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Star decomposition of graphs.

Summary: Let \( k \) be a positive integer and \( G \) be a graph. If \( d(u) + d(v) \geq 4k - 3 \) for any \( uv \in E(G) \), then \( G \) admits a star decomposition in which all stars have size at least \( k \). In particular, every graph \( G \) with \( \delta(G) \geq 2k - 1 \) admits such a decomposition. The bounds are best possible, in the sense that there exist infinitely many graphs \( G \) with \( \delta(G) \geq 2k - 2 \) and without such a decomposition.

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