

----- g,n: 9,1 graphs: 364 -----
 ----- Euler Characteristic (without resolving relations): $6V_1 - 2V_0 \boxtimes V_1$ -----
 ----- edges: 9 graphs: 10 -----
 ----- A3 case graphs: 10 -----

ID: 129 V_1



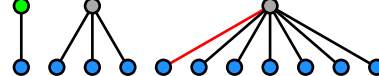
ID: 130 V_1



ID: 131 V_1



ID: 132 V_1



ID: 133 V_1



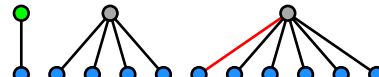
ID: 134 V_1



ID: 135 V_1



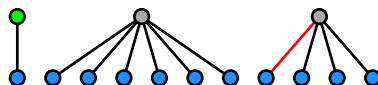
ID: 136 V_1



ID: 137 V_1

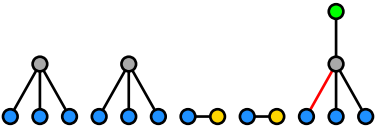


ID: 138 V_1

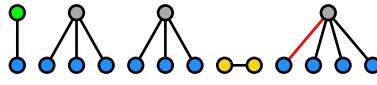


----- edges: 10 graphs: 64 -----
----- A3 case graphs: 45 -----

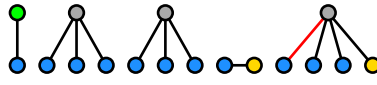
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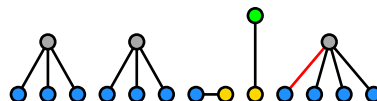
ID: 140 V_1



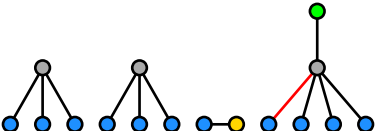
ID: 141 V_1



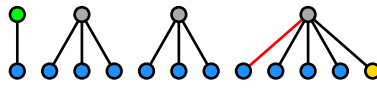
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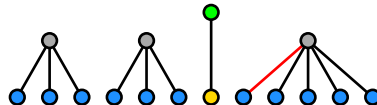
ID: 143 V_1



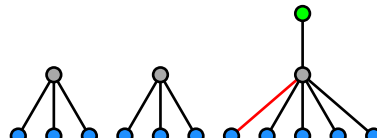
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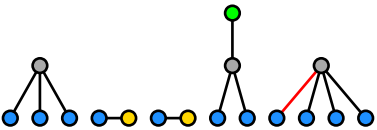
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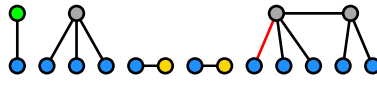
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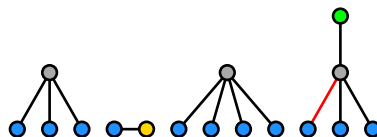
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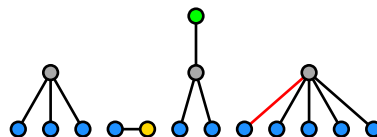
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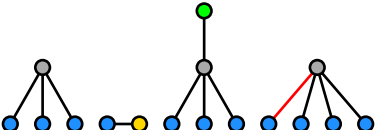
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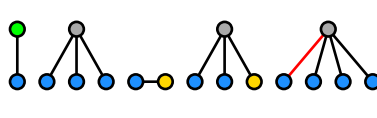
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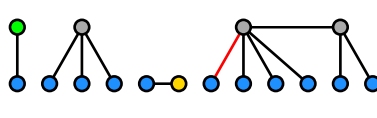
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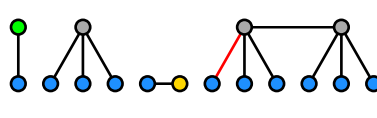
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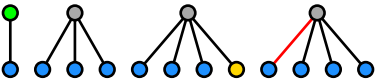
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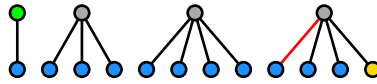
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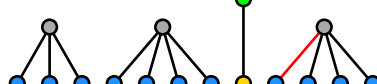
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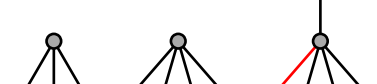
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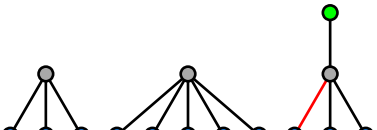
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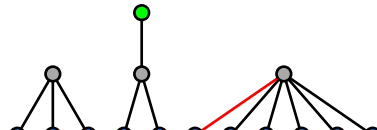
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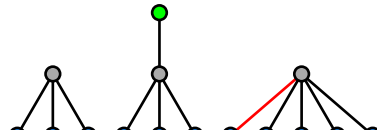
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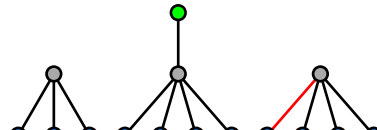
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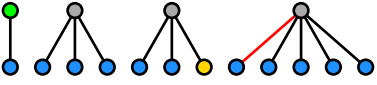
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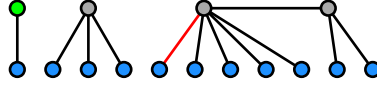
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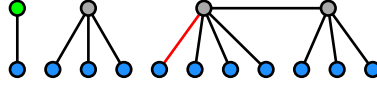
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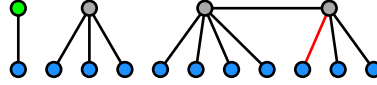
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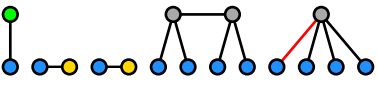
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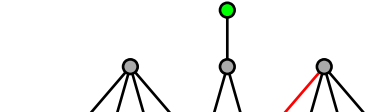
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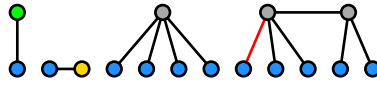
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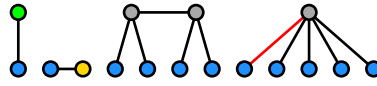
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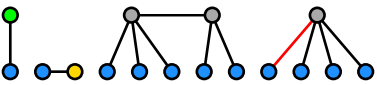
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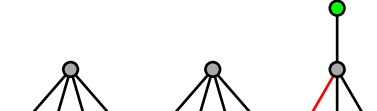
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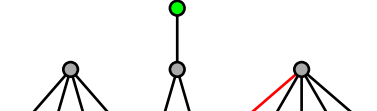
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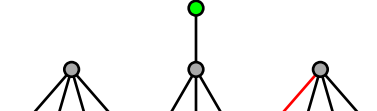
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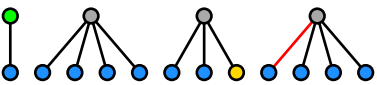
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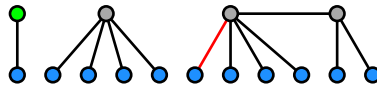
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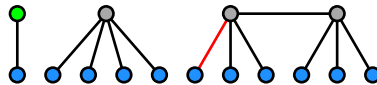
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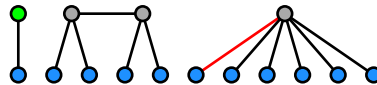
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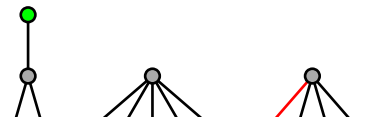
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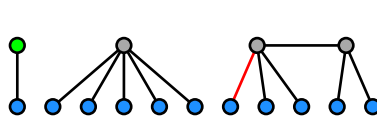
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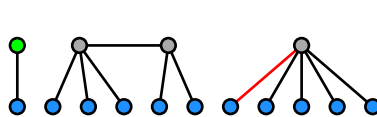
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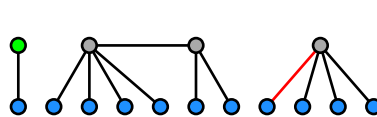
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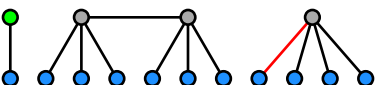
ID: 181 V_1



