
GRAPHES D'ISOGÉNIES ENTRE COURBES ELLIPTIQUES

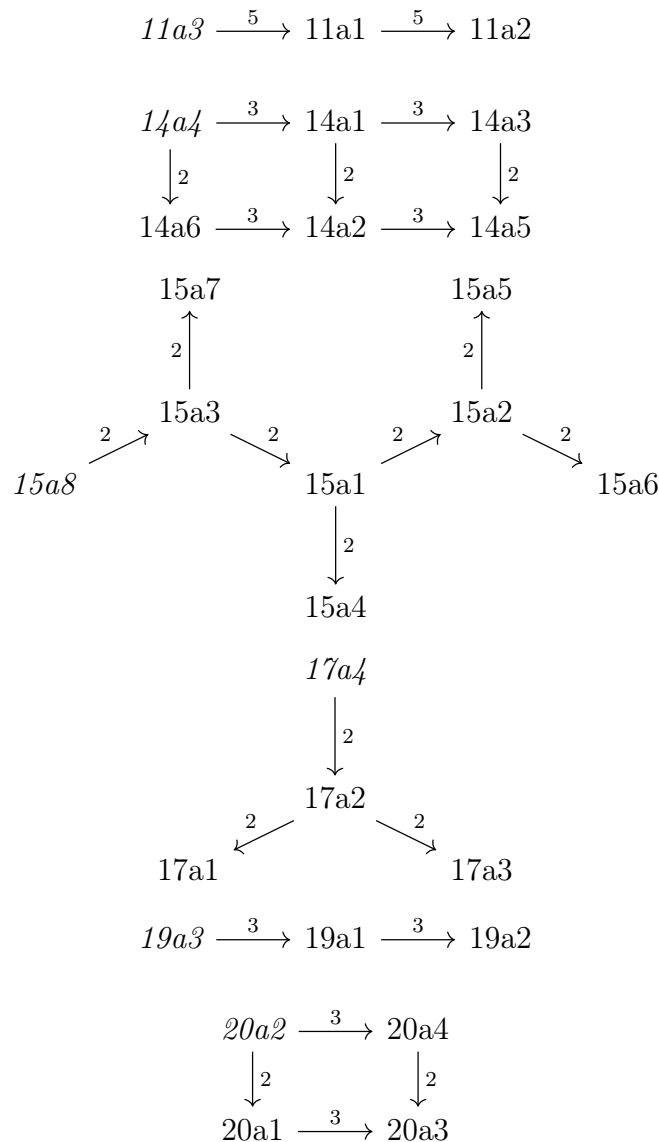
par

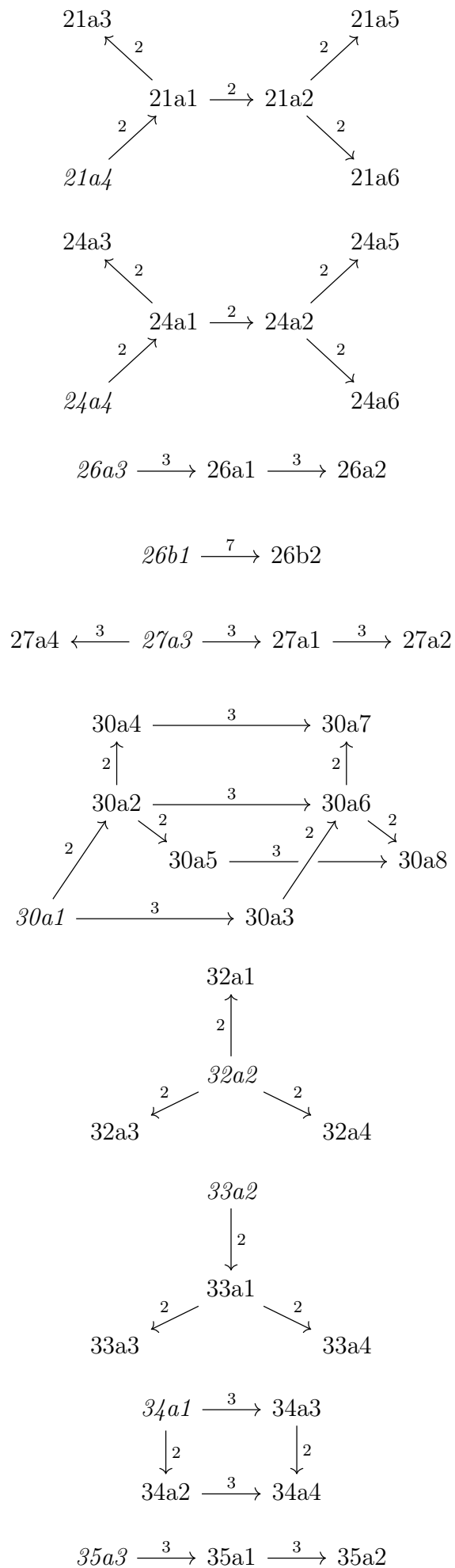
François Brunault

Résumé. — Cette table donne toutes les isogénies de degré premier entre courbes elliptiques définies sur \mathbf{Q} de conducteur ≤ 1000 . Les graphes sont orientés de telle sorte que les formes différentielles de Néron sont préservées par image réciproque. Dans chaque classe d'isogénie, la courbe elliptique de hauteur de Faltings minimale (conjecturalement la courbe $X_1(N)$ -optimale) est indiquée en italique.

Ces graphes ont été calculés à partir de la version PARI/GP des tables de courbes elliptiques de J. E. Cremona disponibles à l'adresse suivante : <http://johncremona.github.io/ecdata/>

NB. La commande `ellisomat` de PARI/GP permet également de calculer le graphe d'isogénies d'une courbe elliptique sur un corps de nombres, ainsi que des équations pour les isogénies.



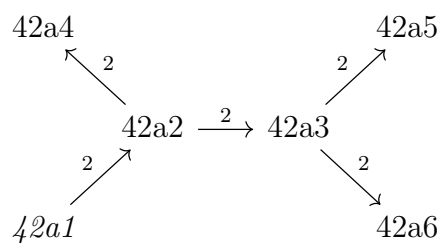
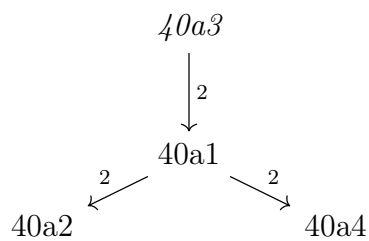
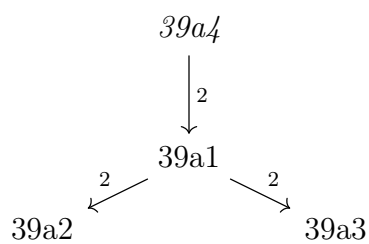


$$\begin{array}{ccc} 36a1 & \xrightarrow{3} & 36a3 \\ \downarrow 2 & & \downarrow 2 \\ 36a2 & \xrightarrow{3} & 36a4 \end{array}$$

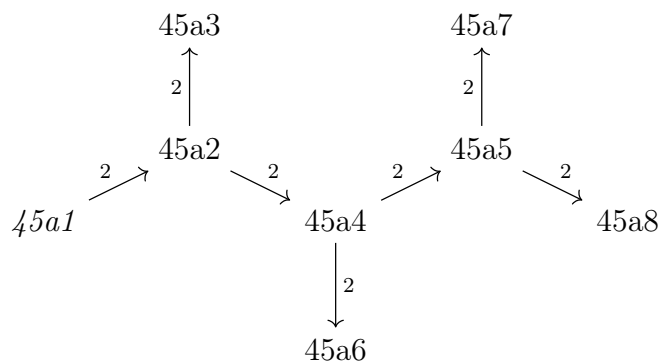
$$37b3 \xrightarrow{3} 37b1 \xrightarrow{3} 37b2$$

$$38a3 \xrightarrow{3} 38a1 \xrightarrow{3} 38a2$$

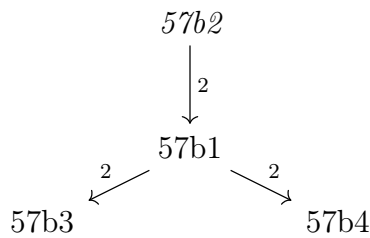
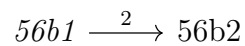
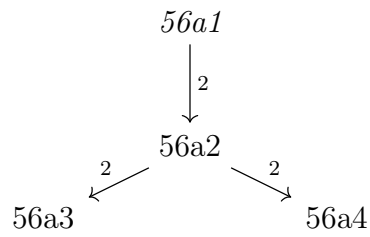
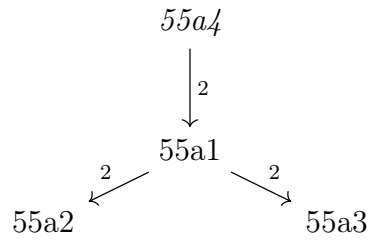
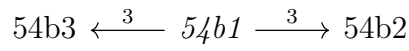
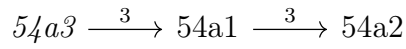
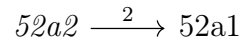
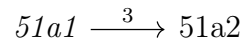
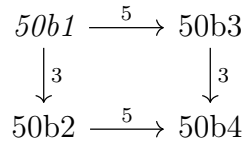
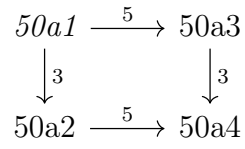
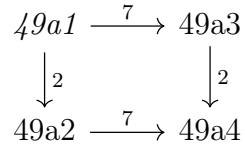
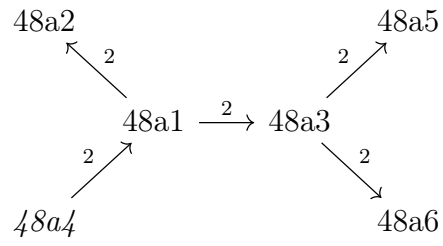
$$38b1 \xrightarrow{5} 38b2$$



$$44a1 \xrightarrow{3} 44a2$$

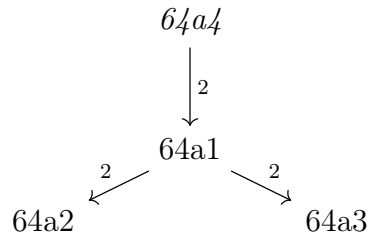
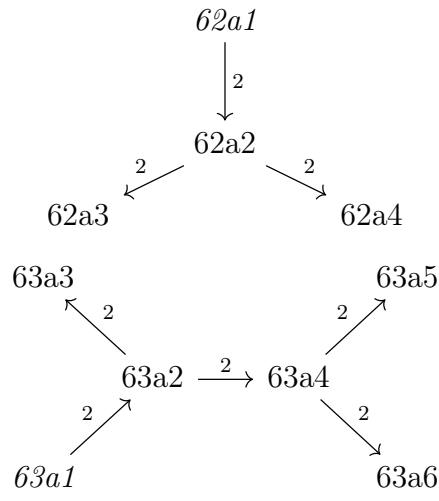


$$46a1 \xrightarrow{2} 46a2$$



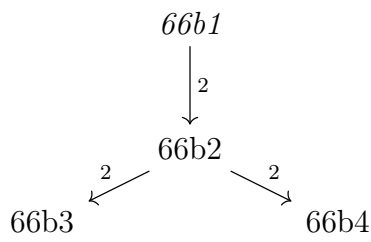
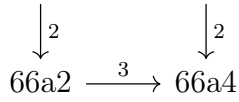
$$57c1 \xrightarrow{5} 57c2$$

$$58b1 \xrightarrow{5} 58b2$$

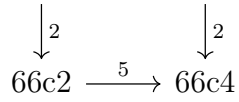


$$65a1 \xrightarrow{2} 65a2$$

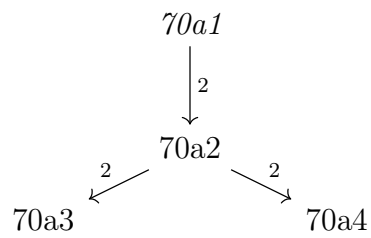
$$66a1 \xrightarrow{3} 66a3$$

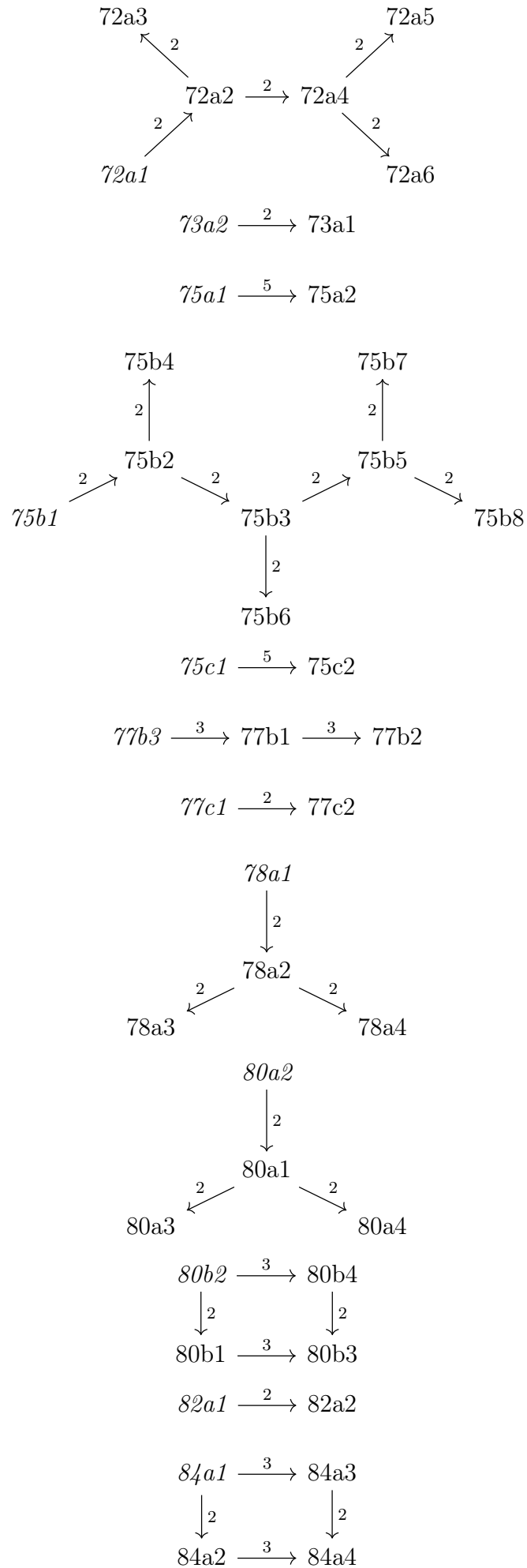


$$66c1 \xrightarrow{5} 66c3$$



$$69a1 \xrightarrow{2} 69a2$$





$$84b1 \xrightarrow{2} 84b2$$

$$85a1 \xrightarrow{2} 85a2$$

$$89b2 \xrightarrow{2} 89b1$$

$$90a1 \xrightarrow{3} 90a3$$

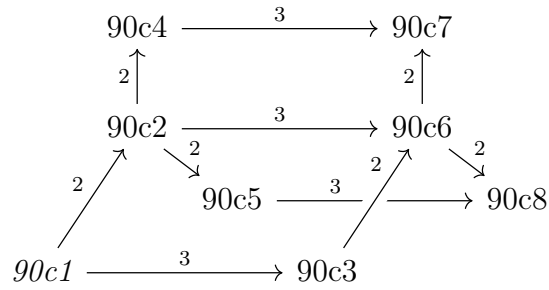
$$\downarrow 2 \qquad \downarrow 2$$

$$90a2 \xrightarrow{3} 90a4$$

$$90b1 \xrightarrow{3} 90b3$$

$$\downarrow 2 \qquad \downarrow 2$$

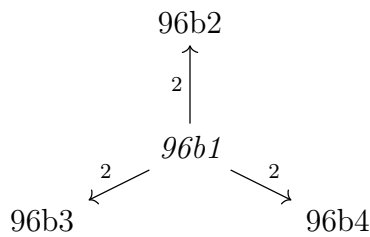
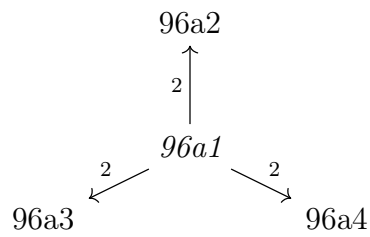
$$90b2 \xrightarrow{3} 90b4$$



$$91b1 \xrightarrow{3} 91b2 \xrightarrow{3} 91b3$$

$$92a1 \xrightarrow{3} 92a2$$

$$94a1 \xrightarrow{2} 94a2$$

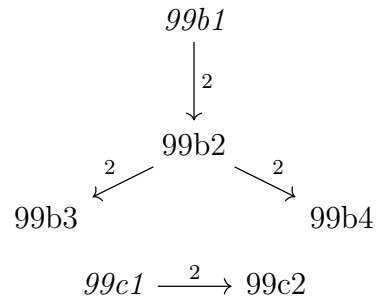


$$98a1 \xrightarrow{3} 98a3 \xrightarrow{3} 98a5$$

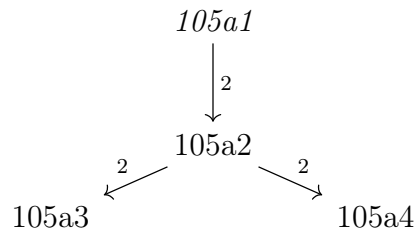
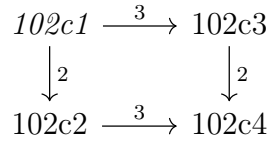
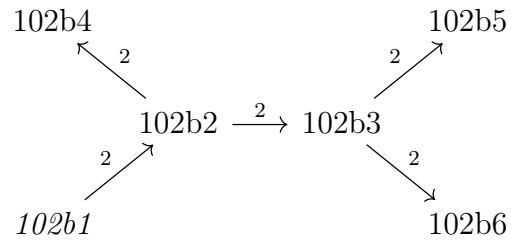
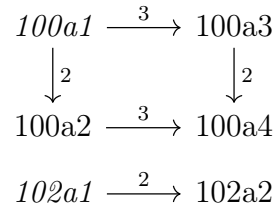
$$\downarrow 2 \qquad \downarrow 2 \qquad \downarrow 2$$

$$98a2 \xrightarrow{3} 98a4 \xrightarrow{3} 98a6$$

$$99a1 \xrightarrow{2} 99a2$$



$$99d1 \xrightarrow{5} 99d2 \xrightarrow{5} 99d3$$



$$106a1 \xrightarrow{3} 106a2$$

$$106c1 \xrightarrow{3} 106c2$$

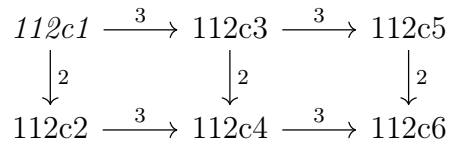
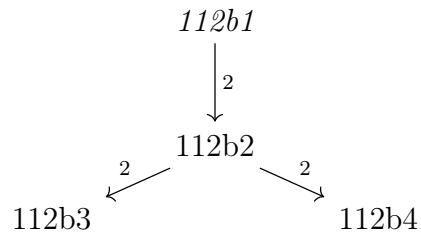
$$108a1 \xrightarrow{3} 108a2$$

$$110a1 \xrightarrow{5} 110a2$$

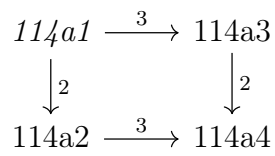
$$110b1 \xrightarrow{3} 110b2$$

$$110c1 \xrightarrow{3} 110c2$$

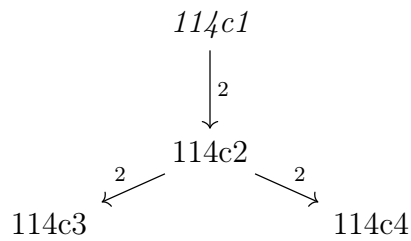
$$112a1 \xrightarrow{2} 112a2$$



$$113a2 \xrightarrow{2} 113a1$$

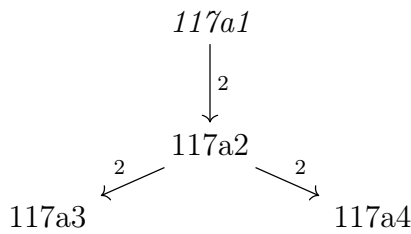


$$114b1 \xrightarrow{2} 114b2$$

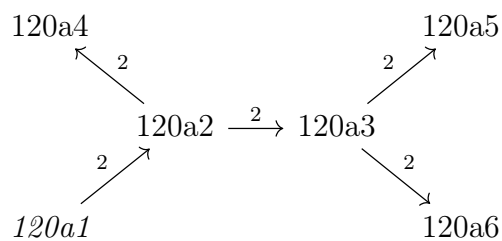


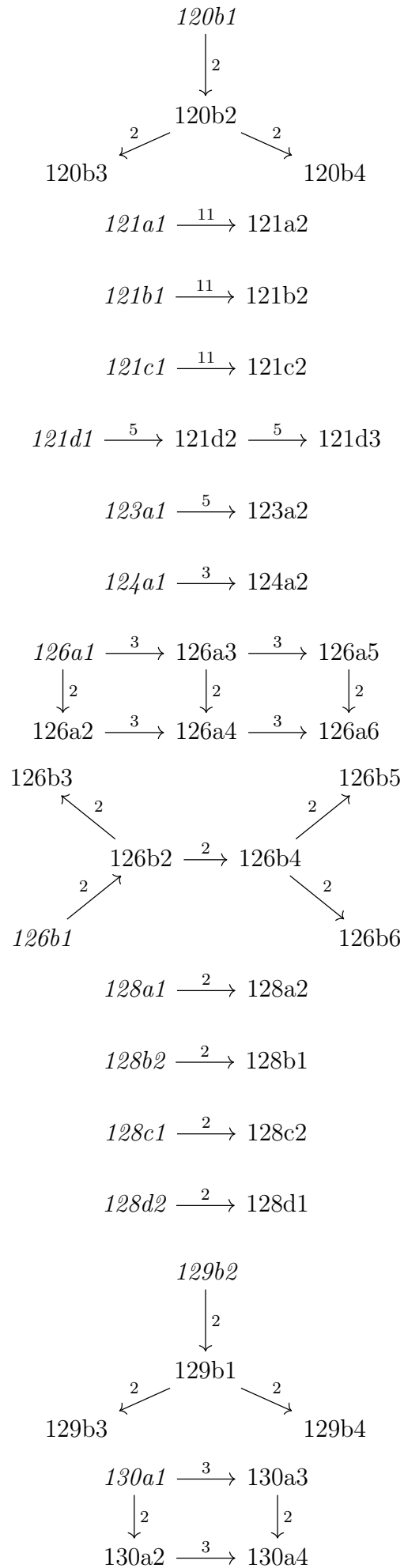
$$116b1 \xrightarrow{3} 116b2$$

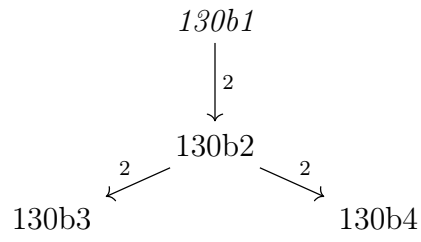
$$116c2 \xrightarrow{2} 116c1$$



$$118b1 \xrightarrow{5} 118b2$$







$$130c1 \xrightarrow{2} 130c2$$

$$132a1 \xrightarrow{2} 132a2$$

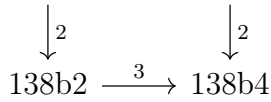
$$132b1 \xrightarrow{2} 132b2$$

$$136a1 \xrightarrow{2} 136a2$$

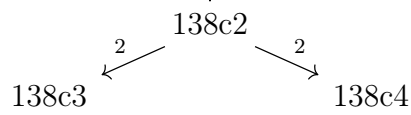
$$136b1 \xrightarrow{2} 136b2$$

$$138a1 \xrightarrow{2} 138a2$$

$$138b1 \xrightarrow{3} 138b3$$



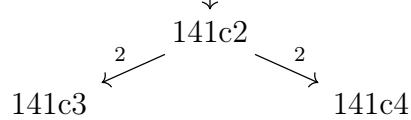
$$138c1$$



$$140a1 \xrightarrow{3} 140a2$$

$$141b1 \xrightarrow{2} 141b2$$

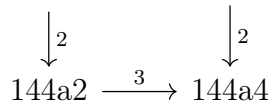
$$141c1$$

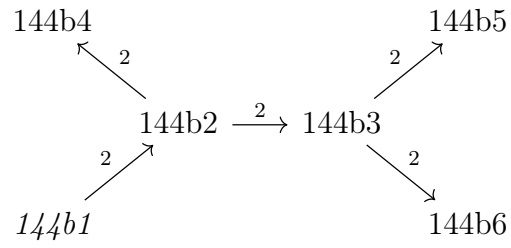


$$142c1 \xrightarrow{2} 142c2$$

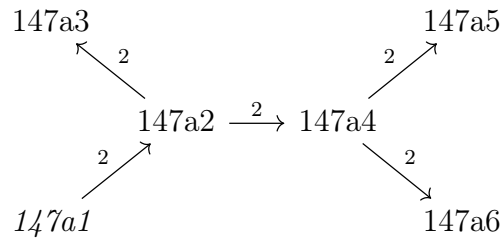
$$142d1 \xrightarrow{3} 142d2$$

$$144a1 \xrightarrow{3} 144a3$$





$$145a1 \xrightarrow{2} 145a2$$



$$147b1 \xrightarrow{13} 147b2$$

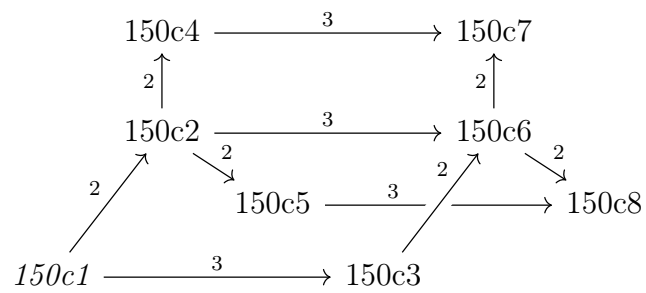
$$147c1 \xrightarrow{13} 147c2$$

$$150a1 \xrightarrow{5} 150a3$$

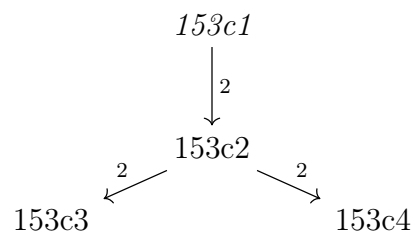
$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 150a2 & \xrightarrow{5} & 150a4
 \end{array}$$

$$150b1 \xrightarrow{5} 150b3$$

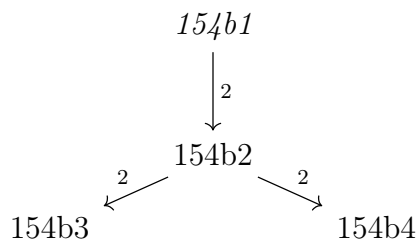
$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 150b2 & \xrightarrow{5} & 150b4
 \end{array}$$



$$153b1 \xrightarrow{3} 153b2$$



$$154a1 \xrightarrow{2} 154a2$$



$$154c1 \xrightarrow{2} 154c2$$

$$155a1 \xrightarrow{5} 155a2$$

$$155b1 \xrightarrow{2} 155b2$$

$$156a1 \xrightarrow{2} 156a2$$

$$156b1 \xrightarrow{3} 156b3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 156b2 & \xrightarrow{3} & 156b4
 \end{array}$$

