 1)$
5 : $P_{273} = (14, 7, 1, 0)$	32 : $P_{2373} = (4, 9, 1, 1)$
6 : $P_{337} = (14, 9, 1, 0)$	33 : $P_{2407} = (6, 10, 1, 1)$
7 : $P_{417} = (30, 11, 1, 0)$	34 : $P_{2449} = (16, 11, 1, 1)$
8 : $P_{471} = (20, 13, 1, 0)$	35 : $P_{2471} = (6, 12, 1, 1)$
9 : $P_{534} = (19, 15, 1, 0)$	36 : $P_{2474} = (9, 12, 1, 1)$
10 : $P_{553} = (6, 16, 1, 0)$	37 : $P_{2480} = (15, 12, 1, 1)$
11 : $P_{621} = (10, 18, 1, 0)$	38 : $P_{2501} = (4, 13, 1, 1)$
12 : $P_{697} = (22, 20, 1, 0)$	39 : $P_{2549} = (20, 14, 1, 1)$
13 : $P_{737} = (30, 21, 1, 0)$	40 : $P_{2574} = (13, 15, 1, 1)$
14 : $P_{745} = (6, 22, 1, 0)$	41 : $P_{2595} = (2, 16, 1, 1)$
15 : $P_{779} = (8, 23, 1, 0)$	42 : $P_{2636} = (11, 17, 1, 1)$
16 : $P_{813} = (10, 24, 1, 0)$	43 : $P_{2643} = (18, 17, 1, 1)$
17 : $P_{855} = (20, 25, 1, 0)$	44 : $P_{2650} = (25, 17, 1, 1)$
18 : $P_{928} = (29, 27, 1, 0)$	45 : $P_{2659} = (2, 18, 1, 1)$
19 : $P_{950} = (19, 28, 1, 0)$	46 : $P_{2711} = (22, 19, 1, 1)$
20 : $P_{988} = (25, 29, 1, 0)$	47 : $P_{2924} = (11, 26, 1, 1)$
21 : $P_{1035} = (8, 31, 1, 0)$	48 : $P_{2933} = (20, 26, 1, 1)$
22 : $P_{2082} = (0, 0, 1, 1)$	49 : $P_{2944} = (31, 26, 1, 1)$
23 : $P_{2158} = (13, 2, 1, 1)$	50 : $P_{2961} = (16, 27, 1, 1)$
24 : $P_{2192} = (15, 3, 1, 1)$	51 : $P_{3070} = (29, 30, 1, 1)$
25 : $P_{2195} = (18, 3, 1, 1)$	52 : $P_{3100} = (27, 31, 1, 1)$
26 : $P_{2206} = (29, 3, 1, 1)$	53 : $P_{3110} = (5, 0, 2, 1)$

54 : $P_{3177} = (8, 2, 2, 1)$	108 : $P_{5141} = (20, 31, 3, 1)$
55 : $P_{3215} = (14, 3, 2, 1)$	109 : $P_{5170} = (17, 0, 4, 1)$
56 : $P_{3270} = (5, 5, 2, 1)$	110 : $P_{5229} = (12, 2, 4, 1)$
57 : $P_{3381} = (20, 8, 2, 1)$	111 : $P_{5274} = (25, 3, 4, 1)$
58 : $P_{3421} = (28, 9, 2, 1)$	112 : $P_{5291} = (10, 4, 4, 1)$
59 : $P_{3433} = (8, 10, 2, 1)$	113 : $P_{5343} = (30, 5, 4, 1)$
60 : $P_{3442} = (17, 10, 2, 1)$	114 : $P_{5391} = (14, 7, 4, 1)$
61 : $P_{3451} = (26, 10, 2, 1)$	115 : $P_{5455} = (14, 9, 4, 1)$
62 : $P_{3478} = (21, 11, 2, 1)$	116 : $P_{5457} = (16, 9, 4, 1)$
63 : $P_{3511} = (22, 12, 2, 1)$	117 : $P_{5468} = (27, 9, 4, 1)$
64 : $P_{3535} = (14, 13, 2, 1)$	118 : $P_{5502} = (29, 10, 4, 1)$
65 : $P_{3615} = (30, 15, 2, 1)$	119 : $P_{5528} = (23, 11, 4, 1)$
66 : $P_{3643} = (26, 16, 2, 1)$	120 : $P_{5556} = (19, 12, 4, 1)$
67 : $P_{3679} = (30, 17, 2, 1)$	121 : $P_{5572} = (3, 13, 4, 1)$
68 : $P_{3685} = (4, 18, 2, 1)$	122 : $P_{5604} = (3, 14, 4, 1)$
69 : $P_{3691} = (10, 18, 2, 1)$	123 : $P_{5611} = (10, 14, 4, 1)$
70 : $P_{3694} = (13, 18, 2, 1)$	124 : $P_{5613} = (12, 14, 4, 1)$
71 : $P_{3805} = (28, 21, 2, 1)$	125 : $P_{5661} = (28, 15, 4, 1)$
72 : $P_{3813} = (4, 22, 2, 1)$	126 : $P_{5714} = (17, 17, 4, 1)$
73 : $P_{3883} = (10, 24, 2, 1)$	127 : $P_{5734} = (5, 18, 4, 1)$
74 : $P_{3959} = (22, 26, 2, 1)$	128 : $P_{5756} = (27, 18, 4, 1)$
75 : $P_{3986} = (17, 27, 2, 1)$	129 : $P_{5789} = (28, 19, 4, 1)$
76 : $P_{4004} = (3, 28, 2, 1)$	130 : $P_{5857} = (0, 22, 4, 1)$
77 : $P_{4021} = (20, 28, 2, 1)$	131 : $P_{5894} = (5, 23, 4, 1)$
78 : $P_{4033} = (0, 29, 2, 1)$	132 : $P_{5918} = (29, 23, 4, 1)$
79 : $P_{4086} = (21, 30, 2, 1)$	133 : $P_{5969} = (16, 25, 4, 1)$
80 : $P_{4100} = (3, 31, 2, 1)$	134 : $P_{6010} = (25, 26, 4, 1)$
81 : $P_{4110} = (13, 31, 2, 1)$	135 : $P_{6047} = (30, 27, 4, 1)$
82 : $P_{4137} = (8, 0, 3, 1)$	136 : $P_{6072} = (23, 28, 4, 1)$
83 : $P_{4152} = (23, 0, 3, 1)$	137 : $P_{6164} = (19, 31, 4, 1)$
84 : $P_{4158} = (29, 0, 3, 1)$	138 : $P_{6187} = (10, 0, 5, 1)$
85 : $P_{4237} = (12, 3, 3, 1)$	139 : $P_{6199} = (22, 0, 5, 1)$
86 : $P_{4270} = (13, 4, 3, 1)$	140 : $P_{6201} = (24, 0, 5, 1)$
87 : $P_{4393} = (8, 8, 3, 1)$	141 : $P_{6363} = (26, 5, 5, 1)$
88 : $P_{4419} = (2, 9, 3, 1)$	142 : $P_{6390} = (21, 6, 5, 1)$
89 : $P_{4430} = (13, 9, 3, 1)$	143 : $P_{6426} = (25, 7, 5, 1)$
90 : $P_{4483} = (2, 11, 3, 1)$	144 : $P_{6470} = (5, 9, 5, 1)$
91 : $P_{4501} = (20, 11, 3, 1)$	145 : $P_{6495} = (30, 9, 5, 1)$
92 : $P_{4561} = (16, 13, 3, 1)$	146 : $P_{6496} = (31, 9, 5, 1)$
93 : $P_{4599} = (22, 14, 3, 1)$	147 : $P_{6507} = (10, 10, 5, 1)$
94 : $P_{4621} = (12, 15, 3, 1)$	148 : $P_{6533} = (4, 11, 5, 1)$
95 : $P_{4676} = (3, 17, 3, 1)$	149 : $P_{6556} = (27, 11, 5, 1)$
96 : $P_{4708} = (3, 18, 3, 1)$	150 : $P_{6566} = (5, 12, 5, 1)$
97 : $P_{4719} = (14, 18, 3, 1)$	151 : $P_{6661} = (4, 15, 5, 1)$
98 : $P_{4720} = (15, 18, 3, 1)$	152 : $P_{6686} = (29, 15, 5, 1)$
99 : $P_{4833} = (0, 22, 3, 1)$	153 : $P_{6716} = (27, 16, 5, 1)$
100 : $P_{4888} = (23, 23, 3, 1)$	154 : $P_{6782} = (29, 18, 5, 1)$
101 : $P_{4919} = (22, 24, 3, 1)$	155 : $P_{6806} = (21, 19, 5, 1)$
102 : $P_{4936} = (7, 25, 3, 1)$	156 : $P_{6894} = (13, 22, 5, 1)$
103 : $P_{5039} = (14, 28, 3, 1)$	157 : $P_{6903} = (22, 22, 5, 1)$
104 : $P_{5072} = (15, 29, 3, 1)$	158 : $P_{6912} = (31, 22, 5, 1)$
105 : $P_{5073} = (16, 29, 3, 1)$	159 : $P_{6943} = (30, 23, 5, 1)$
106 : $P_{5086} = (29, 29, 3, 1)$	160 : $P_{6969} = (24, 24, 5, 1)$
107 : $P_{5096} = (7, 30, 3, 1)$	161 : $P_{6977} = (0, 25, 5, 1)$

162 : $P_{7054} = (13, 27, 5, 1)$
 163 : $P_{7162} = (25, 30, 5, 1)$
 164 : $P_{7195} = (26, 31, 5, 1)$
 165 : $P_{7274} = (9, 2, 6, 1)$
 166 : $P_{7310} = (13, 3, 6, 1)$
 167 : $P_{7314} = (17, 3, 6, 1)$
 168 : $P_{7324} = (27, 3, 6, 1)$
 169 : $P_{7332} = (3, 4, 6, 1)$
 170 : $P_{7384} = (23, 5, 6, 1)$
 171 : $P_{7417} = (24, 6, 6, 1)$
 172 : $P_{7428} = (3, 7, 6, 1)$
 173 : $P_{7486} = (29, 8, 6, 1)$
 174 : $P_{7514} = (25, 9, 6, 1)$
 175 : $P_{7562} = (9, 11, 6, 1)$
 176 : $P_{7571} = (18, 11, 6, 1)$
 177 : $P_{7581} = (28, 11, 6, 1)$
 178 : $P_{7585} = (0, 12, 6, 1)$
 179 : $P_{7662} = (13, 14, 6, 1)$
 180 : $P_{7665} = (16, 14, 6, 1)$
 181 : $P_{7675} = (26, 14, 6, 1)$
 182 : $P_{7738} = (25, 16, 6, 1)$
 183 : $P_{7760} = (15, 17, 6, 1)$
 184 : $P_{7778} = (1, 18, 6, 1)$
 185 : $P_{7794} = (17, 18, 6, 1)$
 186 : $P_{7800} = (23, 18, 6, 1)$
 187 : $P_{7810} = (1, 19, 6, 1)$
 188 : $P_{7867} = (26, 20, 6, 1)$
 189 : $P_{7902} = (29, 21, 6, 1)$
 190 : $P_{7965} = (28, 23, 6, 1)$
 191 : $P_{7996} = (27, 24, 6, 1)$
 192 : $P_{8019} = (18, 25, 6, 1)$
 193 : $P_{8176} = (15, 30, 6, 1)$
 194 : $P_{8177} = (16, 30, 6, 1)$
 195 : $P_{8185} = (24, 30, 6, 1)$
 196 : $P_{8229} = (4, 0, 7, 1)$
 197 : $P_{8241} = (16, 0, 7, 1)$
 198 : $P_{8243} = (18, 0, 7, 1)$
 199 : $P_{8315} = (26, 2, 7, 1)$
 200 : $P_{8326} = (5, 3, 7, 1)$
 201 : $P_{8342} = (21, 3, 7, 1)$
 202 : $P_{8343} = (22, 3, 7, 1)$
 203 : $P_{8357} = (4, 4, 7, 1)$
 204 : $P_{8399} = (14, 5, 7, 1)$
 205 : $P_{8404} = (19, 5, 7, 1)$
 206 : $P_{8412} = (27, 5, 7, 1)$
 207 : $P_{8422} = (5, 6, 7, 1)$
 208 : $P_{8464} = (15, 7, 7, 1)$
 209 : $P_{8496} = (15, 8, 7, 1)$
 210 : $P_{8536} = (23, 9, 7, 1)$
 211 : $P_{8591} = (14, 11, 7, 1)$
 212 : $P_{8701} = (28, 14, 7, 1)$
 213 : $P_{8753} = (16, 16, 7, 1)$
 214 : $P_{8809} = (8, 18, 7, 1)$
 215 : $P_{8819} = (18, 18, 7, 1)$