ID: 182 V_1

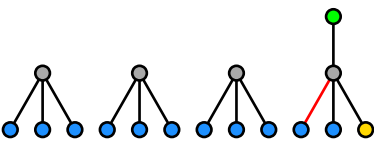


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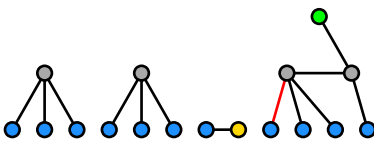


----- edges: 11 graphs: 145 -----
----- A3 case graphs: 50 -----

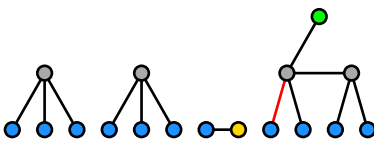
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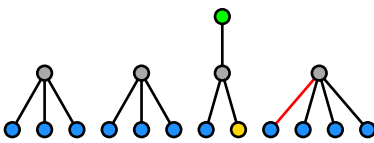
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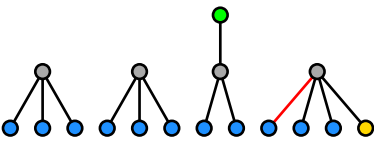
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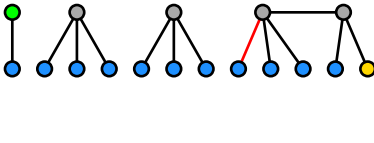
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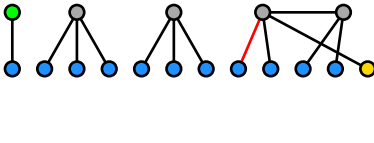
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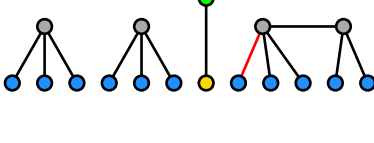
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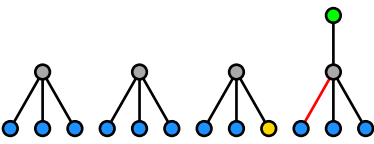
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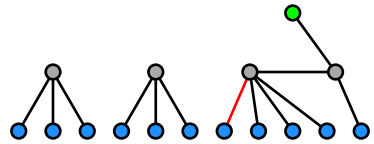
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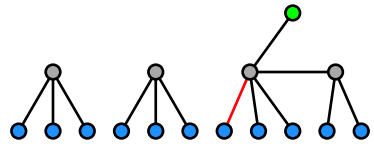
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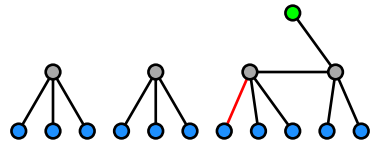
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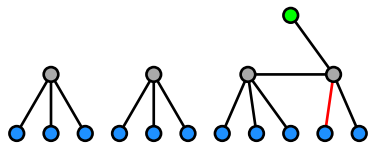
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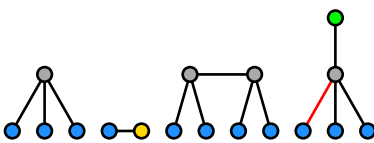
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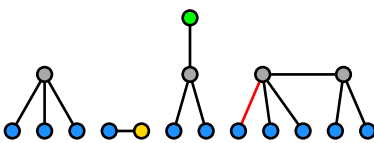
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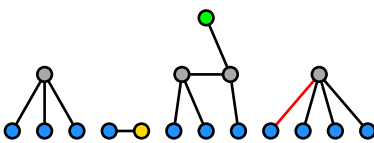
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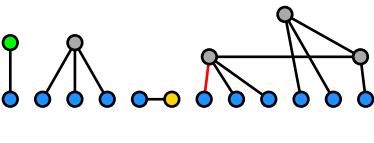
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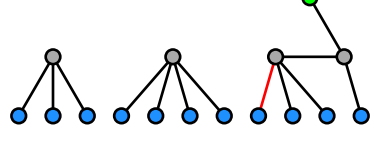
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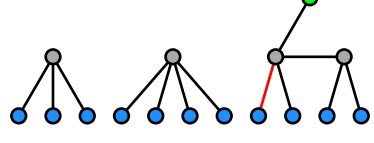
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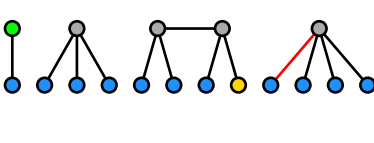
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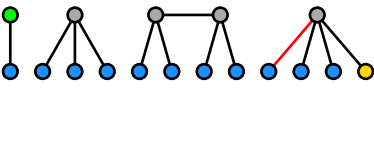
