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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.