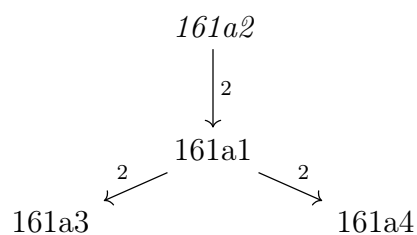
$$158c1 \xrightarrow{5} 158c2$$

$$158d3 \xrightarrow{3} 158d1 \xrightarrow{3} 158d2$$

$$158e1 \xrightarrow{2} 158e2$$

$$160a1 \xrightarrow{2} 160a2$$

$$160b1 \xrightarrow{2} 160b2$$



$$162a1 \xrightarrow{3} 162a2$$

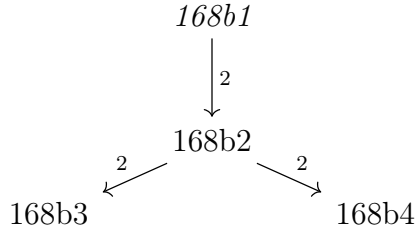
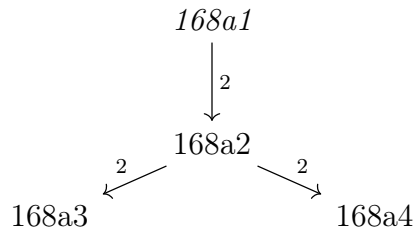
$$162b1 \xrightarrow{7} 162b3$$

$$\begin{array}{ccc}
 \downarrow 3 & & \downarrow 3 \\
 162b2 & \xrightarrow{7} & 162b4
 \end{array}$$

$$162c1 \xrightarrow{7} 162c3$$

$$\begin{array}{ccc}
 \downarrow 3 & & \downarrow 3 \\
 162c2 & \xrightarrow{7} & 162c4
 \end{array}$$

$$162d1 \xrightarrow{3} 162d2$$



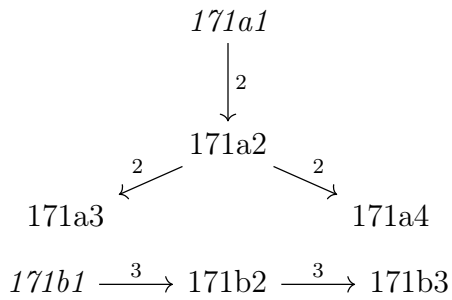
$$170a1 \xrightarrow{2} 170a2$$

$$170b1 \xrightarrow{3} 170b3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 170b2 & \xrightarrow{3} & 170b4
 \end{array}$$

$$170c1 \xrightarrow{3} 170c2$$

$$170d1 \xrightarrow{3} 170d2$$

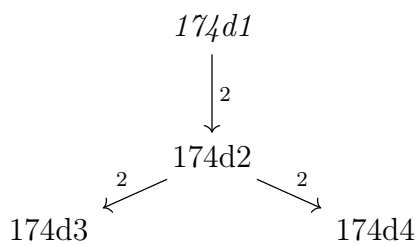


$$171c1 \xrightarrow{5} 171c2$$

$$172a1 \xrightarrow{3} 172a2$$

$$174a1 \xrightarrow{3} 174a2$$

$$174b1 \xrightarrow{7} 174b2$$



$$175a1 \xrightarrow{5} 175a2$$

$$175b1 \xrightarrow{3} 175b2 \xrightarrow{3} 175b3$$

$$175c1 \xrightarrow{5} 175c2$$

$$176b1 \xrightarrow{5} 176b2 \xrightarrow{5} 176b3$$

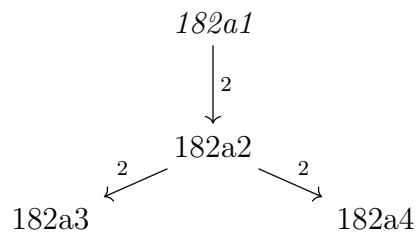
$$176c1 \xrightarrow{3} 176c2$$

$$178a1 \xrightarrow{3} 178a2$$

$$178b1 \xrightarrow{2} 178b2$$

$$180a1 \xrightarrow{3} 180a3$$

$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 180a2 & \xrightarrow{3} & 180a4 \end{array}$$



$$182b1 \xrightarrow{3} 182b2 \xrightarrow{3} 182b3$$

$$184c1 \xrightarrow{2} 184c2$$

$$185c1 \xrightarrow{2} 185c2$$

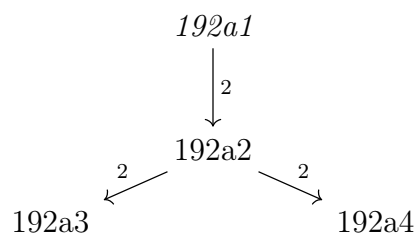
$$186b1 \xrightarrow{5} 186b2$$

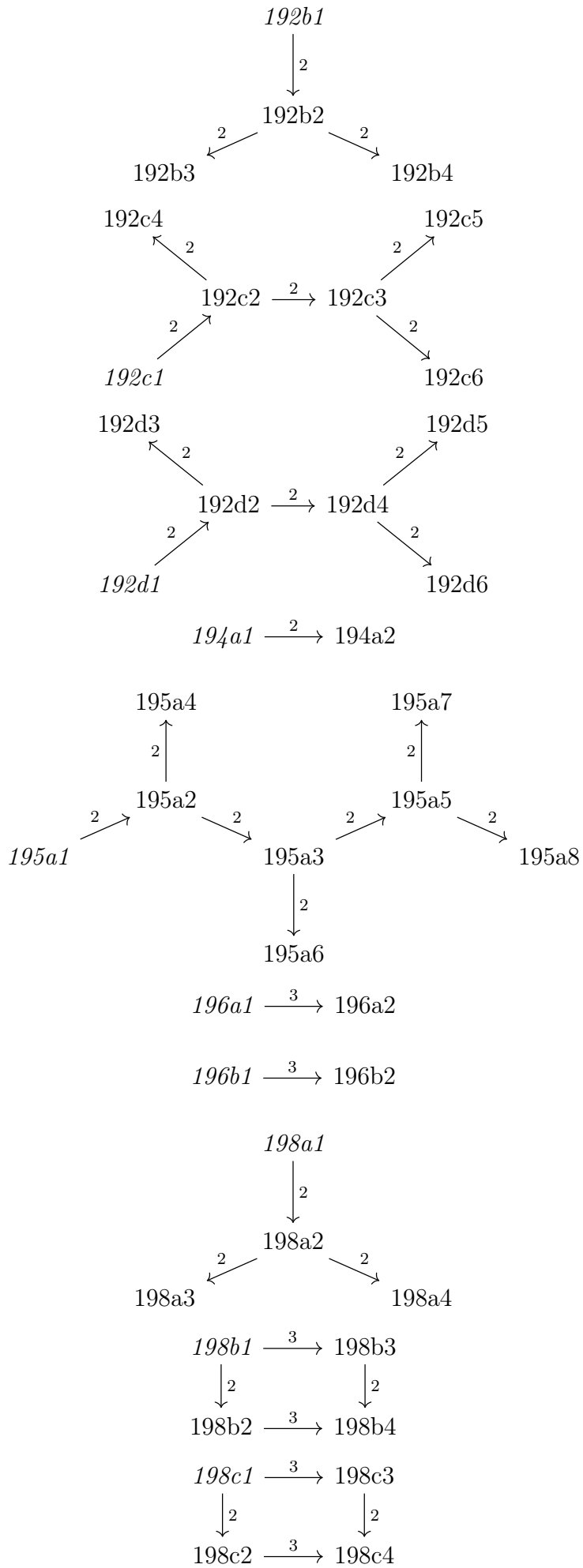
$$187a1 \xrightarrow{3} 187a2$$

$$189b1 \xrightarrow{3} 189b2 \xrightarrow{3} 189b3$$

$$189c3 \xleftarrow{3} 189c1 \xrightarrow{3} 189c2$$

$$190c1 \xrightarrow{3} 190c2$$

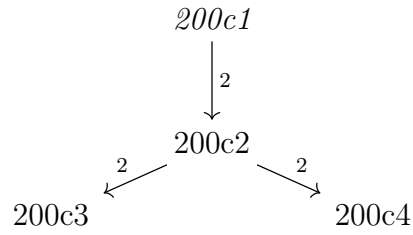




$$\begin{array}{ccc} 198d1 & \xrightarrow{3} & 198d3 \\ \downarrow 2 & & \downarrow 2 \\ 198d2 & \xrightarrow{3} & 198d4 \end{array}$$

$$\begin{array}{ccc} 198e1 & \xrightarrow{5} & 198e3 \\ \downarrow 2 & & \downarrow 2 \\ 198e2 & \xrightarrow{5} & 198e4 \end{array}$$

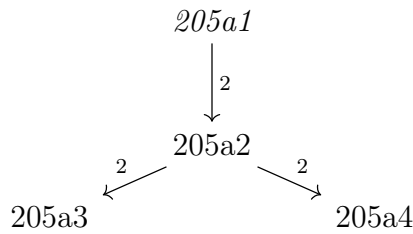
$$200b1 \xrightarrow{2} 200b2$$



$$200d1 \xrightarrow{2} 200d2$$

$$203a1 \xrightarrow{5} 203a2$$

$$203c1 \xrightarrow{2} 203c2$$



$$205b1 \xrightarrow{2} 205b2$$

$$205c1 \xrightarrow{2} 205c2$$

$$206a1 \xrightarrow{2} 206a2$$

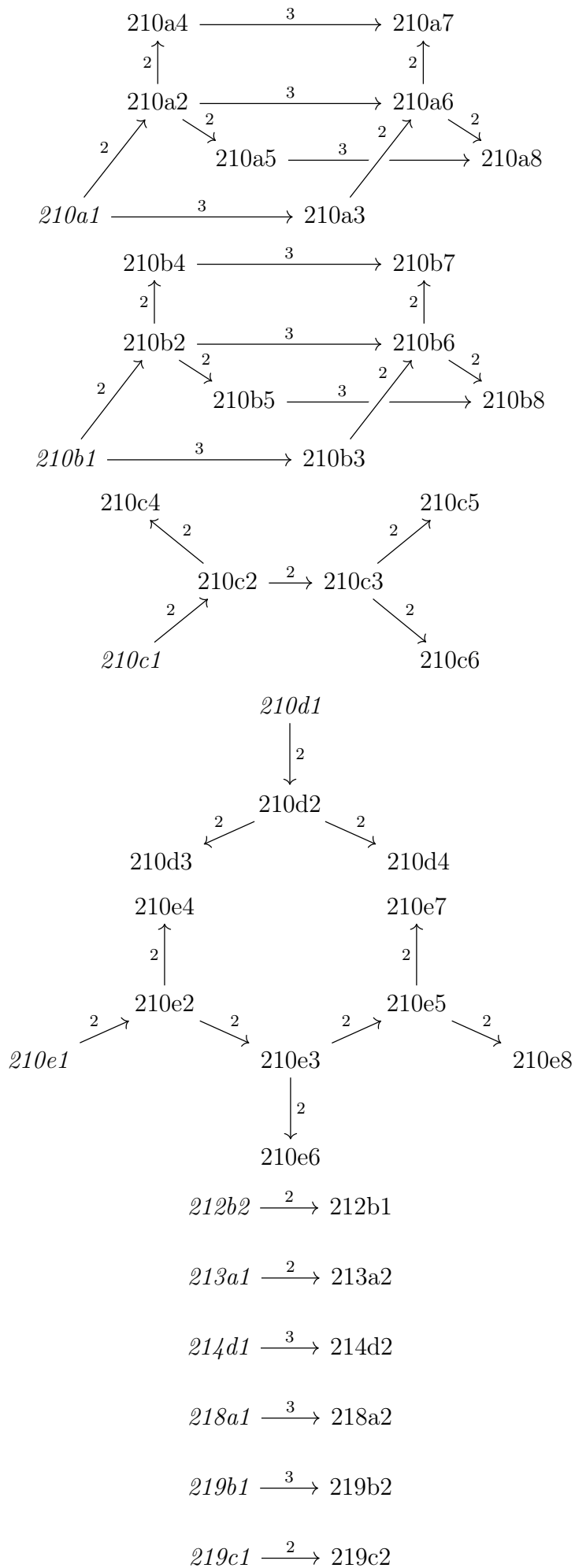
$$207a1 \xrightarrow{2} 207a2$$

$$208a1 \xrightarrow{3} 208a2 \xrightarrow{3} 208a3$$

$$208c2 \xrightarrow{2} 208c1$$

$$208d1 \xrightarrow{7} 208d2$$

$$209a1 \xrightarrow{3} 209a2$$



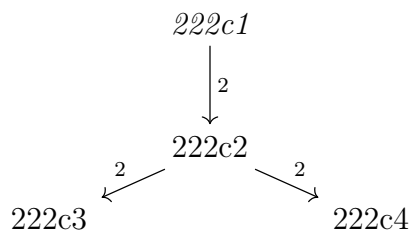
$$\begin{array}{ccc} 220a1 & \xrightarrow{3} & 220a3 \\ \downarrow 2 & & \downarrow 2 \\ 220a2 & \xrightarrow{3} & 220a4 \end{array}$$

$$220b1 \xrightarrow{2} 220b2$$

$$221a1 \xrightarrow{2} 221a2$$

$$221b1 \xrightarrow{2} 221b2$$

$$222a1 \xrightarrow{3} 222a2$$

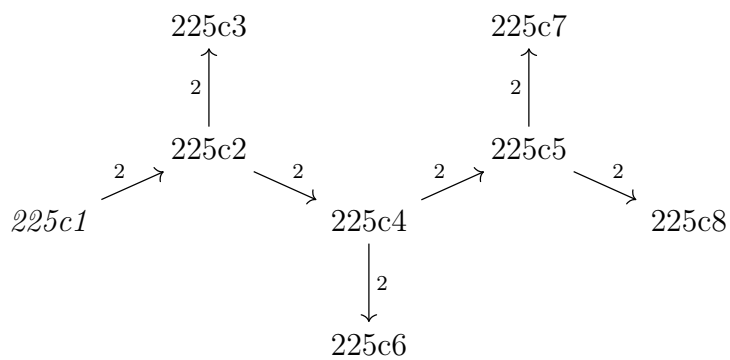


$$224a1 \xrightarrow{2} 224a2$$

$$224b1 \xrightarrow{2} 224b2$$

$$225a1 \xrightarrow{3} 225a2$$

$$225b1 \xrightarrow{3} 225b2$$

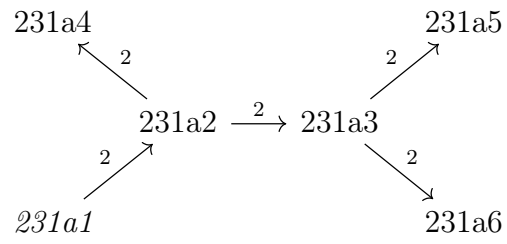


$$225d1 \xrightarrow{5} 225d2$$

$$225e1 \xrightarrow{5} 225e2$$

$$226a1 \xrightarrow{2} 226a2$$

$$228a1 \xrightarrow{2} 228a2$$

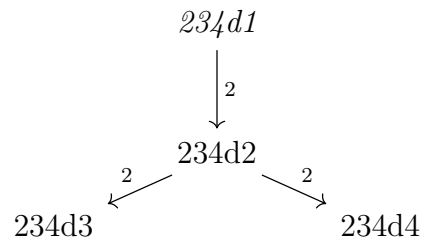


$$233a2 \xrightarrow{2} 233a1$$

$$234a1 \xrightarrow{7} 234a2$$

$$234b1 \xrightarrow{2} 234b2$$

$$234c1 \xrightarrow{2} 234c2$$

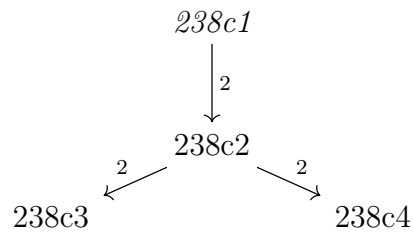


$$234e1 \xrightarrow{3} 234e2 \xrightarrow{3} 234e3$$

$$236b1 \xrightarrow{3} 236b2$$

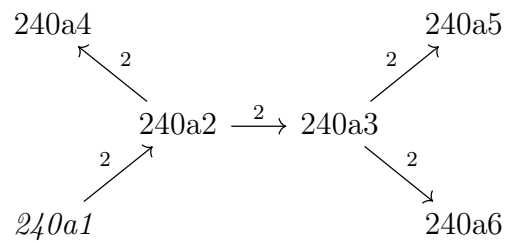
$$238a1 \xrightarrow{2} 238a2$$

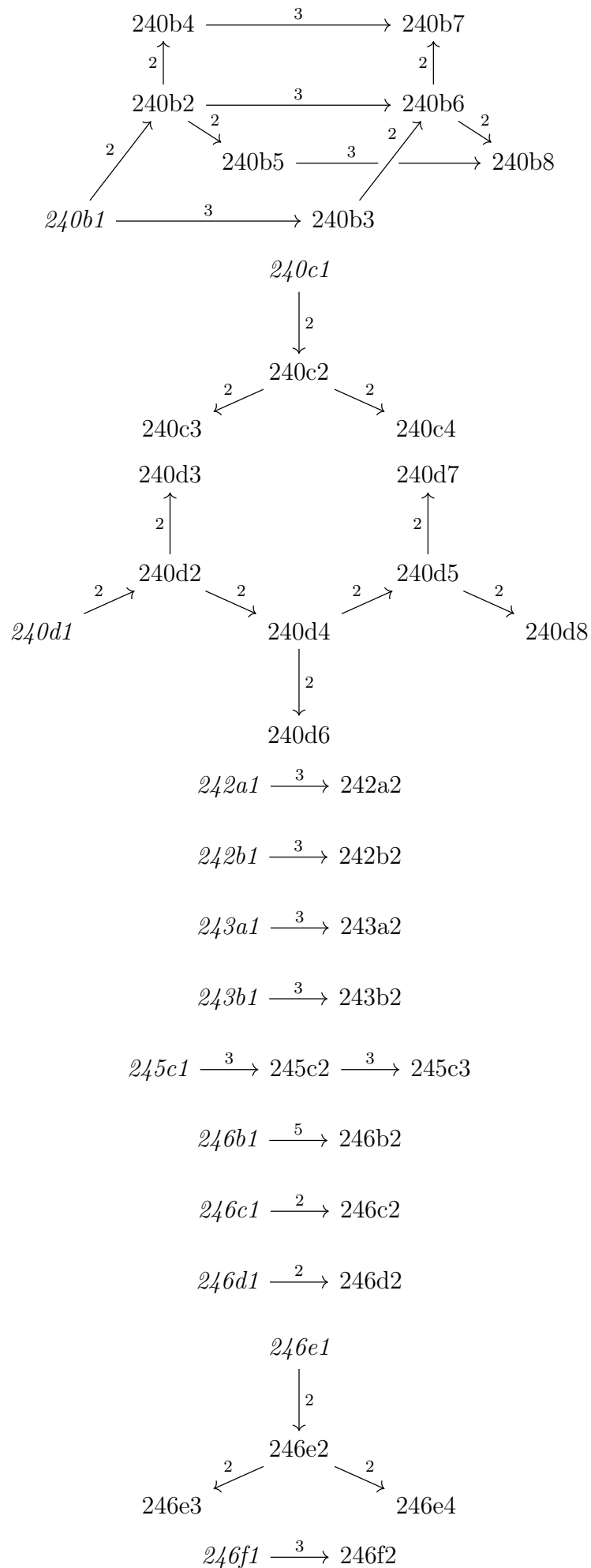
$$238b1 \xrightarrow{2} 238b2$$



$$238d1 \xrightarrow{2} 238d2$$

$$238e1 \xrightarrow{2} 238e2$$





$$248b1 \xrightarrow{2} 248b2$$

$$252a1 \xrightarrow{3} 252a3$$

$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 252a2 & \xrightarrow{3} & 252a4 \end{array}$$

$$252b1 \xrightarrow{2} 252b2$$

$$254a1 \xrightarrow{3} 254a2 \xrightarrow{3} 254a3$$

$$254b1 \xrightarrow{2} 254b2$$

$$\begin{array}{ccc} & 254d1 & \\ & \downarrow 2 & \\ & 254d2 & \\ \swarrow 2 & & \searrow 2 \\ 254d3 & & 254d4 \end{array}$$

$$256a1 \xrightarrow{2} 256a2$$

$$256b1 \xrightarrow{2} 256b2$$

$$256c1 \xrightarrow{2} 256c2$$

$$256d1 \xrightarrow{2} 256d2$$

$$258b1 \xrightarrow{2} 258b2$$

$$\begin{array}{ccc} & 258d1 & \\ & \downarrow 2 & \\ & 258d2 & \\ \swarrow 2 & & \searrow 2 \\ 258d3 & & 258d4 \end{array}$$

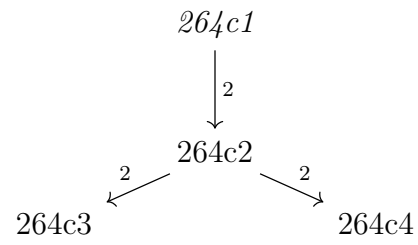
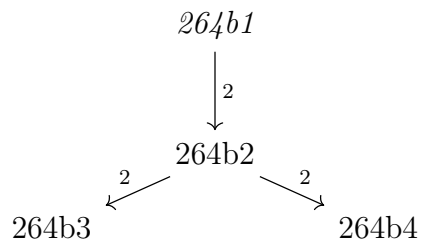
$$258f1 \xrightarrow{7} 258f2$$

$$258g1 \xrightarrow{2} 258g2$$

$$259a1 \xrightarrow{2} 259a2$$

$$260a1 \xrightarrow{2} 260a2$$

$$264a1 \xrightarrow{2} 264a2$$



$$264d1 \xrightarrow{2} 264d2$$

$$265a1 \xrightarrow{2} 265a2$$

$$267a1 \xrightarrow{3} 267a2$$

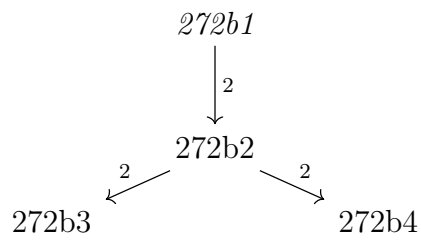
$$270a1 \xrightarrow{3} 270a2$$

$$270b1 \xrightarrow{3} 270b2$$

$$270c1 \xrightarrow{3} 270c2$$

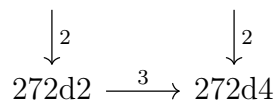
$$270d1 \xrightarrow{3} 270d2$$

$$272a1 \xrightarrow{2} 272a2$$

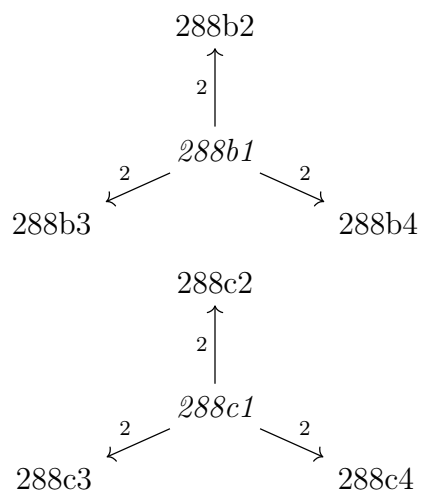
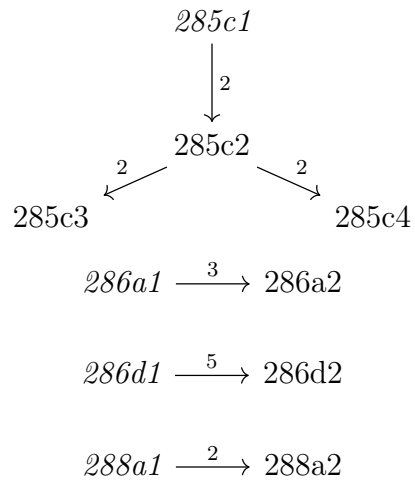
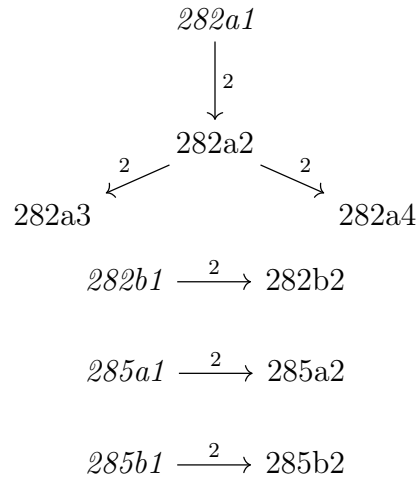
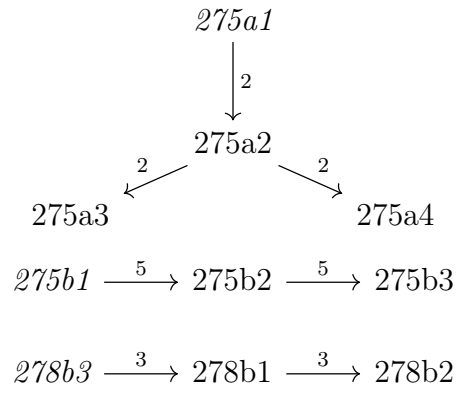