216 : $P_{8829} = (28, 18, 7, 1)$
 217 : $P_{8840} = (7, 19, 7, 1)$
 218 : $P_{8872} = (7, 20, 7, 1)$
 219 : $P_{8875} = (10, 20, 7, 1)$
 220 : $P_{8876} = (11, 20, 7, 1)$
 221 : $P_{8919} = (22, 21, 7, 1)$
 222 : $P_{8929} = (0, 22, 7, 1)$
 223 : $P_{8948} = (19, 22, 7, 1)$
 224 : $P_{8950} = (21, 22, 7, 1)$
 225 : $P_{9019} = (26, 24, 7, 1)$
 226 : $P_{9065} = (8, 26, 7, 1)$
 227 : $P_{9195} = (10, 30, 7, 1)$
 228 : $P_{9208} = (23, 30, 7, 1)$
 229 : $P_{9212} = (27, 30, 7, 1)$
 230 : $P_{9228} = (11, 31, 7, 1)$
 231 : $P_{9321} = (8, 2, 8, 1)$
 232 : $P_{9401} = (24, 4, 8, 1)$
 233 : $P_{9488} = (15, 7, 8, 1)$
 234 : $P_{9498} = (25, 7, 8, 1)$
 235 : $P_{9504} = (31, 7, 8, 1)$
 236 : $P_{9520} = (15, 8, 8, 1)$
 237 : $P_{9524} = (19, 8, 8, 1)$
 238 : $P_{9526} = (21, 8, 8, 1)$
 239 : $P_{9575} = (6, 10, 8, 1)$
 240 : $P_{9576} = (7, 10, 8, 1)$
 241 : $P_{9577} = (8, 10, 8, 1)$
 242 : $P_{9605} = (4, 11, 8, 1)$
 243 : $P_{9617} = (16, 11, 8, 1)$
 244 : $P_{9630} = (29, 11, 8, 1)$
 245 : $P_{9639} = (6, 12, 8, 1)$
 246 : $P_{9650} = (17, 12, 8, 1)$
 247 : $P_{9663} = (30, 12, 8, 1)$
 248 : $P_{9672} = (7, 13, 8, 1)$
 249 : $P_{9733} = (4, 15, 8, 1)$
 250 : $P_{9762} = (1, 16, 8, 1)$
 251 : $P_{9766} = (5, 16, 8, 1)$
 252 : $P_{9774} = (13, 16, 8, 1)$
 253 : $P_{9794} = (1, 17, 8, 1)$
 254 : $P_{9795} = (2, 17, 8, 1)$
 255 : $P_{9803} = (10, 17, 8, 1)$
 256 : $P_{9855} = (30, 18, 8, 1)$
 257 : $P_{9859} = (2, 19, 8, 1)$
 258 : $P_{9921} = (0, 21, 8, 1)$
 259 : $P_{9926} = (5, 21, 8, 1)$
 260 : $P_{9933} = (12, 21, 8, 1)$
 261 : $P_{9982} = (29, 22, 8, 1)$
 262 : $P_{10048} = (31, 24, 8, 1)$
 263 : $P_{10061} = (12, 25, 8, 1)$
 264 : $P_{10123} = (10, 27, 8, 1)$
 265 : $P_{10129} = (16, 27, 8, 1)$
 266 : $P_{10132} = (19, 27, 8, 1)$
 267 : $P_{10169} = (24, 28, 8, 1)$
 268 : $P_{10190} = (13, 29, 8, 1)$
 269 : $P_{10194} = (17, 29, 8, 1)$

270 : $P_{10198} = (21, 29, 8, 1)$
 271 : $P_{10234} = (25, 30, 8, 1)$
 272 : $P_{10286} = (13, 0, 9, 1)$
 273 : $P_{10347} = (10, 2, 9, 1)$
 274 : $P_{10462} = (29, 5, 9, 1)$
 275 : $P_{10508} = (11, 7, 9, 1)$
 276 : $P_{10539} = (10, 8, 9, 1)$
 277 : $P_{10566} = (5, 9, 9, 1)$
 278 : $P_{10599} = (6, 10, 9, 1)$
 279 : $P_{10625} = (0, 11, 9, 1)$
 280 : $P_{10641} = (16, 11, 9, 1)$
 281 : $P_{10649} = (24, 11, 9, 1)$
 282 : $P_{10662} = (5, 12, 9, 1)$
 283 : $P_{10663} = (6, 12, 9, 1)$
 284 : $P_{10668} = (11, 12, 9, 1)$
 285 : $P_{10702} = (13, 13, 9, 1)$
 286 : $P_{10740} = (19, 14, 9, 1)$
 287 : $P_{10797} = (12, 16, 9, 1)$
 288 : $P_{10824} = (7, 17, 9, 1)$
 289 : $P_{10905} = (24, 19, 9, 1)$
 290 : $P_{10984} = (7, 22, 9, 1)$
 291 : $P_{11018} = (9, 23, 9, 1)$
 292 : $P_{11070} = (29, 24, 9, 1)$
 293 : $P_{11153} = (16, 27, 9, 1)$
 294 : $P_{11181} = (12, 28, 9, 1)$
 295 : $P_{11220} = (19, 29, 9, 1)$
 296 : $P_{11242} = (9, 30, 9, 1)$
 297 : $P_{11369} = (8, 2, 10, 1)$
 298 : $P_{11374} = (13, 2, 10, 1)$
 299 : $P_{11375} = (14, 2, 10, 1)$
 300 : $P_{11435} = (10, 4, 10, 1)$
 301 : $P_{11515} = (26, 6, 10, 1)$
 302 : $P_{11539} = (18, 7, 10, 1)$
 303 : $P_{11557} = (4, 8, 10, 1)$
 304 : $P_{11604} = (19, 9, 10, 1)$
 305 : $P_{11625} = (8, 10, 10, 1)$
 306 : $P_{11645} = (28, 10, 10, 1)$
 307 : $P_{11648} = (31, 10, 10, 1)$
 308 : $P_{11682} = (1, 12, 10, 1)$
 309 : $P_{11685} = (4, 12, 10, 1)$
 310 : $P_{11695} = (14, 12, 10, 1)$
 311 : $P_{11714} = (1, 13, 10, 1)$
 312 : $P_{11730} = (17, 13, 10, 1)$
 313 : $P_{11740} = (27, 13, 10, 1)$
 314 : $P_{11755} = (10, 14, 10, 1)$
 315 : $P_{11765} = (20, 14, 10, 1)$
 316 : $P_{11766} = (21, 14, 10, 1)$
 317 : $P_{11790} = (13, 15, 10, 1)$
 318 : $P_{11793} = (16, 15, 10, 1)$
 319 : $P_{11799} = (22, 15, 10, 1)$
 320 : $P_{11816} = (7, 16, 10, 1)$
 321 : $P_{11911} = (6, 19, 10, 1)$
 322 : $P_{11975} = (6, 21, 10, 1)$
 323 : $P_{11987} = (18, 21, 10, 1)$

324 : $P_{12000} = (31, 21, 10, 1)$
 325 : $P_{12013} = (12, 22, 10, 1)$
 326 : $P_{12028} = (27, 22, 10, 1)$
 327 : $P_{12029} = (28, 22, 10, 1)$
 328 : $P_{12040} = (7, 23, 10, 1)$
 329 : $P_{12119} = (22, 25, 10, 1)$
 330 : $P_{12141} = (12, 26, 10, 1)$
 331 : $P_{12148} = (19, 26, 10, 1)$
 332 : $P_{12149} = (20, 26, 10, 1)$
 333 : $P_{12182} = (21, 27, 10, 1)$
 334 : $P_{12193} = (0, 28, 10, 1)$
 335 : $P_{12210} = (17, 28, 10, 1)$
 336 : $P_{12219} = (26, 28, 10, 1)$
 337 : $P_{12305} = (16, 31, 10, 1)$
 338 : $P_{12348} = (27, 0, 11, 1)$
 339 : $P_{12398} = (13, 2, 11, 1)$
 340 : $P_{12463} = (14, 4, 11, 1)$
 341 : $P_{12567} = (22, 7, 11, 1)$
 342 : $P_{12584} = (7, 8, 11, 1)$
 343 : $P_{12655} = (14, 10, 11, 1)$
 344 : $P_{12690} = (17, 11, 11, 1)$
 345 : $P_{12726} = (21, 12, 11, 1)$
 346 : $P_{12763} = (26, 13, 11, 1)$
 347 : $P_{12789} = (20, 14, 11, 1)$
 348 : $P_{12801} = (0, 15, 11, 1)$
 349 : $P_{12808} = (7, 15, 11, 1)$
 350 : $P_{12814} = (13, 15, 11, 1)$
 351 : $P_{12887} = (22, 17, 11, 1)$
 352 : $P_{12940} = (11, 19, 11, 1)$
 353 : $P_{13008} = (15, 21, 11, 1)$
 354 : $P_{13033} = (8, 22, 11, 1)$
 355 : $P_{13083} = (26, 23, 11, 1)$
 356 : $P_{13100} = (11, 24, 11, 1)$
 357 : $P_{13142} = (21, 25, 11, 1)$
 358 : $P_{13168} = (15, 26, 11, 1)$
 359 : $P_{13170} = (17, 26, 11, 1)$
 360 : $P_{13173} = (20, 26, 11, 1)$
 361 : $P_{13212} = (27, 27, 11, 1)$
 362 : $P_{13289} = (8, 30, 11, 1)$
 363 : $P_{13351} = (6, 0, 12, 1)$
 364 : $P_{13366} = (21, 0, 12, 1)$
 365 : $P_{13375} = (30, 0, 12, 1)$
 366 : $P_{13453} = (12, 3, 12, 1)$
 367 : $P_{13475} = (2, 4, 12, 1)$
 368 : $P_{13539} = (2, 6, 12, 1)$
 369 : $P_{13543} = (6, 6, 12, 1)$
 370 : $P_{13546} = (9, 6, 12, 1)$
 371 : $P_{13577} = (8, 7, 12, 1)$
 372 : $P_{13621} = (20, 8, 12, 1)$
 373 : $P_{13638} = (5, 9, 12, 1)$
 374 : $P_{13688} = (23, 10, 12, 1)$
 375 : $P_{13722} = (25, 11, 12, 1)$
 376 : $P_{13734} = (5, 12, 12, 1)$
 377 : $P_{13833} = (8, 15, 12, 1)$

378 : $P_{13834} = (9, 15, 12, 1)$
 379 : $P_{13837} = (12, 15, 12, 1)$
 380 : $P_{13934} = (13, 18, 12, 1)$
 381 : $P_{13946} = (25, 18, 12, 1)$
 382 : $P_{13985} = (0, 20, 12, 1)$
 383 : $P_{14038} = (21, 21, 12, 1)$
 384 : $P_{14213} = (4, 27, 12, 1)$
 385 : $P_{14261} = (20, 28, 12, 1)$
 386 : $P_{14296} = (23, 29, 12, 1)$
 387 : $P_{14335} = (30, 30, 12, 1)$
 388 : $P_{14341} = (4, 31, 12, 1)$
 389 : $P_{14350} = (13, 31, 12, 1)$
 390 : $P_{14395} = (26, 0, 13, 1)$
 391 : $P_{14450} = (17, 2, 13, 1)$
 392 : $P_{14475} = (10, 3, 13, 1)$
 393 : $P_{14505} = (8, 4, 13, 1)$
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 791 : $P_{27285} = (20, 19, 25, 1)$
 792 : $P_{27392} = (31, 22, 25, 1)$
 793 : $P_{27406} = (13, 23, 25, 1)$
 794 : $P_{27451} = (26, 24, 25, 1)$
 795 : $P_{27480} = (23, 25, 25, 1)$
 796 : $P_{27494} = (5, 26, 25, 1)$
 797 : $P_{27502} = (13, 26, 25, 1)$
 798 : $P_{27505} = (16, 26, 25, 1)$
 799 : $P_{27539} = (18, 27, 25, 1)$
 800 : $P_{27574} = (21, 28, 25, 1)$
 801 : $P_{27618} = (1, 30, 25, 1)$
 802 : $P_{27650} = (1, 31, 25, 1)$
 803 : $P_{27654} = (5, 31, 25, 1)$
 804 : $P_{27677} = (28, 31, 25, 1)$
 805 : $P_{27700} = (19, 0, 26, 1)$
 806 : $P_{27701} = (20, 0, 26, 1)$
 807 : $P_{27709} = (28, 0, 26, 1)$
 808 : $P_{27761} = (16, 2, 26, 1)$
 809 : $P_{27867} = (26, 5, 26, 1)$

