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4) To each $\mathbf{G}$, $\mathbf{G} \in K_n$, a reflexive and symmetric relation on set U_n can be assigned in a bijective way by adding all loops to $\mathbf{G}$. Then, the extremal problem (3), (2) and theorem 2 can be restated in terms of binary relations on U_n . The solution of the problem (3), (2), expressed in terms of binary relations, is then an equivalence-relation, inducing a disjoint decomposition of U_n into k classes.

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