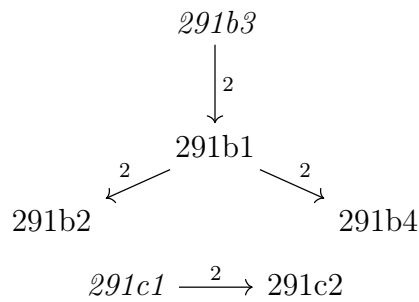
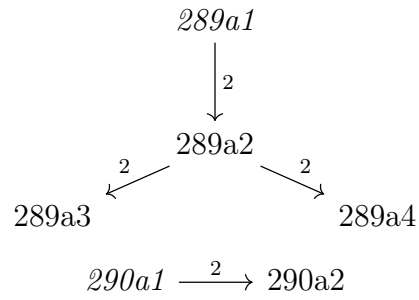
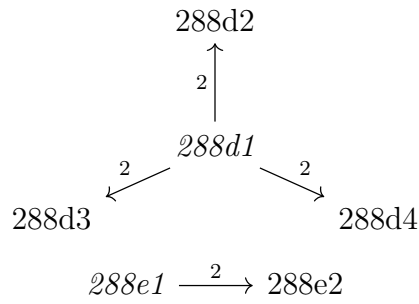
$$272c1 \xrightarrow{2} 272c2$$

$$272d1 \xrightarrow{3} 272d3$$



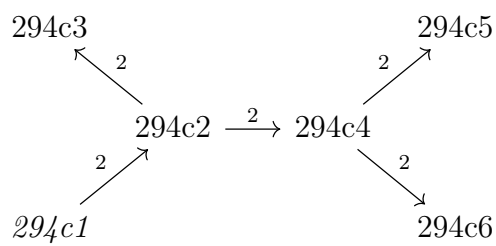
$$274c1 \xrightarrow{2} 274c2$$





$$294a1 \xrightarrow{7} 294a2$$

$$294b1 \xrightarrow{7} 294b2$$



$$294d1 \xrightarrow{3} 294d2$$

$$294e1 \xrightarrow{3} 294e2$$

$$294f1 \xrightarrow{2} 294f2$$

$$294g1 \xrightarrow{2} 294g2$$

$$300a1 \xrightarrow{3} 300a2$$

$$300b1 \xrightarrow{3} 300b2$$

$$300c1 \xrightarrow{2} 300c2$$

$$300d1 \xrightarrow{2} 300d2$$

$$302a1 \xrightarrow{5} 302a2$$

$$302b1 \xrightarrow{2} 302b2$$

$$304a1 \xrightarrow{5} 304a2$$

$$304b1 \xrightarrow{3} 304b2 \xrightarrow{3} 304b3$$

$$304e1 \xrightarrow{3} 304e2 \xrightarrow{3} 304e3$$

$$306a1 \xrightarrow{3} 306a3$$

$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 306a2 & \xrightarrow{3} & 306a4 \end{array}$$

$$306b1 \xrightarrow{3} 306b3$$

$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 306b2 & \xrightarrow{3} & 306b4 \end{array}$$

$$\begin{array}{ccccc} & 306c4 & & & 306c5 \\ & \swarrow 2 & & & \nearrow 2 \\ & 306c2 & \xrightarrow{2} & 306c3 & \\ \nearrow 2 & & & & \searrow 2 \\ 306c1 & & & & 306c6 \end{array}$$

$$306d1 \xrightarrow{2} 306d2$$

$$310a1 \xrightarrow{2} 310a2$$

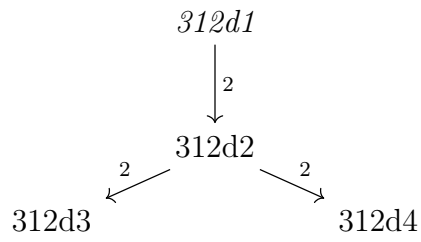
$$310b1 \xrightarrow{3} 310b3$$

$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 310b2 & \xrightarrow{3} & 310b4 \end{array}$$

$$312a1 \xrightarrow{2} 312a2$$

$$312b1 \xrightarrow{2} 312b2$$

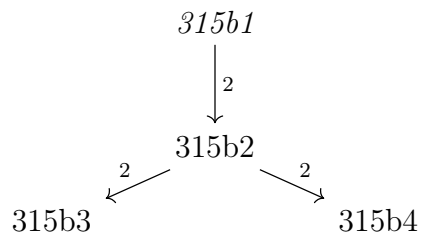
$$\begin{array}{ccc} & 312c1 & \\ & \downarrow 2 & \\ & 312c2 & \\ \swarrow 2 & & \searrow 2 \\ 312c3 & & 312c4 \end{array}$$



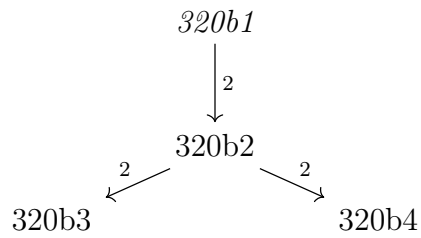
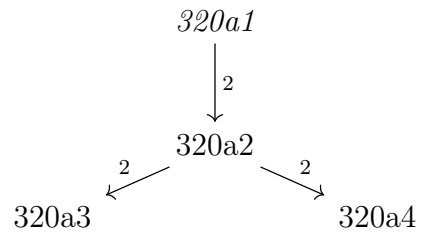
$$312e1 \xrightarrow{2} 312e2$$

$$312f1 \xrightarrow{2} 312f2$$

$$315a1 \xrightarrow{3} 315a2 \xrightarrow{3} 315a3$$



$$318b1 \xrightarrow{3} 318b2$$



$$320c1 \xrightarrow{3} 320c3$$

$$\downarrow 2 \qquad \downarrow 2$$

$$320c2 \xrightarrow{3} 320c4$$

$$320d1 \xrightarrow{2} 320d2$$

$$320e1 \xrightarrow{2} 320e2$$

$$320f1 \xrightarrow{3} 320f3$$

$$\downarrow 2 \qquad \downarrow 2$$

$$320f2 \xrightarrow{3} 320f4$$

$$322a1 \xrightarrow{2} 322a2$$

$$322b1 \xrightarrow{2} 322b2$$

$$322c1 \xrightarrow{2} 322c2$$

$$322d1 \xrightarrow{2} 322d2$$

$$324a1 \xrightarrow{3} 324a2$$

$$324b1 \xrightarrow{3} 324b2$$

$$324c1 \xrightarrow{3} 324c2$$

$$324d1 \xrightarrow{3} 324d2$$

$$325a1 \xrightarrow{3} 325a2$$

$$325b1 \xrightarrow{3} 325b2$$

$$325c1 \xrightarrow{2} 325c2$$

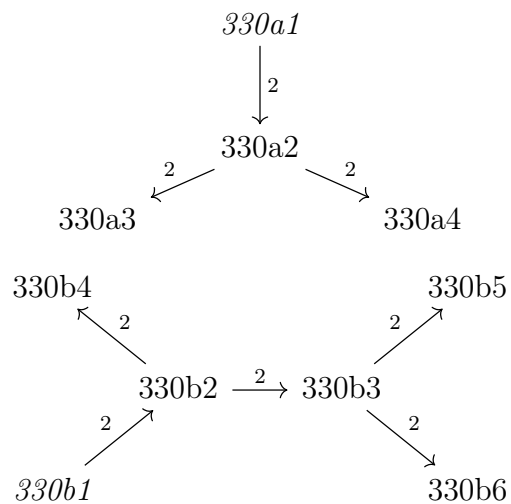
$$325d1 \xrightarrow{5} 325d2$$

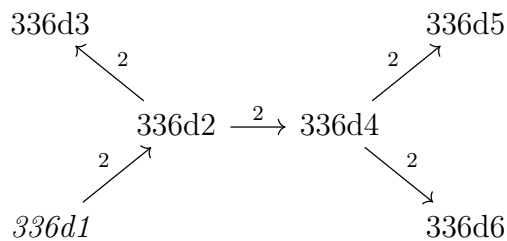
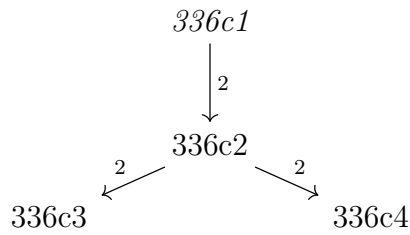
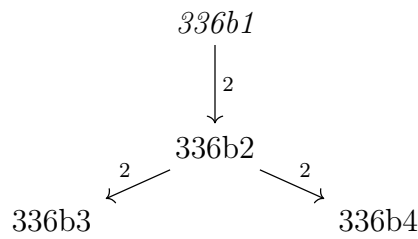
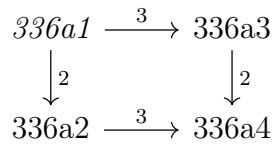
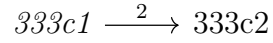
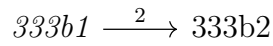
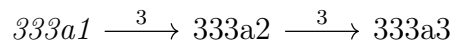
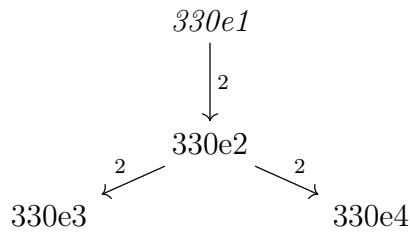
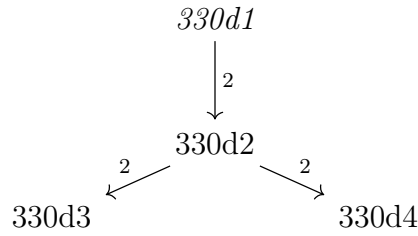
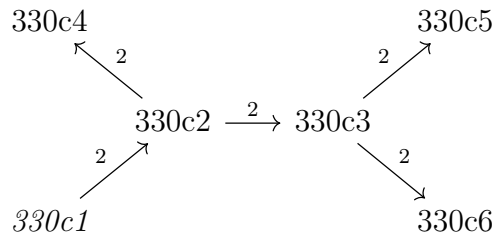
$$325e1 \xrightarrow{5} 325e2$$

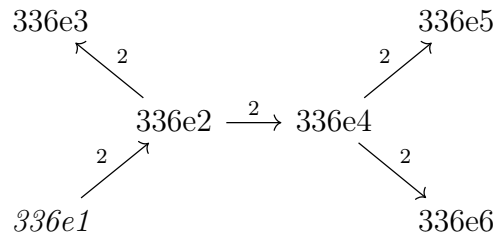
$$326c3 \xrightarrow{3} 326c1 \xrightarrow{3} 326c2$$

$$328a1 \xrightarrow{2} 328a2$$

$$328b1 \xrightarrow{2} 328b2$$







$$336f1 \xrightarrow{2} 336f2$$

$$338a1 \xrightarrow{7} 338a2$$

$$338b1 \xrightarrow{7} 338b2$$

$$338c1 \xrightarrow{3} 338c2 \xrightarrow{3} 338c3$$

$$338d1 \xrightarrow{5} 338d2$$

$$338e1 \xrightarrow{5} 338e2$$

$$338f1 \xrightarrow{7} 338f2$$

$$340a1 \xrightarrow{2} 340a2$$

$$342a1 \xrightarrow{3} 342a2 \xrightarrow{3} 342a3$$

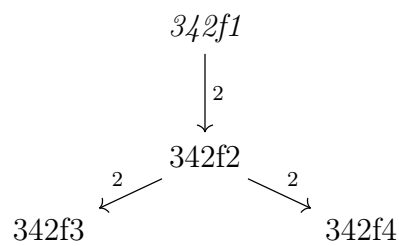
$$342b1 \xrightarrow{2} 342b2$$

$$342c1 \xrightarrow{3} 342c3$$

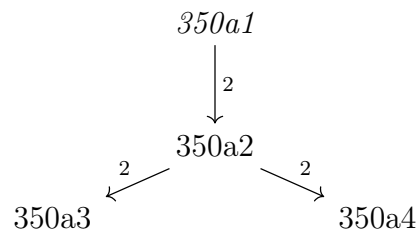
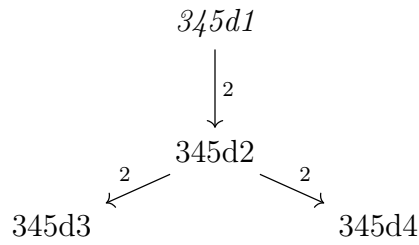
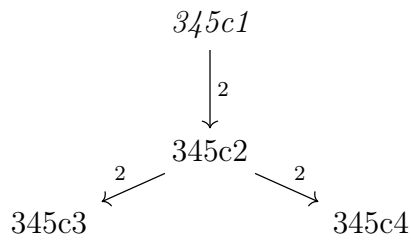
$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 342c2 & \xrightarrow{3} & 342c4
 \end{array}$$

$$342d1 \xrightarrow{2} 342d2$$

$$342e1 \xrightarrow{2} 342e2$$

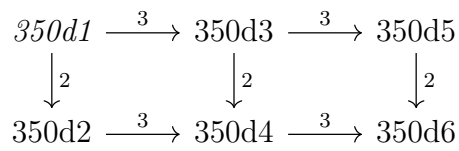


$$342g1 \xrightarrow{5} 342g2$$



$$350b1 \xrightarrow{3} 350b2$$

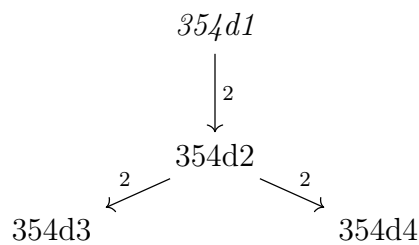
$$350c1 \xrightarrow{3} 350c2$$



$$353a2 \xrightarrow{2} 353a1$$

$$354a1 \xrightarrow{2} 354a2$$

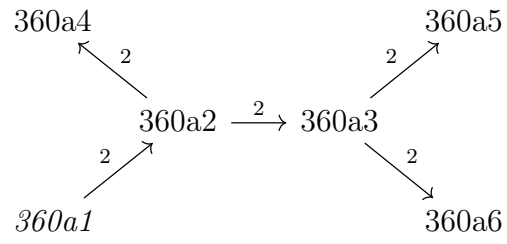
$$354b1 \xrightarrow{3} 354b2$$



$$354e1 \xrightarrow{2} 354e2$$

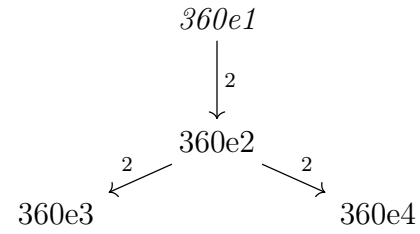
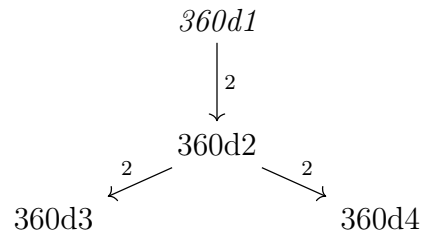
$$355a1 \xrightarrow{3} 355a2$$

$$358b1 \xrightarrow{3} 358b2$$



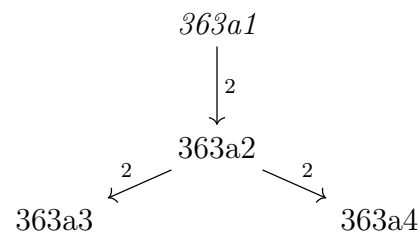
$$360b1 \xrightarrow{2} 360b2$$

$$360c1 \xrightarrow{2} 360c2$$

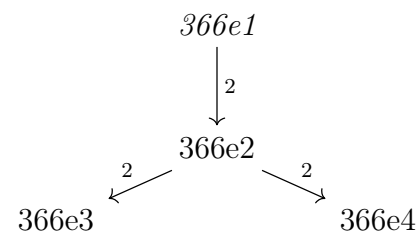


$$361a1 \xrightarrow{19} 361a2$$

$$361b1 \xrightarrow{3} 361b2 \xrightarrow{3} 361b3$$



$$366b1 \xrightarrow{5} 366b2$$



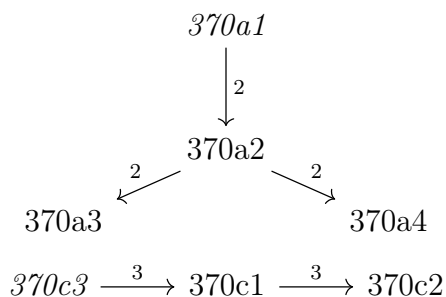
$$366f1 \xrightarrow{3} 366f2$$

$$368a1 \xrightarrow{2} 368a2$$

$$368b1 \xrightarrow{2} 368b2$$

$$368e1 \xrightarrow{3} 368e2$$

$$369b1 \xrightarrow{5} 369b2$$



$$370d1 \xrightarrow{3} 370d3$$

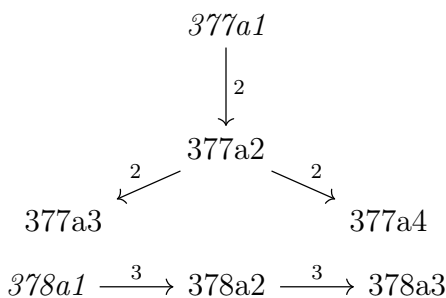
$$\downarrow 2 \quad \quad \downarrow 2$$

$$370d2 \xrightarrow{3} 370d4$$

$$372b1 \xrightarrow{2} 372b2$$

$$372c1 \xrightarrow{3} 372c2$$

$$374a1 \xrightarrow{2} 374a2$$



$$378b2 \xleftarrow{3} 378b1 \xrightarrow{3} 378b3$$

$$378e2 \xleftarrow{3} 378e1 \xrightarrow{3} 378e3$$

$$378f1 \xrightarrow{3} 378f2 \xrightarrow{3} 378f3$$

$$380a1 \xrightarrow{2} 380a2$$

$$380b1 \xrightarrow{2} 380b2$$

$$384a1 \xrightarrow{2} 384a2$$

$$384b1 \xrightarrow{2} 384b2$$

$$384c1 \xrightarrow{2} 384c2$$

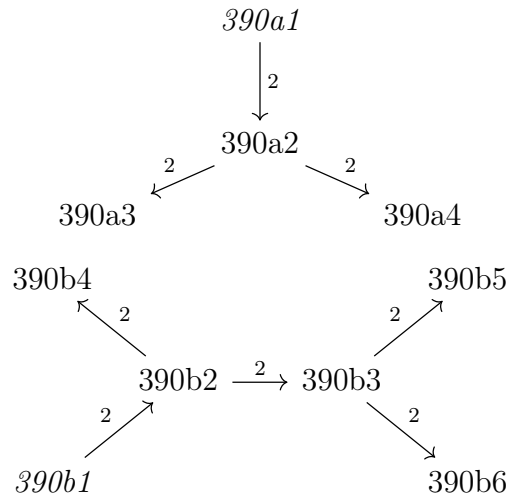
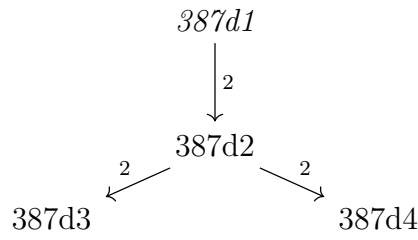
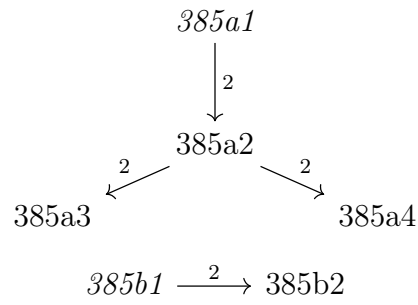
$$384d1 \xrightarrow{2} 384d2$$

$$384e1 \xrightarrow{2} 384e2$$

$$384f1 \xrightarrow{2} 384f2$$

$$384g1 \xrightarrow{2} 384g2$$

$$384h1 \xrightarrow{2} 384h2$$



$$390c1 \xrightarrow{3} 390c3$$

$$\downarrow 2 \qquad \downarrow 2$$

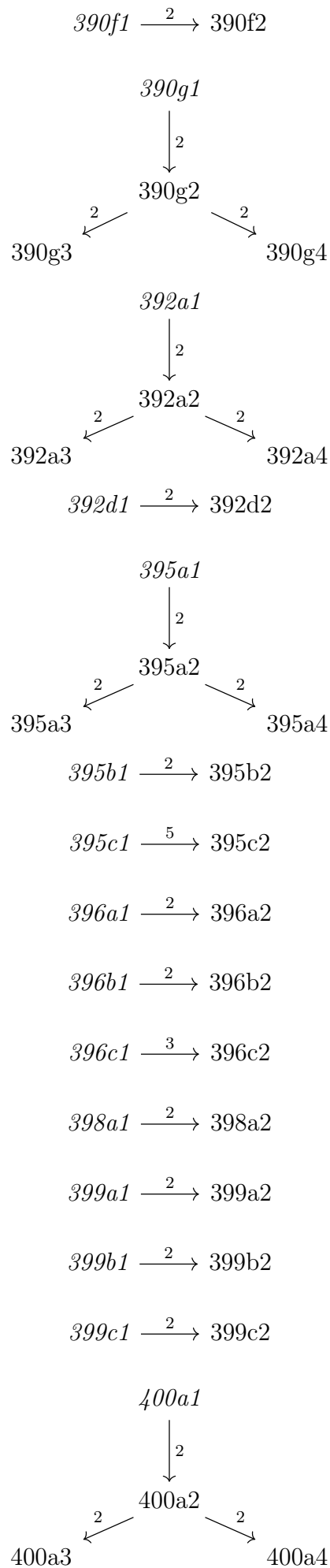
$$390c2 \xrightarrow{3} 390c4$$

$$390d1 \xrightarrow{3} 390d3$$

$$\downarrow 2 \qquad \downarrow 2$$

$$390d2 \xrightarrow{3} 390d4$$

$$390e1 \xrightarrow{2} 390e2$$



$$\begin{array}{ccc} 400b1 & \xrightarrow{5} & 400b3 \\ \downarrow 3 & & \downarrow 3 \\ 400b2 & \xrightarrow{5} & 400b4 \end{array}$$

$$\begin{array}{ccc} 400c1 & \xrightarrow{5} & 400c3 \\ \downarrow 3 & & \downarrow 3 \\ 400c2 & \xrightarrow{5} & 400c4 \end{array}$$

$$400d1 \xrightarrow{2} 400d2$$

$$\begin{array}{ccc} 400e1 & \xrightarrow{3} & 400e3 \\ \downarrow 2 & & \downarrow 2 \\ 400e2 & \xrightarrow{3} & 400e4 \end{array}$$

$$400f1 \xrightarrow{2} 400f2$$

$$\begin{array}{ccc} & 402b1 & \\ & \downarrow 2 & \\ & 402b2 & \\ \swarrow 2 & & \searrow 2 \\ 402b3 & & 402b4 \end{array}$$