810 : $P_{27975} = (6, 9, 26, 1)$
 811 : $P_{27996} = (27, 9, 26, 1)$
 812 : $P_{28030} = (29, 10, 26, 1)$
 813 : $P_{28050} = (17, 11, 26, 1)$
 814 : $P_{28153} = (24, 14, 26, 1)$
 815 : $P_{28167} = (6, 15, 26, 1)$
 816 : $P_{28197} = (4, 16, 26, 1)$
 817 : $P_{28273} = (16, 18, 26, 1)$
 818 : $P_{28284} = (27, 18, 26, 1)$
 819 : $P_{28308} = (19, 19, 26, 1)$
 820 : $P_{28325} = (4, 20, 26, 1)$
 821 : $P_{28332} = (11, 20, 26, 1)$
 822 : $P_{28341} = (20, 20, 26, 1)$
 823 : $P_{28363} = (10, 21, 26, 1)$
 824 : $P_{28409} = (24, 22, 26, 1)$
 825 : $P_{28446} = (29, 23, 26, 1)$
 826 : $P_{28530} = (17, 26, 26, 1)$
 827 : $P_{28605} = (28, 28, 26, 1)$
 828 : $P_{28609} = (0, 29, 26, 1)$
 829 : $P_{28683} = (10, 31, 26, 1)$
 830 : $P_{28684} = (11, 31, 26, 1)$
 831 : $P_{28699} = (26, 31, 26, 1)$
 832 : $P_{28708} = (3, 0, 27, 1)$
 833 : $P_{28804} = (3, 3, 27, 1)$
 834 : $P_{28845} = (12, 4, 27, 1)$
 835 : $P_{28879} = (14, 5, 27, 1)$
 836 : $P_{28950} = (21, 7, 27, 1)$
 837 : $P_{28966} = (5, 8, 27, 1)$
 838 : $P_{28973} = (12, 8, 27, 1)$
 839 : $P_{28980} = (19, 8, 27, 1)$
 840 : $P_{29000} = (7, 9, 27, 1)$
 841 : $P_{29071} = (14, 11, 27, 1)$
 842 : $P_{29118} = (29, 12, 27, 1)$
 843 : $P_{29126} = (5, 13, 27, 1)$
 844 : $P_{29160} = (7, 14, 27, 1)$
 845 : $P_{29201} = (16, 15, 27, 1)$
 846 : $P_{29211} = (26, 15, 27, 1)$
 847 : $P_{29227} = (10, 16, 27, 1)$
 848 : $P_{29278} = (29, 17, 27, 1)$
 849 : $P_{29302} = (21, 18, 27, 1)$
 850 : $P_{29319} = (6, 19, 27, 1)$
 851 : $P_{29345} = (0, 20, 27, 1)$
 852 : $P_{29383} = (6, 21, 27, 1)$
 853 : $P_{29403} = (26, 21, 27, 1)$
 854 : $P_{29449} = (8, 23, 27, 1)$
 855 : $P_{29547} = (10, 26, 27, 1)$
 856 : $P_{29588} = (19, 27, 27, 1)$
 857 : $P_{29635} = (2, 29, 27, 1)$
 858 : $P_{29699} = (2, 31, 27, 1)$
 859 : $P_{29705} = (8, 31, 27, 1)$
 860 : $P_{29713} = (16, 31, 27, 1)$
 861 : $P_{29740} = (11, 0, 28, 1)$
 862 : $P_{29742} = (13, 0, 28, 1)$
 863 : $P_{29756} = (27, 0, 28, 1)$

864 : $P_{29903} = (14, 5, 28, 1)$
 865 : $P_{29921} = (0, 6, 28, 1)$
 866 : $P_{29931} = (10, 6, 28, 1)$
 867 : $P_{29944} = (23, 6, 28, 1)$
 868 : $P_{29989} = (4, 8, 28, 1)$
 869 : $P_{29992} = (7, 8, 28, 1)$
 870 : $P_{30015} = (30, 8, 28, 1)$
 871 : $P_{30048} = (31, 9, 28, 1)$
 872 : $P_{30077} = (28, 10, 28, 1)$
 873 : $P_{30092} = (11, 11, 28, 1)$
 874 : $P_{30095} = (14, 11, 28, 1)$
 875 : $P_{30105} = (24, 11, 28, 1)$
 876 : $P_{30117} = (4, 12, 28, 1)$
 877 : $P_{30123} = (10, 12, 28, 1)$
 878 : $P_{30132} = (19, 12, 28, 1)$
 879 : $P_{30158} = (13, 13, 28, 1)$
 880 : $P_{30195} = (18, 14, 28, 1)$
 881 : $P_{30216} = (7, 15, 28, 1)$
 882 : $P_{30246} = (5, 16, 28, 1)$
 883 : $P_{30279} = (6, 17, 28, 1)$
 884 : $P_{30285} = (12, 17, 28, 1)$
 885 : $P_{30296} = (23, 17, 28, 1)$
 886 : $P_{30361} = (24, 19, 28, 1)$
 887 : $P_{30406} = (5, 21, 28, 1)$
 888 : $P_{30461} = (28, 22, 28, 1)$
 889 : $P_{30463} = (30, 22, 28, 1)$
 890 : $P_{30464} = (31, 22, 28, 1)$
 891 : $P_{30471} = (6, 23, 28, 1)$
 892 : $P_{30620} = (27, 27, 28, 1)$
 893 : $P_{30643} = (18, 28, 28, 1)$
 894 : $P_{30669} = (12, 29, 28, 1)$
 895 : $P_{30740} = (19, 31, 28, 1)$
 896 : $P_{30849} = (0, 3, 29, 1)$
 897 : $P_{31001} = (24, 7, 29, 1)$
 898 : $P_{31027} = (18, 8, 29, 1)$
 899 : $P_{31030} = (21, 8, 29, 1)$
 900 : $P_{31036} = (27, 8, 29, 1)$
 901 : $P_{31074} = (1, 10, 29, 1)$
 902 : $P_{31106} = (1, 11, 29, 1)$
 903 : $P_{31112} = (7, 11, 29, 1)$
 904 : $P_{31131} = (26, 11, 29, 1)$
 905 : $P_{31144} = (7, 12, 29, 1)$
 906 : $P_{31186} = (17, 13, 29, 1)$
 907 : $P_{31226} = (25, 14, 29, 1)$
 908 : $P_{31253} = (20, 15, 29, 1)$
 909 : $P_{31280} = (15, 16, 29, 1)$
 910 : $P_{31299} = (2, 17, 29, 1)$
 911 : $P_{31301} = (4, 17, 29, 1)$
 912 : $P_{31323} = (26, 17, 29, 1)$
 913 : $P_{31363} = (2, 19, 29, 1)$
 914 : $P_{31366} = (5, 19, 29, 1)$
 915 : $P_{31388} = (27, 19, 29, 1)$
 916 : $P_{31404} = (11, 20, 29, 1)$
 917 : $P_{31429} = (4, 21, 29, 1)$

918 : $P_{31462} = (5, 22, 29, 1)$	956 : $P_{32522} = (9, 23, 30, 1)$
919 : $P_{31514} = (25, 23, 29, 1)$	957 : $P_{32524} = (11, 23, 30, 1)$
920 : $P_{31603} = (18, 26, 29, 1)$	958 : $P_{32542} = (29, 23, 30, 1)$
921 : $P_{31637} = (20, 27, 29, 1)$	959 : $P_{32545} = (0, 24, 30, 1)$
922 : $P_{31666} = (17, 28, 29, 1)$	960 : $P_{32550} = (5, 24, 30, 1)$
923 : $P_{31702} = (21, 29, 29, 1)$	961 : $P_{32571} = (26, 24, 30, 1)$
924 : $P_{31756} = (11, 31, 29, 1)$	962 : $P_{32669} = (28, 27, 30, 1)$
925 : $P_{31760} = (15, 31, 29, 1)$	963 : $P_{32684} = (11, 28, 30, 1)$
926 : $P_{31769} = (24, 31, 29, 1)$	964 : $P_{32710} = (5, 29, 30, 1)$
927 : $P_{31842} = (1, 2, 30, 1)$	965 : $P_{32746} = (9, 30, 30, 1)$
928 : $P_{31845} = (4, 2, 30, 1)$	966 : $P_{32751} = (14, 30, 30, 1)$
929 : $P_{31867} = (26, 2, 30, 1)$	967 : $P_{32761} = (24, 30, 30, 1)$
930 : $P_{31874} = (1, 3, 30, 1)$	968 : $P_{32805} = (4, 0, 31, 1)$
931 : $P_{31886} = (13, 3, 30, 1)$	969 : $P_{32870} = (5, 2, 31, 1)$
932 : $P_{31892} = (19, 3, 30, 1)$	970 : $P_{32920} = (23, 3, 31, 1)$
933 : $P_{31928} = (23, 4, 30, 1)$	971 : $P_{32933} = (4, 4, 31, 1)$
934 : $P_{31940} = (3, 5, 30, 1)$	972 : $P_{32979} = (18, 5, 31, 1)$
935 : $P_{31947} = (10, 5, 30, 1)$	973 : $P_{32983} = (22, 5, 31, 1)$
936 : $P_{31959} = (22, 5, 30, 1)$	974 : $P_{32987} = (26, 5, 31, 1)$
937 : $P_{31972} = (3, 6, 30, 1)$	975 : $P_{33007} = (14, 6, 31, 1)$
938 : $P_{31973} = (4, 6, 30, 1)$	976 : $P_{33030} = (5, 7, 31, 1)$
939 : $P_{31993} = (24, 6, 30, 1)$	977 : $P_{33071} = (14, 8, 31, 1)$
940 : $P_{32029} = (28, 7, 30, 1)$	978 : $P_{33152} = (31, 10, 31, 1)$
941 : $P_{32092} = (27, 9, 30, 1)$	979 : $P_{33236} = (19, 13, 31, 1)$
942 : $P_{32126} = (29, 10, 30, 1)$	980 : $P_{33277} = (28, 14, 31, 1)$
943 : $P_{32223} = (30, 13, 30, 1)$	981 : $P_{33315} = (2, 16, 31, 1)$
944 : $P_{32238} = (13, 14, 30, 1)$	982 : $P_{33377} = (0, 18, 31, 1)$
945 : $P_{32267} = (10, 15, 30, 1)$	983 : $P_{33379} = (2, 18, 31, 1)$
946 : $P_{32291} = (2, 16, 30, 1)$	984 : $P_{33405} = (28, 18, 31, 1)$
947 : $P_{32303} = (14, 16, 30, 1)$	985 : $P_{33431} = (22, 19, 31, 1)$
948 : $P_{32308} = (19, 16, 30, 1)$	986 : $P_{33464} = (23, 20, 31, 1)$
949 : $P_{32355} = (2, 18, 30, 1)$	987 : $P_{33504} = (31, 21, 31, 1)$
950 : $P_{32359} = (6, 18, 30, 1)$	988 : $P_{33555} = (18, 23, 31, 1)$
951 : $P_{32380} = (27, 18, 30, 1)$	989 : $P_{33639} = (6, 26, 31, 1)$
952 : $P_{32407} = (22, 19, 30, 1)$	990 : $P_{33703} = (6, 28, 31, 1)$
953 : $P_{32408} = (23, 19, 30, 1)$	991 : $P_{33780} = (19, 30, 31, 1)$
954 : $P_{32415} = (30, 19, 30, 1)$	992 : $P_{33819} = (26, 31, 31, 1)$
955 : $P_{32423} = (6, 20, 30, 1)$	

