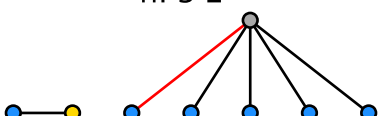
---------- excess: 3 (g,n): (2, 11), (4, 8), (6, 5), (8, 2) graphs: 106 ----------

--------- edges: 10-n graphs: 6 ---------

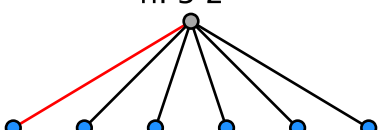
--- A3 case graphs: 6 ---

ID: 23 V_{1^n}
n: 5 2

ID: 24 V_{1^n}
n: 5 2

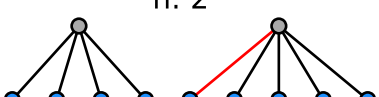


ID: 25 V_{1^n}
n: 5 2

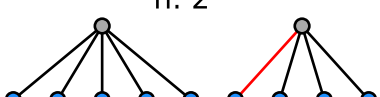


ID: 26 V_{1^n}
n: 2

ID: 27 V_{1^n}
n: 2

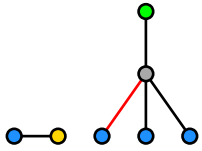


ID: 28 V_{1^n}
n: 2

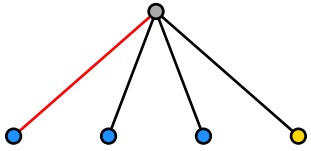


--------- edges: 11-n graphs: 28 ---------
--- A3 case graphs: 17 ---

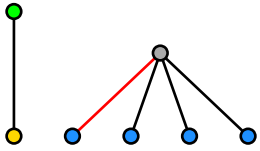
ID: 29 $V_1{}^{n-1} \boxtimes V_1$
n: 8 5 2



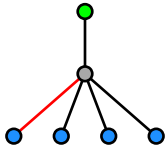
ID: 30 $V_1{}^{n}$
n: 8 5 2



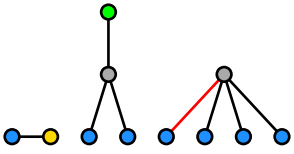
ID: 31 $V_1{}^{n-1} \boxtimes V_1$
n: 8 5 2



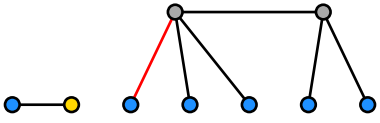
ID: 32 $V_1{}^{n-1} \boxtimes V_1$
n: 8 5 2



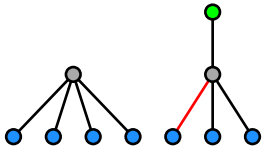
ID: 33 $V_1{}^{n-1} \boxtimes V_1$
n: 5 2



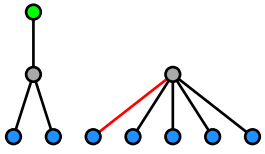
ID: 34 $V_1{}^{n}$
n: 5 2



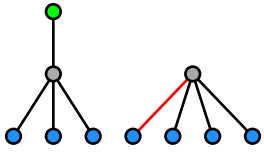
ID: 35 $V_1{}^{n-1} \boxtimes V_1$
n: 5 2



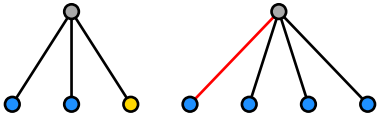
ID: 36 $V_1{}^{n-1} \boxtimes V_1$
n: 5 2



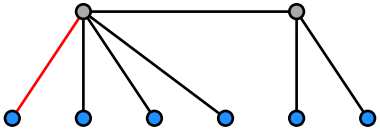
ID: 37 $V_1{}^{n-1} \boxtimes V_1$
n: 5 2