$$402c1 \xrightarrow{2} 402c2$$

$$402d1 \xrightarrow{3} 402d2 \xrightarrow{3} 402d3$$

$$404b1 \xrightarrow{3} 404b2$$

$$405a1 \xrightarrow{3} 405a2$$

$$405b1 \xrightarrow{3} 405b2$$

$$405c1 \xrightarrow{7} 405c2$$

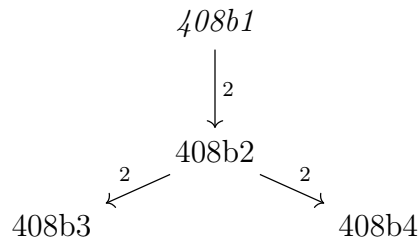
$$405d1 \xrightarrow{7} 405d2$$

$$406a1 \xrightarrow{2} 406a2$$

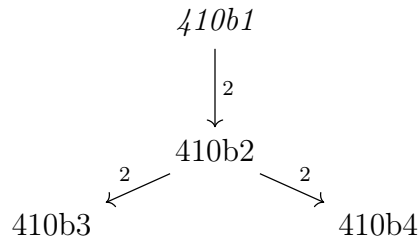
$$406b1 \xrightarrow{3} 406b2$$

$$406d1 \xrightarrow{2} 406d2$$

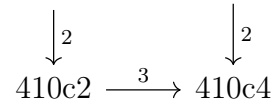
$$408a1 \xrightarrow{2} 408a2$$



$$410a1 \xrightarrow{2} 410a2$$

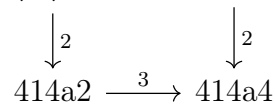


$$410c1 \xrightarrow{3} 410c3$$

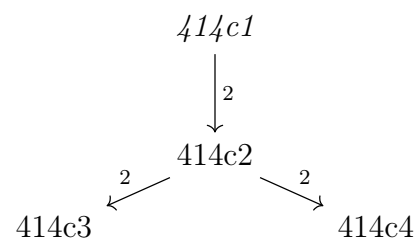


$$410d1 \xrightarrow{2} 410d2$$

$$414a1 \xrightarrow{3} 414a3$$



$$414b1 \xrightarrow{2} 414b2$$



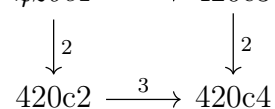
$$414d1 \xrightarrow{2} 414d2$$

$$418a1 \xrightarrow{2} 418a2$$

$$420a1 \xrightarrow{2} 420a2$$

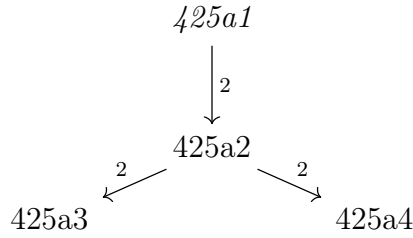
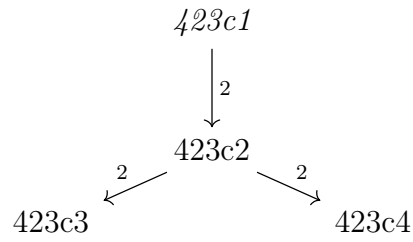
$$420b1 \xrightarrow{2} 420b2$$

$$420c1 \xrightarrow{3} 420c3$$



$$420d1 \xrightarrow{2} 420d2$$

$$423b1 \xrightarrow{2} 423b2$$



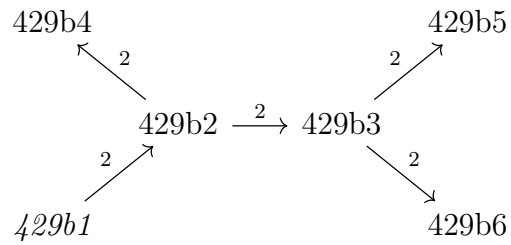
$$425d1 \xrightarrow{2} 425d2$$

$$426a1 \xrightarrow{5} 426a2$$

$$426b1 \xrightarrow{2} 426b2$$

$$426c1 \xrightarrow{3} 426c2$$

$$429a1 \xrightarrow{2} 429a2$$



$$430c1 \xrightarrow{3} 430c2 \xrightarrow{3} 430c3$$

$$432a2 \xleftarrow{3} 432a1 \xrightarrow{3} 432a3 \xrightarrow{3} 432a4$$

$$432b1 \xrightarrow{3} 432b2$$

$$432e1 \xrightarrow{3} 432e2 \xrightarrow{3} 432e3$$

$$432f2 \xleftarrow{3} 432f1 \xrightarrow{3} 432f3$$

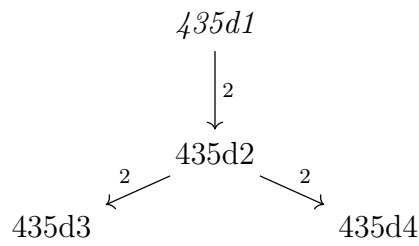
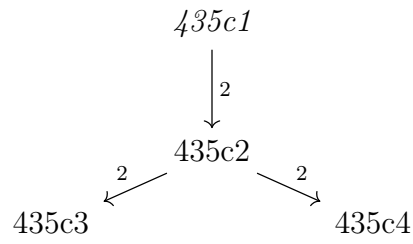
$$434a1 \xrightarrow{2} 434a2$$

$$434b1 \xrightarrow{3} 434b2 \xrightarrow{3} 434b3$$

$$434c1 \xrightarrow{2} 434c2$$

$$434d1 \xrightarrow{2} 434d2$$

$$435a1 \xrightarrow{3} 435a2$$



$$438a1 \xrightarrow{3} 438a3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 438a2 & \xrightarrow{3} & 438a4
 \end{array}$$

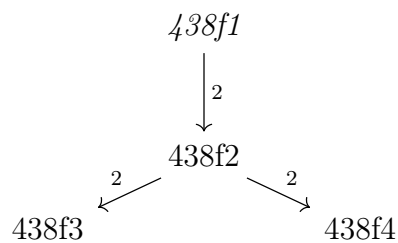
$$438b1 \xrightarrow{2} 438b2$$

$$438c1 \xrightarrow{2} 438c2$$

$$438d1 \xrightarrow{3} 438d3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 438d2 & \xrightarrow{3} & 438d4
 \end{array}$$

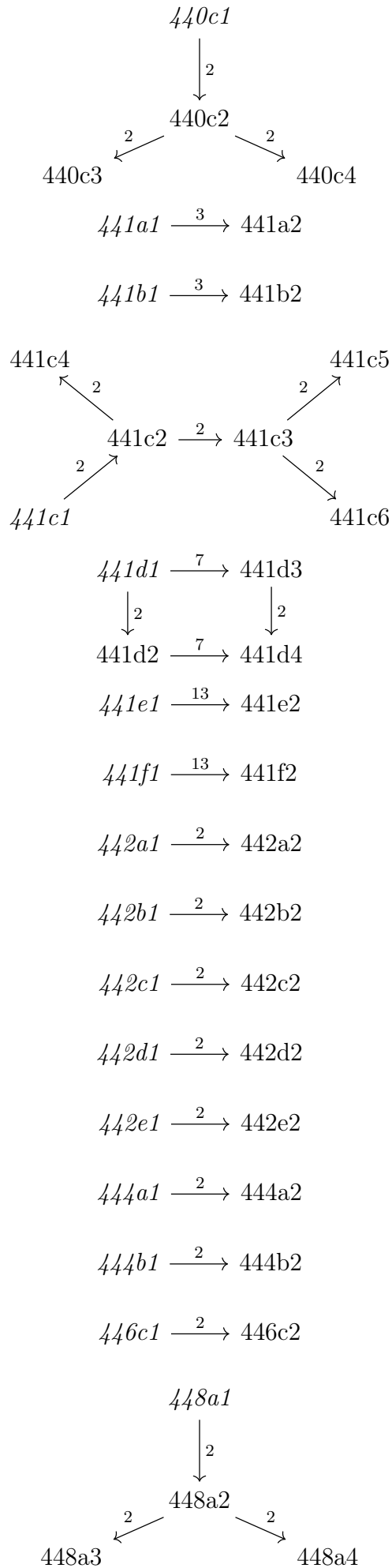
$$438e1 \xrightarrow{2} 438e2$$

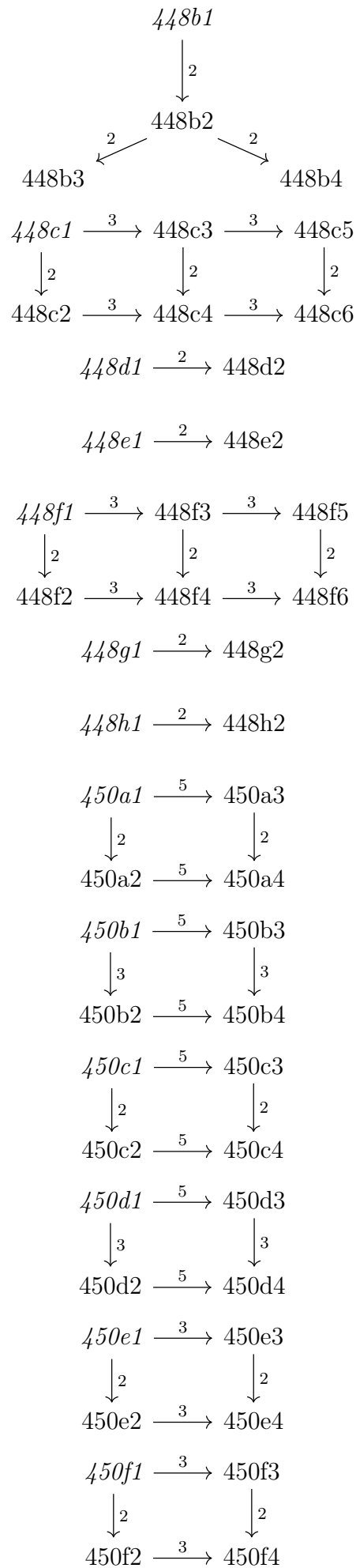


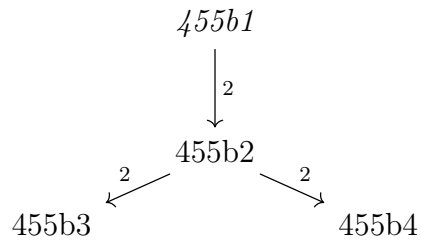
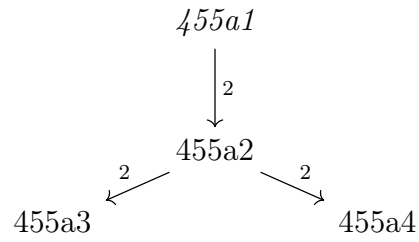
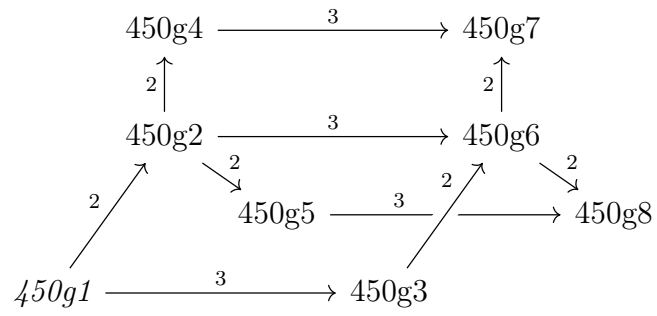
$$438g1 \xrightarrow{2} 438g2$$

$$440a1 \xrightarrow{2} 440a2$$

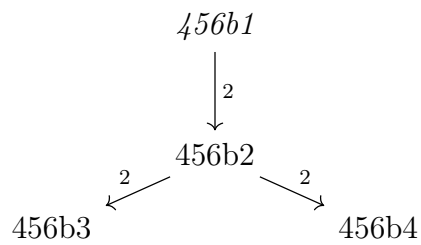
$$440b1 \xrightarrow{2} 440b2$$







$$456a1 \xrightarrow{2} 456a2$$

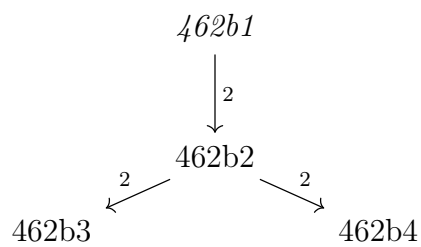


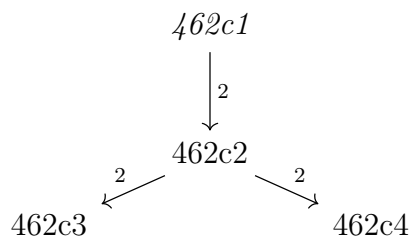
$$459c1 \xrightarrow{3} 459c2$$

$$459f1 \xrightarrow{3} 459f2$$

$$460c1 \xrightarrow{3} 460c2$$

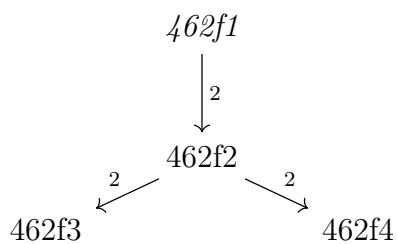
$$462a1 \xrightarrow{2} 462a2$$





$$462d1 \xrightarrow{2} 462d2$$

$$462e1 \xrightarrow{2} 462e2$$



$$462g1 \xrightarrow{3} 462g3$$

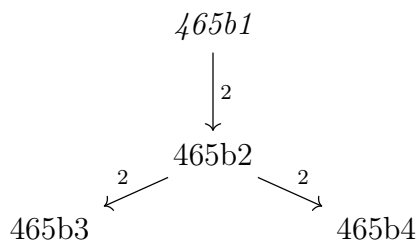
$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 462g2 & \xrightarrow{3} & 462g4
 \end{array}$$

$$464c1 \xrightarrow{5} 464c2$$

$$464d1 \xrightarrow{3} 464d2$$

$$464e2 \xrightarrow{2} 464e1$$

$$465a1 \xrightarrow{2} 465a2$$



$$466a1 \xrightarrow{2} 466a2$$

$$466b1 \xrightarrow{3} 466b2$$

$$468a1 \xrightarrow{2} 468a2$$

$$468b1 \xrightarrow{2} 468b2$$

$$468c1 \xrightarrow{2} 468c2$$

$$\begin{array}{ccc}
 468d1 & \xrightarrow{3} & 468d3 \\
 \downarrow 2 & & \downarrow 2 \\
 468d2 & \xrightarrow{3} & 468d4 \\
 468e1 & \xrightarrow{2} & 468e2 \\
 \\
 470b1 & \xrightarrow{3} & 470b2 \\
 \\
 470d1 & \xrightarrow{3} & 470d2 \\
 \\
 475a1 & \xrightarrow{3} & 475a2 \xrightarrow{3} & 475a3 \\
 \\
 475b1 & \xrightarrow{2} & 475b2 \\
 \\
 475c1 & \xrightarrow{2} & 475c2
 \end{array}$$

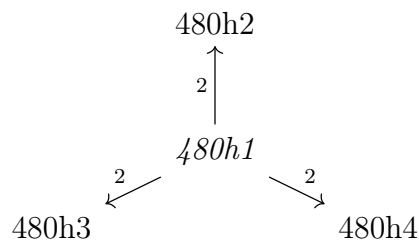
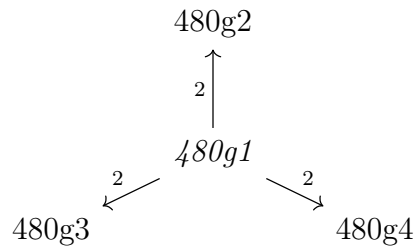
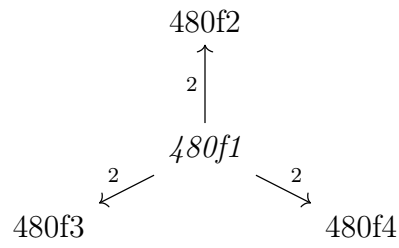
$$\begin{array}{ccc}
 & 480a2 & \\
 & \uparrow 2 & \\
 & 480a1 & \\
 \swarrow 2 & & \searrow 2 \\
 480a3 & & 480a4
 \end{array}$$

$$\begin{array}{ccc}
 & 480b2 & \\
 & \uparrow 2 & \\
 & 480b1 & \\
 \swarrow 2 & & \searrow 2 \\
 480b3 & & 480b4
 \end{array}$$

$$\begin{array}{ccc}
 & 480c2 & \\
 & \uparrow 2 & \\
 & 480c1 & \\
 \swarrow 2 & & \searrow 2 \\
 480c3 & & 480c4
 \end{array}$$

$$\begin{array}{ccc}
 & 480d2 & \\
 & \uparrow 2 & \\
 & 480d1 & \\
 \swarrow 2 & & \searrow 2 \\
 480d3 & & 480d4
 \end{array}$$

$$\begin{array}{ccc}
 & 480e2 & \\
 & \uparrow 2 & \\
 & 480e1 & \\
 \swarrow 2 & & \searrow 2 \\
 480e3 & & 480e4
 \end{array}$$



$$481a1 \xrightarrow{2} 481a2$$

$$484a1 \xrightarrow{3} 484a2$$

$$485a3 \xrightarrow{3} 485a1 \xrightarrow{3} 485a2$$

$$486a1 \xrightarrow{3} 486a2$$

$$486b1 \xrightarrow{3} 486b2$$

$$486c1 \xrightarrow{3} 486c2$$

$$486d1 \xrightarrow{3} 486d2$$

$$486e1 \xrightarrow{3} 486e2$$

$$486f1 \xrightarrow{3} 486f2$$

$$490a1 \xrightarrow{3} 490a2$$

$$490b1 \xrightarrow{3} 490b2$$

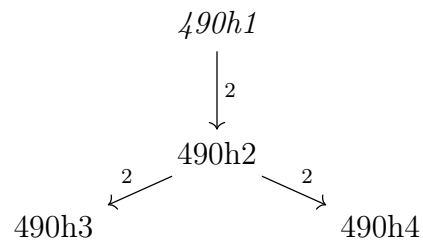
$$490c1 \xrightarrow{3} 490c2$$

$$490d1 \xrightarrow{3} 490d2$$

$$490e1 \xrightarrow{3} 490e2$$

$$490f1 \xrightarrow{7} 490f2$$

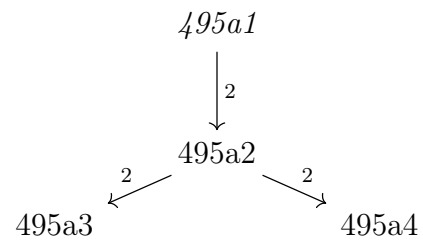
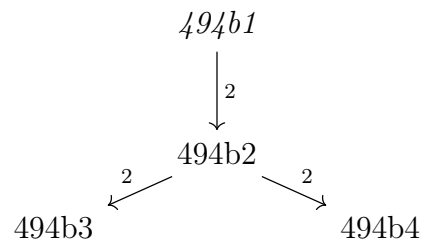
$$490g1 \xrightarrow{2} 490g2$$



$$490i1 \xrightarrow{3} 490i2$$

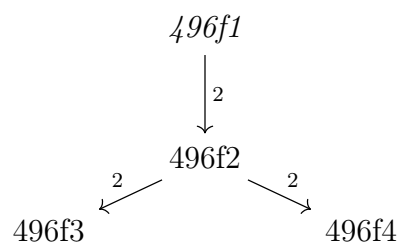
$$490j1 \xrightarrow{2} 490j2$$

$$490k1 \xrightarrow{7} 490k2$$



$$496c1 \xrightarrow{2} 496c2$$

$$496d1 \xrightarrow{3} 496d2$$

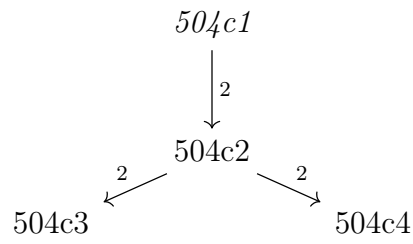


$$498a1 \xrightarrow{2} 498a2$$

$$501a1 \xrightarrow{2} 501a2$$

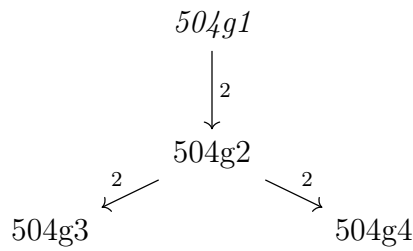
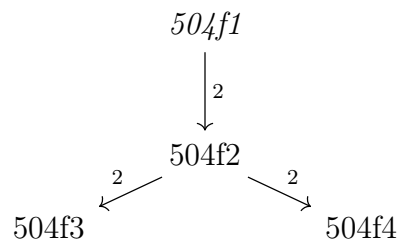
$$504a1 \xrightarrow{2} 504a2$$

$$504b1 \xrightarrow{2} 504b2$$



$$504d1 \xrightarrow{2} 504d2$$

$$504e1 \xrightarrow{2} 504e2$$



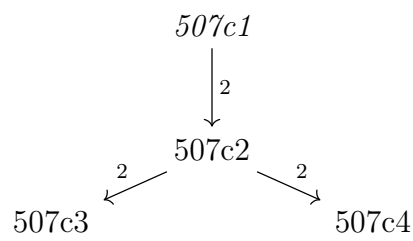
$$504h1 \xrightarrow{2} 504h2$$

$$505a1 \xrightarrow{2} 505a2$$

$$506c1 \xrightarrow{3} 506c2$$

$$507a1 \xrightarrow{7} 507a2$$

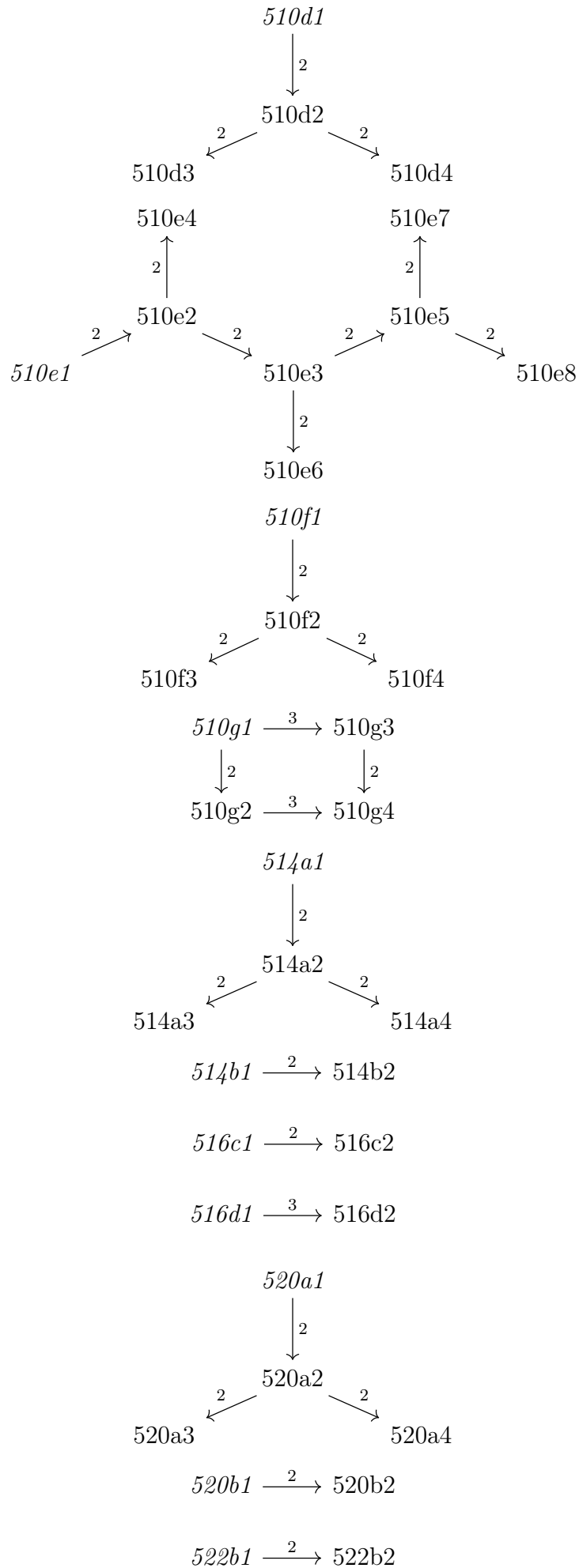
$$507b1 \xrightarrow{7} 507b2$$



$$510a1 \xrightarrow{2} 510a2$$

$$510b1 \xrightarrow{2} 510b2$$

$$510c1 \xrightarrow{2} 510c2$$



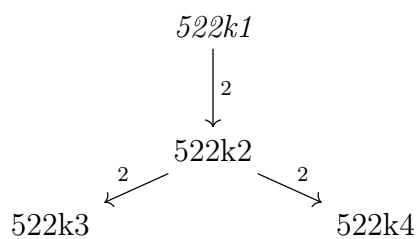
$$522c1 \xrightarrow{3} 522c2$$

$$522d1 \xrightarrow{7} 522d2$$

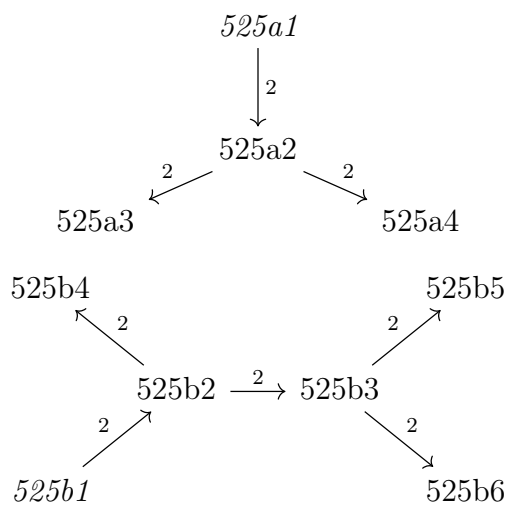
$$522f1 \xrightarrow{5} 522f2$$

$$522g1 \xrightarrow{2} 522g2$$

$$522h1 \xrightarrow{3} 522h2$$



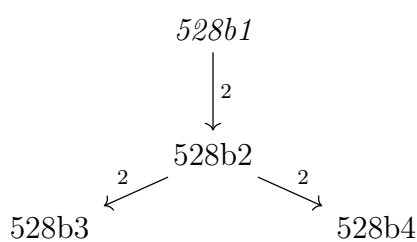
$$522m1 \xrightarrow{3} 522m2$$



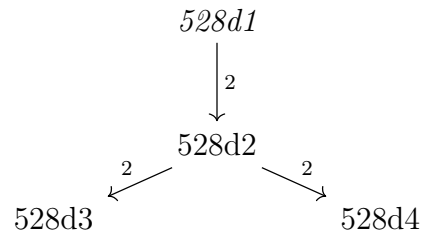
$$525c1 \xrightarrow{2} 525c2$$

$$525d1 \xrightarrow{2} 525d2$$

$$528a1 \xrightarrow{2} 528a2$$



$$528c1 \xrightarrow{2} 528c2$$



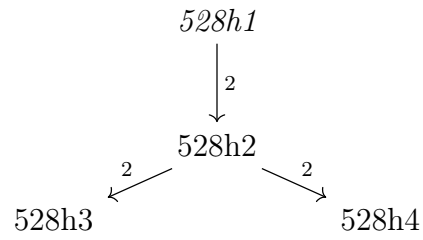
$$528e1 \xrightarrow{2} 528e2$$

$$528f1 \xrightarrow{5} 528f3$$

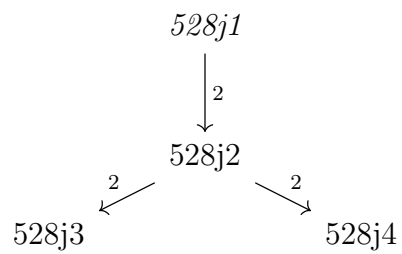
$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 528f2 & \xrightarrow{5} & 528f4
 \end{array}$$