Line Intersection Graph

┘

Neighbor sets in the line intersection graph:

The surface has 993 points:

The points on the surface are:

0 : $P_1 = (0, 1, 0, 0)$	6 : $P_{337} = (14, 9, 1, 0)$	12 : $P_{697} = (22, 20, 1, 0)$
1 : $P_{67} = (0, 1, 1, 0)$	7 : $P_{417} = (30, 11, 1, 0)$	13 : $P_{737} = (30, 21, 1, 0)$
2 : $P_{121} = (22, 2, 1, 0)$	8 : $P_{471} = (20, 13, 1, 0)$	14 : $P_{745} = (6, 22, 1, 0)$
3 : $P_{188} = (25, 4, 1, 0)$	9 : $P_{534} = (19, 15, 1, 0)$	15 : $P_{779} = (8, 23, 1, 0)$
4 : $P_{256} = (29, 6, 1, 0)$	10 : $P_{553} = (6, 16, 1, 0)$	16 : $P_{813} = (10, 24, 1, 0)$
5 : $P_{273} = (14, 7, 1, 0)$	11 : $P_{621} = (10, 18, 1, 0)$	17 : $P_{855} = (20, 25, 1, 0)$

18 : $P_{928} = (29, 27, 1, 0)$	72 : $P_{3813} = (4, 22, 2, 1)$	126 : $P_{5714} = (17, 17, 4, 1)$
19 : $P_{950} = (19, 28, 1, 0)$	73 : $P_{3883} = (10, 24, 2, 1)$	127 : $P_{5734} = (5, 18, 4, 1)$
20 : $P_{988} = (25, 29, 1, 0)$	74 : $P_{3959} = (22, 26, 2, 1)$	128 : $P_{5756} = (27, 18, 4, 1)$
21 : $P_{1035} = (8, 31, 1, 0)$	75 : $P_{3986} = (17, 27, 2, 1)$	129 : $P_{5789} = (28, 19, 4, 1)$
22 : $P_{2082} = (0, 0, 1, 1)$	76 : $P_{4004} = (3, 28, 2, 1)$	130 : $P_{5857} = (0, 22, 4, 1)$
23 : $P_{2158} = (13, 2, 1, 1)$	77 : $P_{4021} = (20, 28, 2, 1)$	131 : $P_{5894} = (5, 23, 4, 1)$
24 : $P_{2192} = (15, 3, 1, 1)$	78 : $P_{4033} = (0, 29, 2, 1)$	132 : $P_{5918} = (29, 23, 4, 1)$
25 : $P_{2195} = (18, 3, 1, 1)$	79 : $P_{4086} = (21, 30, 2, 1)$	133 : $P_{5969} = (16, 25, 4, 1)$
26 : $P_{2206} = (29, 3, 1, 1)$	80 : $P_{4100} = (3, 31, 2, 1)$	134 : $P_{6010} = (25, 26, 4, 1)$
27 : $P_{2236} = (27, 4, 1, 1)$	81 : $P_{4110} = (13, 31, 2, 1)$	135 : $P_{6047} = (30, 27, 4, 1)$
28 : $P_{2250} = (9, 5, 1, 1)$	82 : $P_{4137} = (8, 0, 3, 1)$	136 : $P_{6072} = (23, 28, 4, 1)$
29 : $P_{2263} = (22, 5, 1, 1)$	83 : $P_{4152} = (23, 0, 3, 1)$	137 : $P_{6164} = (19, 31, 4, 1)$
30 : $P_{2272} = (31, 5, 1, 1)$	84 : $P_{4158} = (29, 0, 3, 1)$	138 : $P_{6187} = (10, 0, 5, 1)$
31 : $P_{2362} = (25, 8, 1, 1)$	85 : $P_{4237} = (12, 3, 3, 1)$	139 : $P_{6199} = (22, 0, 5, 1)$
32 : $P_{2373} = (4, 9, 1, 1)$	86 : $P_{4270} = (13, 4, 3, 1)$	140 : $P_{6201} = (24, 0, 5, 1)$
33 : $P_{2407} = (6, 10, 1, 1)$	87 : $P_{4393} = (8, 8, 3, 1)$	141 : $P_{6363} = (26, 5, 5, 1)$
34 : $P_{2449} = (16, 11, 1, 1)$	88 : $P_{4419} = (2, 9, 3, 1)$	142 : $P_{6390} = (21, 6, 5, 1)$
35 : $P_{2471} = (6, 12, 1, 1)$	89 : $P_{4430} = (13, 9, 3, 1)$	143 : $P_{6426} = (25, 7, 5, 1)$
36 : $P_{2474} = (9, 12, 1, 1)$	90 : $P_{4483} = (2, 11, 3, 1)$	144 : $P_{6470} = (5, 9, 5, 1)$
37 : $P_{2480} = (15, 12, 1, 1)$	91 : $P_{4501} = (20, 11, 3, 1)$	145 : $P_{6495} = (30, 9, 5, 1)$
38 : $P_{2501} = (4, 13, 1, 1)$	92 : $P_{4561} = (16, 13, 3, 1)$	146 : $P_{6496} = (31, 9, 5, 1)$
39 : $P_{2549} = (20, 14, 1, 1)$	93 : $P_{4599} = (22, 14, 3, 1)$	147 : $P_{6507} = (10, 10, 5, 1)$
40 : $P_{2574} = (13, 15, 1, 1)$	94 : $P_{4621} = (12, 15, 3, 1)$	148 : $P_{6533} = (4, 11, 5, 1)$
41 : $P_{2595} = (2, 16, 1, 1)$	95 : $P_{4676} = (3, 17, 3, 1)$	149 : $P_{6556} = (27, 11, 5, 1)$
42 : $P_{2636} = (11, 17, 1, 1)$	96 : $P_{4708} = (3, 18, 3, 1)$	150 : $P_{6566} = (5, 12, 5, 1)$
43 : $P_{2643} = (18, 17, 1, 1)$	97 : $P_{4719} = (14, 18, 3, 1)$	151 : $P_{6661} = (4, 15, 5, 1)$
44 : $P_{2650} = (25, 17, 1, 1)$	98 : $P_{4720} = (15, 18, 3, 1)$	152 : $P_{6686} = (29, 15, 5, 1)$
45 : $P_{2659} = (2, 18, 1, 1)$	99 : $P_{4833} = (0, 22, 3, 1)$	153 : $P_{6716} = (27, 16, 5, 1)$
46 : $P_{2711} = (22, 19, 1, 1)$	100 : $P_{4888} = (23, 23, 3, 1)$	154 : $P_{6782} = (29, 18, 5, 1)$
47 : $P_{2924} = (11, 26, 1, 1)$	101 : $P_{4919} = (22, 24, 3, 1)$	155 : $P_{6806} = (21, 19, 5, 1)$
48 : $P_{2933} = (20, 26, 1, 1)$	102 : $P_{4936} = (7, 25, 3, 1)$	156 : $P_{6894} = (13, 22, 5, 1)$
49 : $P_{2944} = (31, 26, 1, 1)$	103 : $P_{5039} = (14, 28, 3, 1)$	157 : $P_{6903} = (22, 22, 5, 1)$
50 : $P_{2961} = (16, 27, 1, 1)$	104 : $P_{5072} = (15, 29, 3, 1)$	158 : $P_{6912} = (31, 22, 5, 1)$
51 : $P_{3070} = (29, 30, 1, 1)$	105 : $P_{5073} = (16, 29, 3, 1)$	159 : $P_{6943} = (30, 23, 5, 1)$
52 : $P_{3100} = (27, 31, 1, 1)$	106 : $P_{5086} = (29, 29, 3, 1)$	160 : $P_{6969} = (24, 24, 5, 1)$
53 : $P_{3110} = (5, 0, 2, 1)$	107 : $P_{5096} = (7, 30, 3, 1)$	161 : $P_{6977} = (0, 25, 5, 1)$
54 : $P_{3177} = (8, 2, 2, 1)$	108 : $P_{5141} = (20, 31, 3, 1)$	162 : $P_{7054} = (13, 27, 5, 1)$
55 : $P_{3215} = (14, 3, 2, 1)$	109 : $P_{5170} = (17, 0, 4, 1)$	163 : $P_{7162} = (25, 30, 5, 1)$
56 : $P_{3270} = (5, 5, 2, 1)$	110 : $P_{5229} = (12, 2, 4, 1)$	164 : $P_{7195} = (26, 31, 5, 1)$
57 : $P_{3381} = (20, 8, 2, 1)$	111 : $P_{5274} = (25, 3, 4, 1)$	165 : $P_{7274} = (9, 2, 6, 1)$
58 : $P_{3421} = (28, 9, 2, 1)$	112 : $P_{5291} = (10, 4, 4, 1)$	166 : $P_{7310} = (13, 3, 6, 1)$
59 : $P_{3433} = (8, 10, 2, 1)$	113 : $P_{5343} = (30, 5, 4, 1)$	167 : $P_{7314} = (17, 3, 6, 1)$
60 : $P_{3442} = (17, 10, 2, 1)$	114 : $P_{5391} = (14, 7, 4, 1)$	168 : $P_{7324} = (27, 3, 6, 1)$
61 : $P_{3451} = (26, 10, 2, 1)$	115 : $P_{5455} = (14, 9, 4, 1)$	169 : $P_{7332} = (3, 4, 6, 1)$
62 : $P_{3478} = (21, 11, 2, 1)$	116 : $P_{5457} = (16, 9, 4, 1)$	170 : $P_{7384} = (23, 5, 6, 1)$
63 : $P_{3511} = (22, 12, 2, 1)$	117 : $P_{5468} = (27, 9, 4, 1)$	171 : $P_{7417} = (24, 6, 6, 1)$
64 : $P_{3535} = (14, 13, 2, 1)$	118 : $P_{5502} = (29, 10, 4, 1)$	172 : $P_{7428} = (3, 7, 6, 1)$
65 : $P_{3615} = (30, 15, 2, 1)$	119 : $P_{5528} = (23, 11, 4, 1)$	173 : $P_{7486} = (29, 8, 6, 1)$
66 : $P_{3643} = (26, 16, 2, 1)$	120 : $P_{5556} = (19, 12, 4, 1)$	174 : $P_{7514} = (25, 9, 6, 1)$
67 : $P_{3679} = (30, 17, 2, 1)$	121 : $P_{5572} = (3, 13, 4, 1)$	175 : $P_{7562} = (9, 11, 6, 1)$
68 : $P_{3685} = (4, 18, 2, 1)$	122 : $P_{5604} = (3, 14, 4, 1)$	176 : $P_{7571} = (18, 11, 6, 1)$
69 : $P_{3691} = (10, 18, 2, 1)$	123 : $P_{5611} = (10, 14, 4, 1)$	177 : $P_{7581} = (28, 11, 6, 1)$
70 : $P_{3694} = (13, 18, 2, 1)$	124 : $P_{5613} = (12, 14, 4, 1)$	178 : $P_{7585} = (0, 12, 6, 1)$
71 : $P_{3805} = (28, 21, 2, 1)$	125 : $P_{5661} = (28, 15, 4, 1)$	179 : $P_{7662} = (13, 14, 6, 1)$