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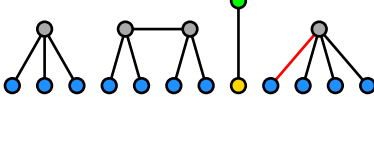
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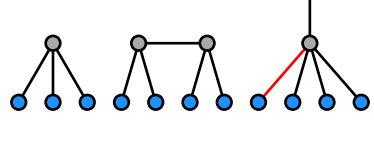
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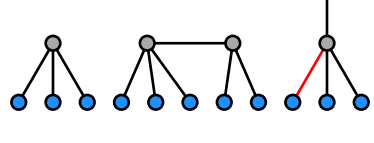
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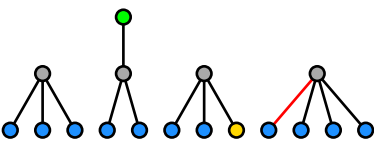
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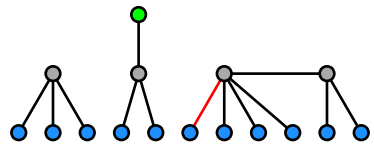
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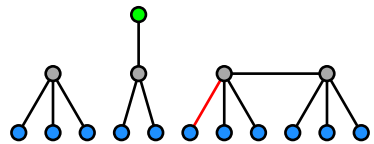
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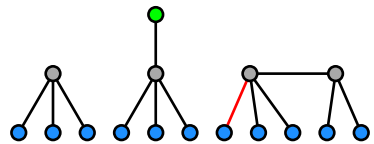
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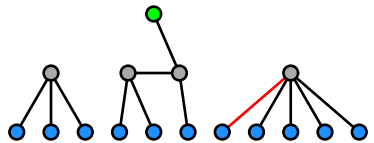
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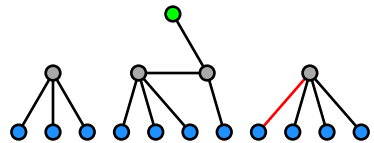
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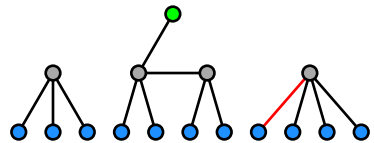
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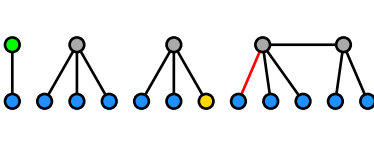
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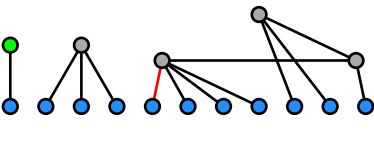
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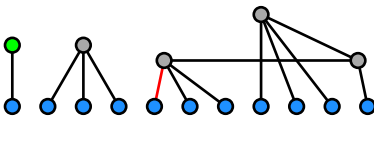
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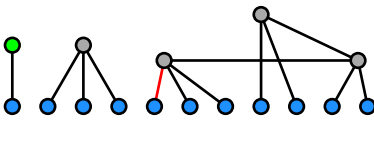
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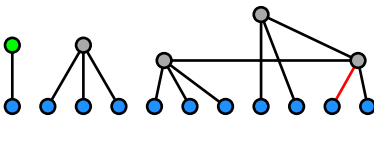
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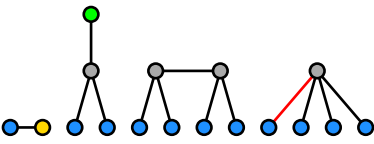
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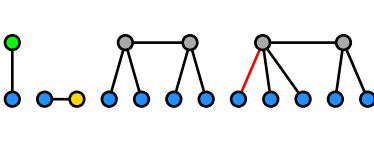
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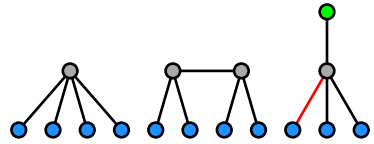
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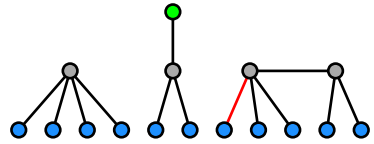
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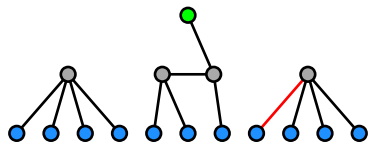
ID: 257 V_1