$$528g1 \xrightarrow{3} 528g3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 528g2 & \xrightarrow{3} & 528g4
 \end{array}$$



$$528i1 \xrightarrow{2} 528i2$$



$$530a1 \xrightarrow{3} 530a2$$

$$530b1 \xrightarrow{2} 530b2$$

$$532a1 \xrightarrow{2} 532a2$$

$$534a1 \xrightarrow{2} 534a2$$

$$537c1 \xrightarrow{3} 537c2$$

$$537e1 \xrightarrow{5} 537e2$$

$$539a1 \xrightarrow{3} 539a2 \xrightarrow{3} 539a3$$

$$539c1 \xrightarrow{2} 539c2$$

$$539d1 \xrightarrow{5} 539d2 \xrightarrow{5} 539d3$$

$$540a1 \xrightarrow{3} 540a2$$

$$540b1 \xrightarrow{3} 540b2$$

$$540c1 \xrightarrow{3} 540c2$$

$$540d1 \xrightarrow{3} 540d2$$

$$540e1 \xrightarrow{3} 540e2$$

$$540f1 \xrightarrow{3} 540f2$$

$$542a1 \xrightarrow{2} 542a2$$

$$544a1 \xrightarrow{2} 544a2$$

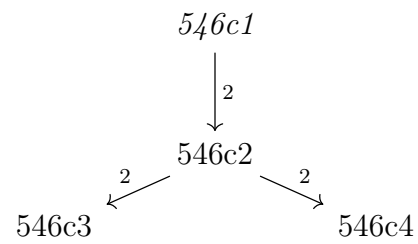
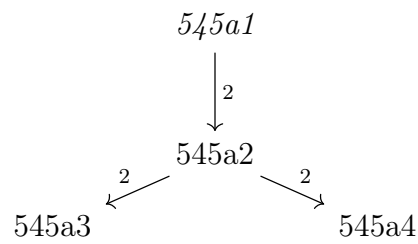
$$544b1 \xrightarrow{2} 544b2$$

$$544c1 \xrightarrow{2} 544c2$$

$$544d1 \xrightarrow{2} 544d2$$

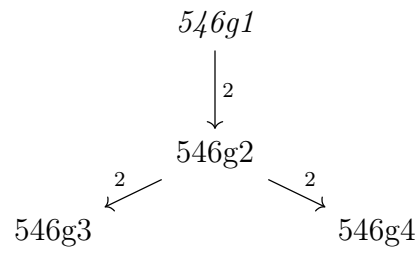
$$544e1 \xrightarrow{2} 544e2$$

$$544f1 \xrightarrow{2} 544f2$$



$$546d1 \xrightarrow{3} 546d2 \xrightarrow{3} 546d3$$

$$546f1 \xrightarrow{7} 546f2$$



$$549a1 \xrightarrow{2} 549a2$$

$$549b1 \xrightarrow{2} 549b2$$

$$550a1 \xrightarrow{3} 550a2$$

$$550b1 \xrightarrow{5} 550b2$$

$$550d1 \xrightarrow{3} 550d2$$

$$550f1 \xrightarrow{5} 550f2 \xrightarrow{5} 550f3$$

$$550g1 \xrightarrow{2} 550g2$$

$$550h1 \xrightarrow{3} 550h2$$

$$550i1 \xrightarrow{3} 550i2$$

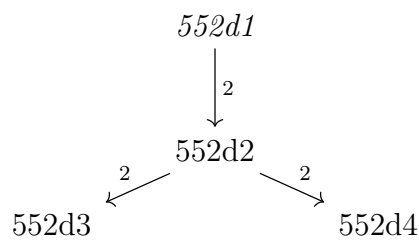
$$550k1 \xrightarrow{5} 550k2 \xrightarrow{5} 550k3$$

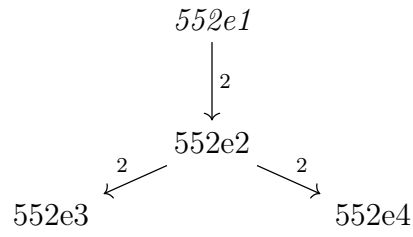
$$550l1 \xrightarrow{2} 550l2$$

$$552a1 \xrightarrow{2} 552a2$$

$$552b1 \xrightarrow{2} 552b2$$

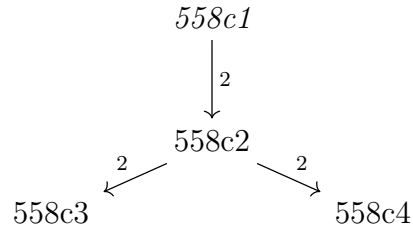
$$552c1 \xrightarrow{2} 552c2$$





$$555b1 \xrightarrow{3} 555b2$$

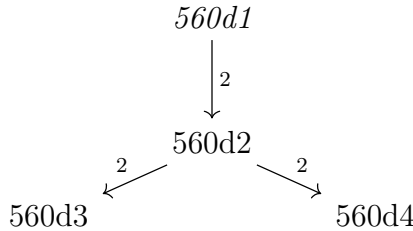
$$558b1 \xrightarrow{3} 558b2$$



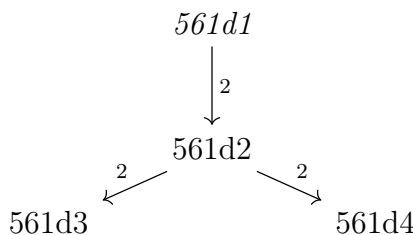
$$558d1 \xrightarrow{5} 558d2$$

$$558f1 \xrightarrow{3} 558f2$$

$$560c1 \xrightarrow{3} 560c2 \xrightarrow{3} 560c3$$



$$560f1 \xrightarrow{3} 560f2$$



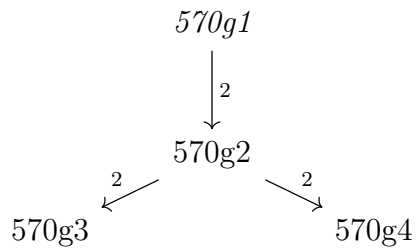
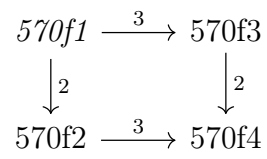
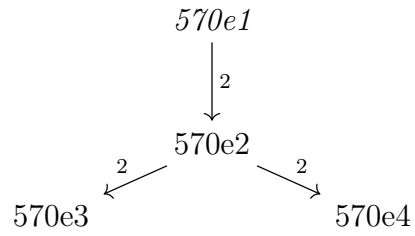
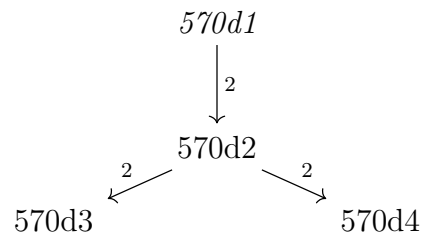
$$562a1 \xrightarrow{2} 562a2$$

$$564b1 \xrightarrow{3} 564b2$$

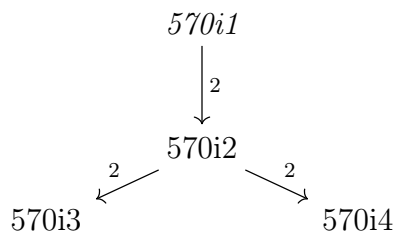
$$570a1 \xrightarrow{2} 570a2$$

$$570b1 \xrightarrow{2} 570b2$$

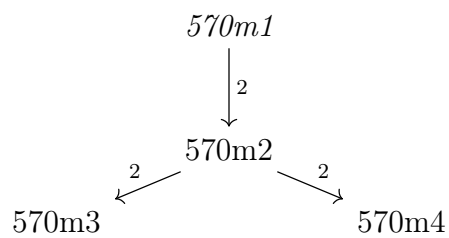
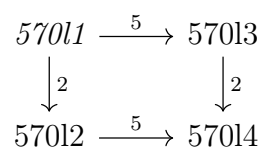
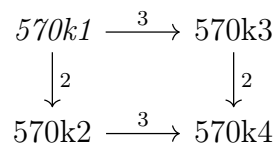
$$570c1 \xrightarrow{2} 570c2$$



$$570h1 \xrightarrow{2} 570h2$$



$$570j1 \xrightarrow{2} 570j2$$



$$572a1 \xrightarrow{3} 572a2$$

$$573a1 \xrightarrow{2} 573a2$$

$$574b1 \xrightarrow{2} 574b2$$

$$574c1 \xrightarrow{2} 574c2$$

$$574d1 \xrightarrow{2} 574d2$$

$$574f1 \xrightarrow{3} 574f2$$

$$574h1 \xrightarrow{2} 574h2$$

$$574i1 \xrightarrow{7} 574i2$$

$$574j1 \xrightarrow{5} 574j2$$

$$576a1 \xrightarrow{3} 576a3$$

$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 576a2 & \xrightarrow{3} & 576a4 \end{array}$$

$$576b1$$

$$\downarrow 2$$

$$576b2$$

$$\swarrow 2$$

$$576b3$$

$$\searrow 2$$

$$576b4$$

$$576c1$$

$$\downarrow 2$$

$$576c2$$

$$\swarrow 2$$

$$576c3$$

$$\searrow 2$$

$$576c4$$

$$576d3$$

$$\swarrow 2$$

$$576d2$$

$$\xrightarrow{2}$$

$$576d4$$

$$576d5$$

$$\swarrow 2$$

$$576d1$$

$$\nearrow 2$$

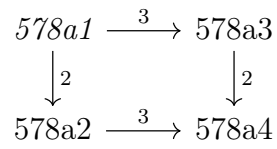
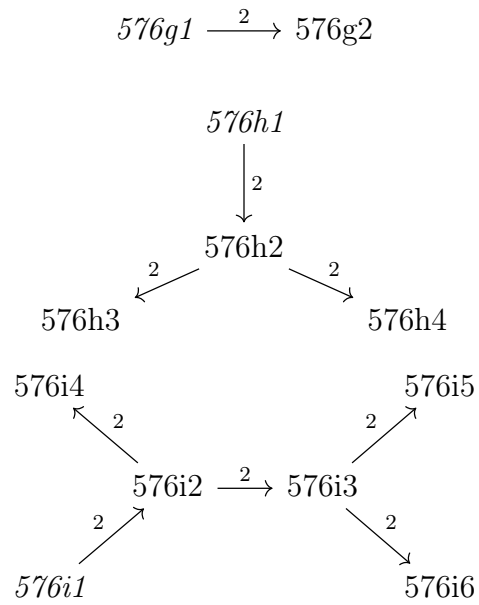
$$576d6$$

$$\searrow 2$$

$$576e1 \xrightarrow{3} 576e3$$

$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 576e2 & \xrightarrow{3} & 576e4 \end{array}$$

$$576f1 \xrightarrow{2} 576f2$$



$$579b1 \xrightarrow{2} 579b2$$

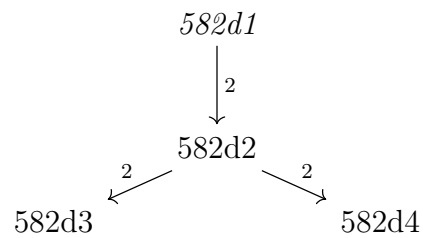
$$580a1 \xrightarrow{2} 580a2$$

$$580b1 \xrightarrow{2} 580b2$$

$$582a1 \xrightarrow{2} 582a2$$

$$582b1 \xrightarrow{2} 582b2$$

$$582c1 \xrightarrow{2} 582c2$$

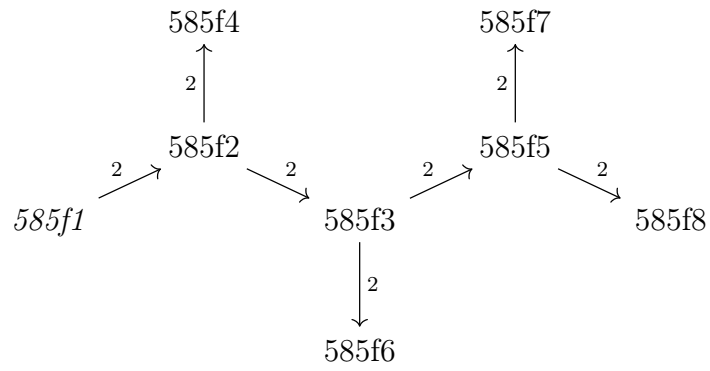


$$585a1 \xrightarrow{2} 585a2$$

$$585b1 \xrightarrow{3} 585b2$$

$$585c1 \xrightarrow{2} 585c2$$

$$585d1 \xrightarrow{3} 585d2$$



$$585h1 \xrightarrow{2} 585h2$$

$$588b1 \xrightarrow{3} 588b3$$

$$\downarrow 2 \qquad \qquad \downarrow 2$$

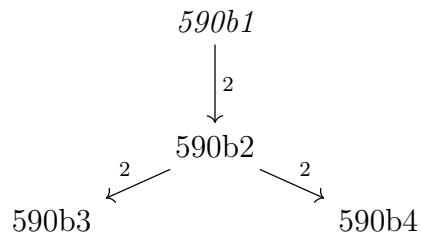
$$588b2 \xrightarrow{3} 588b4$$

$$588c1 \xrightarrow{2} 588c2$$

$$588e1 \xrightarrow{2} 588e2$$

$$588f1 \xrightarrow{2} 588f2$$

$$590a1 \xrightarrow{3} 590a2$$



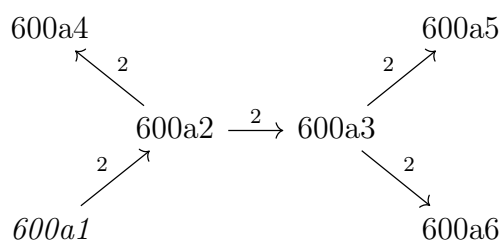
$$592e1 \xrightarrow{3} 592e2 \xrightarrow{3} 592e3$$

$$593b2 \xrightarrow{2} 593b1$$

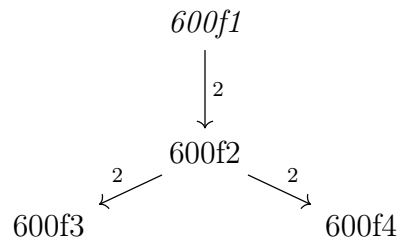
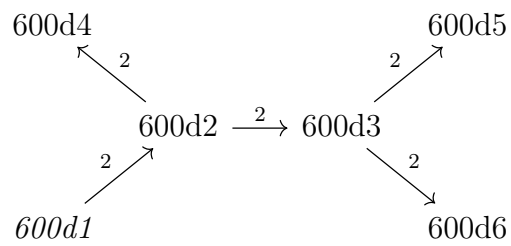
$$594c1 \xrightarrow{3} 594c2$$

$$594h1 \xrightarrow{3} 594h2$$

$$598a1 \xrightarrow{2} 598a2$$



$$600c1 \xrightarrow{2} 600c2$$

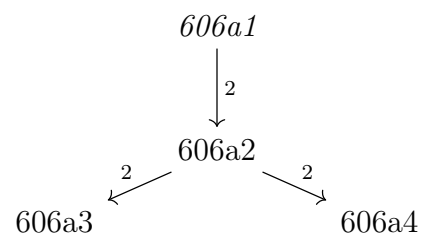
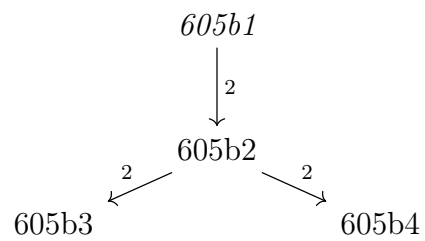


$$600h1 \xrightarrow{2} 600h2$$

$$602a1 \xrightarrow{2} 602a2$$

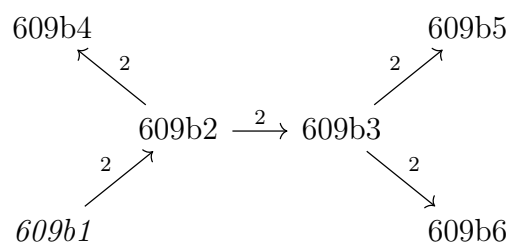
$$603a1 \xrightarrow{2} 603a2$$

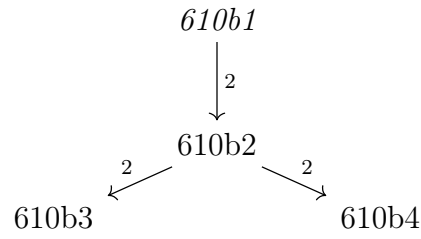
$$603b1 \xrightarrow{2} 603b2$$



$$606f1 \xrightarrow{5} 606f2$$

$$609a1 \xrightarrow{2} 609a2$$





$$610c1 \xrightarrow{2} 610c2$$

$$612a1 \xrightarrow{3} 612a2$$

$$612b1 \xrightarrow{3} 612b2$$

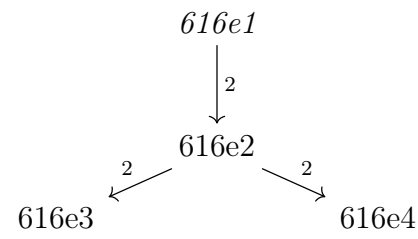
$$614b1 \xrightarrow{3} 614b2$$

$$615a1 \xrightarrow{2} 615a2$$

$$616a1 \xrightarrow{2} 616a2$$

$$616b1 \xrightarrow{2} 616b2$$

$$616c1 \xrightarrow{2} 616c2$$



$$618c1 \xrightarrow{3} 618c2$$

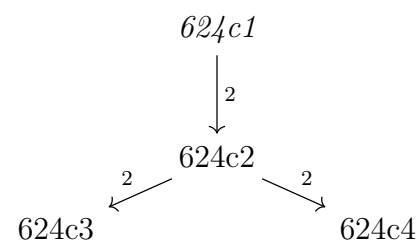
$$618d1 \xrightarrow{3} 618d2$$

$$620a1 \xrightarrow{3} 620a2$$

$$620b1 \xrightarrow{2} 620b2$$

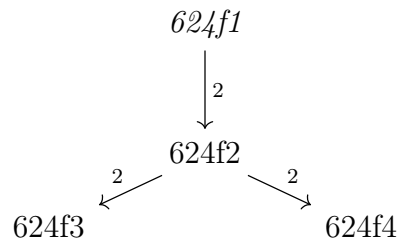
$$624a1 \xrightarrow{2} 624a2$$

$$624b1 \xrightarrow{2} 624b2$$



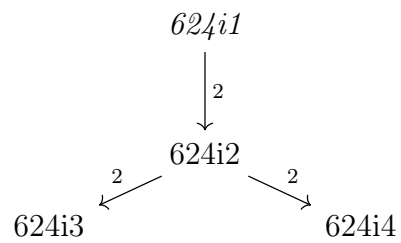
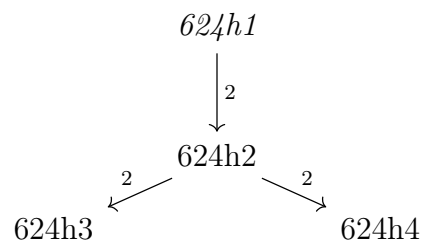
$$624d1 \xrightarrow{2} 624d2$$

$$624e1 \xrightarrow{2} 624e2$$



$$624g1 \xrightarrow{3} 624g3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 624g2 & \xrightarrow{3} & 624g4
 \end{array}$$



$$624j1 \xrightarrow{2} 624j2$$

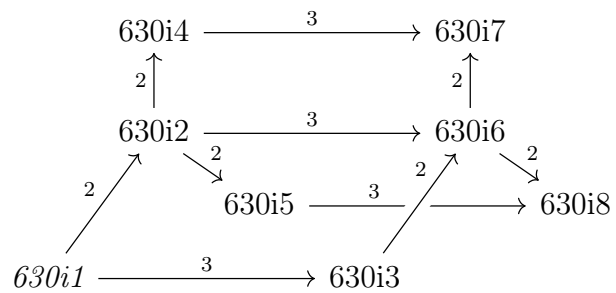
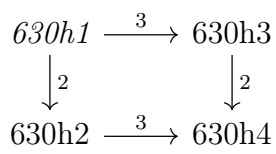
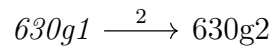
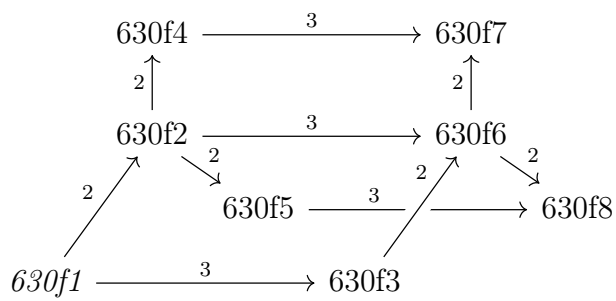
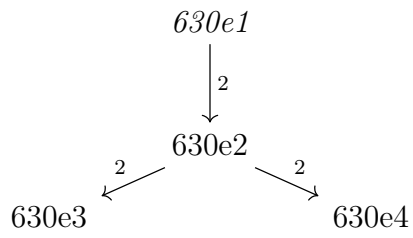
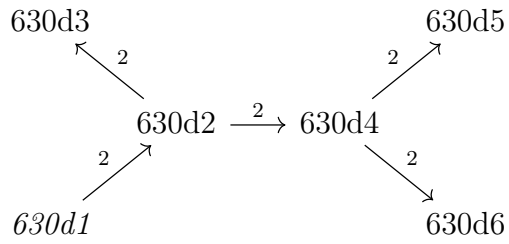
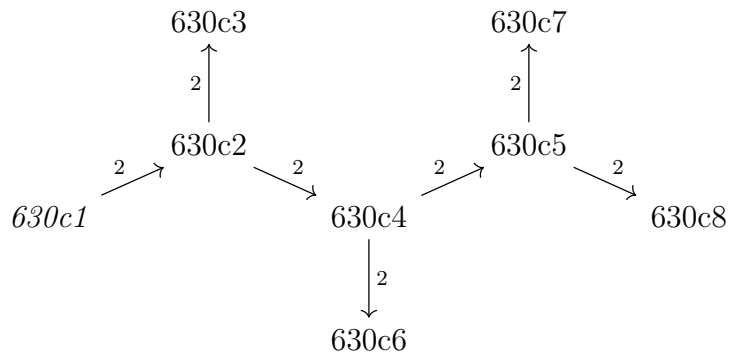
$$626a1 \xrightarrow{2} 626a2$$

