

----- g,n: 9,1 graphs: 362 -----
 ----- Euler Characteristic (without resolving relations): $7V_1 - 1V_0 \boxtimes V_1$ -----
 ----- edges: 9 graphs: 10 -----
 ----- A3 case graphs: 10 -----

ID: 129 V_1



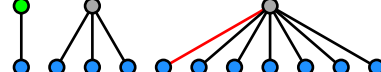
ID: 130 V_1



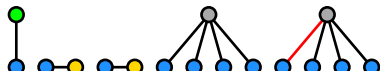
ID: 131 V_1



ID: 132 V_1



ID: 133 V_1



ID: 134 V_1



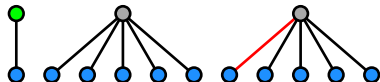
ID: 135 V_1



ID: 136 V_1



ID: 137 V_1

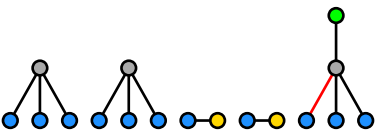


ID: 138 V_1

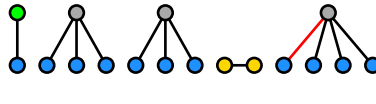


----- edges: 10 graphs: 64 -----
----- A3 case graphs: 45 -----

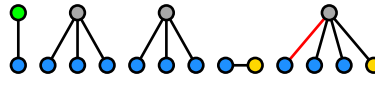
ID: 139 V_1



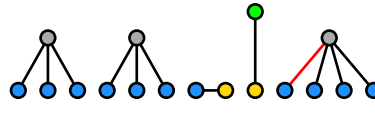
ID: 140 V_1



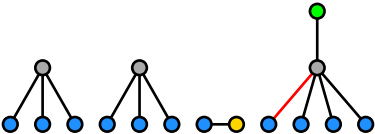
ID: 141 V_1



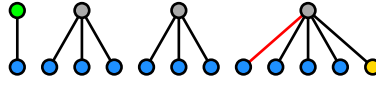
ID: 142 V_1



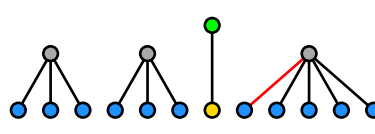
ID: 143 V_1



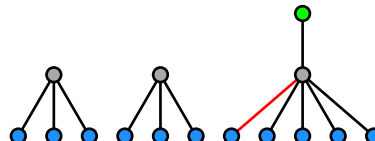
ID: 144 V_1



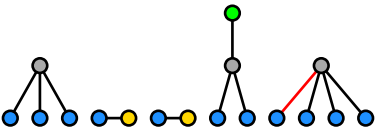
ID: 145 V_1



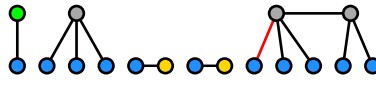
ID: 146 V_1



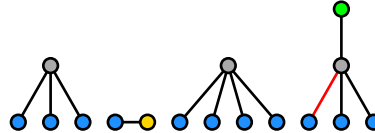
ID: 147 V_1



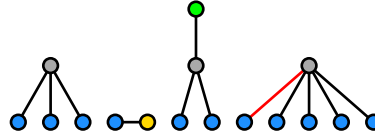
ID: 148 V_1



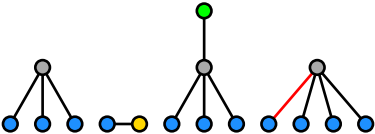
ID: 149 V_1



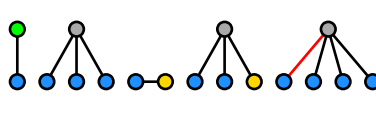
ID: 150 V_1



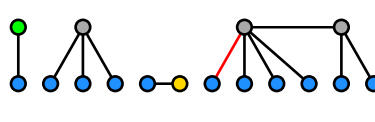
ID: 151 V_1



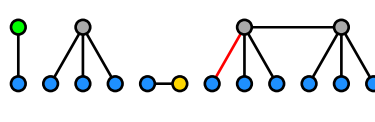
ID: 152 V_1



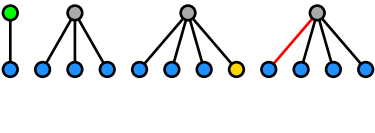
ID: 153 V_1



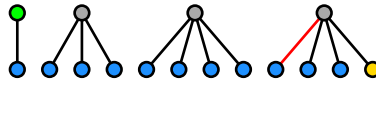
ID: 154 V_1



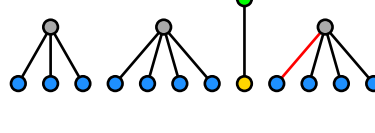
ID: 155 V_1