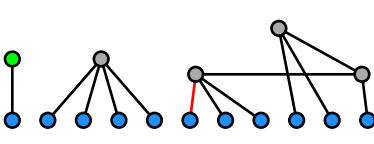
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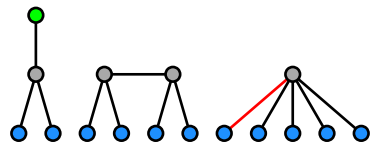
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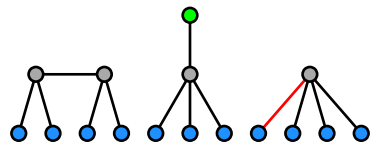
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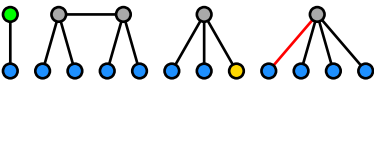
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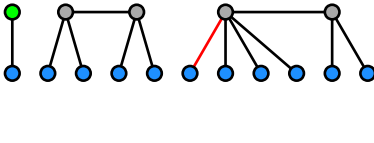
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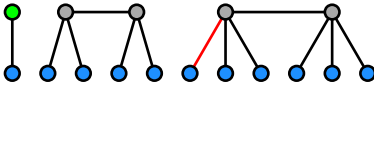
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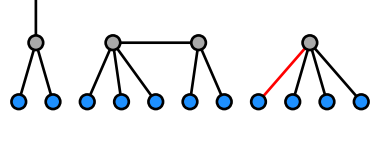
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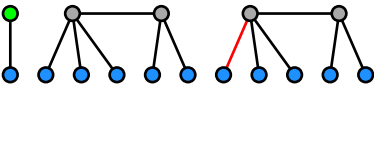
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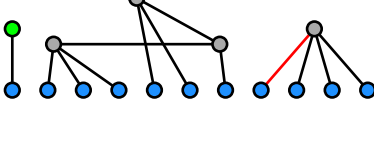
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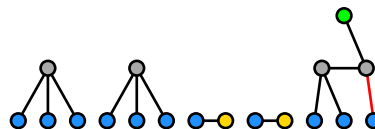
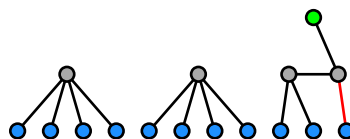
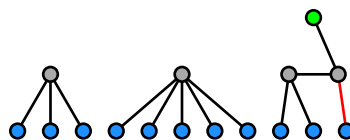
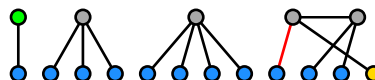
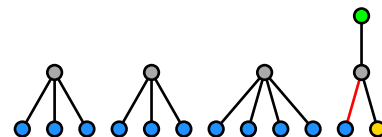
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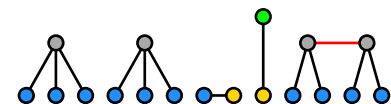
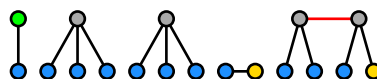
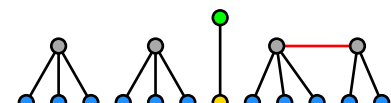
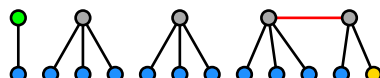
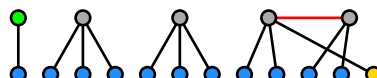
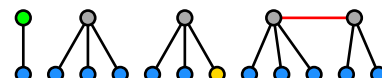
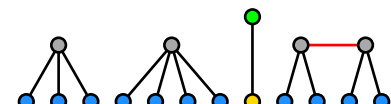
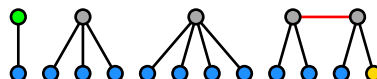
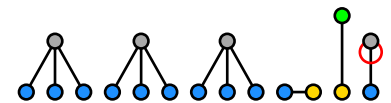
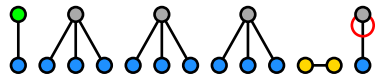
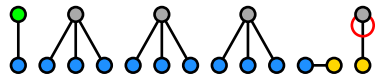
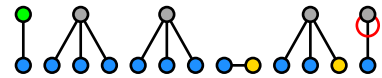
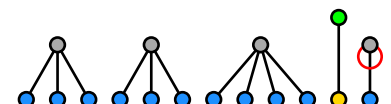
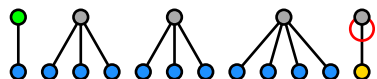
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relation groups: 4 -----

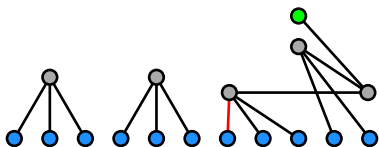
ID: 273 V_1 ID: 286 V_1 ID: 284 V_1 ID: 282 V_1 ID: 280 V_1 

relation groups: 5 -----

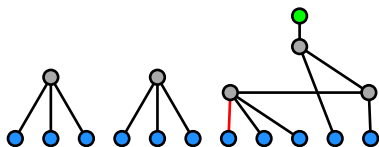
ID: 289 V_1 ID: 288 V_1 ID: 292 V_1 ID: 303 V_1 ID: 290 V_1 ID: 296 V_1 ID: 297 V_1 ID: 309 V_1 ID: 305 V_1 ID: 304 V_1 ID: 318 V_1 ID: 331 V_1 ID: 348 V_1 ID: 346 V_1 ID: 347 V_1 ID: 351 V_1 ID: 354 V_1 ID: 352 V_1 ID: 353 V_1 ID: 360 V_1 