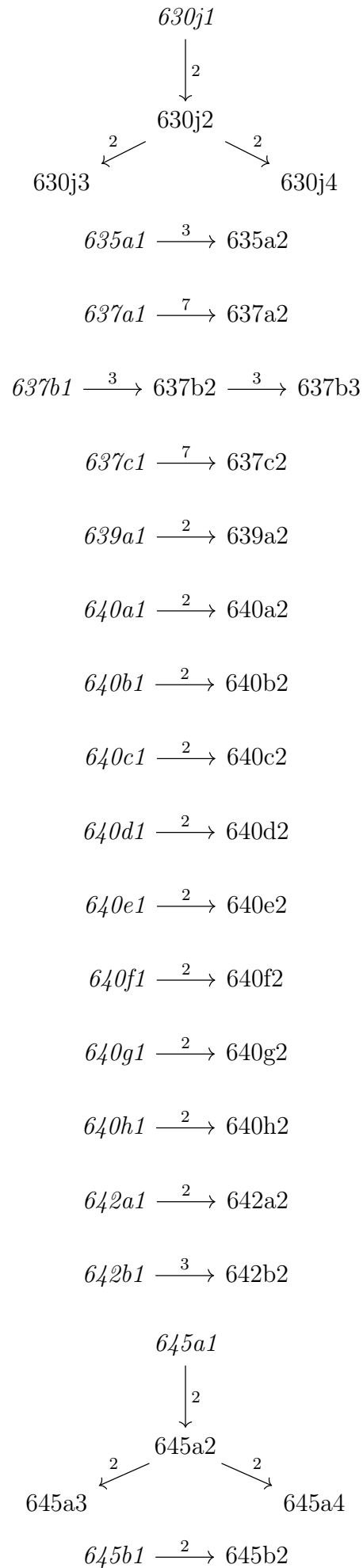
$$627b1 \xrightarrow{3} 627b2$$

$$630a1 \xrightarrow{3} 630a3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 630a2 & \xrightarrow{3} & 630a4
 \end{array}$$

$$630b1 \xrightarrow{2} 630b2$$





$$646a1 \xrightarrow{2} 646a2$$

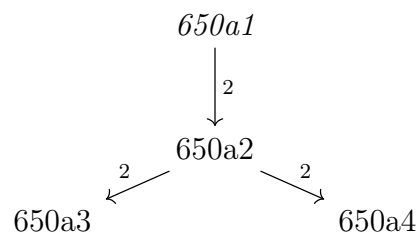
$$646b1 \xrightarrow{2} 646b2$$

$$646c1 \xrightarrow{2} 646c2$$

$$646d1 \xrightarrow{2} 646d2$$

$$646e1 \xrightarrow{3} 646e3$$

$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 646e2 & \xrightarrow{3} & 646e4 \end{array}$$



$$650b1 \xrightarrow{3} 650b2$$

$$650e1 \xrightarrow{2} 650e2$$

$$650f1 \xrightarrow{7} 650f2$$

$$650g1 \xrightarrow{3} 650g2$$

$$650h1 \xrightarrow{3} 650h2 \xrightarrow{3} 650h3$$

$$650i1 \xrightarrow{3} 650i2$$

$$650j1 \xrightarrow{3} 650j3$$

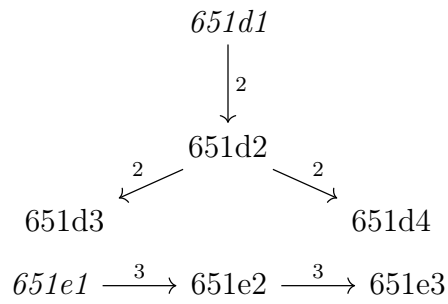
$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 650j2 & \xrightarrow{3} & 650j4 \end{array}$$

$$650l1 \xrightarrow{3} 650l2$$

$$651a1 \xrightarrow{2} 651a2$$

$$651b1 \xrightarrow{2} 651b2$$

$$651c1 \xrightarrow{2} 651c2$$



$$656a1 \xrightarrow{2} 656a2$$

$$656b1 \xrightarrow{2} 656b2$$

$$656c1 \xrightarrow{2} 656c2$$

$$657a1 \xrightarrow{2} 657a2$$

$$657c1 \xrightarrow{3} 657c2$$

$$657d1 \xrightarrow{2} 657d2$$

$$658b1 \xrightarrow{2} 658b2$$

$$658c1 \xrightarrow{3} 658c2$$

$$658e1 \xrightarrow{2} 658e2$$

$$660a1 \xrightarrow{2} 660a2$$

$$660b1 \xrightarrow{2} 660b2$$

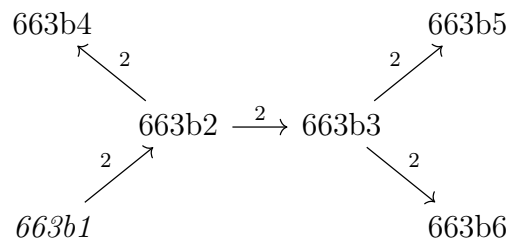
$$660c1 \xrightarrow{3} 660c3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 660c2 & \xrightarrow{3} & 660c4
 \end{array}$$

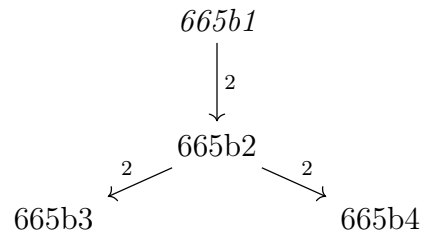
$$660d1 \xrightarrow{3} 660d3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 660d2 & \xrightarrow{3} & 660d4
 \end{array}$$

$$663a1 \xrightarrow{2} 663a2$$

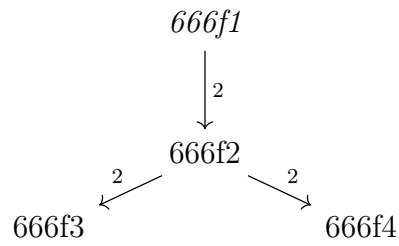


$$663c1 \xrightarrow{2} 663c2$$



$$665d1 \xrightarrow{5} 665d2$$

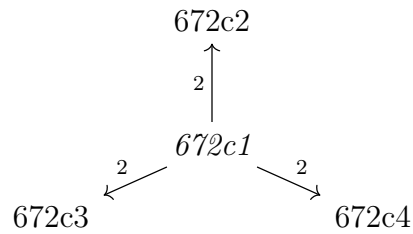
$$666c1 \xrightarrow{3} 666c2$$



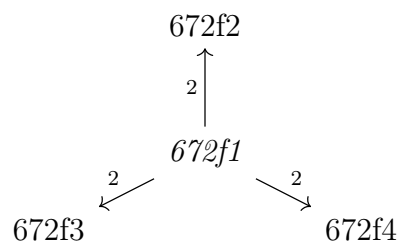
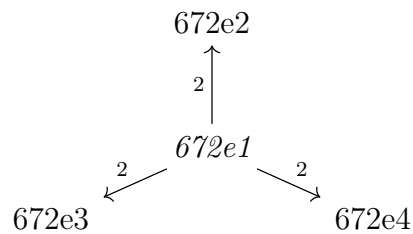
$$670b1 \xrightarrow{3} 670b2$$

$$672a1 \xrightarrow{2} 672a2$$

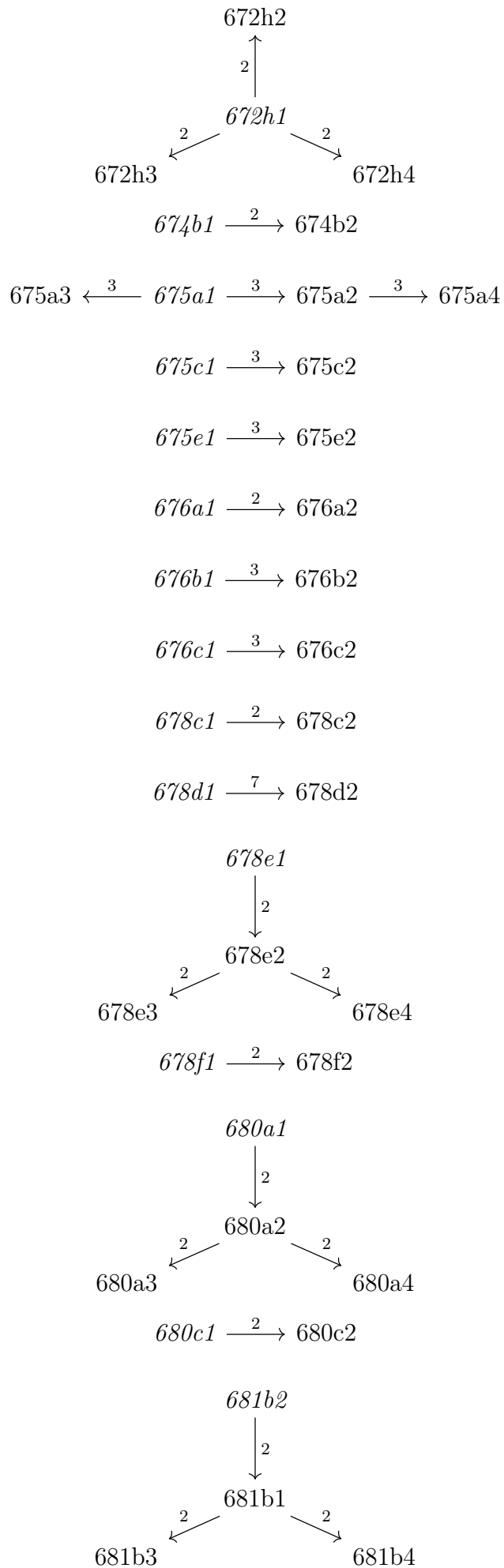
$$672b1 \xrightarrow{2} 672b2$$



$$672d1 \xrightarrow{2} 672d2$$



$$672g1 \xrightarrow{2} 672g2$$



$$682a1 \xrightarrow{3} 682a2 \xrightarrow{3} 682a3$$

$$684b1 \xrightarrow{2} 684b2$$

$$688b1 \xrightarrow{3} 688b2$$

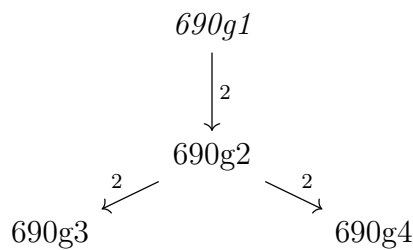
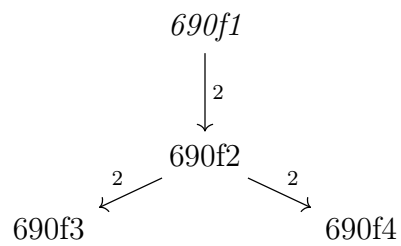
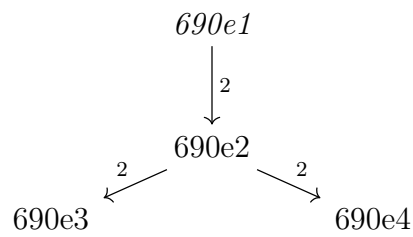
$$689a1 \xrightarrow{2} 689a2$$

$$690a1 \xrightarrow{2} 690a2$$

$$690b1 \xrightarrow{2} 690b2$$

$$690c1 \xrightarrow{2} 690c2$$

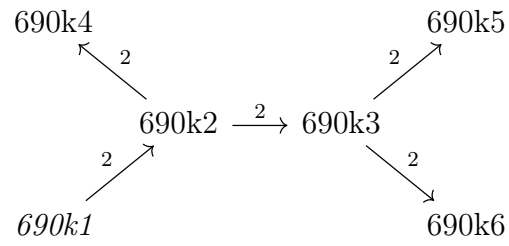
$$690d1 \xrightarrow{2} 690d2$$



$$690h1 \xrightarrow{2} 690h2$$

$$690i1 \xrightarrow{2} 690i2$$

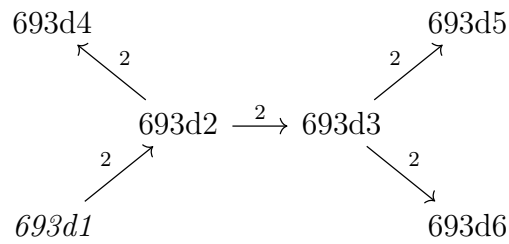
$$690j1 \xrightarrow{2} 690j2$$



$$692a2 \xrightarrow{2} 692a1$$

$$693a1 \xrightarrow{2} 693a2$$

$$693c1 \xrightarrow{3} 693c2 \xrightarrow{3} 693c3$$



$$700a1 \xrightarrow{3} 700a2$$

$$700b1 \xrightarrow{3} 700b2$$

$$700e1 \xrightarrow{2} 700e2$$

$$700h1 \xrightarrow{2} 700h2$$

$$700i1 \xrightarrow{3} 700i2$$

$$702e2 \xleftarrow{3} 702e1 \xrightarrow{3} 702e3$$

$$702h1 \xrightarrow{3} 702h2 \xrightarrow{3} 702h3$$

$$702n3 \xleftarrow{3} 702n1 \xrightarrow{3} 702n2$$

$$702p1 \xrightarrow{3} 702p2 \xrightarrow{3} 702p3$$

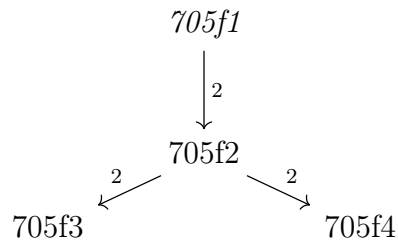
$$704a1 \xrightarrow{5} 704a2 \xrightarrow{5} 704a3$$

$$704d1 \xrightarrow{3} 704d2$$

$$704f1 \xrightarrow{3} 704f2$$

$$704k1 \xrightarrow{5} 704k2 \xrightarrow{5} 704k3$$

$$705c1 \xrightarrow{3} 705c2$$



$$706c1 \xrightarrow{2} 706c2$$

$$706d1 \xrightarrow{2} 706d2$$

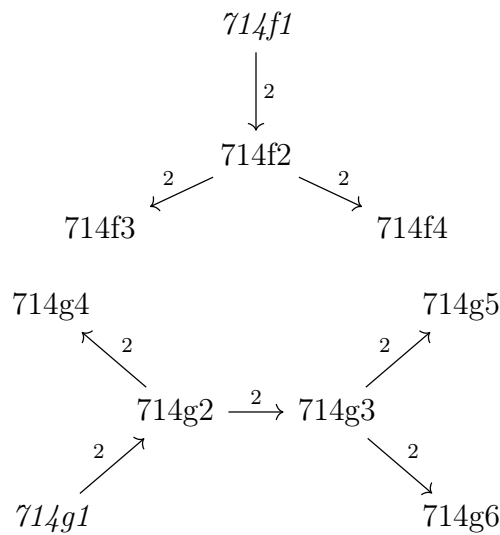
$$708a1 \xrightarrow{2} 708a2$$

$$710d1 \xrightarrow{5} 710d2$$

$$712a1 \xrightarrow{2} 712a2$$

$$714a1 \xrightarrow{2} 714a2$$

$$714d1 \xrightarrow{2} 714d2$$

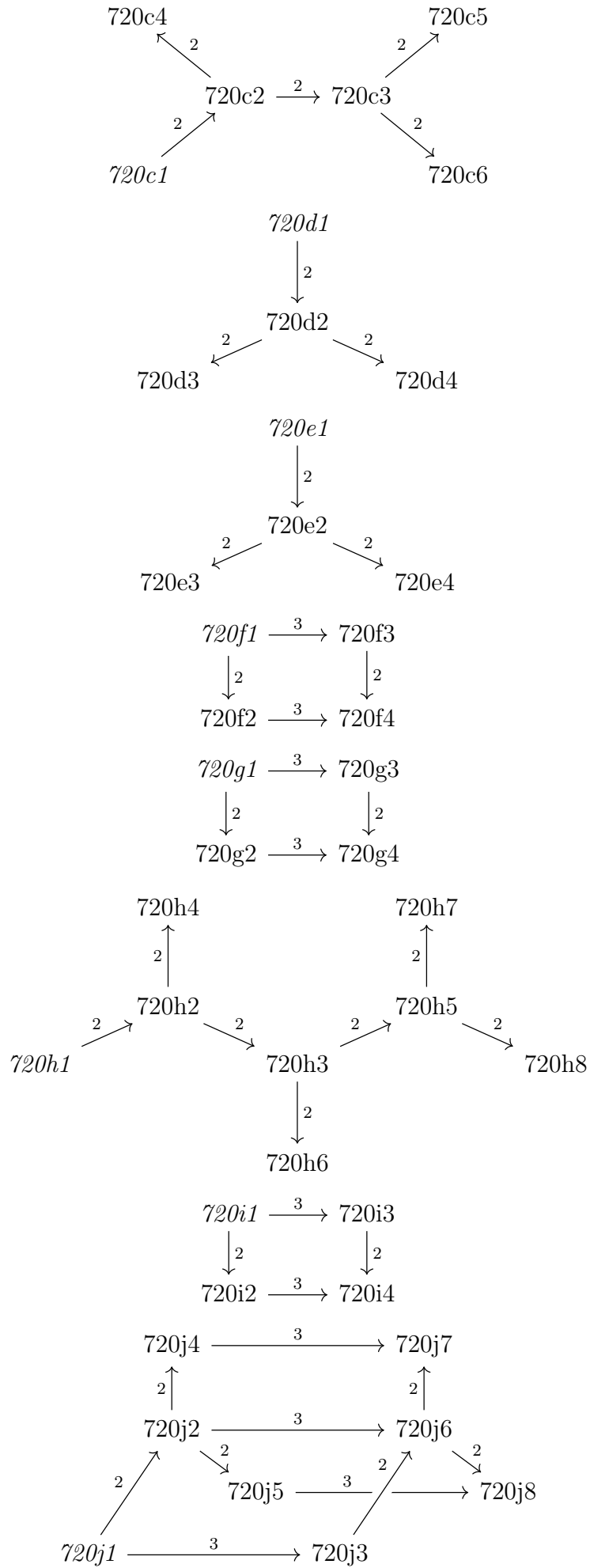


$$714i1 \xrightarrow{3} 714i2 \xrightarrow{3} 714i3$$

$$715a1 \xrightarrow{3} 715a2$$

$$720a1 \xrightarrow{2} 720a2$$

$$720b1 \xrightarrow{2} 720b2$$



$$722a1 \xrightarrow{3} 722a2$$

$$722c1 \xrightarrow{5} 722c2$$

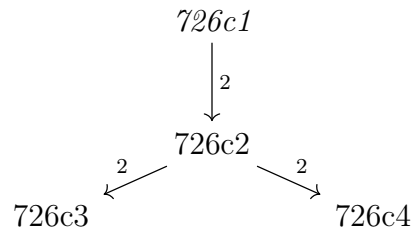
$$722e1 \xrightarrow{3} 722e2 \xrightarrow{3} 722e3$$

$$722f1 \xrightarrow{3} 722f2$$

$$723a1 \xrightarrow{2} 723a2$$

$$725a1 \xrightarrow{2} 725a2$$

$$726a1 \xrightarrow{2} 726a2$$



$$726e1 \xrightarrow{5} 726e3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 726e2 & \xrightarrow{5} & 726e4
 \end{array}$$

$$726f1 \xrightarrow{2} 726f2$$

$$726h1 \xrightarrow{3} 726h3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 726h2 & \xrightarrow{3} & 726h4
 \end{array}$$

$$730a1 \xrightarrow{2} 730a2$$

$$730b1 \xrightarrow{3} 730b2$$

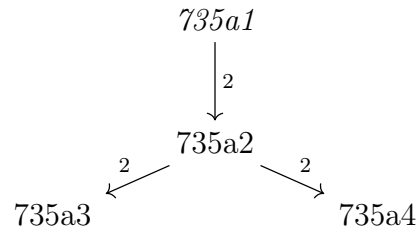
$$730f1 \xrightarrow{2} 730f2$$

$$730k1 \xrightarrow{3} 730k2$$

$$732a1 \xrightarrow{2} 732a2$$

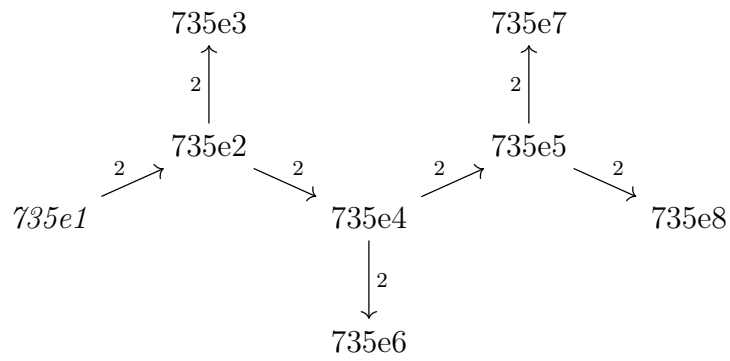
$$732c1 \xrightarrow{2} 732c2$$

$$734a1 \xrightarrow{2} 734a2$$

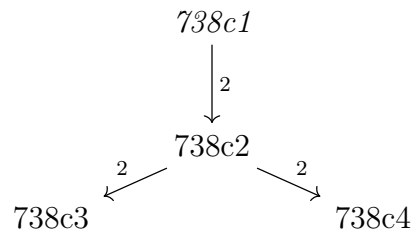


$$735c1 \xrightarrow{3} 735c2$$

$$735d1 \xrightarrow{3} 735d2$$



$$738b1 \xrightarrow{5} 738b2$$



$$738g1 \xrightarrow{2} 738g2$$

$$738h1 \xrightarrow{2} 738h2$$

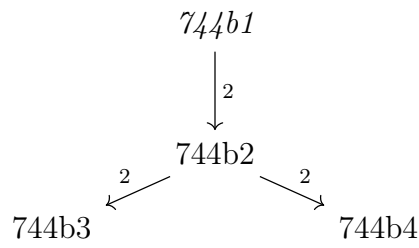
$$738i1 \xrightarrow{2} 738i2$$

$$738j1 \xrightarrow{3} 738j2$$

$$740b1 \xrightarrow{3} 740b2$$

$$742b1 \xrightarrow{2} 742b2$$

$$742e1 \xrightarrow{2} 742e2$$



$$747a1 \xrightarrow{2} 747a2$$

$$747b1 \xrightarrow{2} 747b2$$

$$752a1 \xrightarrow{2} 752a2$$

$$753b1 \xrightarrow{3} 753b2$$

$$754a1 \xrightarrow{3} 754a2$$

$$754c1 \xrightarrow{2} 754c2$$

$$755c1 \xrightarrow{2} 755c2$$

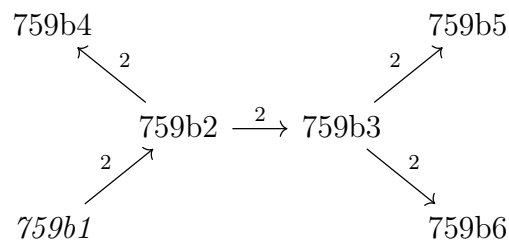
$$756b1 \xrightarrow{3} 756b2$$

$$756d1 \xrightarrow{3} 756d2$$

$$756e1 \xrightarrow{3} 756e2$$

$$756f1 \xrightarrow{3} 756f2$$

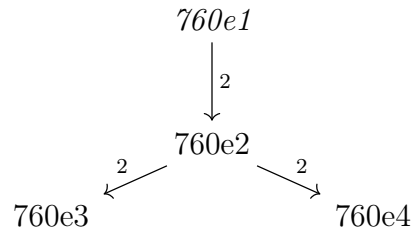
$$759a1 \xrightarrow{2} 759a2$$



$$760a1 \xrightarrow{2} 760a2$$

$$760b1 \xrightarrow{2} 760b2$$

$$760d1 \xrightarrow{2} 760d2$$



$$762f1 \xrightarrow{3} 762f2$$

$$762g1 \xrightarrow{7} 762g2$$

$$765a1 \xrightarrow{2} 765a2$$

$$765b1 \xrightarrow{2} 765b2$$

$$765c1 \xrightarrow{2} 765c2$$

$$768a1 \xrightarrow{2} 768a2$$

$$768b1 \xrightarrow{5} 768b3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 768b2 & \xrightarrow{5} & 768b4
 \end{array}$$

$$768c1 \xrightarrow{2} 768c2$$

$$768d1 \xrightarrow{5} 768d3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 768d2 & \xrightarrow{5} & 768d4
 \end{array}$$

$$768e1 \xrightarrow{2} 768e2$$

$$768f1 \xrightarrow{5} 768f3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 768f2 & \xrightarrow{5} & 768f4
 \end{array}$$

$$768g1 \xrightarrow{2} 768g2$$

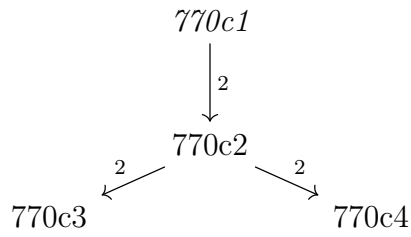
$$768h1 \xrightarrow{5} 768h3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 768h2 & \xrightarrow{5} & 768h4
 \end{array}$$

