

Minimum Spanning Tree - Kruskal's Algorithm

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Test Cases Passed 72 / 72

Attempts : Correct / Total 1 / 1 Accuracy : 100%

Points Scored 4 / 4 Time Taken 0.16

Your Total Score: 52 ↑

Solve Next

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```
1 class Solution {
2     public:
3         int findParent(int node, vector<int>& parent){
4             if(parent[node] == node)
5                 return node;
6             return parent[node] = findParent(parent[node], parent);
7         }
8         void unionSet(int u, int v, vector<int>& parent, vector<int>& rank){
9             u = findParent(u, parent);
10            v = findParent(v, parent);
11
12            if(u == v) return;
13
14            if(rank[u] < rank[v]){
15                parent[u] = v;
16            }
17            else if(rank[u] > rank[v]){
18                parent[v] = u;
19            }
20            else{
21                parent[v] = u;
22                rank[u]++;
23            }
24        }
25
26        int kruskalsMST(int V, vector<vector<int>> &edges) {
27
28            sort(edges.begin(), edges.end(),
29                  [] (vector<int>& a, vector<int>& b){
30                      return a[2] < b[2];
31                  });
32
33            vector<int> parent(V);
34            vector<int> rank(V, 0);
```