----- edges: 12 graphs: 116 -----
 ----- A3 case graphs: 14 -----

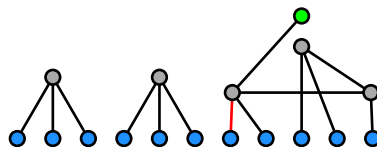
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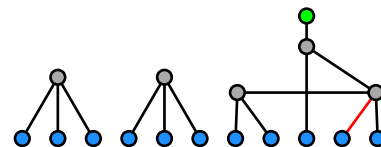
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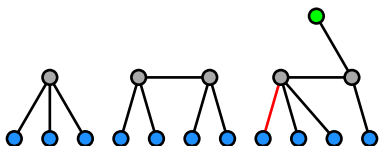
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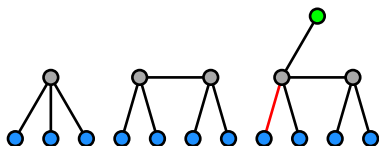
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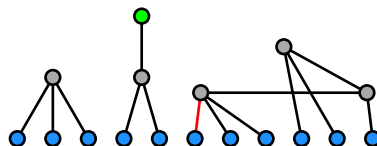
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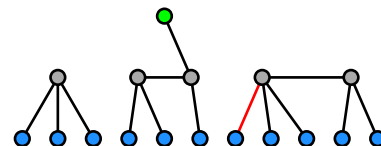
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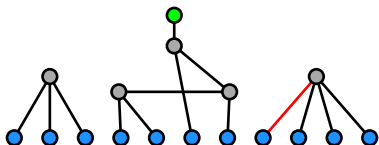
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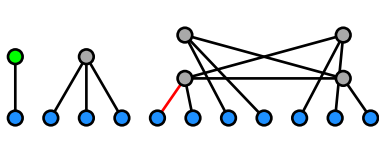
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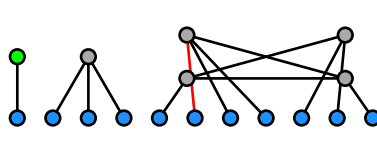
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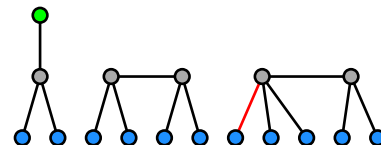
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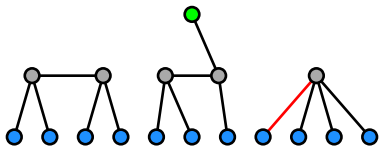
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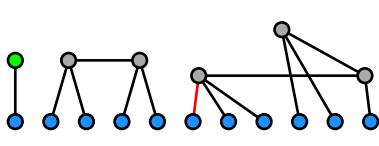
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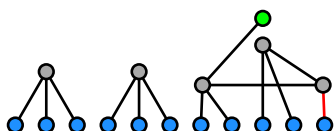
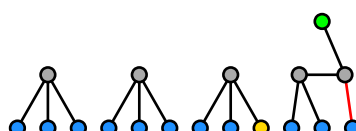
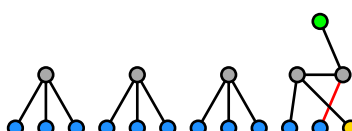
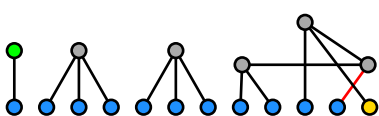
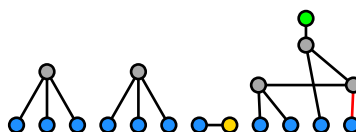
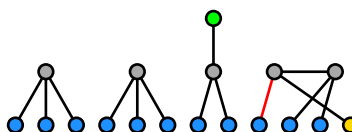
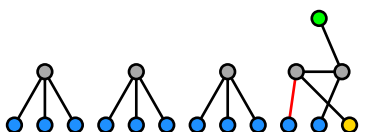
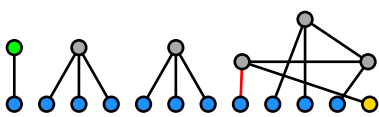
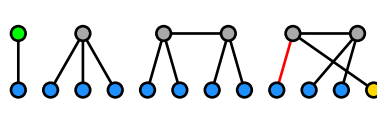
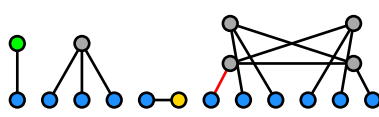
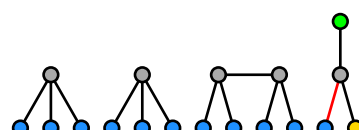
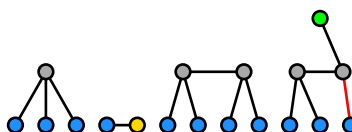
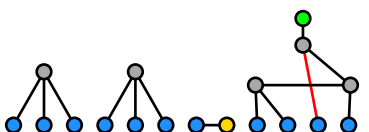
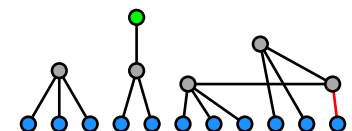
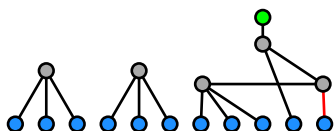
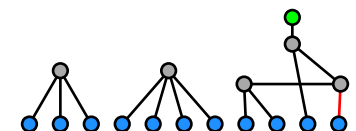
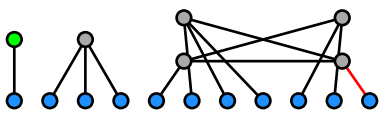
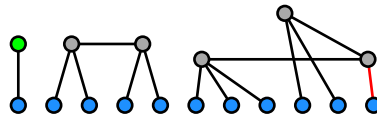
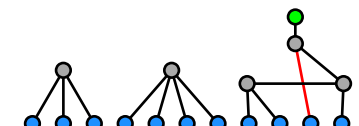
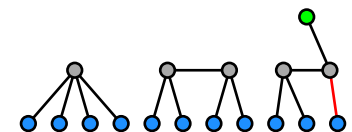
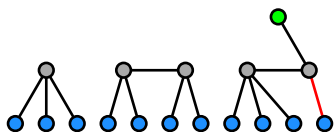
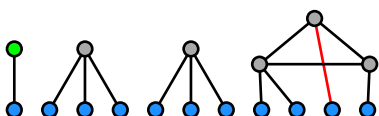
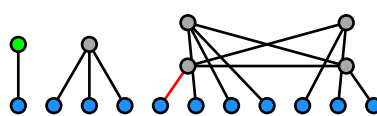
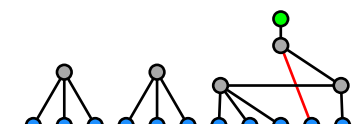
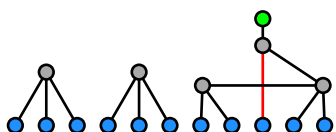
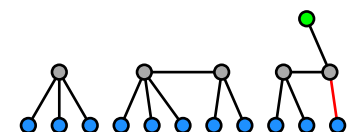
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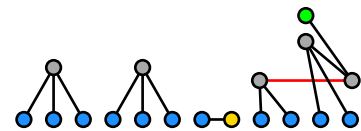
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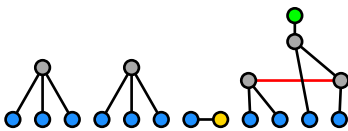
relation groups: 7 -----

