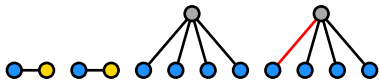


---- excess: 4 (g,n): (1, 13), (3, 10), (5, 7), (7, 4), (9, 1) graphs: 490 ----
 ----- edges: 10-n graphs: 10 -----
 --- A3 case graphs: 10 ---

ID: 133 V_1^n
n: 1



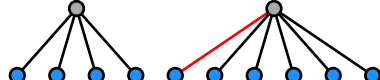
ID: 134 V_1^n
n: 1



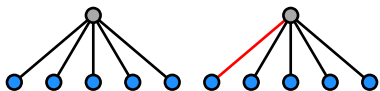
ID: 135 V_1^n
n: 1



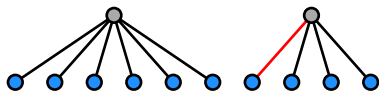
ID: 136 V_1^n
n: 1



ID: 137 V_1^n
n: 1



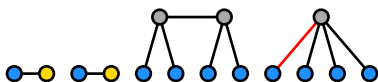
ID: 138 V_1^n
n: 1



----- edges: 11-n graphs: 64
 --- A3 case graphs: 45 ---

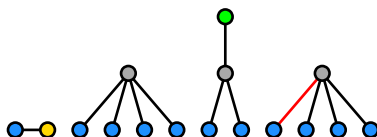
ID: 167 V_1^n

n: 1



ID: 168 $V_1^{n-1} \boxtimes V_1$

n: 1



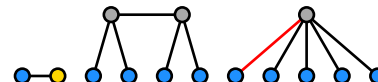
ID: 169 V_1^n

n: 1



ID: 170 V_1^n

n: 1



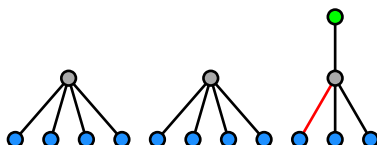
ID: 171 V_1^n

n: 1



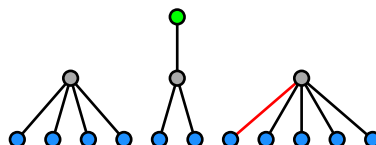
ID: 172 $V_1^{n-1} \boxtimes V_1$

n: 1



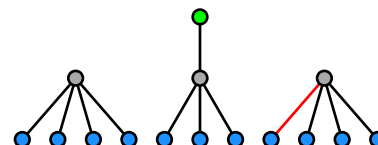
ID: 173 $V_1^{n-1} \boxtimes V_1$

n: 1



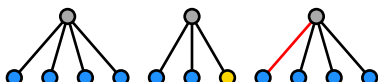
ID: 174 $V_1^{n-1} \boxtimes V_1$

n: 1



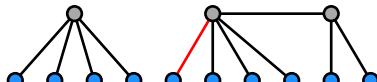
ID: 175 V_1^n

n: 1



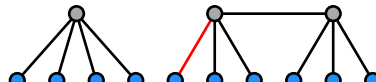
ID: 176 V_1^n

n: 1



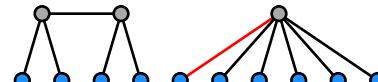
ID: 177 V_1^n

n: 1