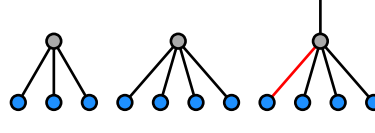
ID: 156 V_1



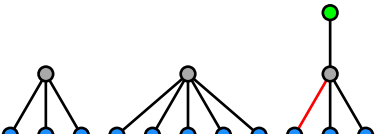
ID: 157 V_1



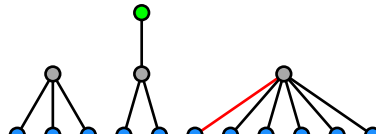
ID: 158 V_1



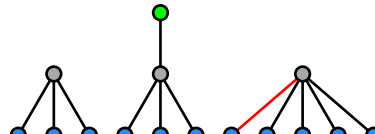
ID: 159 V_1



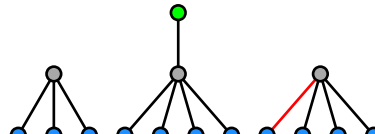
ID: 160 V_1



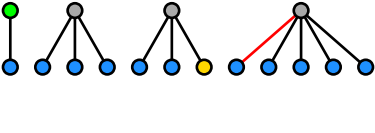
ID: 161 V_1



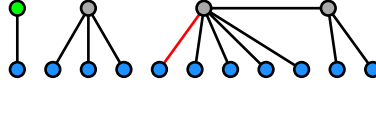
ID: 162 V_1



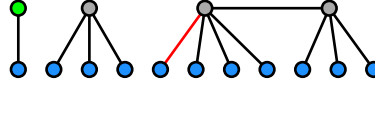
ID: 163 V_1



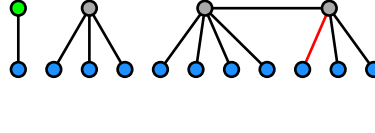
ID: 164 V_1



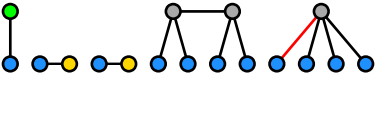
ID: 165 V_1



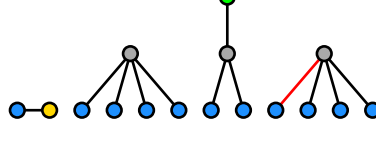
ID: 166 V_1



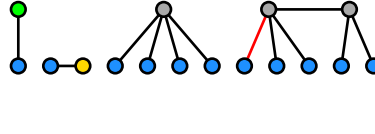
ID: 167 V_1



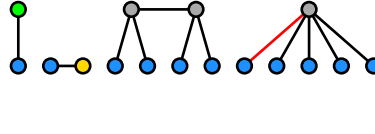
ID: 168 V_1



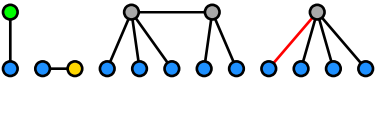
ID: 169 V_1



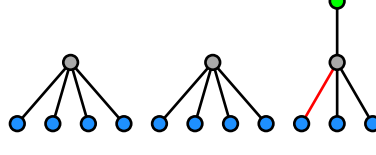
ID: 170 V_1



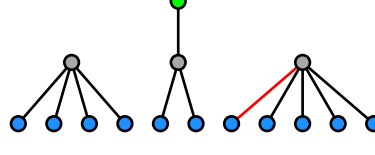
ID: 171 V_1



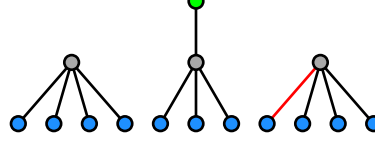
ID: 172 V_1



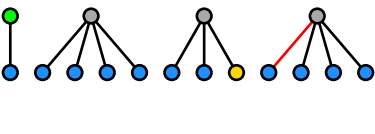
ID: 173 V_1



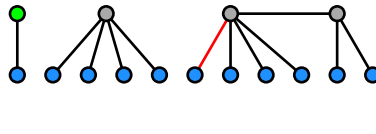
ID: 174 V_1



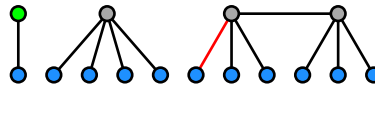
ID: 175 V_1



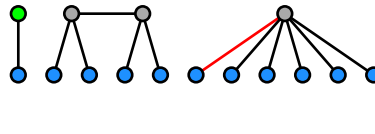
ID: 176 V_1



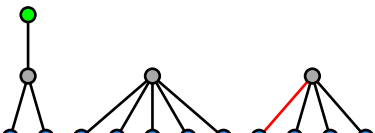
ID: 177 V_1



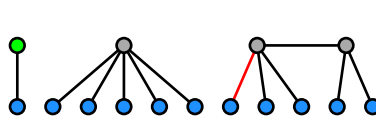
ID: 178 V_1



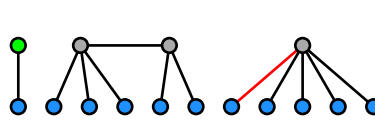
ID: 179 V_1



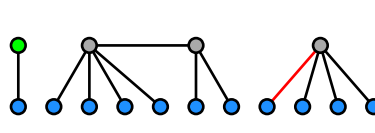
ID: 180 V_1



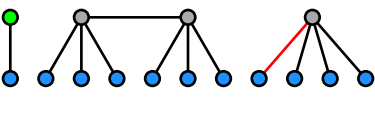
ID: 181 V_1



ID: 182 V_1



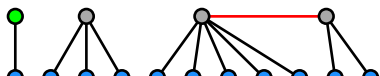
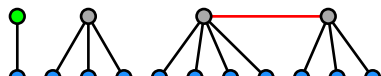
ID: 183 V_1



