Partitions of graphs into two subgraphs of minimum degree ≥ 1 and ≥ 2 with prescribed order

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We prove that for every natural number $k = 2$ or $k \geq 4$, there exists a natural number $f(k)$ such that every 2-connected graph G of minimum degree at least 3 on at least $f(k)$ vertices admits a subgraph H on k vertices and of minimum degree at least 1 such that $G?V(H)$ has minimum degree at least 2.