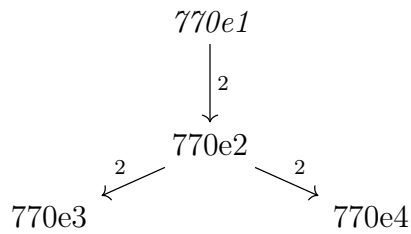
$$770a1 \xrightarrow{2} 770a2$$

$$770b1 \xrightarrow{3} 770b3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 770b2 & \xrightarrow{3} & 770b4
 \end{array}$$



$$770d1 \xrightarrow{2} 770d2$$



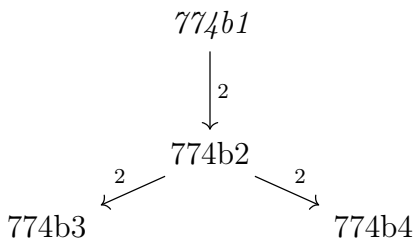
$$770f1 \xrightarrow{3} 770f3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 770f2 & \xrightarrow{3} & 770f4
 \end{array}$$

$$770g1 \xrightarrow{3} 770g3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 770g2 & \xrightarrow{3} & 770g4
 \end{array}$$

$$774a1 \xrightarrow{3} 774a2$$



$$774d1 \xrightarrow{7} 774d2$$

$$774e1 \xrightarrow{2} 774e2$$

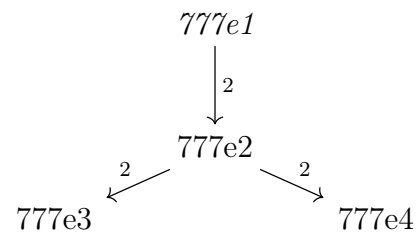
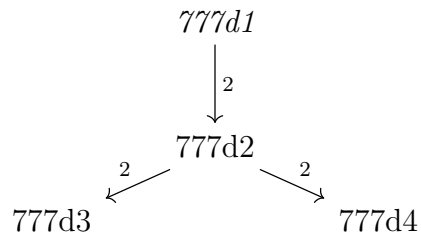
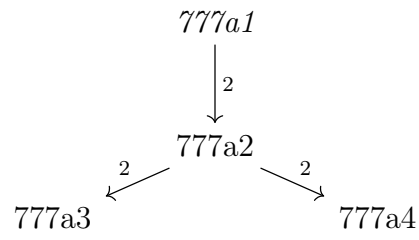
$$774f1 \xrightarrow{3} 774f2$$

$$774h1 \xrightarrow{2} 774h2$$

$$775b1 \xrightarrow{2} 775b2$$

$$775c1 \xrightarrow{5} 775c2$$

$$776a1 \xrightarrow{2} 776a2$$



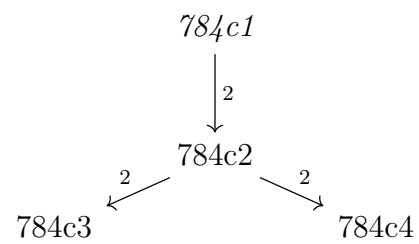
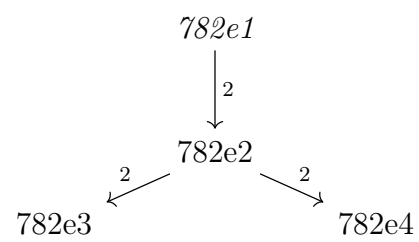
$$780a1 \xrightarrow{2} 780a2$$

$$780c1 \xrightarrow{2} 780c2$$

$$780d1 \xrightarrow{3} 780d2$$

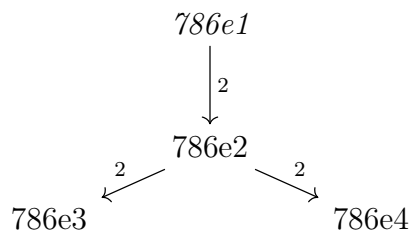
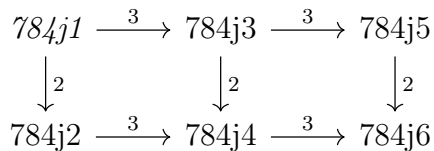
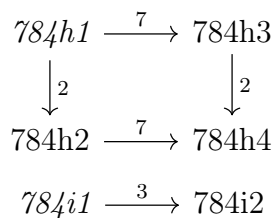
$$782a1 \xrightarrow{2} 782a2$$

$$782c1 \xrightarrow{2} 782c2$$



$$784e1 \xrightarrow{2} 784e2$$

$$784g1 \xrightarrow{3} 784g2$$



$$786f1 \xrightarrow{3} 786f2$$

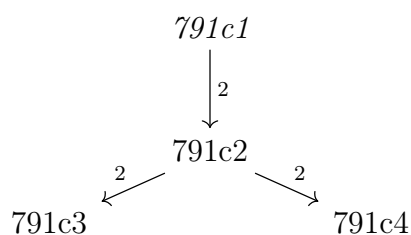
$$786i1 \xrightarrow{2} 786i2$$

$$786m1 \xrightarrow{5} 786m2$$

$$790a1 \xrightarrow{2} 790a2$$

$$791a1 \xrightarrow{2} 791a2$$

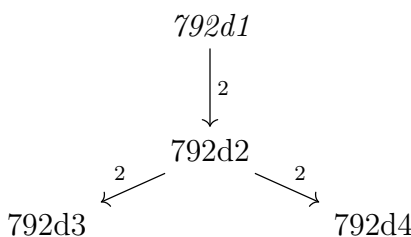
$$791b1 \xrightarrow{2} 791b2$$

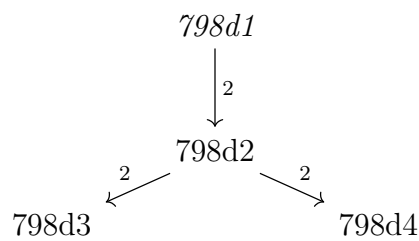
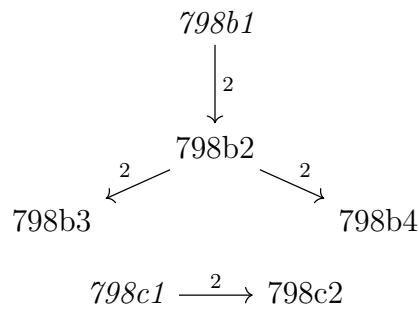
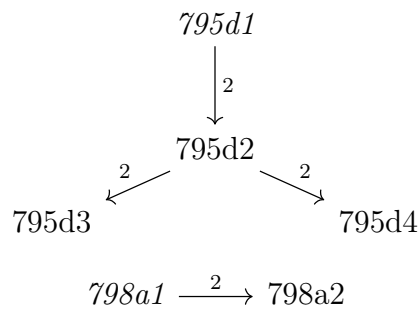
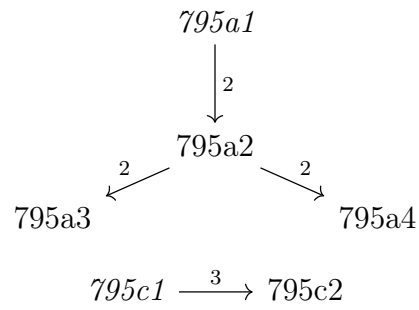
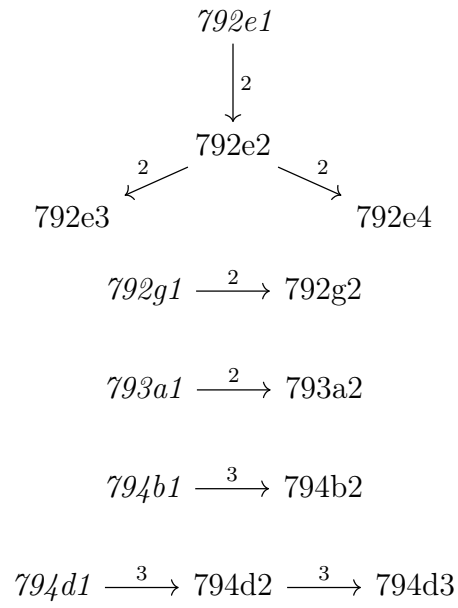


$$792a1 \xrightarrow{2} 792a2$$

$$792b1 \xrightarrow{2} 792b2$$

$$792c1 \xrightarrow{2} 792c2$$





$$\begin{array}{ccccc} 798e1 & \xrightarrow{3} & 798e3 & \xrightarrow{3} & 798e5 \\ \downarrow 2 & & \downarrow 2 & & \downarrow 2 \\ 798e2 & \xrightarrow{3} & 798e4 & \xrightarrow{3} & 798e6 \end{array}$$

$$798f1 \xrightarrow{2} 798f2$$

$$798g1 \xrightarrow{2} 798g2$$

$$798h1 \xrightarrow{2} 798h2$$

$$\begin{array}{ccc} & 798i1 & \\ & \downarrow 2 & \\ & 798i2 & \\ \swarrow 2 & & \searrow 2 \\ 798i3 & & 798i4 \end{array}$$

$$799a1 \xrightarrow{2} 799a2$$

$$799b1 \xrightarrow{2} 799b2$$

$$\begin{array}{ccc} & 800a2 & \\ & \uparrow 2 & \\ & 800a1 & \\ \swarrow 2 & & \searrow 2 \\ 800a3 & & 800a4 \end{array}$$

$$800c1 \xrightarrow{2} 800c2$$

$$800d1 \xrightarrow{2} 800d2$$

$$800g1 \xrightarrow{2} 800g2$$

$$800h1 \xrightarrow{2} 800h2$$

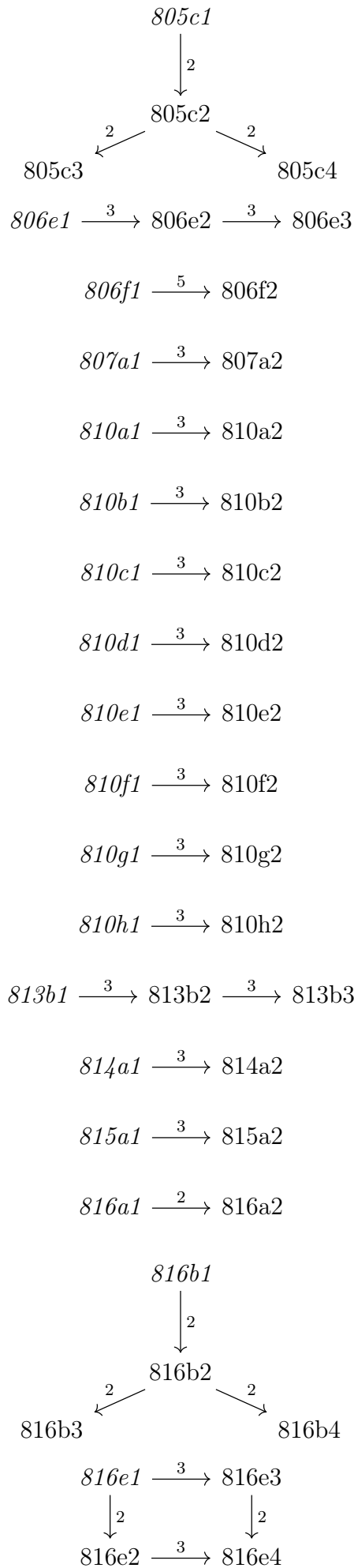
$$801b1 \xrightarrow{2} 801b2$$

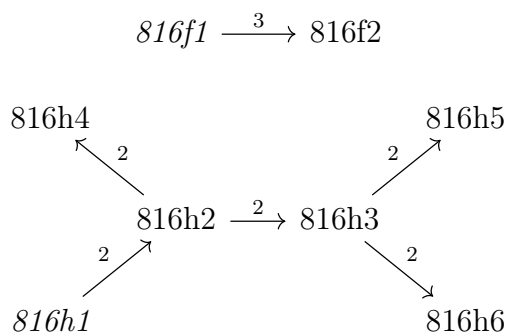
$$801c1 \xrightarrow{3} 801c2$$

$$802b1 \xrightarrow{2} 802b2$$

$$804a1 \xrightarrow{2} 804a2$$

$$805b1 \xrightarrow{2} 805b2$$





$$816j1 \xrightarrow{2} 816j2$$

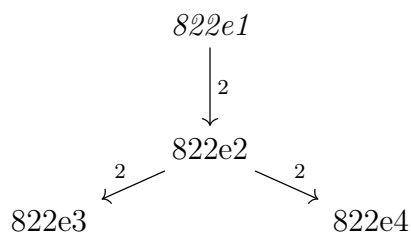
$$819a1 \xrightarrow{2} 819a2$$

$$819b1 \xrightarrow{2} 819b2$$

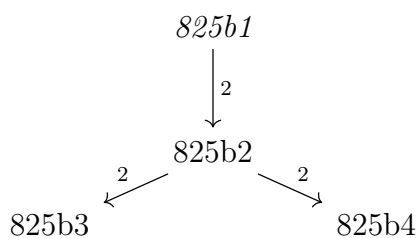
$$819e1 \xrightarrow{3} 819e2 \xrightarrow{3} 819e3$$

$$822b1 \xrightarrow{2} 822b2$$

$$822c1 \xrightarrow{3} 822c2$$



$$825a1 \xrightarrow{3} 825a2$$



$$825c1 \xrightarrow{3} 825c2$$

$$828a1 \xrightarrow{2} 828a2$$

$$828b1 \xrightarrow{2} 828b2$$

$$828d1 \xrightarrow{3} 828d2$$

$$830a1 \xrightarrow{3} 830a2$$

$$832c1 \xrightarrow{3} 832c2 \xrightarrow{3} 832c3$$

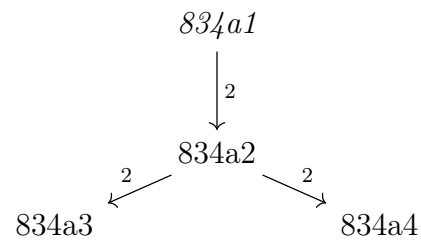
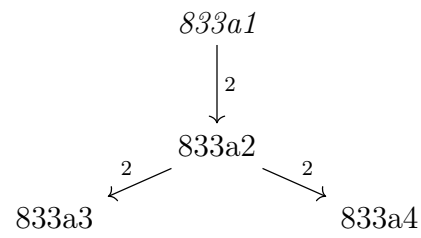
$$832d1 \xrightarrow{2} 832d2$$

$$832f1 \xrightarrow{7} 832f2$$

$$832g1 \xrightarrow{3} 832g2 \xrightarrow{3} 832g3$$

$$832h1 \xrightarrow{2} 832h2$$

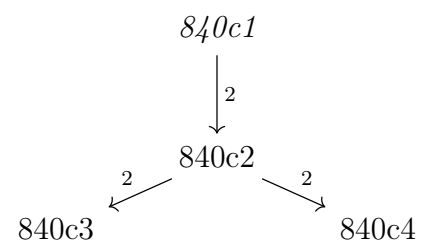
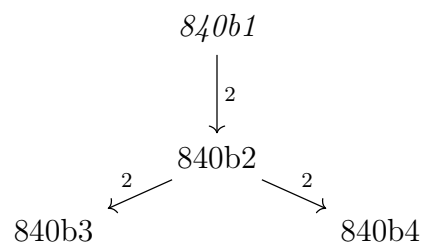
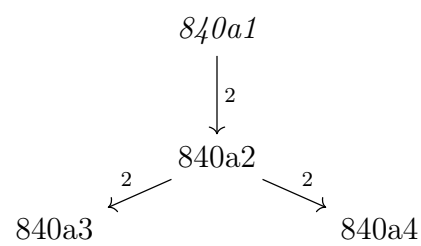
$$832j1 \xrightarrow{7} 832j2$$

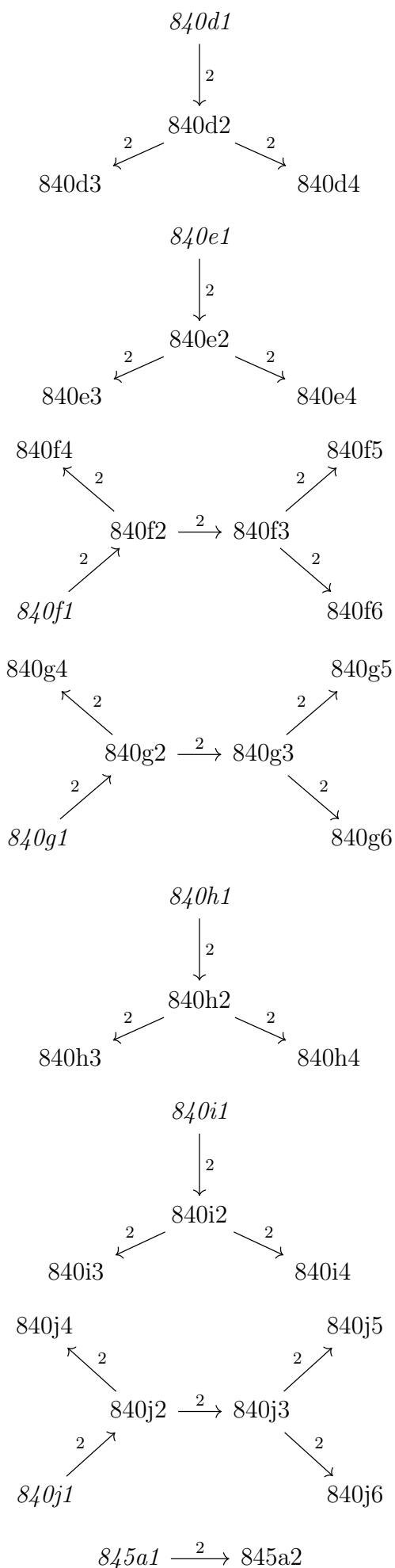


$$834d1 \xrightarrow{2} 834d2$$

$$834g1 \xrightarrow{5} 834g2$$

$$836b1 \xrightarrow{2} 836b2$$





$$846a1 \xrightarrow{2} 846a2$$

$$846b1 \xrightarrow{2} 846b2$$

$$\begin{array}{ccc}
 & 846c1 & \\
 & \downarrow 2 & \\
 & 846c2 & \\
 \swarrow 2 & & \searrow 2 \\
 846c3 & & 846c4 \\
 847a1 \xrightarrow{3} & 847a2 \xrightarrow{3} & 847a3
 \end{array}$$

$$847c1 \xrightarrow{2} 847c2$$

$$848b1 \xrightarrow{3} 848b2$$

$$848c1 \xrightarrow{3} 848c2$$

$$848d2 \xrightarrow{2} 848d1$$

$$850a1 \xrightarrow{3} 850a2$$

$$850b1 \xrightarrow{3} 850b3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 850b2 \xrightarrow{3} & & 850b4
 \end{array}$$

$$850g1 \xrightarrow{2} 850g2$$

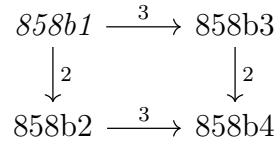
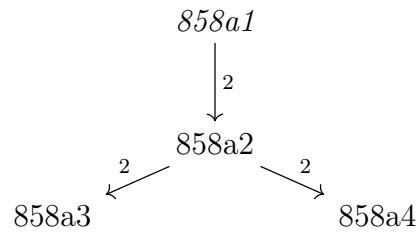
$$850h1 \xrightarrow{3} 850h3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 850h2 \xrightarrow{3} & & 850h4
 \end{array}$$

$$850k1 \xrightarrow{3} 850k2$$

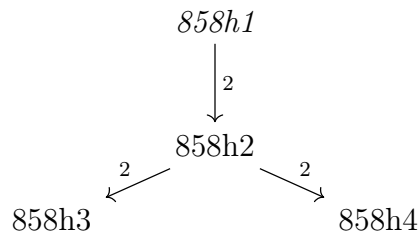
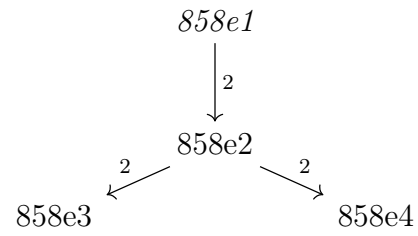
$$854b1 \xrightarrow{3} 854b2 \xrightarrow{3} 854b3$$

$$\begin{array}{ccc}
 & 855a1 & \\
 & \downarrow 2 & \\
 & 855a2 & \\
 \swarrow 2 & & \searrow 2 \\
 855a3 & & 855a4 \\
 855b1 \xrightarrow{2} & & 855b2 \\
 855c1 \xrightarrow{2} & & 855c2
 \end{array}$$



$$858c1 \xrightarrow{2} 858c2$$

$$858d1 \xrightarrow{3} 858d2$$



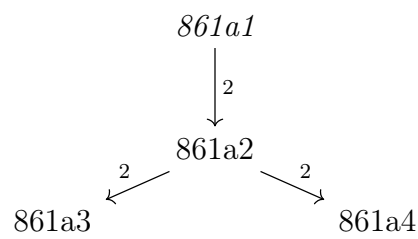
$$858i1 \xrightarrow{2} 858i2$$

$$858j1 \xrightarrow{3} 858j2$$

$$858k1 \xrightarrow{7} 858k2$$

$$858l1 \xrightarrow{2} 858l2$$

$$858m1 \xrightarrow{2} 858m2$$



$$862c1 \xrightarrow{2} 862c2$$

$$862d1 \xrightarrow{3} 862d2$$

$$862e1 \xrightarrow{5} 862e2$$

$$866a1 \xrightarrow{3} 866a2$$

$$867a1 \xrightarrow{3} 867a2$$

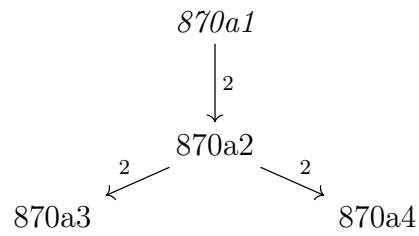
$$867b1 \xrightarrow{2} 867b2$$

$$867c1 \xrightarrow{5} 867c2$$

$$867d1 \xrightarrow{2} 867d2$$

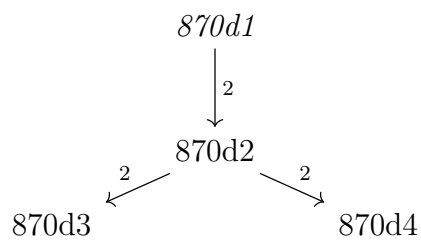
$$867e1 \xrightarrow{5} 867e2$$

$$869c1 \xrightarrow{2} 869c2$$



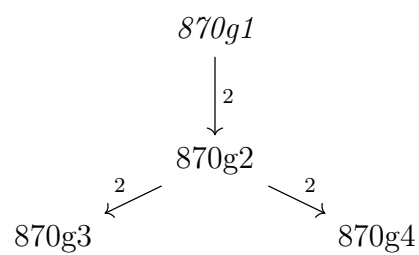
$$\begin{array}{ccc}
 870b1 & \xrightarrow{3} & 870b3 \\
 \downarrow 2 & & \downarrow 2 \\
 870b2 & \xrightarrow{3} & 870b4
 \end{array}$$

$$\begin{array}{ccc}
 870c1 & \xrightarrow{3} & 870c3 \\
 \downarrow 2 & & \downarrow 2 \\
 870c2 & \xrightarrow{3} & 870c4
 \end{array}$$



$$870e1 \xrightarrow{2} 870e2$$

$$870f1 \xrightarrow{2} 870f2$$



$$870h1 \xrightarrow{2} 870h2$$

$$870i1 \xrightarrow{5} 870i3$$

$$\downarrow 2$$

$$\downarrow 2$$

$$870i2 \xrightarrow{5} 870i4$$

$$873a1 \xrightarrow{2} 873a2$$

$$873b1$$

$$\downarrow 2$$

$$873b2$$

$$\swarrow 2$$

$$\searrow 2$$

$$873b3$$

$$873b4$$

$$874e1 \xrightarrow{5} 874e2$$

$$874f1 \xrightarrow{3} 874f2$$

$$880a1 \xrightarrow{2} 880a2$$

$$880b1 \xrightarrow{2} 880b2$$

$$880c1$$

$$\downarrow 2$$

$$880c2$$

$$\swarrow 2$$

$$\searrow 2$$

$$880c3$$

$$880c4$$

$$880e1 \xrightarrow{3} 880e2$$

$$880f1 \xrightarrow{3} 880f2$$

$$880g1 \xrightarrow{5} 880g2$$

$$880h1 \xrightarrow{2} 880h2$$

$$880i1$$

$$\downarrow 2$$

$$880i2$$

$$\swarrow 2$$

$$\searrow 2$$

$$880i3$$

$$880i4$$

$$880j1 \xrightarrow{3} 880j3$$

$$\downarrow 2$$

$$\downarrow 2$$

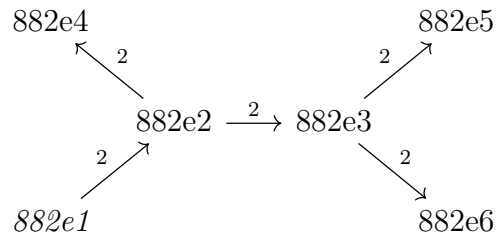
$$880j2 \xrightarrow{3} 880j4$$

$$882a1 \xrightarrow{3} 882a2$$

$$882b1 \xrightarrow{3} 882b2$$

$$882c1 \xrightarrow{7} 882c2$$

$$882d1 \xrightarrow{7} 882d2$$



$$882f1 \xrightarrow{3} 882f2$$

$$882g1 \xrightarrow{3} 882g2$$

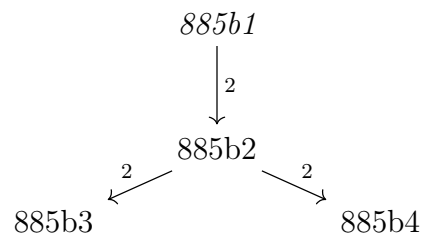
$$882h1 \xrightarrow{3} 882h2$$

$$\begin{array}{ccccc}
 882i1 & \xrightarrow{3} & 882i3 & \xrightarrow{3} & 882i5 \\
 \downarrow 2 & & \downarrow 2 & & \downarrow 2 \\
 882i2 & \xrightarrow{3} & 882i4 & \xrightarrow{3} & 882i6
 \end{array}$$