graphs: 19 -----

ID: 184 V_1 ID: 185 V_1 ID: 186 V_1 

ID: 187 V

ID: 188 V_1 ID: 189 V_1 ID: 190 V_1 

ID: 193 V

ID: 191 V_1 ID: 195 V_1 ID: 196 V_1 

ID: 194 V

ID: 192 V_1 

ID: 197 V

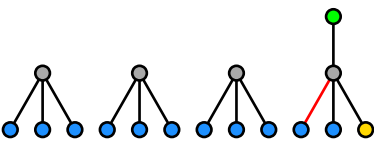
ID: 198 V₁

ID: 199 V

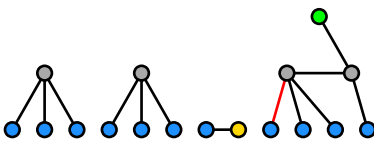
ID: 200 V_1 ID: 201 V_1 ID: 202 V_1 

----- edges: 11 graphs: 145 -----
----- A3 case graphs: 50 -----

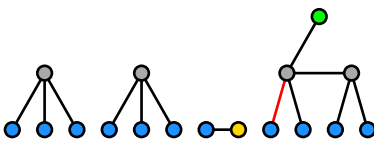
ID: 206 V_1



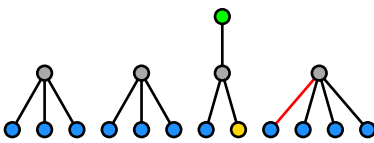
ID: 215 V_1



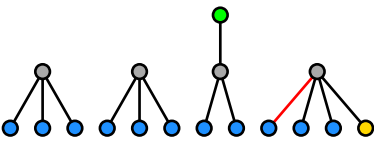
ID: 216 V_1



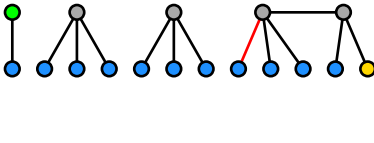
ID: 217 V_1



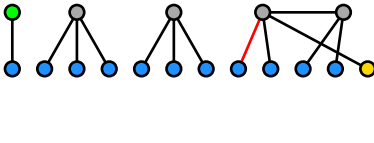
ID: 218 V_1



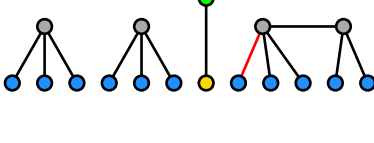
ID: 219 V_1



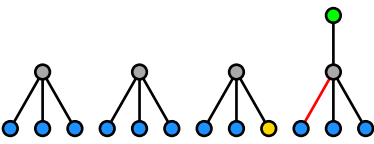
ID: 220 V_1



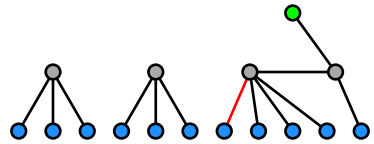
ID: 221 V_1



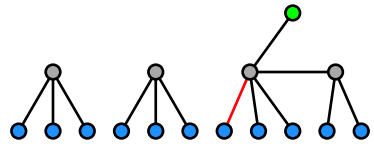
ID: 222 V_1



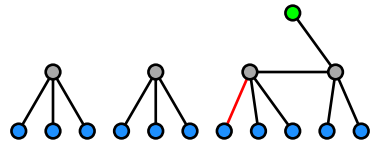
ID: 223 V_1



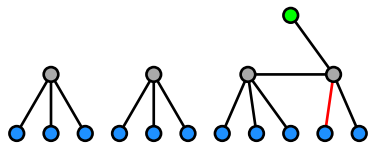
ID: 224 V_1



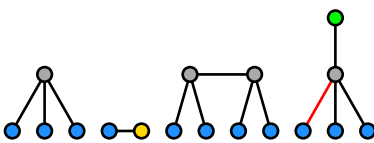
ID: 225 V_1



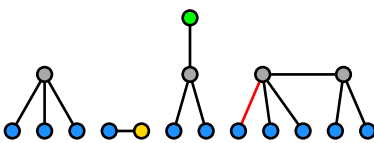
ID: 226 V_1



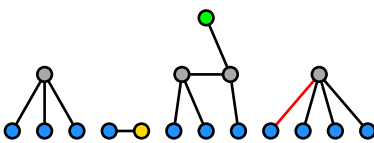
ID: 232 V_1



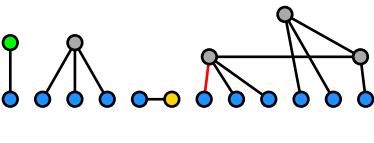
ID: 233 V_1



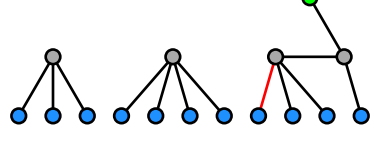
ID: 234 V_1



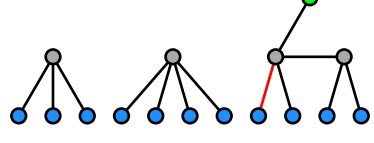
ID: 235 V_1



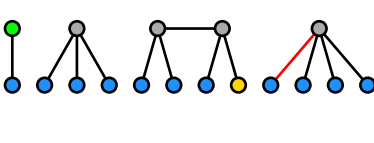
ID: 236 V_1



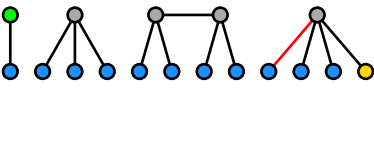
ID: 237 V_1



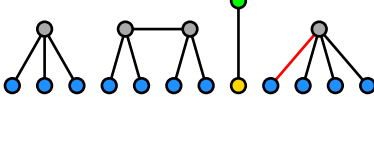
ID: 238 V_1



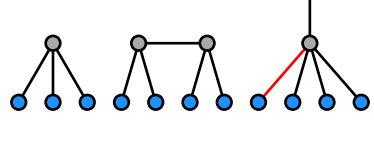
ID: 239 V_1



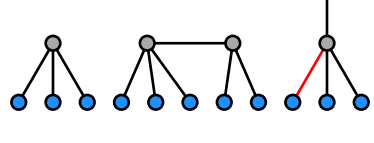
ID: 240 V_1



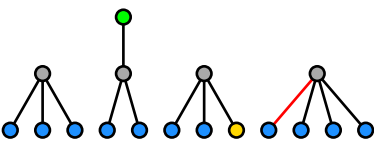
ID: 241 V_1



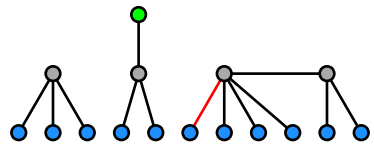
ID: 242 V_1



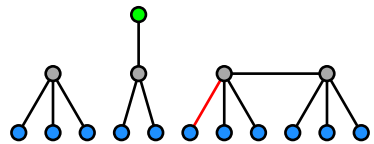
ID: 243 V_1



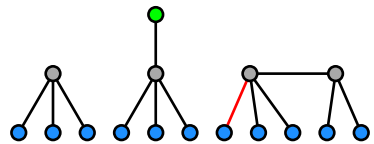
ID: 244 V_1



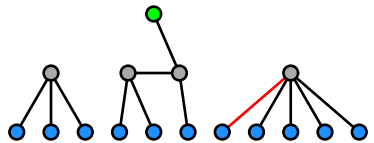
ID: 245 V_1



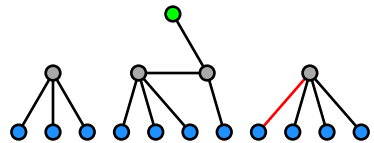
ID: 246 V_1



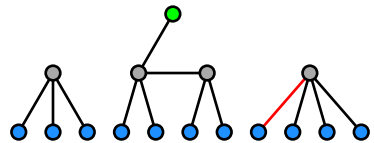
ID: 247 V_1



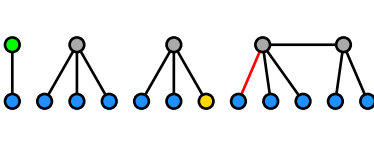
ID: 248 V_1



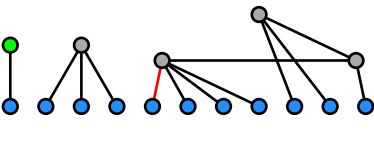
ID: 249 V_1