ID: 426 V_1 ID: 422 V_1 ID: 434 V_1 ID: 437 V_1 ID: 421 V_1 ID: 433 V_1 ID: 440 V_1 ID: 436 V_1 ID: 445 V_1 ID: 446 V_1 ID: 435 V_1 ID: 444 V_1 ID: 441 V_1 ID: 442 V_1 ID: 427 V_1 ID: 439 V_1 ID: 439 V_1 

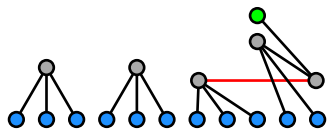
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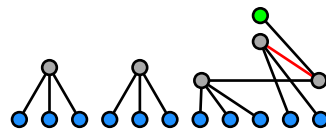
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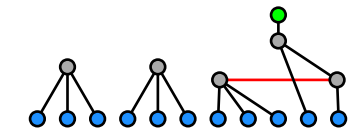
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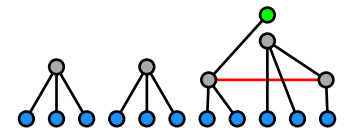
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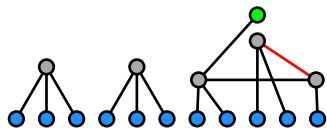
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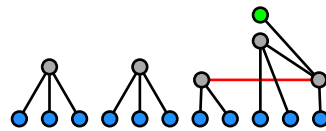
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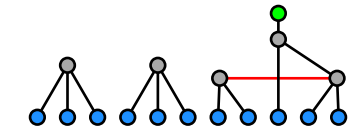
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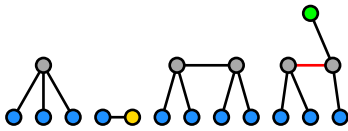
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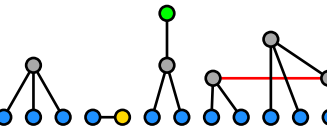
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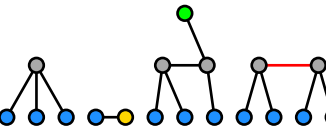
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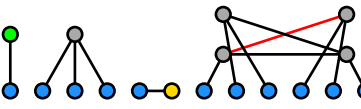
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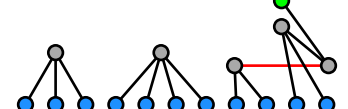
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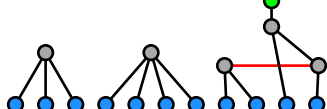
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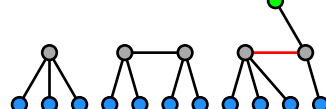
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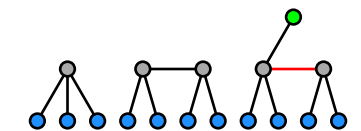
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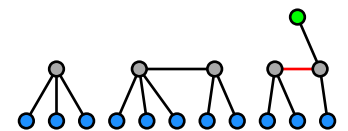
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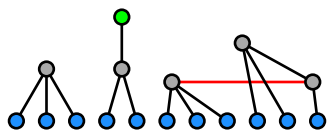
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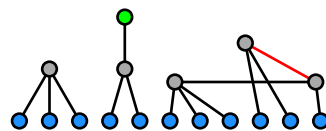
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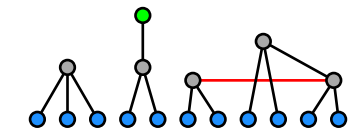
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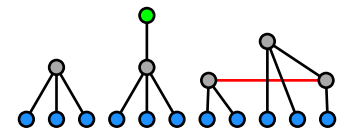
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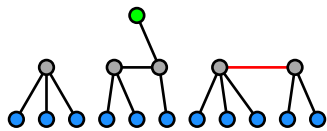
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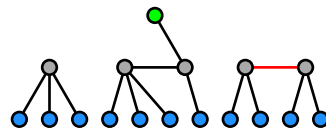
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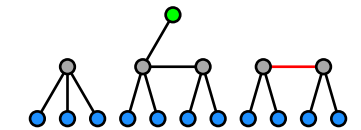
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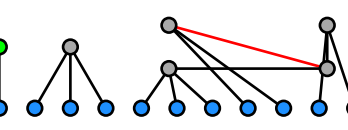
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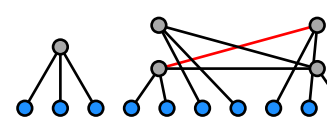
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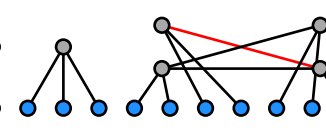
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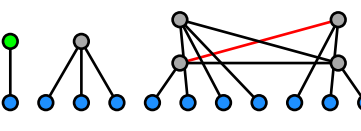
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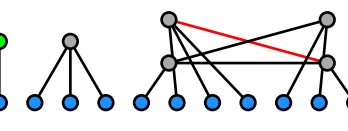
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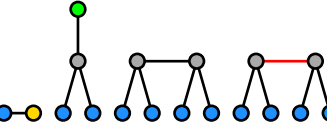
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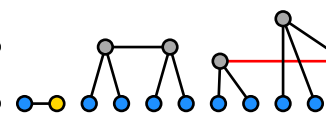
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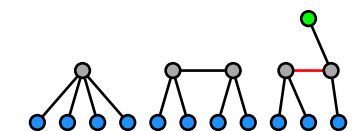
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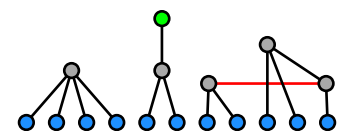
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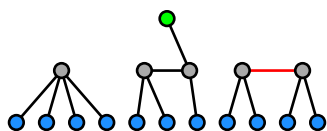
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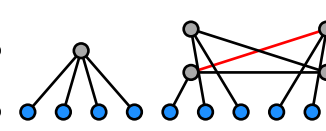
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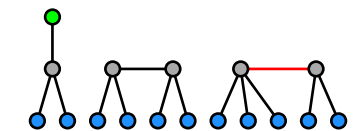
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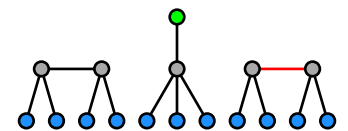
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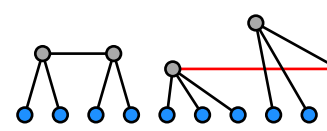
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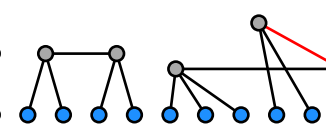
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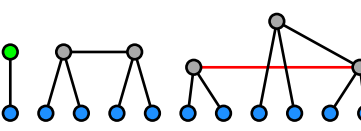
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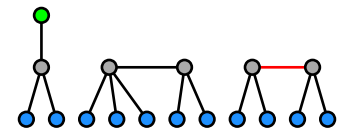
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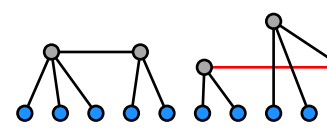
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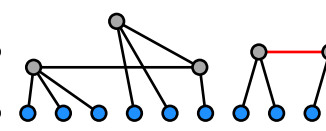
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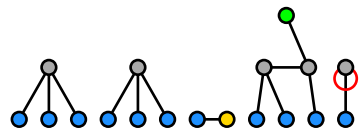
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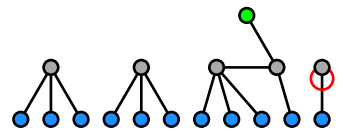
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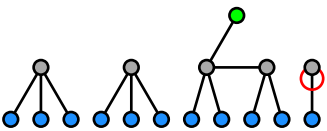
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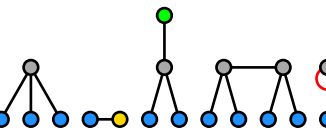
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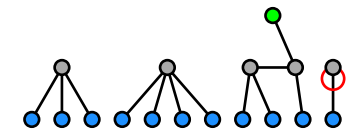
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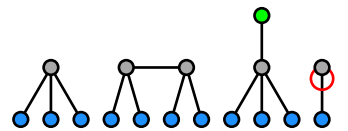
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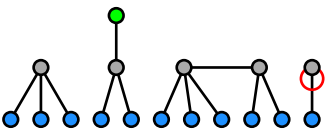
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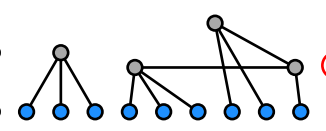
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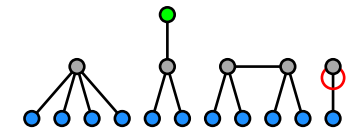
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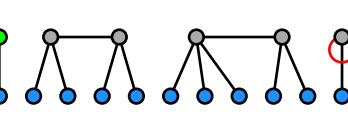
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ID: 544 V_1