180 : $P_{7665} = (16, 14, 6, 1)$	234 : $P_{9498} = (25, 7, 8, 1)$	288 : $P_{10824} = (7, 17, 9, 1)$
181 : $P_{7675} = (26, 14, 6, 1)$	235 : $P_{9504} = (31, 7, 8, 1)$	289 : $P_{10905} = (24, 19, 9, 1)$
182 : $P_{7738} = (25, 16, 6, 1)$	236 : $P_{9520} = (15, 8, 8, 1)$	290 : $P_{10984} = (7, 22, 9, 1)$
183 : $P_{7760} = (15, 17, 6, 1)$	237 : $P_{9524} = (19, 8, 8, 1)$	291 : $P_{11018} = (9, 23, 9, 1)$
184 : $P_{7778} = (1, 18, 6, 1)$	238 : $P_{9526} = (21, 8, 8, 1)$	292 : $P_{11070} = (29, 24, 9, 1)$
185 : $P_{7794} = (17, 18, 6, 1)$	239 : $P_{9575} = (6, 10, 8, 1)$	293 : $P_{11153} = (16, 27, 9, 1)$
186 : $P_{7800} = (23, 18, 6, 1)$	240 : $P_{9576} = (7, 10, 8, 1)$	294 : $P_{11181} = (12, 28, 9, 1)$
187 : $P_{7810} = (1, 19, 6, 1)$	241 : $P_{9577} = (8, 10, 8, 1)$	295 : $P_{11220} = (19, 29, 9, 1)$
188 : $P_{7867} = (26, 20, 6, 1)$	242 : $P_{9605} = (4, 11, 8, 1)$	296 : $P_{11242} = (9, 30, 9, 1)$
189 : $P_{7902} = (29, 21, 6, 1)$	243 : $P_{9617} = (16, 11, 8, 1)$	297 : $P_{11369} = (8, 2, 10, 1)$
190 : $P_{7965} = (28, 23, 6, 1)$	244 : $P_{9630} = (29, 11, 8, 1)$	298 : $P_{11374} = (13, 2, 10, 1)$
191 : $P_{7996} = (27, 24, 6, 1)$	245 : $P_{9639} = (6, 12, 8, 1)$	299 : $P_{11375} = (14, 2, 10, 1)$
192 : $P_{8019} = (18, 25, 6, 1)$	246 : $P_{9650} = (17, 12, 8, 1)$	300 : $P_{11435} = (10, 4, 10, 1)$
193 : $P_{8176} = (15, 30, 6, 1)$	247 : $P_{9663} = (30, 12, 8, 1)$	301 : $P_{11515} = (26, 6, 10, 1)$
194 : $P_{8177} = (16, 30, 6, 1)$	248 : $P_{9672} = (7, 13, 8, 1)$	302 : $P_{11539} = (18, 7, 10, 1)$
195 : $P_{8185} = (24, 30, 6, 1)$	249 : $P_{9733} = (4, 15, 8, 1)$	303 : $P_{11557} = (4, 8, 10, 1)$
196 : $P_{8229} = (4, 0, 7, 1)$	250 : $P_{9762} = (1, 16, 8, 1)$	304 : $P_{11604} = (19, 9, 10, 1)$
197 : $P_{8241} = (16, 0, 7, 1)$	251 : $P_{9766} = (5, 16, 8, 1)$	305 : $P_{11625} = (8, 10, 10, 1)$
198 : $P_{8243} = (18, 0, 7, 1)$	252 : $P_{9774} = (13, 16, 8, 1)$	306 : $P_{11645} = (28, 10, 10, 1)$
199 : $P_{8315} = (26, 2, 7, 1)$	253 : $P_{9794} = (1, 17, 8, 1)$	307 : $P_{11648} = (31, 10, 10, 1)$
200 : $P_{8326} = (5, 3, 7, 1)$	254 : $P_{9795} = (2, 17, 8, 1)$	308 : $P_{11682} = (1, 12, 10, 1)$
201 : $P_{8342} = (21, 3, 7, 1)$	255 : $P_{9803} = (10, 17, 8, 1)$	309 : $P_{11685} = (4, 12, 10, 1)$
202 : $P_{8343} = (22, 3, 7, 1)$	256 : $P_{9855} = (30, 18, 8, 1)$	310 : $P_{11695} = (14, 12, 10, 1)$
203 : $P_{8357} = (4, 4, 7, 1)$	257 : $P_{9859} = (2, 19, 8, 1)$	311 : $P_{11714} = (1, 13, 10, 1)$
204 : $P_{8399} = (14, 5, 7, 1)$	258 : $P_{9921} = (0, 21, 8, 1)$	312 : $P_{11730} = (17, 13, 10, 1)$
205 : $P_{8404} = (19, 5, 7, 1)$	259 : $P_{9926} = (5, 21, 8, 1)$	313 : $P_{11740} = (27, 13, 10, 1)$
206 : $P_{8412} = (27, 5, 7, 1)$	260 : $P_{9933} = (12, 21, 8, 1)$	314 : $P_{11755} = (10, 14, 10, 1)$
207 : $P_{8422} = (5, 6, 7, 1)$	261 : $P_{9982} = (29, 22, 8, 1)$	315 : $P_{11765} = (20, 14, 10, 1)$
208 : $P_{8464} = (15, 7, 7, 1)$	262 : $P_{10048} = (31, 24, 8, 1)$	316 : $P_{11766} = (21, 14, 10, 1)$
209 : $P_{8496} = (15, 8, 7, 1)$	263 : $P_{10061} = (12, 25, 8, 1)$	317 : $P_{11790} = (13, 15, 10, 1)$
210 : $P_{8536} = (23, 9, 7, 1)$	264 : $P_{10123} = (10, 27, 8, 1)$	318 : $P_{11793} = (16, 15, 10, 1)$
211 : $P_{8591} = (14, 11, 7, 1)$	265 : $P_{10129} = (16, 27, 8, 1)$	319 : $P_{11799} = (22, 15, 10, 1)$
212 : $P_{8701} = (28, 14, 7, 1)$	266 : $P_{10132} = (19, 27, 8, 1)$	320 : $P_{11816} = (7, 16, 10, 1)$
213 : $P_{8753} = (16, 16, 7, 1)$	267 : $P_{10169} = (24, 28, 8, 1)$	321 : $P_{11911} = (6, 19, 10, 1)$
214 : $P_{8809} = (8, 18, 7, 1)$	268 : $P_{10190} = (13, 29, 8, 1)$	322 : $P_{11975} = (6, 21, 10, 1)$
215 : $P_{8819} = (18, 18, 7, 1)$	269 : $P_{10194} = (17, 29, 8, 1)$	323 : $P_{11987} = (18, 21, 10, 1)$
216 : $P_{8829} = (28, 18, 7, 1)$	270 : $P_{10198} = (21, 29, 8, 1)$	324 : $P_{12000} = (31, 21, 10, 1)$
217 : $P_{8840} = (7, 19, 7, 1)$	271 : $P_{10234} = (25, 30, 8, 1)$	325 : $P_{12013} = (12, 22, 10, 1)$
218 : $P_{8872} = (7, 20, 7, 1)$	272 : $P_{10286} = (13, 0, 9, 1)$	326 : $P_{12028} = (27, 22, 10, 1)$
219 : $P_{8875} = (10, 20, 7, 1)$	273 : $P_{10347} = (10, 2, 9, 1)$	327 : $P_{12029} = (28, 22, 10, 1)$
220 : $P_{8876} = (11, 20, 7, 1)$	274 : $P_{10462} = (29, 5, 9, 1)$	328 : $P_{12040} = (7, 23, 10, 1)$
221 : $P_{8919} = (22, 21, 7, 1)$	275 : $P_{10508} = (11, 7, 9, 1)$	329 : $P_{12119} = (22, 25, 10, 1)$
222 : $P_{8929} = (0, 22, 7, 1)$	276 : $P_{10539} = (10, 8, 9, 1)$	330 : $P_{12141} = (12, 26, 10, 1)$
223 : $P_{8948} = (19, 22, 7, 1)$	277 : $P_{10566} = (5, 9, 9, 1)$	331 : $P_{12148} = (19, 26, 10, 1)$
224 : $P_{8950} = (21, 22, 7, 1)$	278 : $P_{10599} = (6, 10, 9, 1)$	332 : $P_{12149} = (20, 26, 10, 1)$
225 : $P_{9019} = (26, 24, 7, 1)$	279 : $P_{10625} = (0, 11, 9, 1)$	333 : $P_{12182} = (21, 27, 10, 1)$
226 : $P_{9065} = (8, 26, 7, 1)$	280 : $P_{10641} = (16, 11, 9, 1)$	334 : $P_{12193} = (0, 28, 10, 1)$
227 : $P_{9195} = (10, 30, 7, 1)$	281 : $P_{10649} = (24, 11, 9, 1)$	335 : $P_{12210} = (17, 28, 10, 1)$
228 : $P_{9208} = (23, 30, 7, 1)$	282 : $P_{10662} = (5, 12, 9, 1)$	336 : $P_{12219} = (26, 28, 10, 1)$
229 : $P_{9212} = (27, 30, 7, 1)$	283 : $P_{10663} = (6, 12, 9, 1)$	337 : $P_{12305} = (16, 31, 10, 1)$
230 : $P_{9228} = (11, 31, 7, 1)$	284 : $P_{10668} = (11, 12, 9, 1)$	338 : $P_{12348} = (27, 0, 11, 1)$
231 : $P_{9321} = (8, 2, 8, 1)$	285 : $P_{10702} = (13, 13, 9, 1)$	339 : $P_{12398} = (13, 2, 11, 1)$
232 : $P_{9401} = (24, 4, 8, 1)$	286 : $P_{10740} = (19, 14, 9, 1)$	340 : $P_{12463} = (14, 4, 11, 1)$
233 : $P_{9488} = (15, 7, 8, 1)$	287 : $P_{10797} = (12, 16, 9, 1)$	341 : $P_{12567} = (22, 7, 11, 1)$