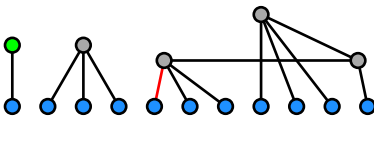
ID: 250 V_1



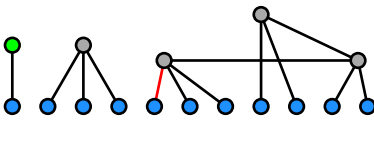
ID: 251 V_1



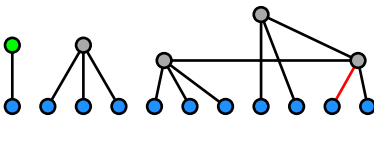
ID: 252 V_1



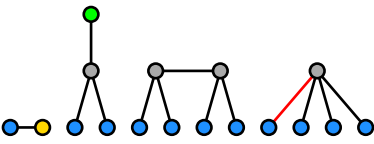
ID: 253 V_1



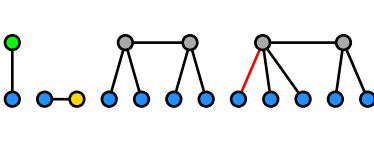
ID: 254 V_1



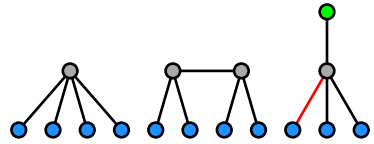
ID: 255 V_1



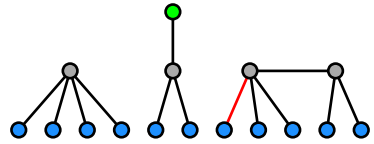
ID: 256 V_1



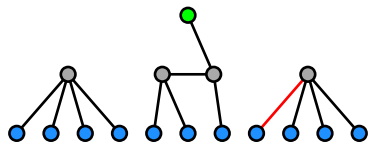
ID: 257 V_1



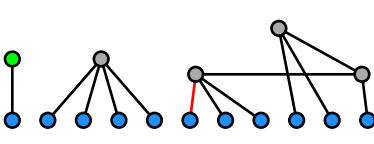
ID: 258 V_1



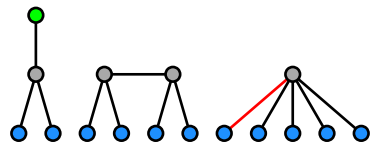
ID: 259 V_1



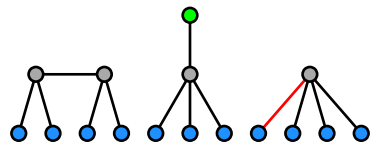
ID: 260 V_1



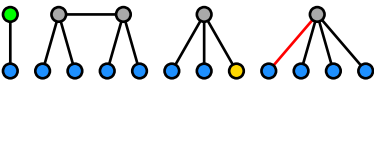
ID: 261 V_1



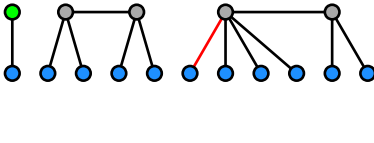
ID: 262 V_1



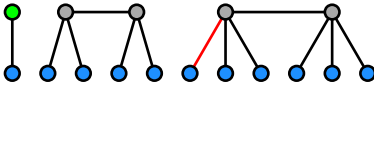
ID: 263 V_1



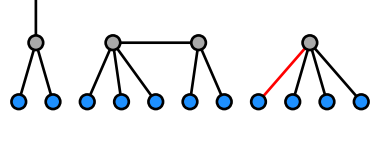
ID: 264 V_1



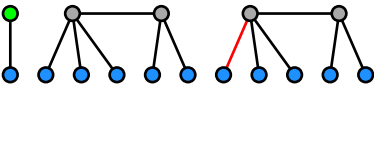
ID: 265 V_1



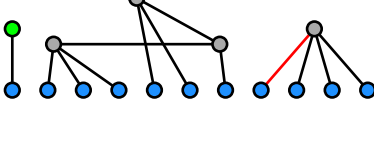
ID: 266 V_1



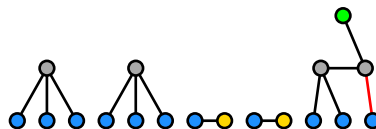
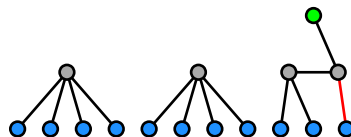
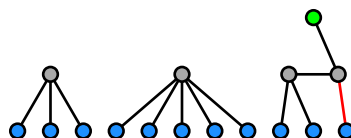
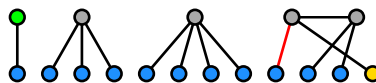
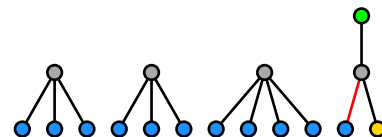
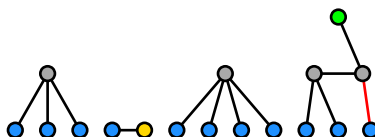
ID: 267 V_1



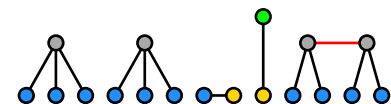
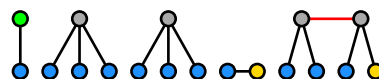
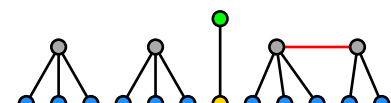
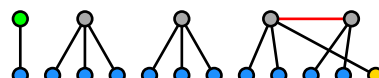
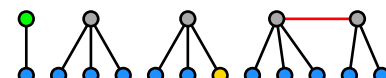
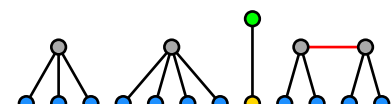
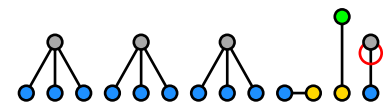
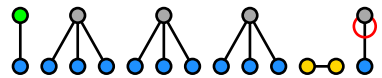
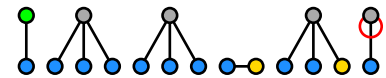
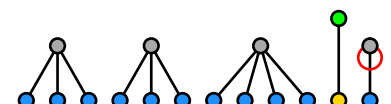
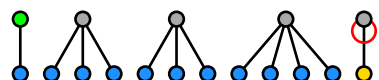
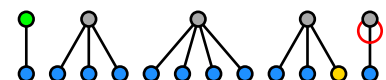
ID: 268 V_1



relation groups: 4 -----

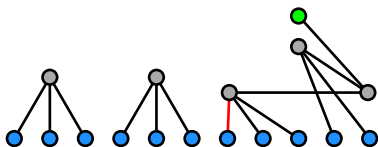
ID: 273 V_1 ID: 286 V_1 ID: 284 V_1 ID: 282 V_1 ID: 280 V_1 

relation groups: 5 -----

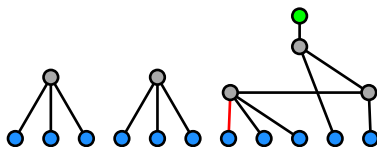
ID: 289 V_1 ID: 288 V_1 ID: 292 V_1 ID: 303 V_1 ID: 290 V_1 ID: 296 V_1 ID: 297 V_1 ID: 309 V_1 ID: 305 V_1 ID: 304 V_1 ID: 318 V_1 ID: 331 V_1 ID: 348 V_1 ID: 346 V_1 ID: 347 V_1 ID: 351 V_1 ID: 354 V_1 ID: 352 V_1 ID: 353 V_1 ID: 360 V_1 

