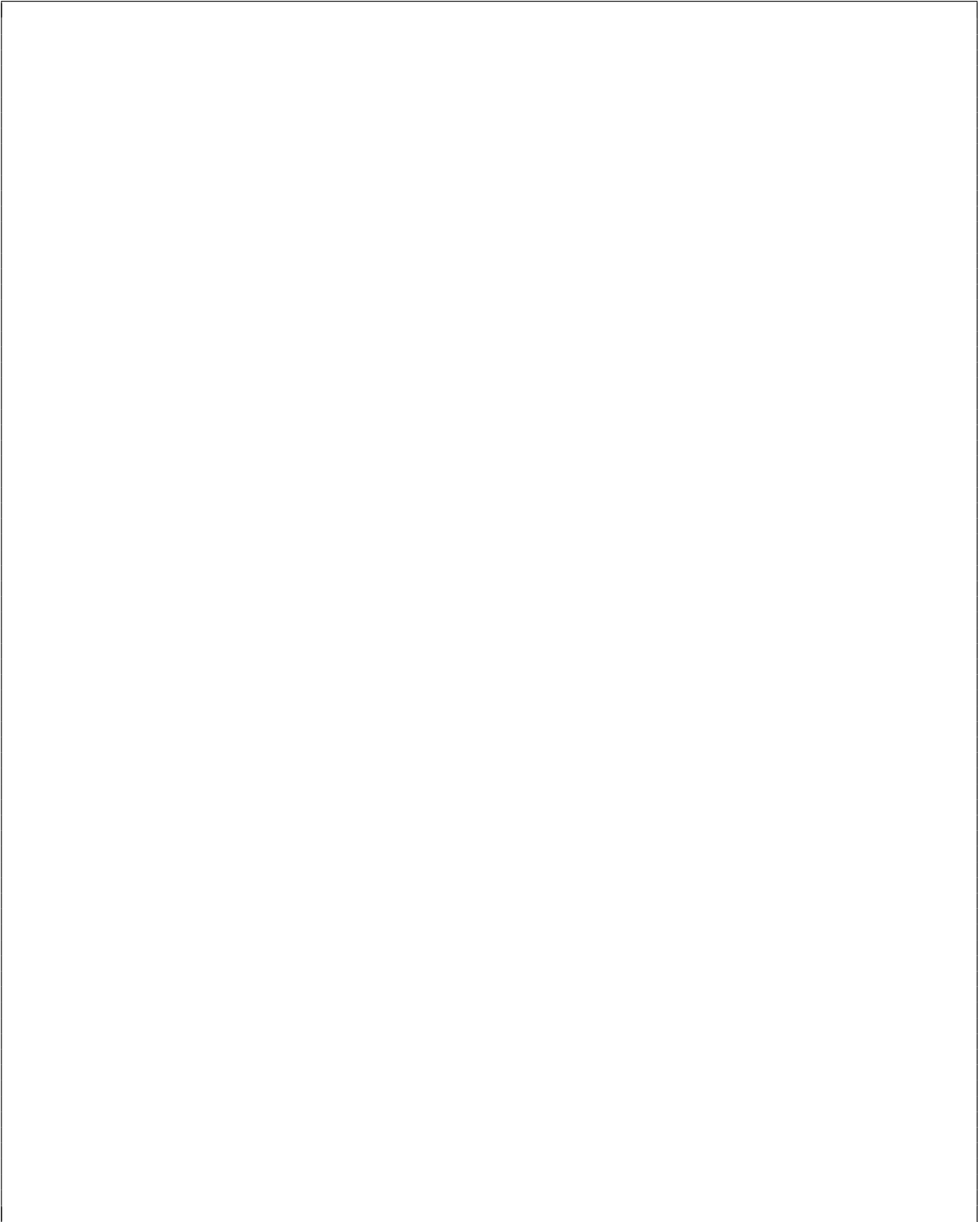


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1. Let G be a graph on n vertices such that every vertex has odd degree. Show that n is even.



2. Find a minimal $k(n)$ such that for every graph G on n vertices, if G has at least $k(n)$ edges, then G is connected.

3. Let G be a graph. Show that there are two different vertices u and v such that they have the same degree.