342 : $P_{12584} = (7, 8, 11, 1)$	396 : $P_{14605} = (12, 7, 13, 1)$	450 : $P_{16269} = (12, 27, 14, 1)$
343 : $P_{12655} = (14, 10, 11, 1)$	397 : $P_{14618} = (25, 7, 13, 1)$	451 : $P_{16298} = (9, 28, 14, 1)$
344 : $P_{12690} = (17, 11, 11, 1)$	398 : $P_{14667} = (10, 9, 13, 1)$	452 : $P_{16307} = (18, 28, 14, 1)$
345 : $P_{12726} = (21, 12, 11, 1)$	399 : $P_{14713} = (24, 10, 13, 1)$	453 : $P_{16309} = (20, 28, 14, 1)$
346 : $P_{12763} = (26, 13, 11, 1)$	400 : $P_{14725} = (4, 11, 13, 1)$	454 : $P_{16367} = (14, 30, 14, 1)$
347 : $P_{12789} = (20, 14, 11, 1)$	401 : $P_{14733} = (12, 11, 13, 1)$	455 : $P_{16381} = (28, 30, 14, 1)$
348 : $P_{12801} = (0, 15, 11, 1)$	402 : $P_{14761} = (8, 12, 13, 1)$	456 : $P_{16382} = (29, 30, 14, 1)$
349 : $P_{12808} = (7, 15, 11, 1)$	403 : $P_{14815} = (30, 13, 13, 1)$	457 : $P_{16398} = (13, 31, 14, 1)$
350 : $P_{12814} = (13, 15, 11, 1)$	404 : $P_{14853} = (4, 15, 13, 1)$	458 : $P_{16410} = (25, 31, 14, 1)$
351 : $P_{12887} = (22, 17, 11, 1)$	405 : $P_{14868} = (19, 15, 13, 1)$	459 : $P_{16412} = (27, 31, 14, 1)$
352 : $P_{12940} = (11, 19, 11, 1)$	406 : $P_{14876} = (27, 15, 13, 1)$	460 : $P_{16419} = (2, 0, 15, 1)$
353 : $P_{13008} = (15, 21, 11, 1)$	407 : $P_{14884} = (3, 16, 13, 1)$	461 : $P_{16483} = (2, 2, 15, 1)$
354 : $P_{13033} = (8, 22, 11, 1)$	408 : $P_{14933} = (20, 17, 13, 1)$	462 : $P_{16525} = (12, 3, 15, 1)$
355 : $P_{13083} = (26, 23, 11, 1)$	409 : $P_{14969} = (24, 18, 13, 1)$	463 : $P_{16542} = (29, 3, 15, 1)$
356 : $P_{13100} = (11, 24, 11, 1)$	410 : $P_{14980} = (3, 19, 13, 1)$	464 : $P_{16544} = (31, 3, 15, 1)$
357 : $P_{13142} = (21, 25, 11, 1)$	411 : $P_{14994} = (17, 19, 13, 1)$	465 : $P_{16572} = (27, 4, 15, 1)$
358 : $P_{13168} = (15, 26, 11, 1)$	412 : $P_{15007} = (30, 19, 13, 1)$	466 : $P_{16637} = (28, 6, 15, 1)$
359 : $P_{13170} = (17, 26, 11, 1)$	413 : $P_{15036} = (27, 20, 13, 1)$	467 : $P_{16656} = (15, 7, 15, 1)$
360 : $P_{13173} = (20, 26, 11, 1)$	414 : $P_{15144} = (7, 24, 13, 1)$	468 : $P_{16688} = (15, 8, 15, 1)$
361 : $P_{13212} = (27, 27, 11, 1)$	415 : $P_{15227} = (26, 26, 13, 1)$	469 : $P_{16758} = (21, 10, 15, 1)$
362 : $P_{13289} = (8, 30, 11, 1)$	416 : $P_{15284} = (19, 28, 13, 1)$	470 : $P_{16826} = (25, 12, 15, 1)$
363 : $P_{13351} = (6, 0, 12, 1)$	417 : $P_{15354} = (25, 30, 13, 1)$	471 : $P_{16895} = (30, 14, 15, 1)$
364 : $P_{13366} = (21, 0, 12, 1)$	418 : $P_{15368} = (7, 31, 13, 1)$	472 : $P_{16909} = (12, 15, 15, 1)$
365 : $P_{13375} = (30, 0, 12, 1)$	419 : $P_{15485} = (28, 2, 14, 1)$	473 : $P_{16959} = (30, 16, 15, 1)$
366 : $P_{13453} = (12, 3, 12, 1)$	420 : $P_{15497} = (8, 3, 14, 1)$	474 : $P_{17035} = (10, 19, 15, 1)$
367 : $P_{13475} = (2, 4, 12, 1)$	421 : $P_{15515} = (26, 3, 14, 1)$	475 : $P_{17114} = (25, 21, 15, 1)$
368 : $P_{13539} = (2, 6, 12, 1)$	422 : $P_{15518} = (29, 3, 14, 1)$	476 : $P_{17188} = (3, 24, 15, 1)$
369 : $P_{13543} = (6, 6, 12, 1)$	423 : $P_{15531} = (10, 4, 14, 1)$	477 : $P_{17227} = (10, 25, 15, 1)$
370 : $P_{13546} = (9, 6, 12, 1)$	424 : $P_{15548} = (27, 4, 14, 1)$	478 : $P_{17277} = (28, 26, 15, 1)$
371 : $P_{13577} = (8, 7, 12, 1)$	425 : $P_{15551} = (30, 4, 14, 1)$	479 : $P_{17284} = (3, 27, 15, 1)$
372 : $P_{13621} = (20, 8, 12, 1)$	426 : $P_{15610} = (25, 6, 14, 1)$	480 : $P_{17344} = (31, 28, 15, 1)$
373 : $P_{13638} = (5, 9, 12, 1)$	427 : $P_{15669} = (20, 8, 14, 1)$	481 : $P_{17406} = (29, 30, 15, 1)$
374 : $P_{13688} = (23, 10, 12, 1)$	428 : $P_{15729} = (16, 10, 14, 1)$	482 : $P_{17409} = (0, 31, 15, 1)$
375 : $P_{13722} = (25, 11, 12, 1)$	429 : $P_{15753} = (8, 11, 14, 1)$	483 : $P_{17430} = (21, 31, 15, 1)$
376 : $P_{13734} = (5, 12, 12, 1)$	430 : $P_{15830} = (21, 13, 14, 1)$	484 : $P_{17436} = (27, 31, 15, 1)$
377 : $P_{13833} = (8, 15, 12, 1)$	431 : $P_{15851} = (10, 14, 14, 1)$	485 : $P_{17453} = (12, 0, 16, 1)$
378 : $P_{13834} = (9, 15, 12, 1)$	432 : $P_{15859} = (18, 14, 14, 1)$	486 : $P_{17524} = (19, 2, 16, 1)$
379 : $P_{13837} = (12, 15, 12, 1)$	433 : $P_{15864} = (23, 14, 14, 1)$	487 : $P_{17543} = (6, 3, 16, 1)$
380 : $P_{13934} = (13, 18, 12, 1)$	434 : $P_{15919} = (14, 16, 14, 1)$	488 : $P_{17595} = (26, 4, 16, 1)$
381 : $P_{13946} = (25, 18, 12, 1)$	435 : $P_{15982} = (13, 18, 14, 1)$	489 : $P_{17607} = (6, 5, 16, 1)$
382 : $P_{13985} = (0, 20, 12, 1)$	436 : $P_{16036} = (3, 20, 14, 1)$	490 : $P_{17646} = (13, 6, 16, 1)$
383 : $P_{14038} = (21, 21, 12, 1)$	437 : $P_{16074} = (9, 21, 14, 1)$	491 : $P_{17720} = (23, 8, 16, 1)$
384 : $P_{14213} = (4, 27, 12, 1)$	438 : $P_{16129} = (0, 23, 14, 1)$	492 : $P_{17731} = (2, 9, 16, 1)$
385 : $P_{14261} = (20, 28, 12, 1)$	439 : $P_{16132} = (3, 23, 14, 1)$	493 : $P_{17746} = (17, 9, 16, 1)$
386 : $P_{14296} = (23, 29, 12, 1)$	440 : $P_{16141} = (12, 23, 14, 1)$	494 : $P_{17795} = (2, 11, 16, 1)$
387 : $P_{14335} = (30, 30, 12, 1)$	441 : $P_{16182} = (21, 24, 14, 1)$	495 : $P_{17806} = (13, 11, 16, 1)$
388 : $P_{14341} = (4, 31, 12, 1)$	442 : $P_{16195} = (2, 25, 14, 1)$	496 : $P_{17823} = (30, 11, 16, 1)$
389 : $P_{14350} = (13, 31, 12, 1)$	443 : $P_{16216} = (23, 25, 14, 1)$	497 : $P_{17837} = (12, 12, 16, 1)$
390 : $P_{14395} = (26, 0, 13, 1)$	444 : $P_{16219} = (26, 25, 14, 1)$	498 : $P_{17911} = (22, 14, 16, 1)$
391 : $P_{14450} = (17, 2, 13, 1)$	445 : $P_{16226} = (1, 26, 14, 1)$	499 : $P_{17945} = (24, 15, 16, 1)$
392 : $P_{14475} = (10, 3, 13, 1)$	446 : $P_{16241} = (16, 26, 14, 1)$	500 : $P_{17967} = (14, 16, 16, 1)$
393 : $P_{14505} = (8, 4, 13, 1)$	447 : $P_{16255} = (30, 26, 14, 1)$	501 : $P_{18004} = (19, 17, 16, 1)$
394 : $P_{14549} = (20, 5, 13, 1)$	448 : $P_{16258} = (1, 27, 14, 1)$	502 : $P_{18025} = (8, 18, 16, 1)$
395 : $P_{14561} = (0, 6, 13, 1)$	449 : $P_{16259} = (2, 27, 14, 1)$	503 : $P_{18143} = (30, 21, 16, 1)$

504 : $P_{18201} = (24, 23, 16, 1)$	558 : $P_{20159} = (30, 20, 18, 1)$	612 : $P_{21763} = (2, 7, 20, 1)$
505 : $P_{18226} = (17, 24, 16, 1)$	559 : $P_{20178} = (17, 21, 18, 1)$	613 : $P_{21794} = (1, 8, 20, 1)$
506 : $P_{18231} = (22, 24, 16, 1)$	560 : $P_{20245} = (20, 23, 18, 1)$	614 : $P_{21826} = (1, 9, 20, 1)$
507 : $P_{18241} = (0, 25, 16, 1)$	561 : $P_{20266} = (9, 24, 18, 1)$	615 : $P_{21837} = (12, 9, 20, 1)$
508 : $P_{18281} = (8, 26, 16, 1)$	562 : $P_{20361} = (8, 27, 18, 1)$	616 : $P_{21849} = (24, 9, 20, 1)$
509 : $P_{18310} = (5, 27, 16, 1)$	563 : $P_{20403} = (18, 28, 18, 1)$	617 : $P_{21879} = (22, 10, 20, 1)$
510 : $P_{18406} = (5, 30, 16, 1)$	564 : $P_{20441} = (24, 29, 18, 1)$	618 : $P_{21895} = (6, 11, 20, 1)$
511 : $P_{18415} = (14, 30, 16, 1)$	565 : $P_{20472} = (23, 30, 18, 1)$	619 : $P_{21952} = (31, 12, 20, 1)$
512 : $P_{18427} = (26, 30, 16, 1)$	566 : $P_{20600} = (23, 2, 19, 1)$	620 : $P_{21959} = (6, 13, 20, 1)$
513 : $P_{18456} = (23, 31, 16, 1)$	567 : $P_{20642} = (1, 4, 19, 1)$	621 : $P_{22026} = (9, 15, 20, 1)$
514 : $P_{18472} = (7, 0, 17, 1)$	568 : $P_{20644} = (3, 4, 19, 1)$	622 : $P_{22028} = (11, 15, 20, 1)$
515 : $P_{18479} = (14, 0, 17, 1)$	569 : $P_{20657} = (16, 4, 19, 1)$	623 : $P_{22040} = (23, 15, 20, 1)$
516 : $P_{18490} = (25, 0, 17, 1)$	570 : $P_{20674} = (1, 5, 19, 1)$	624 : $P_{22054} = (5, 16, 20, 1)$
517 : $P_{18556} = (27, 2, 17, 1)$	571 : $P_{20681} = (8, 5, 19, 1)$	625 : $P_{22105} = (24, 17, 20, 1)$
518 : $P_{18657} = (0, 6, 17, 1)$	572 : $P_{20700} = (27, 5, 19, 1)$	626 : $P_{22152} = (7, 19, 20, 1)$
519 : $P_{18696} = (7, 7, 17, 1)$	573 : $P_{20737} = (0, 7, 19, 1)$	627 : $P_{22158} = (13, 19, 20, 1)$
520 : $P_{18749} = (28, 8, 17, 1)$	574 : $P_{20740} = (3, 7, 19, 1)$	628 : $P_{22176} = (31, 19, 20, 1)$
521 : $P_{18775} = (22, 9, 17, 1)$	575 : $P_{20754} = (17, 7, 19, 1)$	629 : $P_{22184} = (7, 20, 20, 1)$
522 : $P_{18834} = (17, 11, 17, 1)$	576 : $P_{20788} = (19, 8, 19, 1)$	630 : $P_{22214} = (5, 21, 20, 1)$
523 : $P_{18835} = (18, 11, 17, 1)$	577 : $P_{20793} = (24, 8, 19, 1)$	631 : $P_{22328} = (23, 24, 20, 1)$
524 : $P_{18836} = (19, 11, 17, 1)$	578 : $P_{20794} = (25, 8, 19, 1)$	632 : $P_{22369} = (0, 26, 20, 1)$
525 : $P_{18883} = (2, 13, 17, 1)$	579 : $P_{20803} = (2, 9, 19, 1)$	633 : $P_{22455} = (22, 28, 20, 1)$
526 : $P_{18927} = (14, 14, 17, 1)$	580 : $P_{20805} = (4, 9, 19, 1)$	634 : $P_{22468} = (3, 29, 20, 1)$
527 : $P_{18947} = (2, 15, 17, 1)$	581 : $P_{20821} = (20, 9, 19, 1)$	635 : $P_{22500} = (3, 30, 20, 1)$
528 : $P_{18961} = (16, 15, 17, 1)$	582 : $P_{20867} = (2, 11, 19, 1)$	636 : $P_{22510} = (13, 30, 20, 1)$
529 : $P_{19012} = (3, 17, 17, 1)$	583 : $P_{20933} = (4, 13, 19, 1)$	637 : $P_{22524} = (27, 30, 20, 1)$
530 : $P_{19044} = (3, 18, 17, 1)$	584 : $P_{20937} = (8, 13, 19, 1)$	638 : $P_{22570} = (9, 0, 21, 1)$
531 : $P_{19079} = (6, 19, 17, 1)$	585 : $P_{20959} = (30, 13, 19, 1)$	639 : $P_{22574} = (13, 0, 21, 1)$
532 : $P_{19133} = (28, 20, 17, 1)$	586 : $P_{20983} = (22, 14, 19, 1)$	640 : $P_{22577} = (16, 0, 21, 1)$
533 : $P_{19143} = (6, 21, 17, 1)$	587 : $P_{21049} = (24, 16, 19, 1)$	641 : $P_{22667} = (10, 3, 21, 1)$
534 : $P_{19252} = (19, 24, 17, 1)$	588 : $P_{21062} = (5, 17, 19, 1)$	642 : $P_{22692} = (3, 4, 21, 1)$
535 : $P_{19283} = (18, 25, 17, 1)$	589 : $P_{21071} = (14, 17, 19, 1)$	643 : $P_{22738} = (17, 5, 21, 1)$
536 : $P_{19290} = (25, 25, 17, 1)$	590 : $P_{21082} = (25, 17, 19, 1)$	644 : $P_{22746} = (25, 5, 21, 1)$
537 : $P_{19292} = (27, 25, 17, 1)$	591 : $P_{21128} = (7, 19, 19, 1)$	645 : $P_{22749} = (28, 5, 21, 1)$
538 : $P_{19314} = (17, 26, 17, 1)$	592 : $P_{21132} = (11, 19, 19, 1)$	646 : $P_{22788} = (3, 7, 21, 1)$
539 : $P_{19473} = (16, 31, 17, 1)$	593 : $P_{21151} = (30, 19, 19, 1)$	647 : $P_{22838} = (21, 8, 21, 1)$
540 : $P_{19479} = (22, 31, 17, 1)$	594 : $P_{21158} = (5, 20, 19, 1)$	648 : $P_{22858} = (9, 9, 21, 1)$
541 : $P_{19505} = (16, 0, 18, 1)$	595 : $P_{21160} = (7, 20, 19, 1)$	649 : $P_{22859} = (10, 9, 21, 1)$
542 : $P_{19605} = (20, 3, 18, 1)$	596 : $P_{21169} = (16, 20, 19, 1)$	650 : $P_{22872} = (23, 9, 21, 1)$
543 : $P_{19634} = (17, 4, 18, 1)$	597 : $P_{21208} = (23, 21, 19, 1)$	651 : $P_{22912} = (31, 10, 21, 1)$
544 : $P_{19673} = (24, 5, 18, 1)$	598 : $P_{21234} = (17, 22, 19, 1)$	652 : $P_{22937} = (24, 11, 21, 1)$
545 : $P_{19770} = (25, 8, 18, 1)$	599 : $P_{21264} = (15, 23, 19, 1)$	653 : $P_{22990} = (13, 13, 21, 1)$
546 : $P_{19777} = (0, 9, 18, 1)$	600 : $P_{21292} = (11, 24, 19, 1)$	654 : $P_{23071} = (30, 15, 21, 1)$
547 : $P_{19781} = (4, 9, 18, 1)$	601 : $P_{21296} = (15, 24, 19, 1)$	655 : $P_{23089} = (16, 16, 21, 1)$
548 : $P_{19800} = (23, 9, 18, 1)$	602 : $P_{21303} = (22, 24, 19, 1)$	656 : $P_{23107} = (2, 17, 21, 1)$
549 : $P_{19839} = (30, 10, 18, 1)$	603 : $P_{21396} = (19, 27, 19, 1)$	657 : $P_{23113} = (8, 17, 21, 1)$
550 : $P_{19909} = (4, 13, 18, 1)$	604 : $P_{21461} = (20, 29, 19, 1)$	658 : $P_{23135} = (30, 17, 21, 1)$
551 : $P_{19955} = (18, 14, 18, 1)$	605 : $P_{21500} = (27, 30, 19, 1)$	659 : $P_{23152} = (15, 18, 21, 1)$
552 : $P_{20017} = (16, 16, 18, 1)$	606 : $P_{21519} = (14, 31, 19, 1)$	660 : $P_{23171} = (2, 19, 21, 1)$
553 : $P_{20036} = (3, 17, 18, 1)$	607 : $P_{21676} = (11, 4, 20, 1)$	661 : $P_{23183} = (14, 19, 21, 1)$
554 : $P_{20042} = (9, 17, 18, 1)$	608 : $P_{21699} = (2, 5, 20, 1)$	662 : $P_{23193} = (24, 19, 21, 1)$
555 : $P_{20058} = (25, 17, 18, 1)$	609 : $P_{21709} = (12, 5, 20, 1)$	663 : $P_{23218} = (17, 20, 21, 1)$
556 : $P_{20068} = (3, 18, 18, 1)$	610 : $P_{21724} = (27, 5, 20, 1)$	664 : $P_{23264} = (31, 21, 21, 1)$
557 : $P_{20105} = (8, 19, 18, 1)$	611 : $P_{21738} = (9, 6, 20, 1)$	665 : $P_{23361} = (0, 25, 21, 1)$