----- edges: 12 graphs: 114 -----
 ----- A3 case graphs: 14 -----

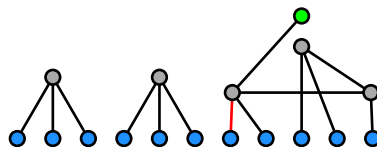
ID: 383 V_1



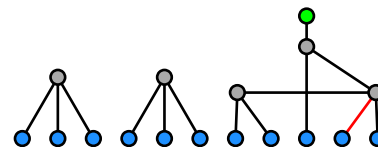
ID: 384 V_1



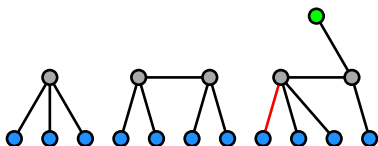
ID: 385 V_1



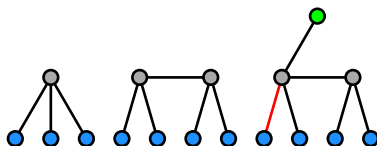
ID: 386 V_1



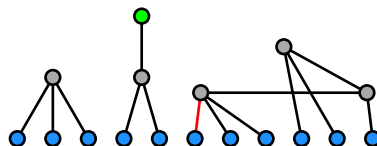
ID: 392 V_1



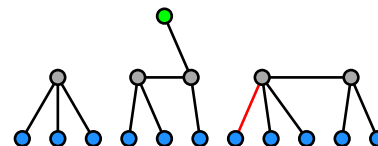
ID: 393 V_1



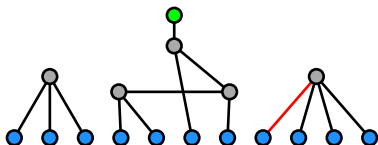
ID: 394 V_1



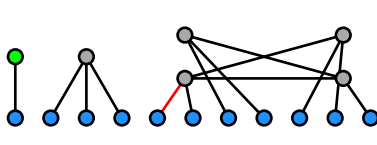
ID: 395 V_1



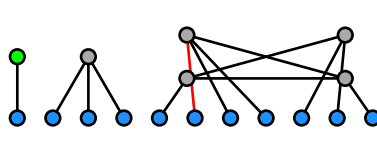
ID: 396 V_1



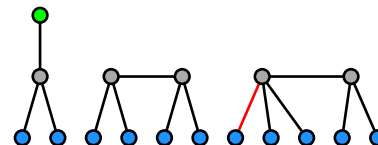
ID: 397 V_1



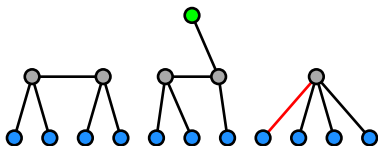
ID: 398 V_1



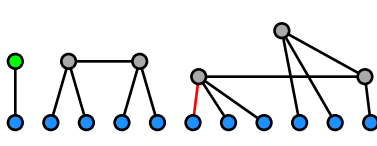
ID: 399 V_1



ID: 400 V_1



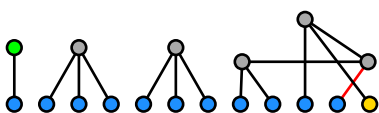
ID: 401 V_1



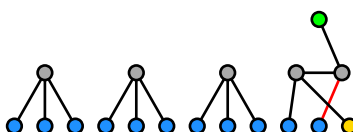
----- A2 case with weight 13 relations

relation groups: 7 -----

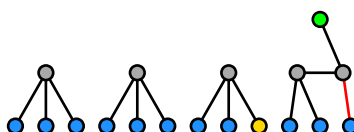
ID: 425 V_1



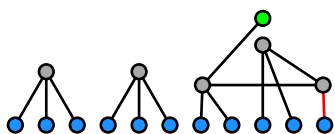
ID: 411 V_1



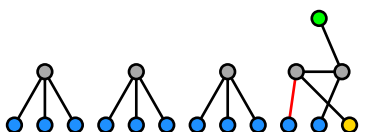
ID: 426 V_1



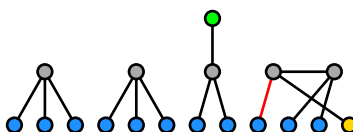
ID: 429 V_1



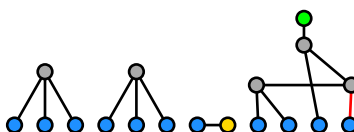
ID: 410 V_1



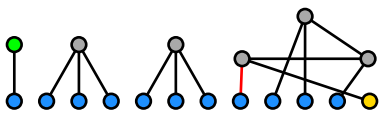
ID: 422 V_1



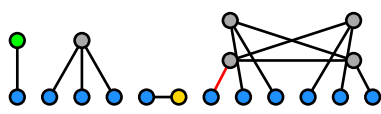
ID: 420 V_1



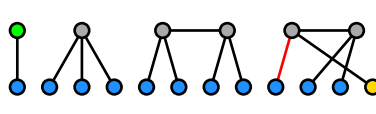
ID: 424 V_1



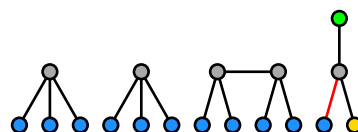
ID: 434 V_1



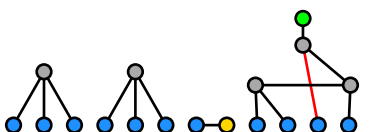
ID: 437 V_1



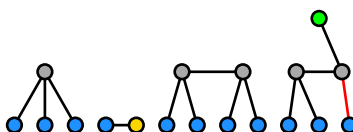
ID: 421 V_1



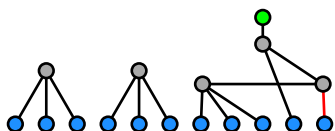
ID: 419 V_1



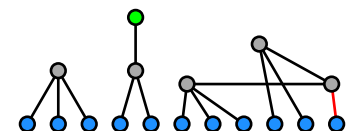
ID: 433 V_1



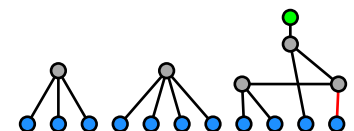