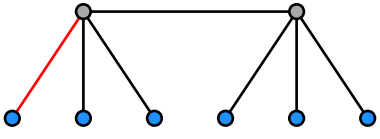
ID: 38 $V_1{}^{n}$
n: 5 2



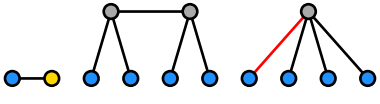
ID: 39 $V_1{}^{n}$
n: 5 2



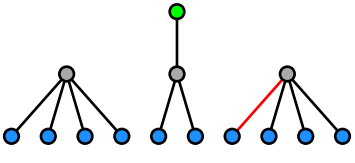
ID: 40 $V_1{}^{n}$
n: 5 2



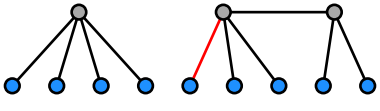
ID: 41 $V_1{}^{n}$
n: 2



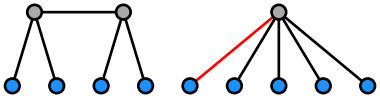
ID: 42 $V_1{}^{n-1} \boxtimes V_1$
n: 2



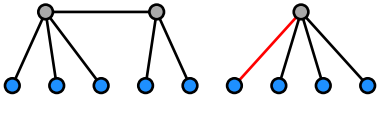
ID: 43 $V_1{}^{n}$
n: 2



ID: 44 $V_1{}^{n}$
n: 2

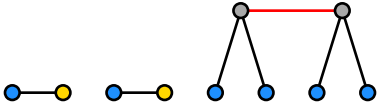


ID: 45 $V_1{}^{n}$
n: 2

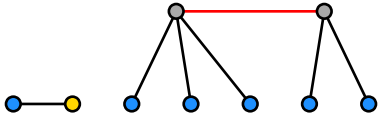


--- B,Birr cases without weight 11 relations graphs: 11 ---

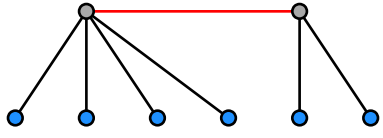
ID: 46 V_{1^n}
n: 5 2



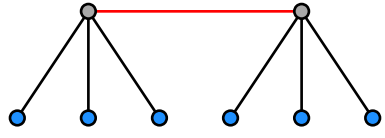
ID: 47 V_{1^n}
n: 5 2



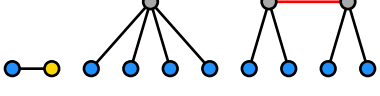
ID: 48 V_{1^n}
n: 5 2



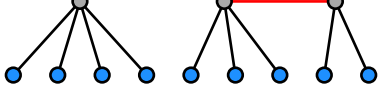
ID: 49 V_{1^n}
n: 5 2



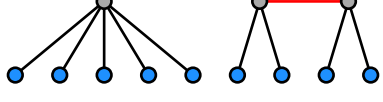
ID: 50 V_{1^n}
n: 2



ID: 52 V_{1^n}
n: 2

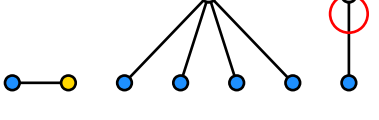


ID: 51 V_{1^n}
n: 2

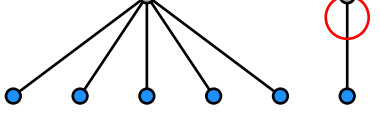


ID: 53 V_{1^n}
n: 8 5 2

ID: 54 V_{1^n}
n: 5 2



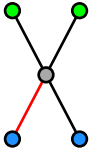
ID: 55 V_{1^n}
n: 5 2



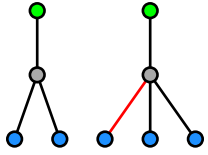
ID: 56 V_{1^n}
n: 2

--------- edges: 12-n graphs: 48 ---------
--- A3 case graphs: 12 ---

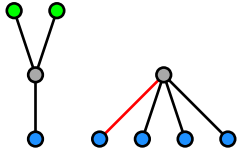
ID: 57 $V_1{}^{n-2} \boxtimes V_2$
n: 11 8 5 2



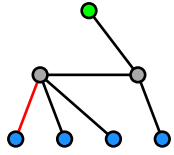
ID: 58 $V_1{}^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 8 5 2



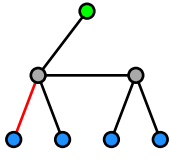
ID: 59 $V_1{}^{n-2} \boxtimes V_2$
n: 8 5 2