666 : $P_{23369} = (8, 25, 21, 1)$	720 : $P_{25119} = (30, 15, 23, 1)$	774 : $P_{26747} = (26, 2, 25, 1)$
667 : $P_{23389} = (28, 25, 21, 1)$	721 : $P_{25183} = (30, 17, 23, 1)$	775 : $P_{26781} = (28, 3, 25, 1)$
668 : $P_{23482} = (25, 28, 21, 1)$	722 : $P_{25193} = (8, 18, 23, 1)$	776 : $P_{26807} = (22, 4, 25, 1)$
669 : $P_{23503} = (14, 29, 21, 1)$	723 : $P_{25249} = (0, 20, 23, 1)$	777 : $P_{26828} = (11, 5, 25, 1)$
670 : $P_{23504} = (15, 29, 21, 1)$	724 : $P_{25263} = (14, 20, 23, 1)$	778 : $P_{26861} = (12, 6, 25, 1)$
671 : $P_{23510} = (21, 29, 21, 1)$	725 : $P_{25273} = (24, 20, 23, 1)$	779 : $P_{26901} = (20, 7, 25, 1)$
672 : $P_{23544} = (23, 30, 21, 1)$	726 : $P_{25339} = (26, 22, 23, 1)$	780 : $P_{26963} = (18, 9, 25, 1)$
673 : $P_{23678} = (29, 2, 22, 1)$	727 : $P_{25354} = (9, 23, 23, 1)$	781 : $P_{26966} = (21, 9, 25, 1)$
674 : $P_{23690} = (9, 3, 22, 1)$	728 : $P_{25397} = (20, 24, 23, 1)$	782 : $P_{26976} = (31, 9, 25, 1)$
675 : $P_{23745} = (0, 5, 22, 1)$	729 : $P_{25427} = (18, 25, 23, 1)$	783 : $P_{26981} = (4, 10, 25, 1)$
676 : $P_{23843} = (2, 8, 22, 1)$	730 : $P_{25428} = (19, 25, 23, 1)$	784 : $P_{26989} = (12, 10, 25, 1)$
677 : $P_{23845} = (4, 8, 22, 1)$	731 : $P_{25432} = (23, 25, 23, 1)$	785 : $P_{26993} = (16, 10, 25, 1)$
678 : $P_{23858} = (17, 8, 22, 1)$	732 : $P_{25449} = (8, 26, 23, 1)$	786 : $P_{27109} = (4, 14, 25, 1)$
679 : $P_{23907} = (2, 10, 22, 1)$	733 : $P_{25455} = (14, 26, 23, 1)$	787 : $P_{27116} = (11, 14, 25, 1)$
680 : $P_{23914} = (9, 10, 22, 1)$	734 : $P_{25457} = (16, 26, 23, 1)$	788 : $P_{27128} = (23, 14, 25, 1)$
681 : $P_{23933} = (28, 10, 22, 1)$	735 : $P_{25500} = (27, 27, 23, 1)$	789 : $P_{27201} = (0, 17, 25, 1)$
682 : $P_{23972} = (3, 12, 22, 1)$	736 : $P_{25522} = (17, 28, 23, 1)$	790 : $P_{27255} = (22, 18, 25, 1)$
683 : $P_{23973} = (4, 12, 22, 1)$	737 : $P_{25578} = (9, 30, 23, 1)$	791 : $P_{27285} = (20, 19, 25, 1)$
684 : $P_{23985} = (16, 12, 22, 1)$	738 : $P_{25622} = (21, 31, 23, 1)$	792 : $P_{27392} = (31, 22, 25, 1)$
685 : $P_{24032} = (31, 13, 22, 1)$	739 : $P_{25635} = (2, 0, 24, 1)$	793 : $P_{27406} = (13, 23, 25, 1)$
686 : $P_{24034} = (1, 14, 22, 1)$	740 : $P_{25637} = (4, 0, 24, 1)$	794 : $P_{27451} = (26, 24, 25, 1)$
687 : $P_{24066} = (1, 15, 22, 1)$	741 : $P_{25664} = (31, 0, 24, 1)$	795 : $P_{27480} = (23, 25, 25, 1)$
688 : $P_{24068} = (3, 15, 22, 1)$	742 : $P_{25699} = (2, 2, 24, 1)$	796 : $P_{27494} = (5, 26, 25, 1)$
689 : $P_{24086} = (21, 15, 22, 1)$	743 : $P_{25739} = (10, 3, 24, 1)$	797 : $P_{27502} = (13, 26, 25, 1)$
690 : $P_{24168} = (7, 18, 22, 1)$	744 : $P_{25742} = (13, 3, 24, 1)$	798 : $P_{27505} = (16, 26, 25, 1)$
691 : $P_{24176} = (15, 18, 22, 1)$	745 : $P_{25759} = (30, 3, 24, 1)$	799 : $P_{27539} = (18, 27, 25, 1)$
692 : $P_{24192} = (31, 18, 22, 1)$	746 : $P_{25765} = (4, 4, 24, 1)$	800 : $P_{27574} = (21, 28, 25, 1)$
693 : $P_{24264} = (7, 21, 22, 1)$	747 : $P_{25833} = (8, 6, 24, 1)$	801 : $P_{27618} = (1, 30, 25, 1)$
694 : $P_{24317} = (28, 22, 22, 1)$	748 : $P_{25834} = (9, 6, 24, 1)$	802 : $P_{27650} = (1, 31, 25, 1)$
695 : $P_{24333} = (12, 23, 22, 1)$	749 : $P_{25849} = (24, 6, 24, 1)$	803 : $P_{27654} = (5, 31, 25, 1)$
696 : $P_{24359} = (6, 24, 22, 1)$	750 : $P_{25886} = (29, 7, 24, 1)$	804 : $P_{27677} = (28, 31, 25, 1)$
697 : $P_{24402} = (17, 25, 22, 1)$	751 : $P_{25931} = (10, 9, 24, 1)$	805 : $P_{27700} = (19, 0, 26, 1)$
698 : $P_{24438} = (21, 26, 22, 1)$	752 : $P_{25974} = (21, 10, 24, 1)$	806 : $P_{27701} = (20, 0, 26, 1)$
699 : $P_{24461} = (12, 27, 22, 1)$	753 : $P_{26036} = (19, 12, 24, 1)$	807 : $P_{27709} = (28, 0, 26, 1)$
700 : $P_{24497} = (16, 28, 22, 1)$	754 : $P_{26089} = (8, 14, 24, 1)$	808 : $P_{27761} = (16, 2, 26, 1)$
701 : $P_{24528} = (15, 29, 22, 1)$	755 : $P_{26094} = (13, 14, 24, 1)$	809 : $P_{27867} = (26, 5, 26, 1)$
702 : $P_{24551} = (6, 30, 22, 1)$	756 : $P_{26109} = (28, 14, 24, 1)$	810 : $P_{27975} = (6, 9, 26, 1)$
703 : $P_{24606} = (29, 31, 22, 1)$	757 : $P_{26122} = (9, 15, 24, 1)$	811 : $P_{27996} = (27, 9, 26, 1)$
704 : $P_{24611} = (2, 0, 23, 1)$	758 : $P_{26237} = (28, 18, 24, 1)$	812 : $P_{28030} = (29, 10, 26, 1)$
705 : $P_{24624} = (15, 0, 23, 1)$	759 : $P_{26252} = (11, 19, 24, 1)$	813 : $P_{28050} = (17, 11, 26, 1)$
706 : $P_{24636} = (27, 0, 23, 1)$	760 : $P_{26381} = (12, 23, 24, 1)$	814 : $P_{28153} = (24, 14, 26, 1)$
707 : $P_{24675} = (2, 2, 23, 1)$	761 : $P_{26412} = (11, 24, 24, 1)$	815 : $P_{28167} = (6, 15, 26, 1)$
708 : $P_{24872} = (7, 8, 23, 1)$	762 : $P_{26436} = (3, 25, 24, 1)$	816 : $P_{28197} = (4, 16, 26, 1)$
709 : $P_{24945} = (16, 10, 23, 1)$	763 : $P_{26468} = (3, 26, 24, 1)$	817 : $P_{28273} = (16, 18, 26, 1)$
710 : $P_{24948} = (19, 10, 23, 1)$	764 : $P_{26472} = (7, 26, 24, 1)$	818 : $P_{28284} = (27, 18, 26, 1)$
711 : $P_{24950} = (21, 10, 23, 1)$	765 : $P_{26494} = (29, 26, 24, 1)$	819 : $P_{28308} = (19, 19, 26, 1)$
712 : $P_{24979} = (18, 11, 23, 1)$	766 : $P_{26509} = (12, 27, 24, 1)$	820 : $P_{28325} = (4, 20, 26, 1)$
713 : $P_{25013} = (20, 12, 23, 1)$	767 : $P_{26561} = (0, 29, 24, 1)$	821 : $P_{28332} = (11, 20, 26, 1)$
714 : $P_{25017} = (24, 12, 23, 1)$	768 : $P_{26568} = (7, 29, 24, 1)$	822 : $P_{28341} = (20, 20, 26, 1)$
715 : $P_{25019} = (26, 12, 23, 1)$	769 : $P_{26591} = (30, 29, 24, 1)$	823 : $P_{28363} = (10, 21, 26, 1)$
716 : $P_{25042} = (17, 13, 23, 1)$	770 : $P_{26617} = (24, 30, 24, 1)$	824 : $P_{28409} = (24, 22, 26, 1)$
717 : $P_{25080} = (23, 14, 23, 1)$	771 : $P_{26644} = (19, 31, 24, 1)$	825 : $P_{28446} = (29, 23, 26, 1)$
718 : $P_{25096} = (7, 15, 23, 1)$	772 : $P_{26646} = (21, 31, 24, 1)$	826 : $P_{28530} = (17, 26, 26, 1)$
719 : $P_{25104} = (15, 15, 23, 1)$	773 : $P_{26656} = (31, 31, 24, 1)$	827 : $P_{28605} = (28, 28, 26, 1)$