ID: 428 V_1



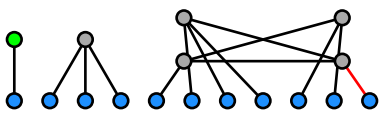
ID: 440 V_1



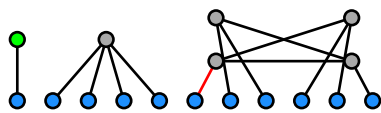
ID: 436 V_1



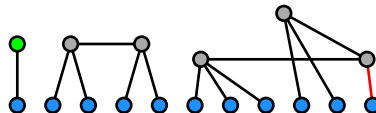
ID: 443 V_1



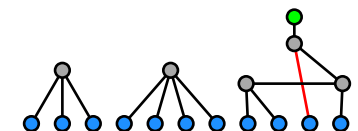
ID: 445 V_1



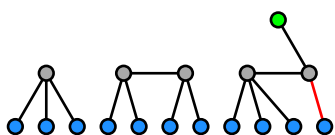
ID: 446 V_1



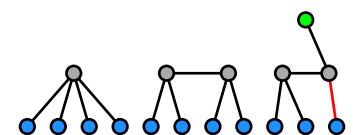
ID: 435 V_1



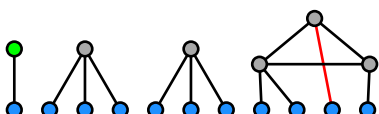
ID: 438 V_1



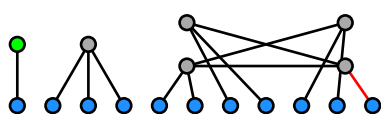
ID: 444 V_1



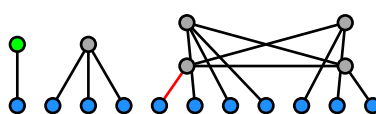
ID: 423 V_1



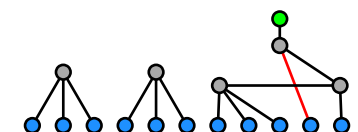
ID: 441 V_1



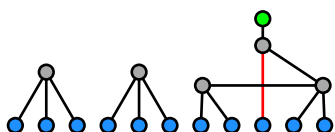
ID: 442 V_1



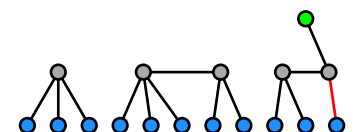
ID: 427 V_1



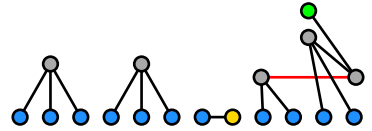
ID: 430 V_1



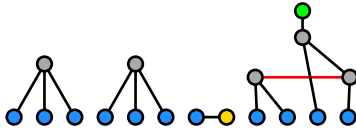
ID: 439 V_1



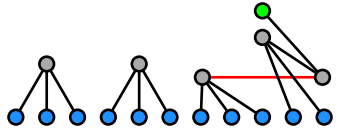
ID: 465 V_1



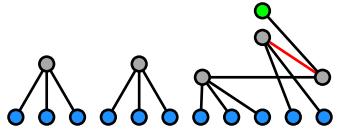
ID: 466 V_1



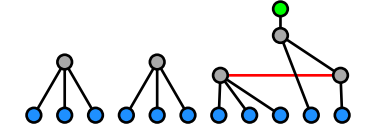
ID: 469 V_1



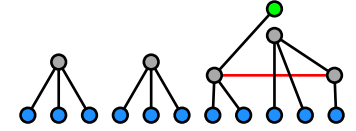
ID: 472 V_1



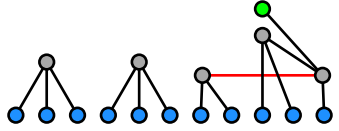
ID: 473 V_1



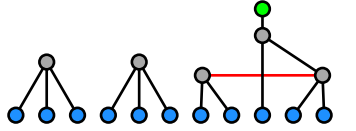
ID: 470 V_1



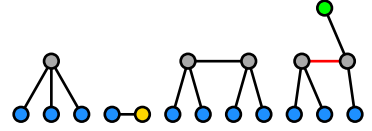
ID: 471 V_1



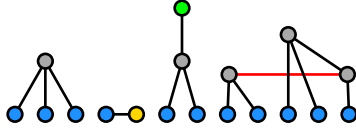
ID: 474 V_1



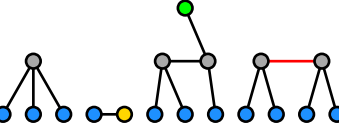
ID: 490 V_1



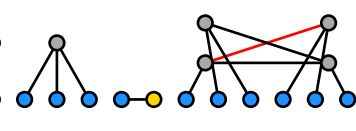
ID: 487 V_1



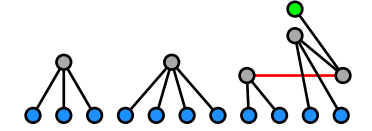
ID: 480 V_1



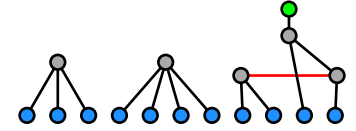
ID: 495 V_1



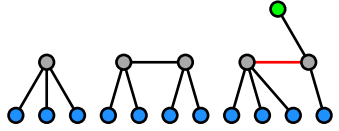
ID: 499 V_1



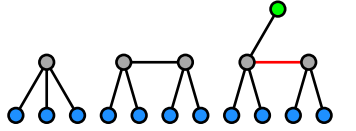
ID: 500 V_1



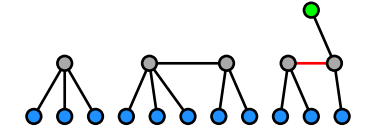
ID: 497 V_1



