

```

1 #include <bits/stdc++.h>
2 using namespace std;
3 int root[50];
4 bool root_find(int u, int v)
5 {
6     if (root[u] == root[v])
7         return true;
8     return false;
9 }
10 void union_(int u, int v, int vertex)
11 {
12     int tmp = root[u];
13     for (int i = 0; i < vertex; i++)
14     {
15         if (root[i] == tmp)
16         {
17             root[i] = root[v];
18         }
19     }
20 }
21 int main()
22 {
23     int vertex, edge, w, u, v, tot_cost = 0;
24     cin >> vertex >> edge;
25     for (int i = 1; i <= vertex; i++)
26         root[i] = i;
27     pair<int, pair<int, int>> p[edge + 5];
28     for (int i = 0; i < edge; i++)
29     {
30         cin >> w >> u >> v;
31         p[i] = {w, {u, v}};
32     }
33     sort(p + 0, p + edge);
34     for (int i = 0; i < edge; i++)
35     {
36         int x = p[i].second.first;
37         int y = p[i].second.second;
38         if (!root_find(x, y))
39         {
40             union_(x, y, vertex);
41             tot_cost += p[i].first;
42         }
43     }
44     cout << "Total Cost : " << tot_cost << endl;
45 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

➤ SAKIB Problem Solving

↳ cd "c:\PU Projects\LearnCPP\

6 9

2 4 5

2 5 6

3 2 3

3 3 5

5 2 4

4 3 4

5 4 6

7 1 2

8 1 3

Total Cost : 17

➤ SAKIB Problem Solving

↳