Summary: For a graph $G$, let $f(G)$ be the largest integer $k$ such that there are two vertex-disjoint subgraphs of $G$ each on $k$ vertices, both inducing the same number of edges. We prove that $f(G) \geq n/2 - o(n)$ for every graph $G$ on $n$ vertices. This answers a question of Y. Caro and R. Yuster [ibid. 30, No. 4, 813–821 (2009; Zbl 1200.05111)].

Keywords: vertex disjoint subgraphs; Kneser graph

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