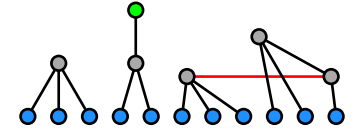
ID: 498 V_1



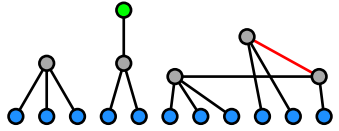
ID: 491 V_1



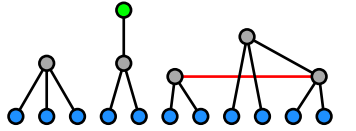
ID: 492 V_1



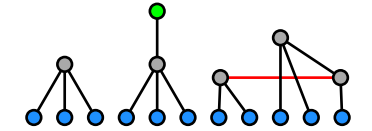
ID: 494 V_1



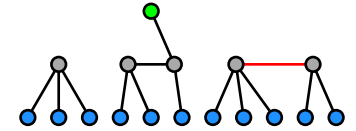
ID: 493 V_1



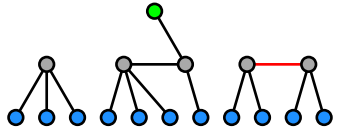
ID: 488 V_1



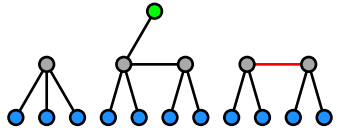
ID: 486 V_1



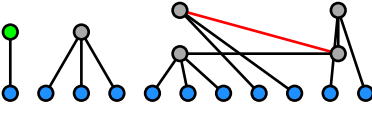
ID: 484 V_1



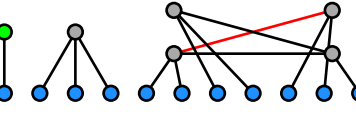
ID: 485 V_1



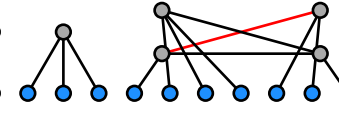
ID: 501 V_1



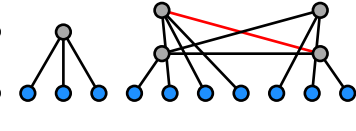
ID: 502 V_1



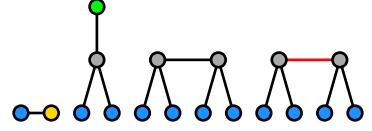
ID: 504 V_1



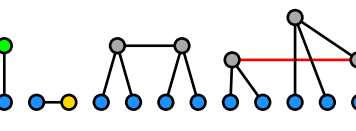
ID: 503 V_1



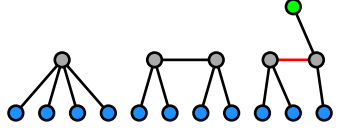
ID: 505 V_1



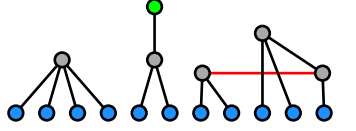
ID: 512 V_1



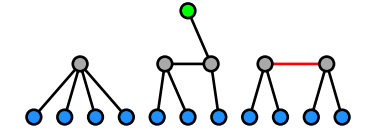
ID: 515 V_1



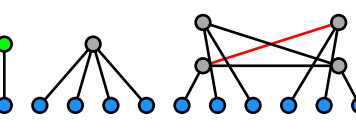
ID: 513 V_1



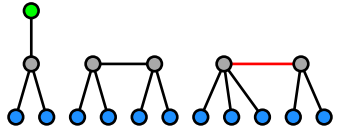
ID: 506 V_1



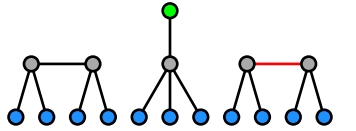
ID: 519 V_1



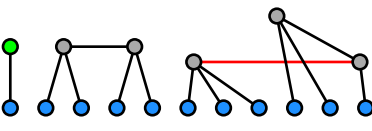
ID: 511 V_1



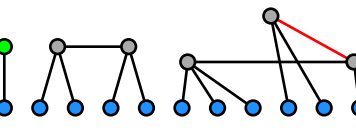
ID: 507 V_1



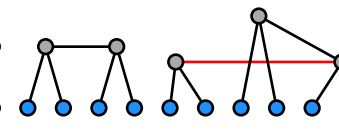
ID: 516 V_1



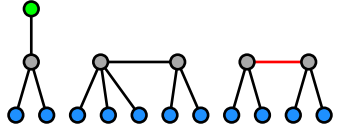
ID: 518 V_1



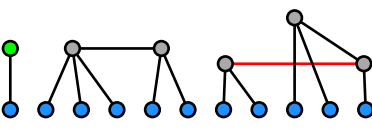
ID: 517 V_1



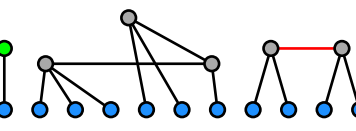
ID: 509 V_1



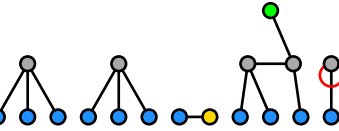
ID: 514 V_1



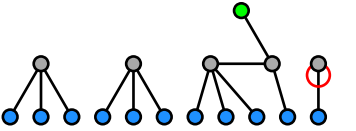
ID: 510 V_1



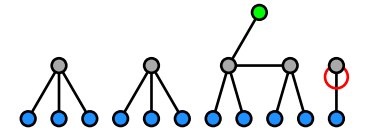
ID: 528 V_1



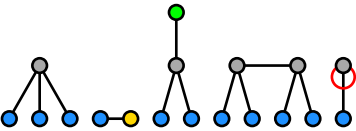
ID: 533 V_1



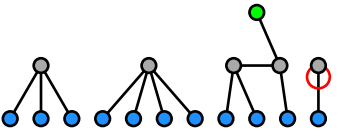
ID: 534 V_1