ID: 545 V_1

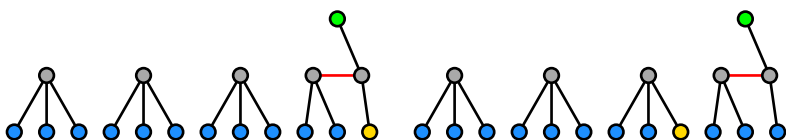


----- B,Birr cases with weight 11 relations

relation groups: 6 -----

ID: 451 V_1

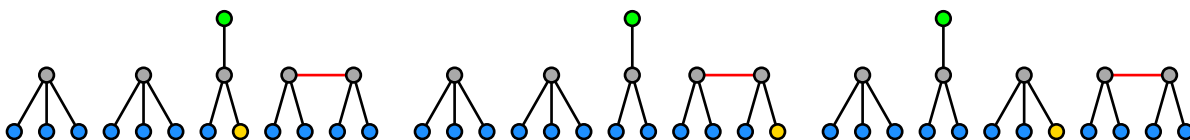
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ID: 461 V_1

ID: 464 V_1

ID: 484 V_1

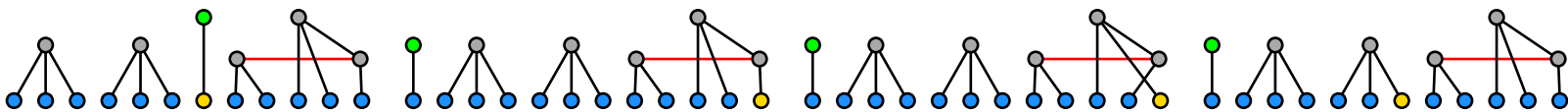


ID: 462 V_1

ID: 467 V_1

ID: 468 V_1

ID: 490 V_1

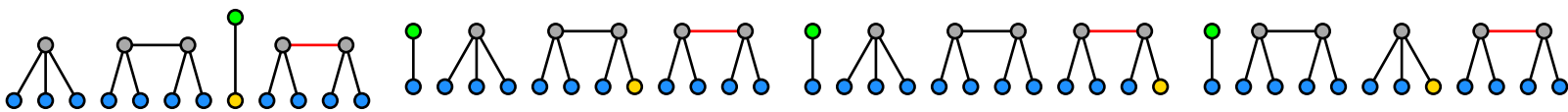


ID: 483 V_1

ID: 482 V_1

ID: 497 V_1

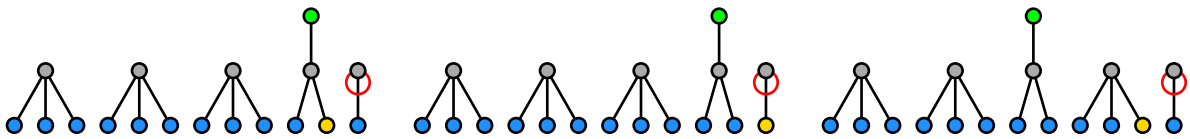
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ID: 525 V_1