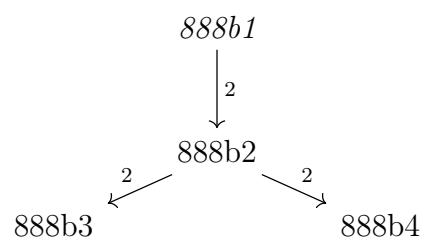
$$882j1 \xrightarrow{3} 882j2$$

$$882k1 \xrightarrow{2} 882k2$$

$$882l1 \xrightarrow{2} 882l2$$



$$885d1 \xrightarrow{5} 885d2$$



$$888c1 \xrightarrow{2} 888c2$$

$$888d1 \xrightarrow{2} 888d2$$

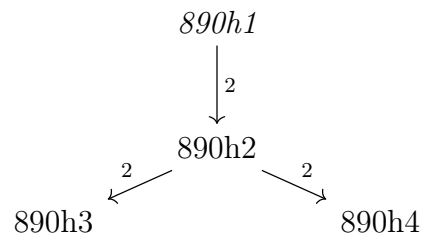
$$890a1 \xrightarrow{2} 890a2$$

$$890b1 \xrightarrow{2} 890b2$$

$$890c1 \xrightarrow{2} 890c2$$

$$890e1 \xrightarrow{2} 890e2$$

$$890g1 \xrightarrow{5} 890g2$$



$$891b1 \xrightarrow{3} 891b2$$

$$891d1 \xrightarrow{7} 891d2$$

$$891f1 \xrightarrow{3} 891f2$$

$$891g1 \xrightarrow{7} 891g2$$

$$892b1 \xrightarrow{3} 892b2$$

$$894c1 \xrightarrow{3} 894c2$$

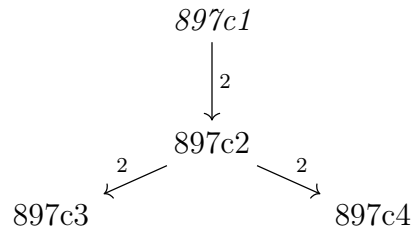
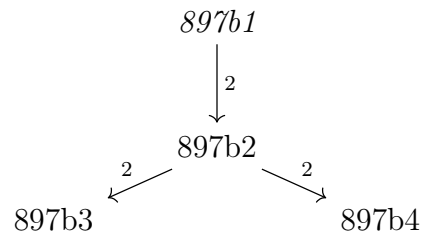
$$896a1 \xrightarrow{2} 896a2$$

$$896b1 \xrightarrow{2} 896b2$$

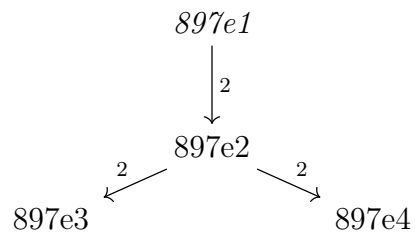
$$896c1 \xrightarrow{2} 896c2$$

$$896d1 \xrightarrow{2} 896d2$$

$$897a1 \xrightarrow{2} 897a2$$



$$897d1 \xrightarrow{2} 897d2$$



$$897f1 \xrightarrow{2} 897f2$$

$$898c1 \xrightarrow{2} 898c2$$

$$900a1 \xrightarrow{3} 900a2$$

$$900b1 \xrightarrow{3} 900b3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 900b2 & \xrightarrow{3} & 900b4
 \end{array}$$

$$900c1 \xrightarrow{3} 900c2$$

$$900d1 \xrightarrow{3} 900d2$$

$$900e1 \xrightarrow{3} 900e3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 900e2 & \xrightarrow{3} & 900e4
 \end{array}$$

$$900f1 \xrightarrow{3} 900f2$$

$$900g1 \xrightarrow{2} 900g2$$

$$900h1 \xrightarrow{2} 900h2$$

$$901a1 \xrightarrow{2} 901a2$$

$$901b1 \xrightarrow{2} 901b2$$

$$901c1 \xrightarrow{3} 901c2$$

$$902b1 \xrightarrow{3} 902b2$$

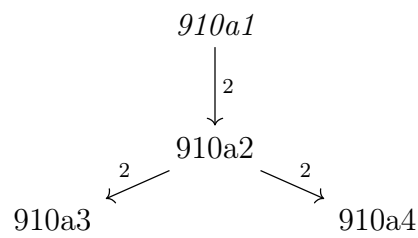
$$903b1 \xrightarrow{3} 903b2 \xrightarrow{3} 903b3$$

$$904a1 \xrightarrow{2} 904a2$$

$$905a1 \xrightarrow{2} 905a2$$

$$906c1 \xrightarrow{3} 906c2 \xrightarrow{3} 906c3$$

$$906d1 \xrightarrow{3} 906d2$$



$$910b1 \xrightarrow{3} 910b2$$

$$910c1 \xrightarrow{3} 910c3$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 910c2 & \xrightarrow{3} & 910c4
 \end{array}$$

$$910d1 \xrightarrow{2} 910d2$$

$$910e1 \xrightarrow{3} 910e2 \xrightarrow{3} 910e3$$

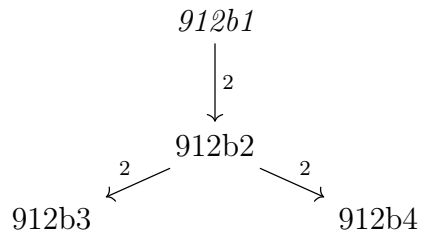
$$910f1 \xrightarrow{2} 910f2$$

$$910i1 \xrightarrow{2} 910i2$$

$$910j1 \xrightarrow{3} 910j3 \xrightarrow{3} 910j5$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 910j2 & \xrightarrow{3} & 910j4 \xrightarrow{3} 910j6
 \end{array}$$

$$910k1 \xrightarrow{2} 910k2$$

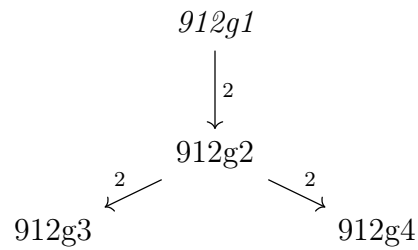


$$912d1 \xrightarrow{2} 912d2$$

$$912e1 \xrightarrow{3} 912e3$$

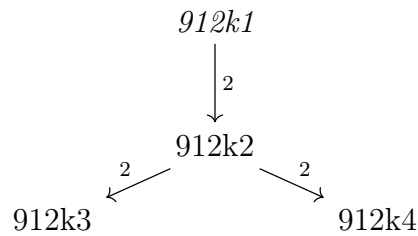
$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 912e2 & \xrightarrow{3} & 912e4
 \end{array}$$

$$912f1 \xrightarrow{5} 912f2$$

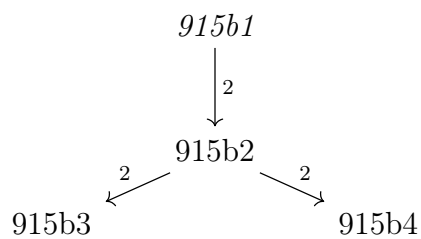


$$912h1 \xrightarrow{2} 912h2$$

$$912j1 \xrightarrow{2} 912j2$$



$$914a1 \xrightarrow{2} 914a2$$



$$915d1 \xrightarrow{2} 915d2$$

$$916a2 \xrightarrow{2} 916a1$$

$$916d1 \xrightarrow{3} 916d2$$

$$918d1 \xrightarrow{3} 918d2$$

$$918e1 \xrightarrow{3} 918e2$$

$$918f1 \xrightarrow{3} 918f2$$

$$918g1 \xrightarrow{3} 918g2$$

$$918i1 \xrightarrow{3} 918i2$$

$$918j1 \xrightarrow{3} 918j2$$

$$921b1 \xrightarrow{3} 921b2$$

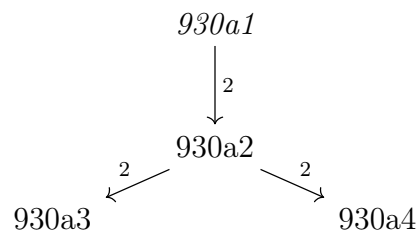
$$924g1 \xrightarrow{3} 924g2$$

$$924h1 \xrightarrow{3} 924h2$$

$$925b1 \xrightarrow{3} 925b2 \xrightarrow{3} 925b3$$

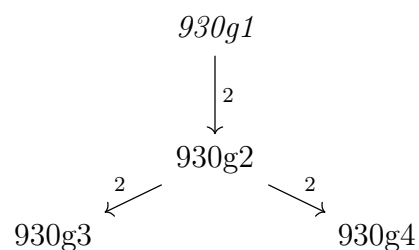
$$925c1 \xrightarrow{2} 925c2$$

$$926a1 \xrightarrow{2} 926a2$$



$$930d1 \xrightarrow{2} 930d2$$

$$930e1 \xrightarrow{2} 930e2$$

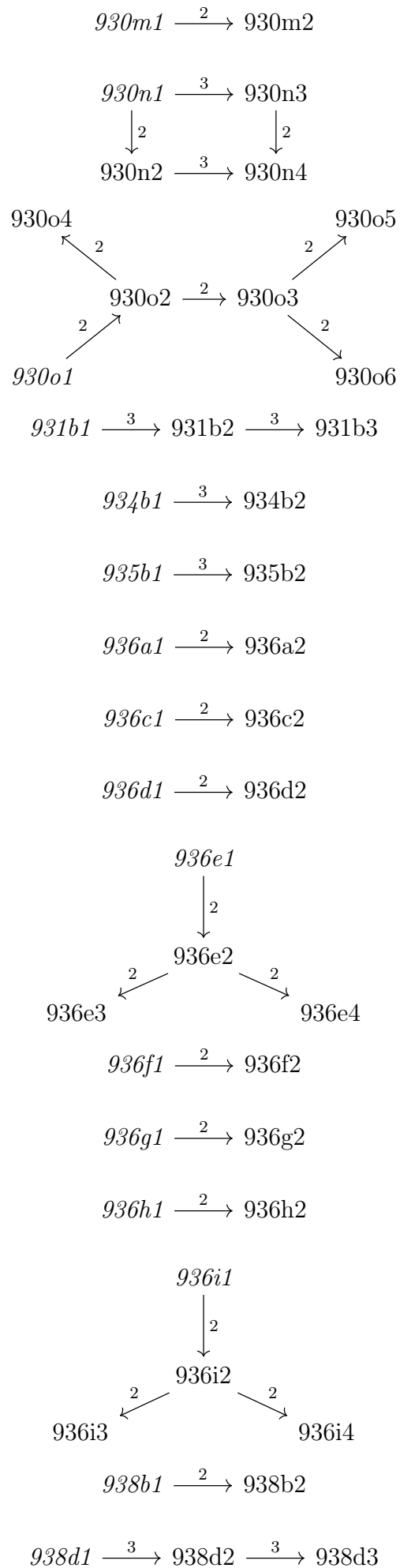


$$930h1 \xrightarrow{2} 930h2$$

$$930i1 \xrightarrow{3} 930i2$$

$$930j1 \xrightarrow{2} 930j2$$

$$930k1 \xrightarrow{2} 930k2$$



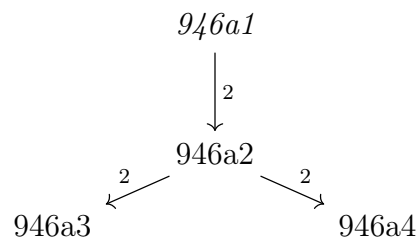
$$939b1 \xrightarrow{2} 939b2$$

$$940c1 \xrightarrow{3} 940c2$$

$$943a1 \xrightarrow{2} 943a2$$

$$944h1 \xrightarrow{5} 944h2$$

$$944j1 \xrightarrow{3} 944j2$$



$$946b1 \xrightarrow{3} 946b2$$

$$948a1 \xrightarrow{2} 948a2$$

$$948c1 \xrightarrow{3} 948c2$$

$$950a1 \xrightarrow{5} 950a2$$

$$950b1 \xrightarrow{3} 950b2$$

$$950e1 \xrightarrow{3} 950e2 \xrightarrow{3} 950e3$$

$$954b1 \xrightarrow{2} 954b2$$

$$954e1 \xrightarrow{3} 954e2$$

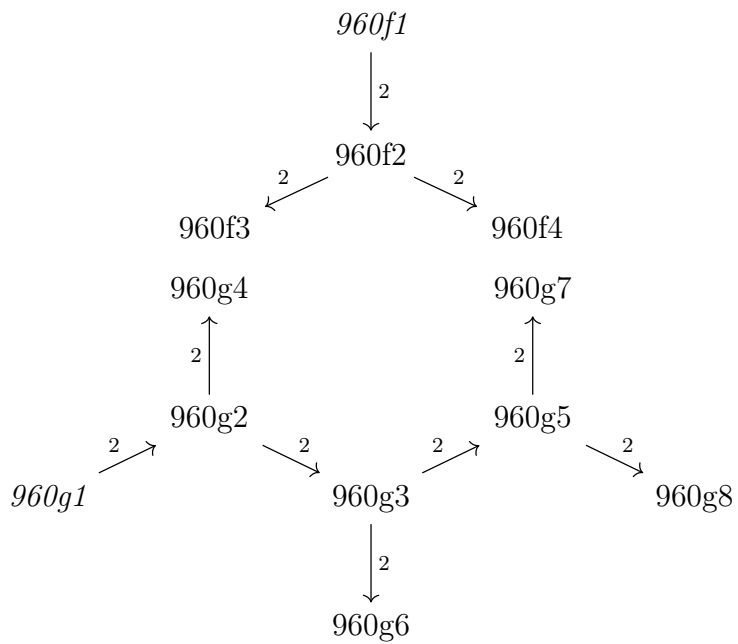
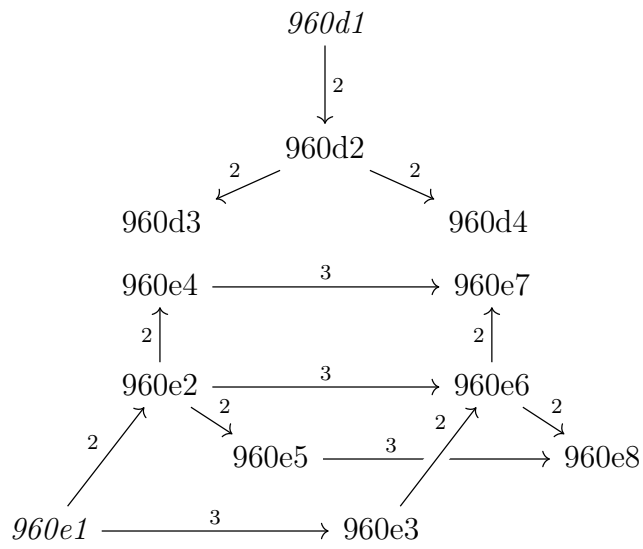
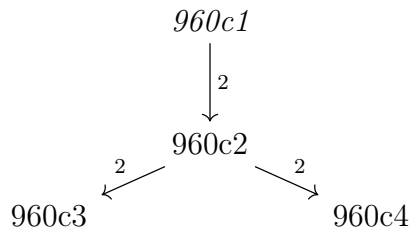
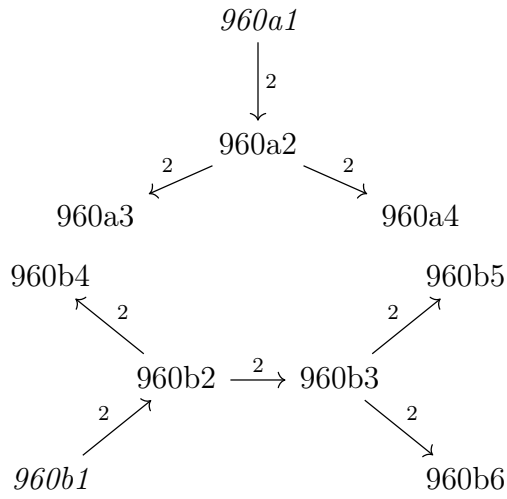
$$954f1 \xrightarrow{3} 954f2$$

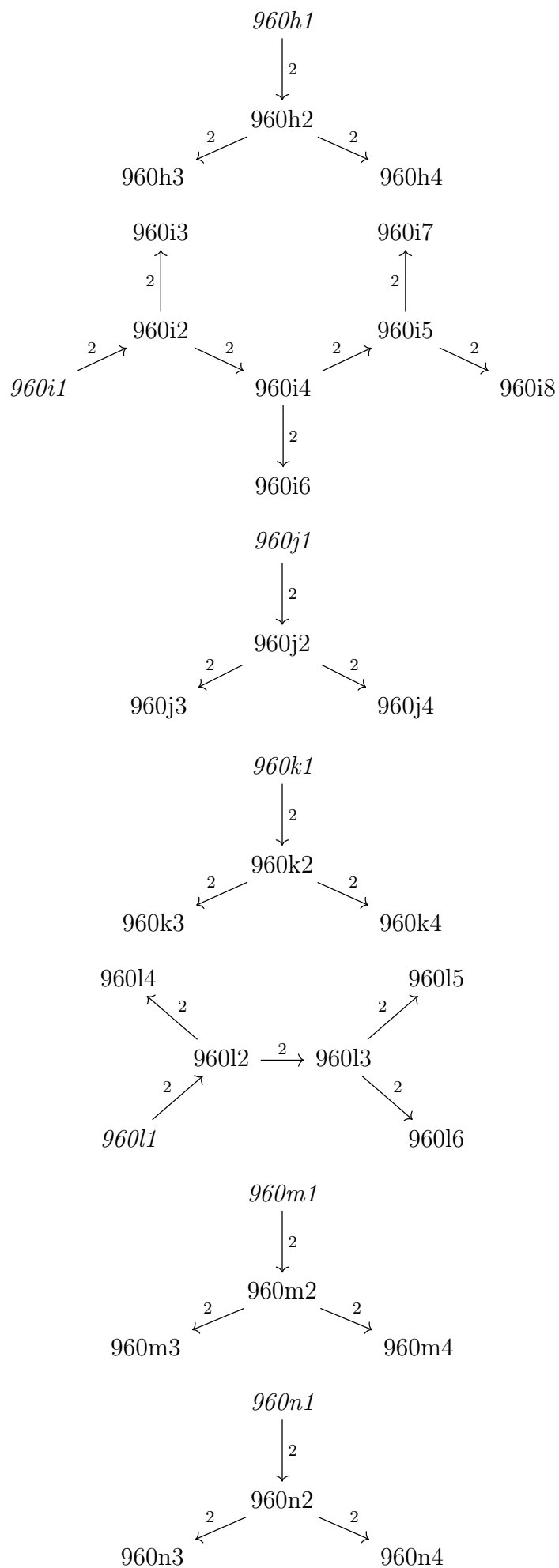
$$954g1 \xrightarrow{2} 954g2$$

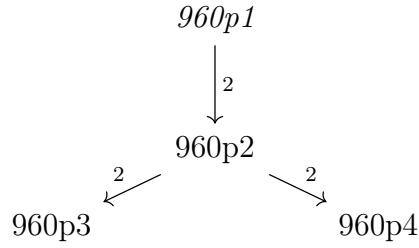
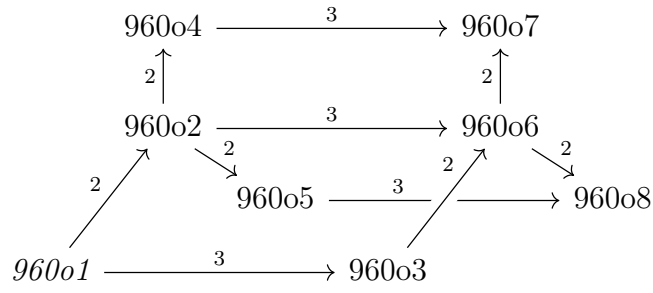
$$954k1 \xrightarrow{3} 954k2$$

$$955a1 \xrightarrow{2} 955a2$$

$$957a1 \xrightarrow{2} 957a2$$







$$962a1 \xrightarrow{2} 962a2$$

$$965a1 \xrightarrow{2} 965a2$$

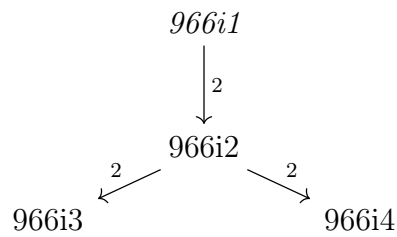
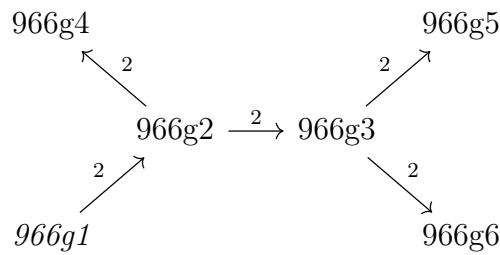
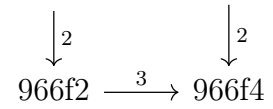
$$966a1 \xrightarrow{2} 966a2$$

$$966c1 \xrightarrow{2} 966c2$$

$$966d1 \xrightarrow{2} 966d2$$

$$966e1 \xrightarrow{2} 966e2$$

$$966f1 \xrightarrow{3} 966f3$$



$$966k1 \xrightarrow{3} 966k2$$

$$969a1 \xrightarrow{2} 969a2$$

$$972a1 \xrightarrow{3} 972a2$$

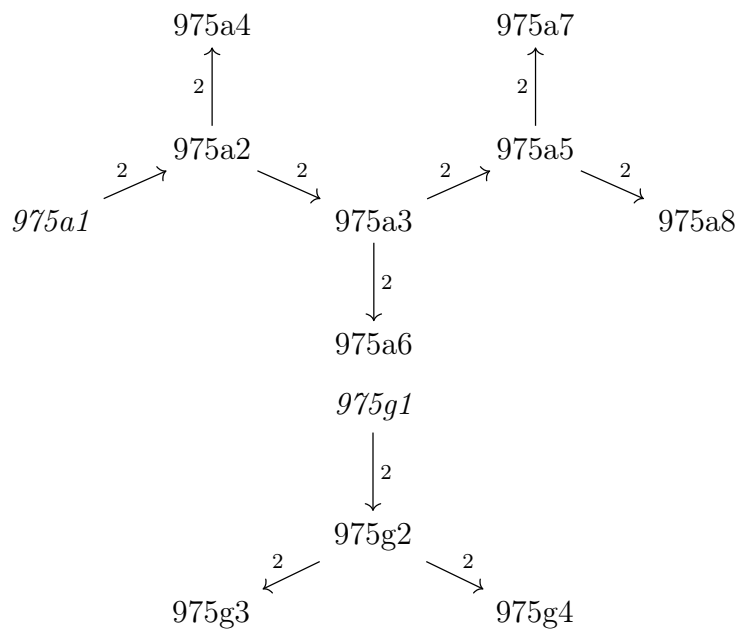
$$972b1 \xrightarrow{3} 972b2$$

$$972c1 \xrightarrow{3} 972c2$$

$$972d1 \xrightarrow{3} 972d2$$

$$973b1 \xrightarrow{3} 973b2 \xrightarrow{3} 973b3$$

$$974c1 \xrightarrow{2} 974c2$$



$$978b1 \xrightarrow{2} 978b2$$

$$978h1 \xrightarrow{3} 978h2$$

$$979b1 \xrightarrow{2} 979b2$$

$$980a1 \xrightarrow{3} 980a2$$

$$980d1 \xrightarrow{3} 980d2$$

$$980f1 \xrightarrow{3} 980f2$$

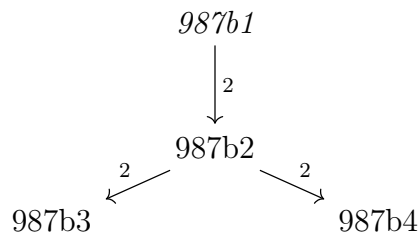
$$980g1 \xrightarrow{3} 980g3$$

$$\begin{array}{ccc} \downarrow 2 & & \downarrow 2 \\ 980g2 & \xrightarrow{3} & 980g4 \end{array}$$

$$986a1 \xrightarrow{3} 986a2$$

$$986c1 \xrightarrow{2} 986c2$$

$$987a1 \xrightarrow{2} 987a2$$



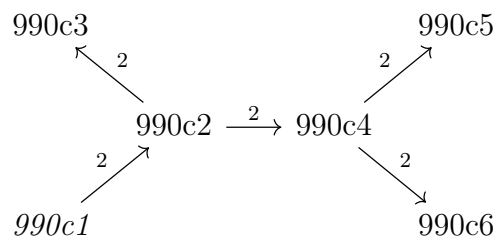
$$987e1 \xrightarrow{2} 987e2$$

$$988d1 \xrightarrow{3} 988d2$$

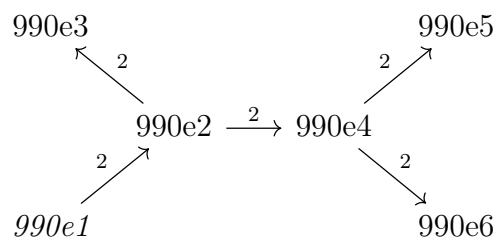
$$990a1 \xrightarrow{2} 990a2$$

$$990b1 \xrightarrow{3} 990b3$$

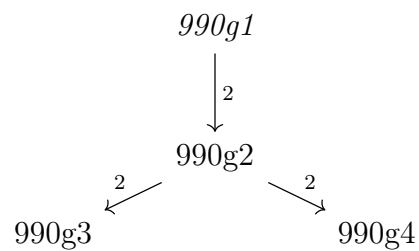
$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 990b2 & \xrightarrow{3} & 990b4
 \end{array}$$



$$990d1 \xrightarrow{5} 990d2$$



$$990f1 \xrightarrow{3} 990f2$$



$$990h3 \xrightarrow{3} 990h1$$

$$\begin{array}{ccc}
 \downarrow 2 & & \downarrow 2 \\
 990h4 & \xrightarrow{3} & 990h2
 \end{array}$$