828 : $P_{28609} = (0, 29, 26, 1)$	882 : $P_{30246} = (5, 16, 28, 1)$	936 : $P_{31959} = (22, 5, 30, 1)$
829 : $P_{28683} = (10, 31, 26, 1)$	883 : $P_{30279} = (6, 17, 28, 1)$	937 : $P_{31972} = (3, 6, 30, 1)$
830 : $P_{28684} = (11, 31, 26, 1)$	884 : $P_{30285} = (12, 17, 28, 1)$	938 : $P_{31973} = (4, 6, 30, 1)$
831 : $P_{28699} = (26, 31, 26, 1)$	885 : $P_{30296} = (23, 17, 28, 1)$	939 : $P_{31993} = (24, 6, 30, 1)$
832 : $P_{28708} = (3, 0, 27, 1)$	886 : $P_{30361} = (24, 19, 28, 1)$	940 : $P_{32029} = (28, 7, 30, 1)$
833 : $P_{28804} = (3, 3, 27, 1)$	887 : $P_{30406} = (5, 21, 28, 1)$	941 : $P_{32092} = (27, 9, 30, 1)$
834 : $P_{28845} = (12, 4, 27, 1)$	888 : $P_{30461} = (28, 22, 28, 1)$	942 : $P_{32126} = (29, 10, 30, 1)$
835 : $P_{28879} = (14, 5, 27, 1)$	889 : $P_{30463} = (30, 22, 28, 1)$	943 : $P_{32223} = (30, 13, 30, 1)$
836 : $P_{28950} = (21, 7, 27, 1)$	890 : $P_{30464} = (31, 22, 28, 1)$	944 : $P_{32238} = (13, 14, 30, 1)$
837 : $P_{28966} = (5, 8, 27, 1)$	891 : $P_{30471} = (6, 23, 28, 1)$	945 : $P_{32267} = (10, 15, 30, 1)$
838 : $P_{28973} = (12, 8, 27, 1)$	892 : $P_{30620} = (27, 27, 28, 1)$	946 : $P_{32291} = (2, 16, 30, 1)$
839 : $P_{28980} = (19, 8, 27, 1)$	893 : $P_{30643} = (18, 28, 28, 1)$	947 : $P_{32303} = (14, 16, 30, 1)$
840 : $P_{29000} = (7, 9, 27, 1)$	894 : $P_{30669} = (12, 29, 28, 1)$	948 : $P_{32308} = (19, 16, 30, 1)$
841 : $P_{29071} = (14, 11, 27, 1)$	895 : $P_{30740} = (19, 31, 28, 1)$	949 : $P_{32355} = (2, 18, 30, 1)$
842 : $P_{29118} = (29, 12, 27, 1)$	896 : $P_{30849} = (0, 3, 29, 1)$	950 : $P_{32359} = (6, 18, 30, 1)$
843 : $P_{29126} = (5, 13, 27, 1)$	897 : $P_{31001} = (24, 7, 29, 1)$	951 : $P_{32380} = (27, 18, 30, 1)$
844 : $P_{29160} = (7, 14, 27, 1)$	898 : $P_{31027} = (18, 8, 29, 1)$	952 : $P_{32407} = (22, 19, 30, 1)$
845 : $P_{29201} = (16, 15, 27, 1)$	899 : $P_{31030} = (21, 8, 29, 1)$	953 : $P_{32408} = (23, 19, 30, 1)$
846 : $P_{29211} = (26, 15, 27, 1)$	900 : $P_{31036} = (27, 8, 29, 1)$	954 : $P_{32415} = (30, 19, 30, 1)$
847 : $P_{29227} = (10, 16, 27, 1)$	901 : $P_{31074} = (1, 10, 29, 1)$	955 : $P_{32423} = (6, 20, 30, 1)$
848 : $P_{29278} = (29, 17, 27, 1)$	902 : $P_{31106} = (1, 11, 29, 1)$	956 : $P_{32522} = (9, 23, 30, 1)$
849 : $P_{29302} = (21, 18, 27, 1)$	903 : $P_{31112} = (7, 11, 29, 1)$	957 : $P_{32524} = (11, 23, 30, 1)$
850 : $P_{29319} = (6, 19, 27, 1)$	904 : $P_{31131} = (26, 11, 29, 1)$	958 : $P_{32542} = (29, 23, 30, 1)$
851 : $P_{29345} = (0, 20, 27, 1)$	905 : $P_{31144} = (7, 12, 29, 1)$	959 : $P_{32545} = (0, 24, 30, 1)$
852 : $P_{29383} = (6, 21, 27, 1)$	906 : $P_{31186} = (17, 13, 29, 1)$	960 : $P_{32550} = (5, 24, 30, 1)$
853 : $P_{29403} = (26, 21, 27, 1)$	907 : $P_{31226} = (25, 14, 29, 1)$	961 : $P_{32571} = (26, 24, 30, 1)$
854 : $P_{29449} = (8, 23, 27, 1)$	908 : $P_{31253} = (20, 15, 29, 1)$	962 : $P_{32669} = (28, 27, 30, 1)$
855 : $P_{29547} = (10, 26, 27, 1)$	909 : $P_{31280} = (15, 16, 29, 1)$	963 : $P_{32684} = (11, 28, 30, 1)$
856 : $P_{29588} = (19, 27, 27, 1)$	910 : $P_{31299} = (2, 17, 29, 1)$	964 : $P_{32710} = (5, 29, 30, 1)$
857 : $P_{29635} = (2, 29, 27, 1)$	911 : $P_{31301} = (4, 17, 29, 1)$	965 : $P_{32746} = (9, 30, 30, 1)$
858 : $P_{29699} = (2, 31, 27, 1)$	912 : $P_{31323} = (26, 17, 29, 1)$	966 : $P_{32751} = (14, 30, 30, 1)$
859 : $P_{29705} = (8, 31, 27, 1)$	913 : $P_{31363} = (2, 19, 29, 1)$	967 : $P_{32761} = (24, 30, 30, 1)$
860 : $P_{29713} = (16, 31, 27, 1)$	914 : $P_{31366} = (5, 19, 29, 1)$	968 : $P_{32805} = (4, 0, 31, 1)$
861 : $P_{29740} = (11, 0, 28, 1)$	915 : $P_{31388} = (27, 19, 29, 1)$	969 : $P_{32870} = (5, 2, 31, 1)$
862 : $P_{29742} = (13, 0, 28, 1)$	916 : $P_{31404} = (11, 20, 29, 1)$	970 : $P_{32920} = (23, 3, 31, 1)$
863 : $P_{29756} = (27, 0, 28, 1)$	917 : $P_{31429} = (4, 21, 29, 1)$	971 : $P_{32933} = (4, 4, 31, 1)$
864 : $P_{29903} = (14, 5, 28, 1)$	918 : $P_{31462} = (5, 22, 29, 1)$	972 : $P_{32979} = (18, 5, 31, 1)$
865 : $P_{29921} = (0, 6, 28, 1)$	919 : $P_{31514} = (25, 23, 29, 1)$	973 : $P_{32983} = (22, 5, 31, 1)$
866 : $P_{29931} = (10, 6, 28, 1)$	920 : $P_{31603} = (18, 26, 29, 1)$	974 : $P_{32987} = (26, 5, 31, 1)$
867 : $P_{29944} = (23, 6, 28, 1)$	921 : $P_{31637} = (20, 27, 29, 1)$	975 : $P_{33007} = (14, 6, 31, 1)$
868 : $P_{29989} = (4, 8, 28, 1)$	922 : $P_{31666} = (17, 28, 29, 1)$	976 : $P_{33030} = (5, 7, 31, 1)$
869 : $P_{29992} = (7, 8, 28, 1)$	923 : $P_{31702} = (21, 29, 29, 1)$	977 : $P_{33071} = (14, 8, 31, 1)$
870 : $P_{30015} = (30, 8, 28, 1)$	924 : $P_{31756} = (11, 31, 29, 1)$	978 : $P_{33152} = (31, 10, 31, 1)$
871 : $P_{30048} = (31, 9, 28, 1)$	925 : $P_{31760} = (15, 31, 29, 1)$	979 : $P_{33236} = (19, 13, 31, 1)$
872 : $P_{30077} = (28, 10, 28, 1)$	926 : $P_{31769} = (24, 31, 29, 1)$	980 : $P_{33277} = (28, 14, 31, 1)$
873 : $P_{30092} = (11, 11, 28, 1)$	927 : $P_{31842} = (1, 2, 30, 1)$	981 : $P_{33315} = (2, 16, 31, 1)$
874 : $P_{30095} = (14, 11, 28, 1)$	928 : $P_{31845} = (4, 2, 30, 1)$	982 : $P_{33377} = (0, 18, 31, 1)$
875 : $P_{30105} = (24, 11, 28, 1)$	929 : $P_{31867} = (26, 2, 30, 1)$	983 : $P_{33379} = (2, 18, 31, 1)$
876 : $P_{30117} = (4, 12, 28, 1)$	930 : $P_{31874} = (1, 3, 30, 1)$	984 : $P_{33405} = (28, 18, 31, 1)$
877 : $P_{30123} = (10, 12, 28, 1)$	931 : $P_{31886} = (13, 3, 30, 1)$	985 : $P_{33431} = (22, 19, 31, 1)$
878 : $P_{30132} = (19, 12, 28, 1)$	932 : $P_{31892} = (19, 3, 30, 1)$	986 : $P_{33464} = (23, 20, 31, 1)$
879 : $P_{30158} = (13, 13, 28, 1)$	933 : $P_{31928} = (23, 4, 30, 1)$	987 : $P_{33504} = (31, 21, 31, 1)$
880 : $P_{30195} = (18, 14, 28, 1)$	934 : $P_{31940} = (3, 5, 30, 1)$	988 : $P_{33555} = (18, 23, 31, 1)$
881 : $P_{30216} = (7, 15, 28, 1)$	935 : $P_{31947} = (10, 5, 30, 1)$	989 : $P_{33639} = (6, 26, 31, 1)$

$$990 : P_{33703} = (6, 28, 31, 1)$$

$$991 : P_{33780} = (19, 30, 31, 1)$$

$$992 : P_{33819} = (26, 31, 31, 1)$$