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Random Minimum Cut Algorithm

Description:

Firstly, we're taking a random edge from the given graph which consists of two vertices (let u and v here). Then, we need to contract this edge and make u and v a single edge and then reconstruct the graph by adding u and v to the previous edges. If any self-loop is created, then we exclude that loop. This process is continued until we get two super-nodes in the graph. The algorithm is implemented using the DSU data structure. After randomly selecting each edge we consider that as a subset and then using `find()` function we check the parent of those subsets. If the parent becomes same then we exclude the edge and otherwise we include the edge in the subset using `union()` function.