

1 Super vertex coloring

Definition: Let G be an undirected graph. $c : V(G) \rightarrow \{1, 2, \dots, k\}$ is a super vertex coloring iff: $\forall v_1, v_2 \in V(G), c(v_1) = c(v_2) \Rightarrow v_1 \notin N(v_2)$ and there is no $u \in V(G)$ such that $v_1, v_2 \in N(u)$

2 i dont know yet