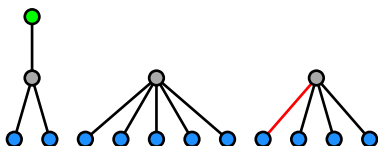
ID: 178 V_1^n

n: 1



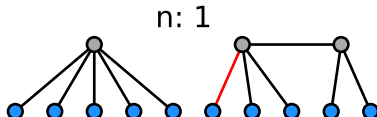
ID: 179 $V_1^{n-1} \boxtimes V_1$

n: 1



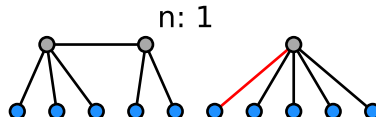
ID: 180 V_1^n

n: 1



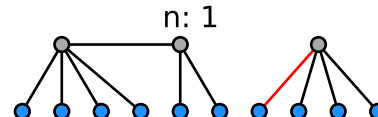
ID: 181 V_1^n

n: 1



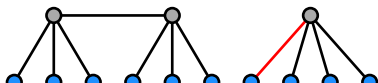
ID: 182 V_1^n

n: 1



ID: 183 V_1^n

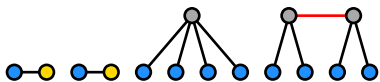
n: 1



--- B,Birr cases without weight 11 relations graphs: 19 ---

ID: 190 V_1^n

n: 1



ID: 193 V_1^n

n: 1



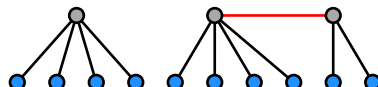
ID: 191 V_1^n

n: 1



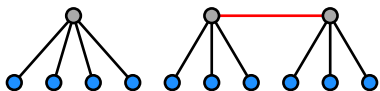
ID: 195 V_1^n

n: 1



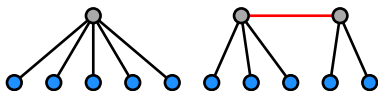
ID: 196 V_1^n

n: 1



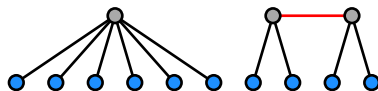
ID: 194 V_1^n

n: 1



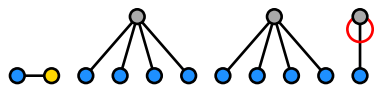
ID: 192 V_1^n

n: 1



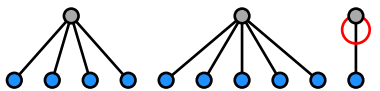
ID: 201 V_1^n

n: 1



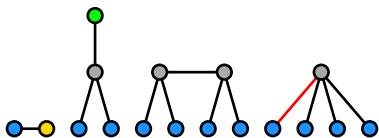
ID: 202 V_1^n

n: 1

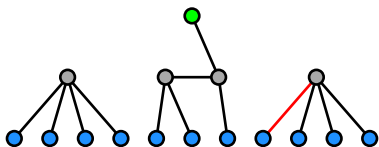


```
----- edges: 12-n    graphs: 165  -----
--- A3 case  graphs: 66  ---
```

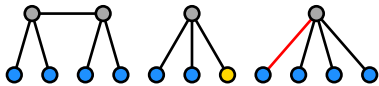
ID: 255 $V_1^{n-1} \boxtimes V_1$
n: 1



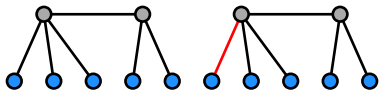
ID: 259 $V_{1^{n-1}} \boxtimes V_1$
n: 1