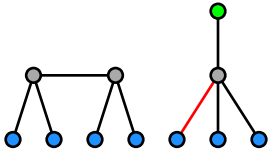
ID: 60 $V_1{}^{n-1} \boxtimes V_1$
n: 8 5 2



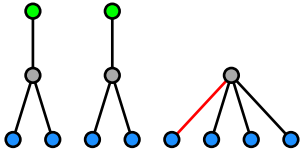
ID: 61 $V_1{}^{n-1} \boxtimes V_1$
n: 8 5 2



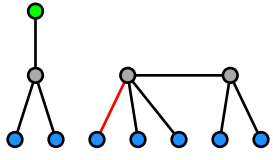
ID: 62 $V_1{}^{n-1} \boxtimes V_1$
n: 5 2



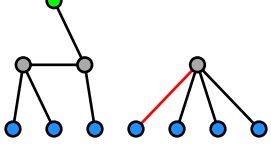
ID: 63 $V_1{}^{n-2} \boxtimes V_2$
n: 5 2



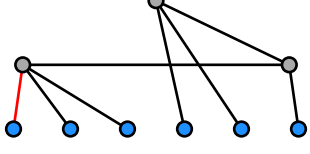
ID: 64 $V_1{}^{n-1} \boxtimes V_1$
n: 5 2



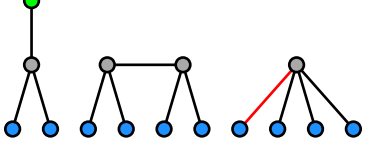
ID: 65 $V_1{}^{n-1} \boxtimes V_1$
n: 5 2



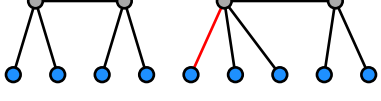
ID: 66 $V_1{}^{n}$
n: 5 2



ID: 67 $V_1{}^{n-1} \boxtimes V_1$
n: 2

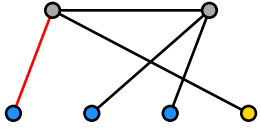


ID: 68 $V_1{}^{n}$
n: 2

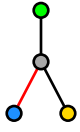


--- A2 case with weight 13 relations relation groups: 2 ---

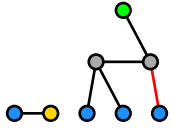
ID: 73 V_{1^n}
n: 8 5 2



ID: 70 $V_{1^{n-1}} \boxtimes V_1$
n: 11 8 5 2

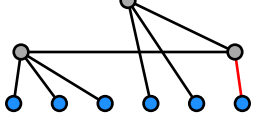


ID: 71 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2 redundant

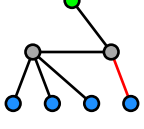


ID: 69 $V_{1^{n-2}} \boxtimes V_2$
n: 11 8 5 2 redundant

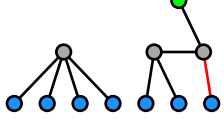
ID: 76 V_{1^n}
n: 5 2



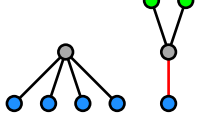
ID: 74 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



ID: 75 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2 redundant

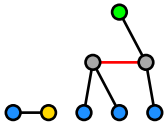


ID: 72 $V_{1^{n-2}} \boxtimes V_2$
n: 8 5 2 redundant

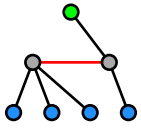


--- B,Birr cases without weight 11 relations graphs: 22 ---

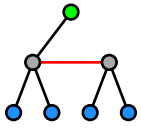
ID: 78 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



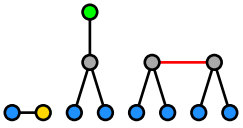
ID: 80 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



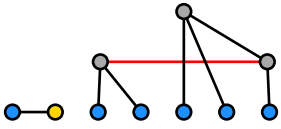
ID: 81 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



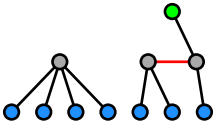
ID: 82 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2



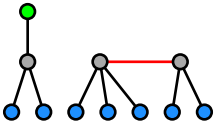
ID: 86 V_{1^n}
n: 5 2



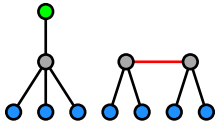
ID: 87 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2