ID: 526 V_1

ID: 534 V_1

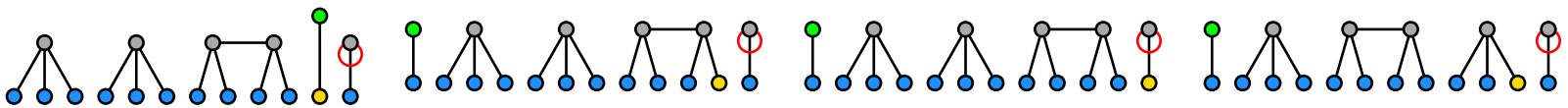


ID: 533 V_1

ID: 531 V_1

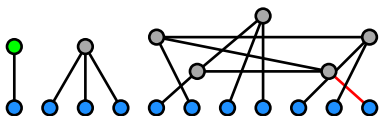
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ID: 541 V_1

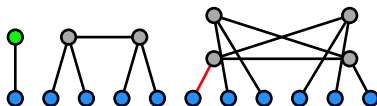


----- edges: 13 graphs: 29 -----
 ----- A2 case with weight 13 relations relation groups: 4 -----

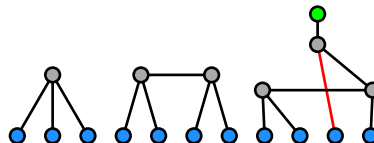
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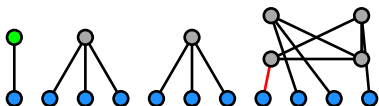
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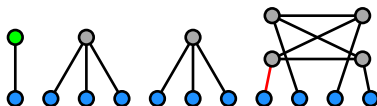
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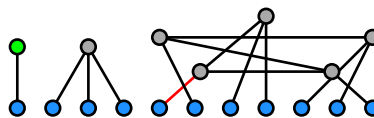
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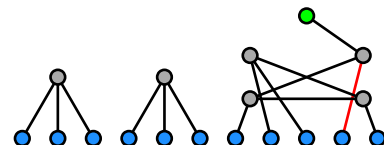
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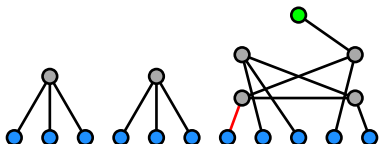
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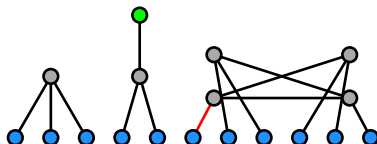
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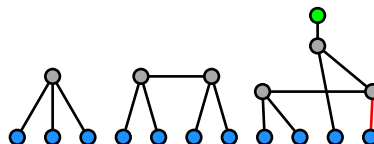
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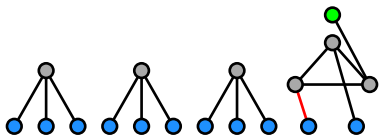
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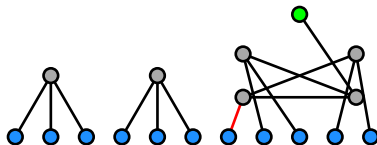
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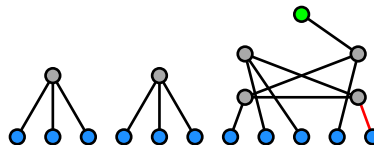
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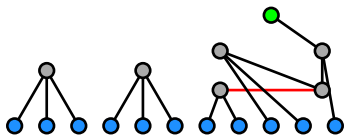
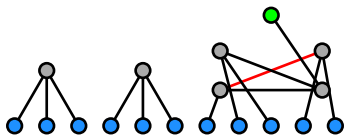
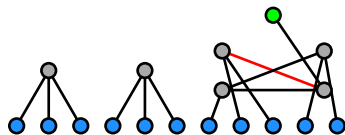
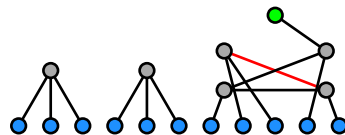
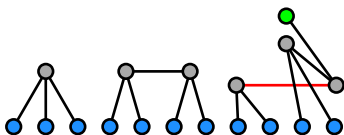
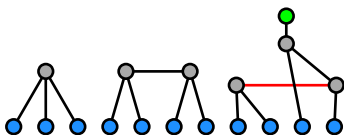
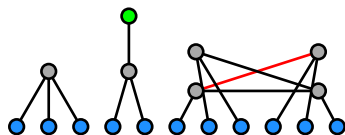
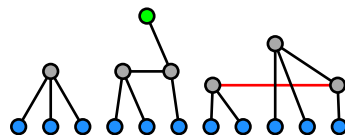
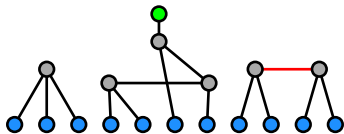
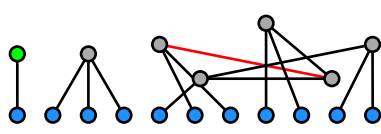
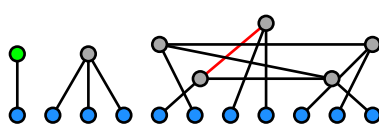
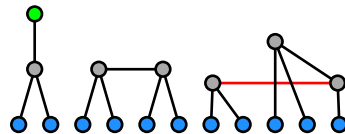
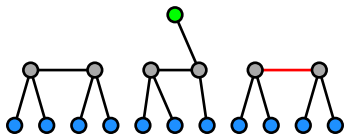
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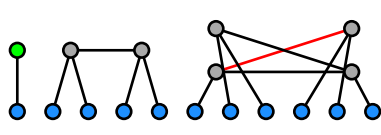
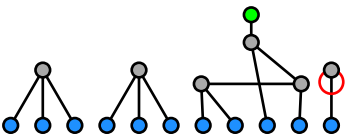
ID: 568 V_1



----- B,Birr cases without weight 11 relations graphs: 16 -----

ID: 591 V_1 ID: 592 V_1 ID: 593 V_1 ID: 594 V_1 ID: 603 V_1 ID: 604 V_1 ID: 602 V_1 ID: 601 V_1 ID: 600 V_1 ID: 605 V₁ID: 606 V₁ID: 608 V_1 ID: 607 V_1 

ID: 609 V

ID: 616 V_1 ID: 618 V_1 