ID: 263 V_1^n
n: 1



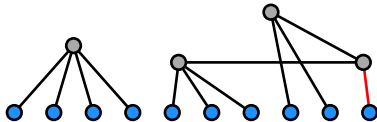
ID: 267 V_1^n
n: 1



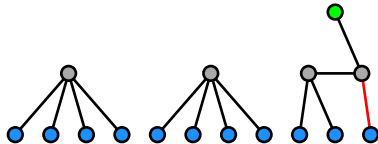
--- A2 case with weight 13 relations

relation groups: 4 ---

ID: 287 V_1^n
n: 1

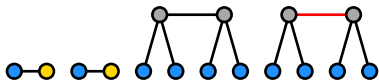


ID: 286 $V_1^{n-1} \boxtimes V_1$
n: 1



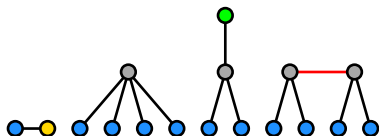
ID: 327 V_1^n

n: 1



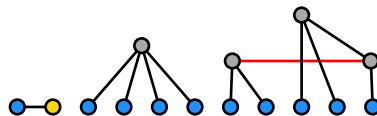
ID: 328 $V_1^{n-1} \boxtimes V_1$

n: 1



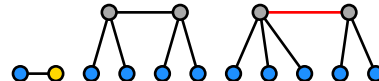
ID: 338 V_1^n

n: 1



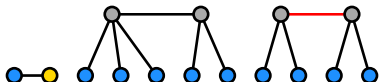
ID: 335 V_1^n

n: 1



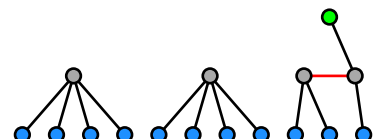
ID: 329 V_1^n

n: 1



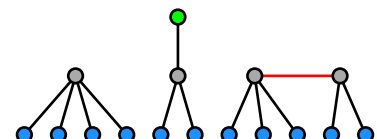
ID: 340 $V_1^{n-1} \boxtimes V_1$

n: 1



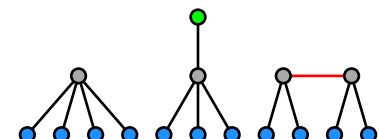
ID: 336 $V_1^{n-1} \boxtimes V_1$

n: 1



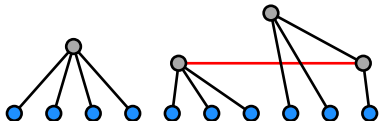
ID: 330 $V_1^{n-1} \boxtimes V_1$

n: 1



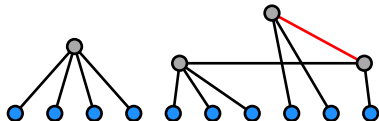
ID: 343 V_1^n

n: 1



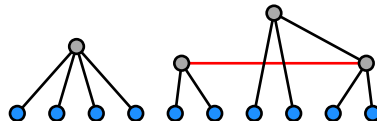
ID: 345 V_1^n

n: 1



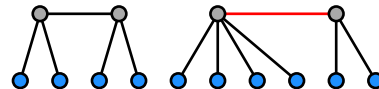
ID: 344 V_1^n

n: 1



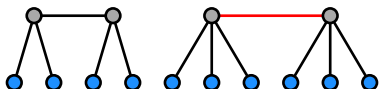
ID: 341 V_1^n

n: 1



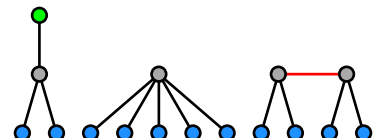
ID: 342 V_1^n

n: 1



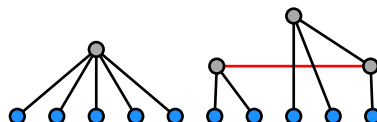
ID: 332 $V_1^{n-1} \boxtimes V_1$

n: 1



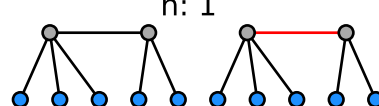
ID: 339 V_1^n

n: 1



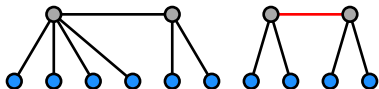
ID: 337 V_1^n

n: 1



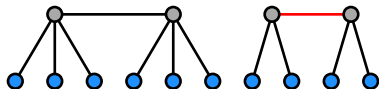
ID: 333 V_1^n

n: 1



ID: 334 V_1^n

n: 1



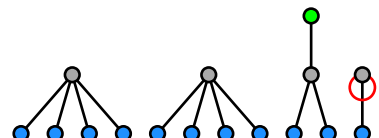
ID: 364 V_1^n

n: 1



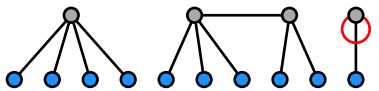
ID: 365 $V_1^{n-1} \boxtimes V_1$

n: 1



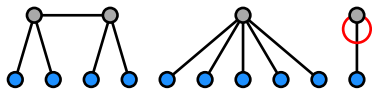
ID: 366 V_1^n

n: 1



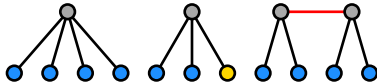
ID: 367 V_1^n

n: 1



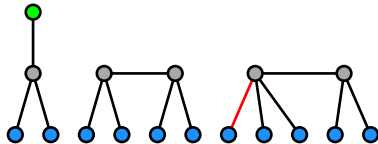
--- B,Birr cases with weight 11 relations relation groups: 5 ---

