

Find Similar Vertices in a graph

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Hi

I need a algorithm to find all similar vertices (closed interval) in a graph. A naive algorithm would be to scan all vertices and match it with every vertex in the graph. This works well but complexity is $O(n^2)$ [two for loops]. I wish to reduce it to less $O(m + n)$, where $m =$ no. of edges in graph, $n =$ no. of vertices. Its possible, I read it in a paper, but dont have the algorithm.

Can someone help me

Thanks in advance

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