$$\begin{aligned} \mathcal{E}_{r_{1}^{'},r_{2}^{'},r_{3}^{'}} \\ & \left\{ r_{1},r_{2},r_{3} \right\} \cap \left\{ r_{1}^{'},r_{2}^{'},r_{3}^{'} \right\} \neq \emptyset \\ \\ \Rightarrow d\left(r\right) \leq 3 \cdot \left(\begin{array}{c} r-1 \\ 2 \end{array} \right) \end{aligned}$$