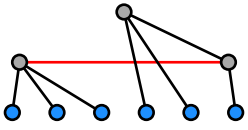
ID: 85 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2



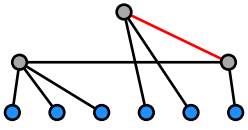
ID: 83 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2



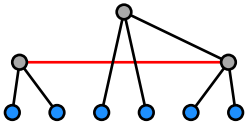
ID: 88 V_{1^n}
n: 5 2



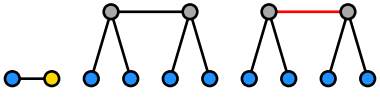
ID: 90 V_{1^n}
n: 5 2



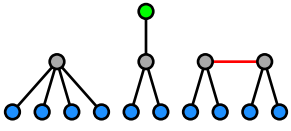
ID: 89 V_{1^n}
n: 5 2



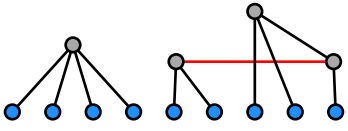
ID: 91 V_{1^n}
n: 2



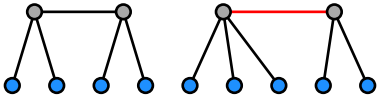
ID: 92 $V_{1^{n-1}} \boxtimes V_1$
n: 2



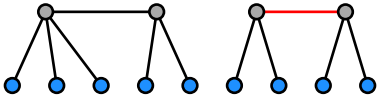
ID: 95 V_{1^n}
n: 2



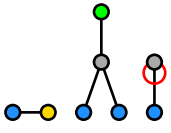
ID: 94 V_{1^n}
n: 2



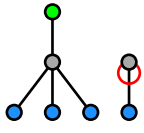
ID: 93 V_{1^n}
n: 2



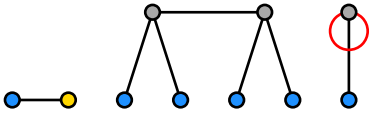
ID: 98 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



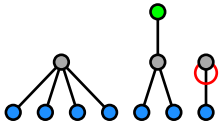
ID: 99 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



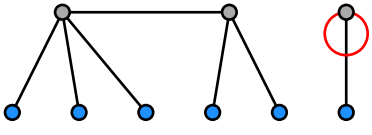
ID: 101 V_{1^n}
n: 5 2



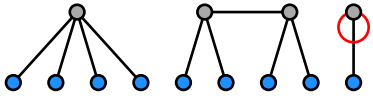
ID: 102 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2



ID: 103 V_{1^n}
n: 5 2

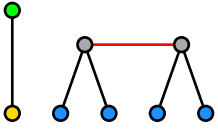


ID: 104 V_{1^n}
n: 2

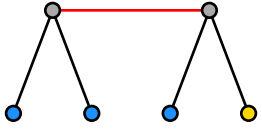


--- B,Birr cases with weight 11 relations relation groups: 2 ---

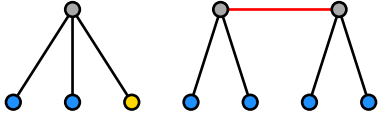
ID: 77 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



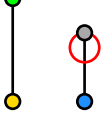
ID: 79 V_{1^n}
n: 8 5 2 redundant



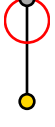
ID: 84 V_{1^n}
n: 5 2



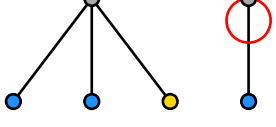
ID: 97 $V_{1^{n-1}} \boxtimes V_1$
n: 11 8 5 2



ID: 96 V_{1^n}
n: 11 8 5 2 redundant

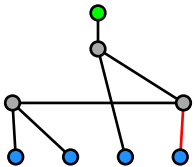


ID: 100 V_{1^n}
n: 8 5 2

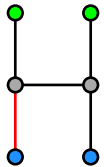


--------- edges: 13-n graphs: 24 ---------
--- A2 case with weight 13 relations relation groups: 2 ---

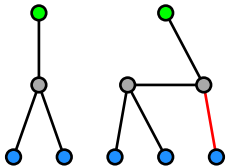
ID: 110 $V_1{}^{n-1} \boxtimes V_1$
n: 8 5 2



