## **Train Stations**

You have decided to create a train system for your city, but you need to minimize the cost of construction. Given the list of train stations and the cost to build the potential rails between them. Design a minimum cost train system.

Your solution must consider the following:

- All train stations must be accessible from all other train stations.
- There can be no cycles in the network (i.e., the network must be a tree to keep costs down)
- Your solution MUST implement Kruskal's algorithm
- You MUST implement your own custom find-union data structure.



## Input

The input file will begin with an integer n, the number of train stations (indexed from 0 to n-1) and e, the number of potential rails between train stations. The next e lines will list out three numbers, s, t, and c representing two stations (s and t) between which a rail can be built and the cost c of building such a rail.

## Output

Output the minimum cost of building the train network.

## Sample Input

5 6		
0 1	1	Sample Output
0 3	1	
1 3	2	10
1 2	2	
2 3	1	
3 4	7	