ID: 331 V_1^n
n: 1

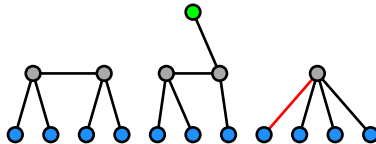


----- edges: 13-n graphs: 178
 --- A3 case graphs: 34 ---

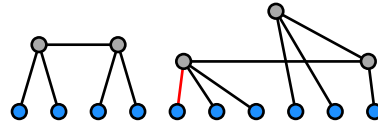
ID: 399 $V_1^{n-1} \boxtimes V_1$
 n: 1



ID: 400 $V_1^{n-1} \boxtimes V_1$
 n: 1

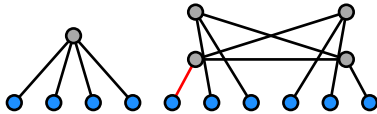


ID: 401 V_1^n
 n: 1

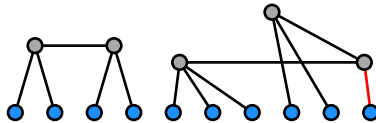


--- A2 case with weight 13 relations relation groups: 8 ---

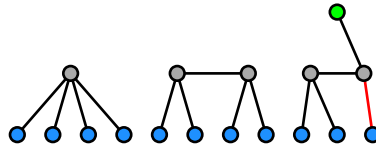
ID: 445 V_1^n
n: 1



ID: 446 V_1^n
n: 1



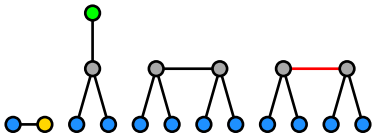
ID: 444 $V_1^{n-1} \boxtimes V_1$
n: 1



--- B,Birr cases without weight 11 relations graphs: 76 ---

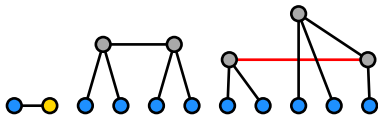
ID: 507 $V_{1^{n-1}} \boxtimes V_1$

n: 1



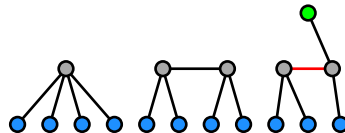
ID: 514 V_{1^n}

n: 1



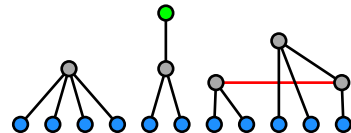
ID: 517 $V_{1^{n-1}} \boxtimes V_1$

n: 1



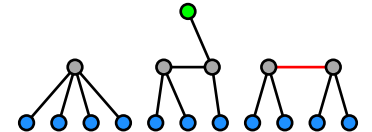
ID: 515 $V_{1^{n-1}} \boxtimes V_1$

n: 1



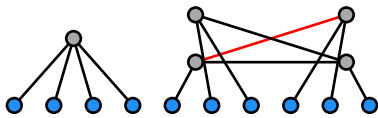
ID: 508 $V_{1^{n-1}} \boxtimes V_1$

n: 1



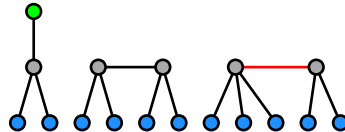
ID: 521 V_{1^n}

n: 1



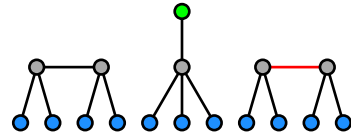
ID: 513 $V_{1^{n-1}} \boxtimes V_1$

n: 1



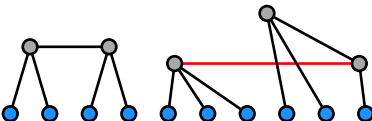
ID: 509 $V_{1^{n-1}} \boxtimes V_1$

n: 1



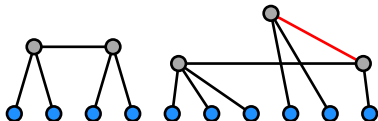
ID: 518 V_{1^n}

n: 1



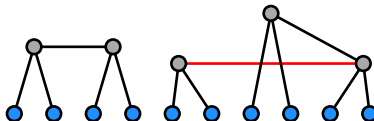
ID: 520 V_{1^n}

n: 1



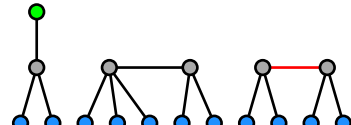
ID: 519 V_{1^n}

n: 1



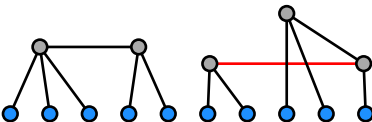
ID: 511 $V_{1^{n-1}} \boxtimes V_1$

n: 1



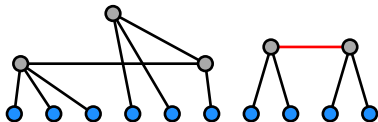
ID: 516 V_{1^n}

n: 1



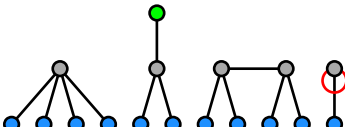
ID: 512 V_{1^n}

n: 1



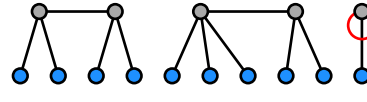
ID: 544 $V_{1^{n-1}} \boxtimes V_1$

n: 1



ID: 545 V_{1^n}

n: 1



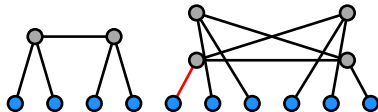
--- B,Birr cases with weight 11 relations relation groups: 6 ---

ID: 510 V_1^n
n: 1



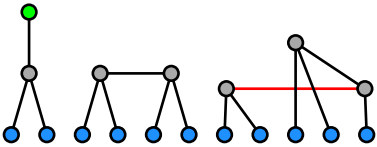
----- edges: 14-n graphs: 73 -----
 --- A2 case with weight 13 relations relation groups: 6 ---

ID: 575 V_1^n
 n: 1

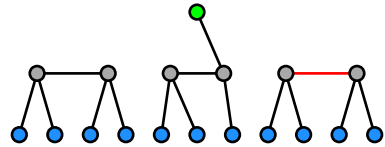


--- B,Birr cases without weight 11 relations graphs: 43 ---

ID: 608 $V_1^{n-1} \boxtimes V_1$
n: 1



ID: 607 $V_1^{n-1} \boxtimes V_1$
n: 1



ID: 609 V_1^n
n: 1