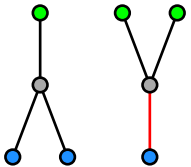
ID: 106 $V_1{}^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 11 8 5 2



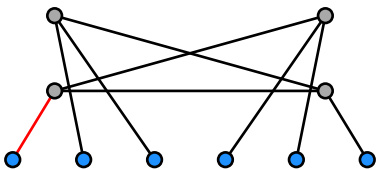
ID: 108 $V_1{}^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 8 5 2 redundant



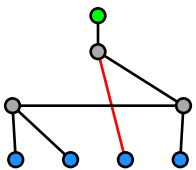
ID: 105 $V_1{}^{n-3} \boxtimes V_1 \boxtimes V_2$
n: 11 8 5 redundant



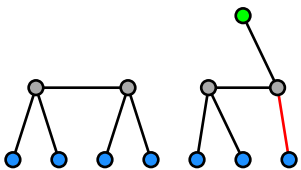
ID: 112 $V_1{}^{n}$
n: 5 2



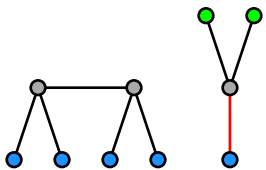
ID: 109 $V_1{}^{n-1} \boxtimes V_1$
n: 8 5 2



ID: 111 $V_1{}^{n-1} \boxtimes V_1$
n: 5 2 redundant

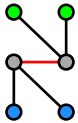


ID: 107 $V_1{}^{n-2} \boxtimes V_2$
n: 8 5 2 redundant

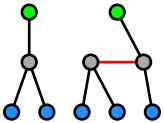


--- B,Birr cases without weight 11 relations graphs: 16 ---

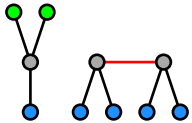
ID: 113 $V_{1^{n-2}} \boxtimes V_2$
n: 11 8 5 2



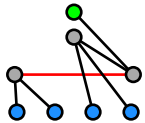
ID: 115 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 8 5 2



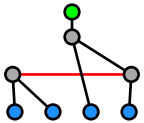
ID: 114 $V_{1^{n-2}} \boxtimes V_2$
n: 8 5 2



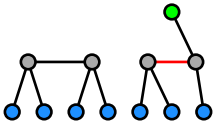
ID: 116 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



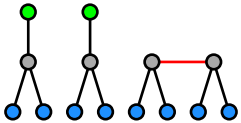
ID: 117 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



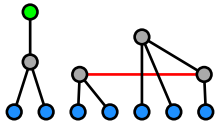
ID: 121 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2



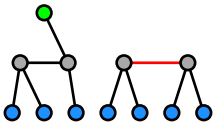
ID: 118 $V_{1^{n-2}} \boxtimes V_2$
n: 5 2



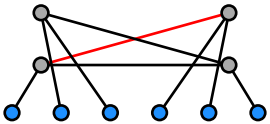
ID: 120 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2



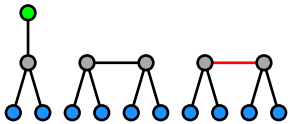
ID: 119 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2



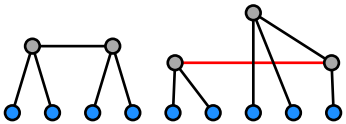
ID: 122 V_{1^n}
n: 5 2



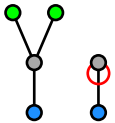
ID: 123 $V_{1^{n-1}} \boxtimes V_1$
n: 2



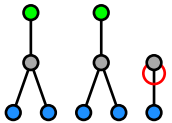
ID: 124 V_{1^n}
n: 2



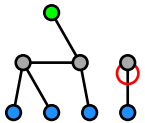
ID: 125 $V_{1^{n-2}} \boxtimes V_2$
n: 11 8 5 2



ID: 126 $V_{1^{n-2}} \boxtimes V_2$
n: 8 5 2



ID: 127 $V_{1^{n-1}} \boxtimes V_1$
n: 8 5 2



ID: 128 $V_{1^{n-1}} \boxtimes V_1$
n: 5 2