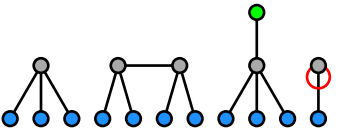
ID: 536 V_1



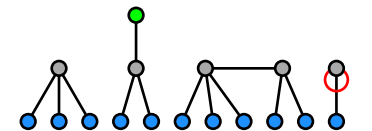
ID: 537 V_1



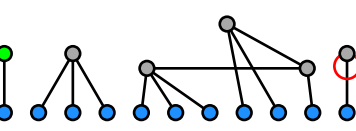
ID: 538 V_1



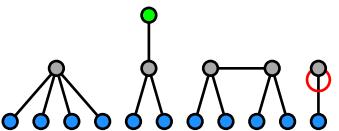
ID: 540 V_1



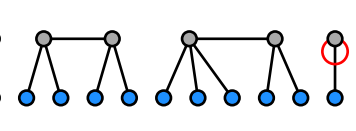
ID: 541 V_1



ID: 542 V_1



ID: 543 V_1

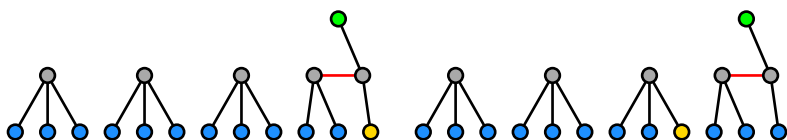


----- B,Birr cases with weight 11 relations

relation groups: 6 -----

ID: 451 V_1

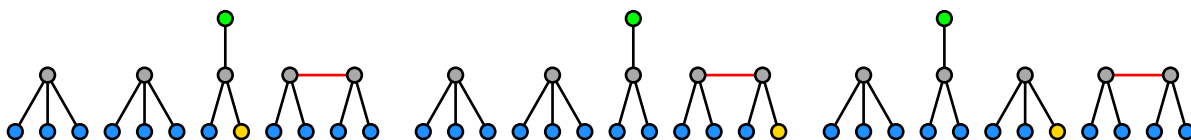
ID: 463 V_1



ID: 461 V_1

ID: 464 V_1

ID: 483 V_1

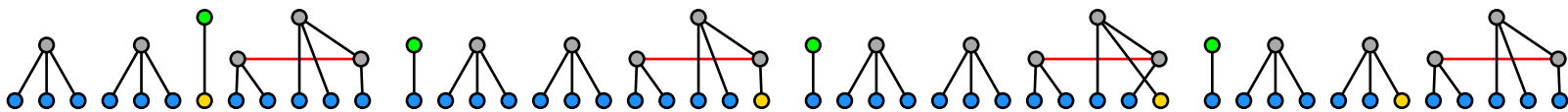


ID: 462 V_1

ID: 467 V_1

ID: 468 V_1

ID: 489 V_1

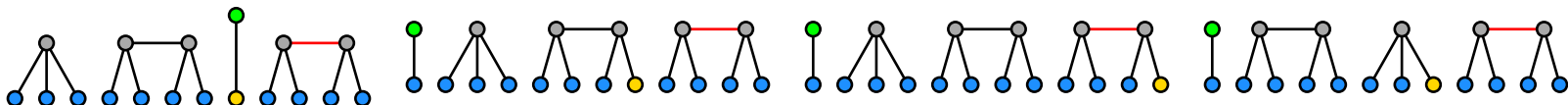


ID: 482 V_1

ID: 481 V_1

ID: 496 V_1

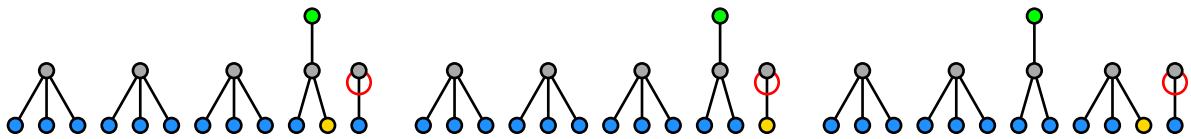
ID: 508 V_1



ID: 523 V_1

ID: 524 V_1

ID: 532 V_1

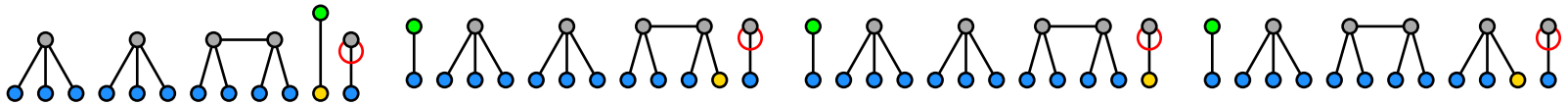


ID: 531 V_1

ID: 529 V_1

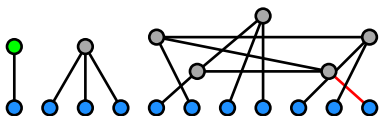
ID: 530 V_1

ID: 539 V_1

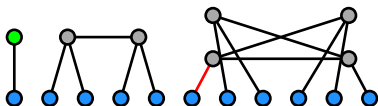


----- edges: 13 graphs: 29 -----
 ----- A2 case with weight 13 relations relation groups: 4 -----

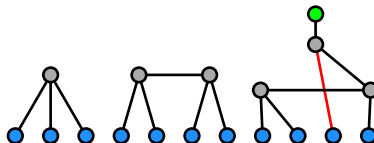
ID: 572 V_1



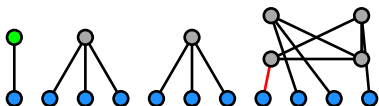
ID: 573 V_1



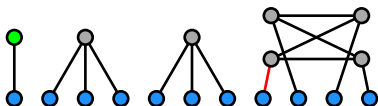
ID: 568 V_1



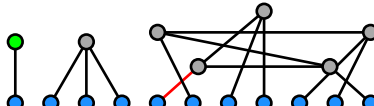
ID: 561 V_1



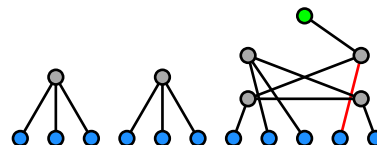
ID: 562 V_1



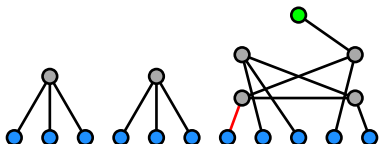
ID: 571 V_1



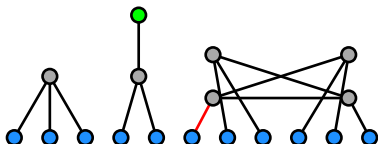
ID: 565 V_1



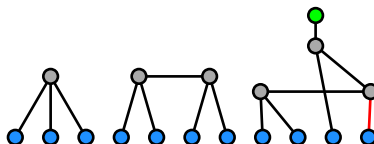
ID: 564 V_1



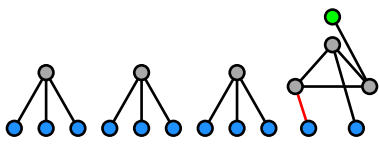
ID: 570 V_1



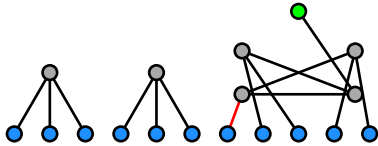
ID: 569 V_1



ID: 554 V_1



ID: 563 V_1



ID: 566 V_1

