

Title: RandomizedMinimumCut

Roll: 2207065,2207066

Description:

In the lab we determined minimum cut for a graph which will divide the graph into two part. At first the number of node and the number of edge was taken. Then an edge list was declared. All the edges which belong to the graph was taken into the edge list. Then using uniform_int_distribution a random number from 1 to the number of node was selected and then the edge which was at the index of selected number was deleted. Then the nodes of the edges was combined. After combining the nodes the two nodes was considered into a single super node which is a number greater than the node number and then from the super node edges was created with other node. Now in a loop this task of random edge generation and then contraction of super node was performed until the number of the nodes were two or there only remains two edge in the graph. Then the number of edges between the nodes or super nodes was returned and this edge number is the number of minimum cut.