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PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

General
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#	Author	Problem	Lang	Verdict	Time	Memory	Sent	Judged	
126463711	Practice: ArtLeywin	<u>1018891</u> - 1	GNU C++17	Accepted	826 ms	53616 KB	2021-08- 19 18:47:09	2021-08- 19 18:47:09	Compare

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→ Source
                                                                                                                                                          Сору
#include <bits/stdc++.h>
//#define endl '\n'
//#define int long long
#define pb push_back
#define ff first
#define ss second
#define all(x) (x).begin(), (x).end()
#define ll long long
#define ii pair<int,int>
#define vi vector<int>
#define vll vector<ll>
#define vii vector<ii>>
const int INF = 0x3f3f3f3f;
const ll LINF = 0x3f3f3f3f3f3f3f3f3f3fLL;
const int maxn = 1e5+10;
const int mod = 1e9+7;
const int LOG = 22;
using namespace std;
vector<vector<ii>>> mst;
vector<vector<ii>>> up;
vi deepth;
struct DSU {
          vi parent, rank;
          DSU(int N){
                     parent = vi(N);
                     rank = vi(N,1);
                     iota(all(parent),0);
          int find_set(int x){
                     return parent[x] == x ? x : find_set(parent[x]);
          void union_set(int a,int b){
   a = find_set(a);
   b = find_set(b);
                     if(a == \overline{b}) return;
                     if(rank[a] > rank[b]) swap(a,b);
parent[a] = b;
                     rank[b] += rank[a];
          }
};
struct Edge{
          int u, v, w;
};
void dfs(int u, int p, int c, int d){
          deepth[u] = d;
          up[u][0] = \{p, c\};
           for(int i=1;i<=L0G;++i){</pre>
                     int nxt = up[u][i-1].ff;
                     int c = up[u][i-1].ss;
up[u][i].ff = up[nxt][i-1].ff;
                     up[u][i].ss = max(c, up[nxt][i-1].ss);
          for(auto &[v, w]: mst[u]){
```

```
0
             }
   }
   int get_max_weight(int a, int b){
             if(deepth[a] > deepth[b])
                      swap(a,b);
             int d_diff = deepth[b] - deepth[a];
             int ret = 0;
             while(d_diff > 0){
             int log = log2(d_diff);
ret = max(ret, up[b][log].ss);
             b = up[b][log].ff;
             d_diff -= (1 << log);</pre>
             while (a != b) {
int i = log2(deepth[b]);
             while (i > 0 \& up[a][i].ff == up[b][i].ff)
                 i--;
             ret = max(ret, up[a][i].ss);
ret = max(ret, up[b][i].ss);
             a = up[a][i].ff;
b = up[b][i].ff;
             return ret;
   }
   void solve(){
             int N. R:
             cin >> N >> R:
             vector<struct Edge> graph(R);
             map<ii,int> Roads;
             for(int i=0;i<R;++i){</pre>
                      cin >> graph[i].u >> graph[i].v >> graph[i].w;
Roads[{graph[i].u,graph[i].v}] = graph[i].w;
Roads[{graph[i].v,graph[i].u}] = graph[i].w;
             }
             sort(all(graph),
             [](struct Edge a, struct Edge other){
                      if(a.w != other.w)
    return a.w < other.w;</pre>
                      if(a.u != other.u)
                               return a.u < other.u;</pre>
                       return a.v < other.v;</pre>
             });
             DSU uf(N+1);
             int mst_cost = 0;
             mst = vector<vector<ii>>>(N+1, vector<ii>());
             up = vector<vector<ii>>>(N+1, vector<ii>(LOG+1));
             deepth = vi(N+1);
             mst[v].pb({u,w});
                                uf.union_set(u,v);
                                mst_cost += w;
                      }
             up[1][0] = \{1,0\};
             dfs(1, 0, 0, 0);
             int q;
             cin >> q;
             while(q--){
                      int u, v;
                      cin >> u >> v;
```

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Server time: Aug/19/2021 12:47:29<sup>utc-3</sup> (h2).
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