

# Minimum Spanning Tree

Given an undirected graph with  $n$  vertices and  $m$  edges. Find minimum spanning tree and calculate its total length, if you cannot form the tree, print -1.

## Input

- First line contains  $n$  and  $m$

- Next  $m$  lines, each line contains three integers represent for and edge: vertex1, vertex2 and length

## Output

print the minimum spanning tree's total length if found, otherwise print -1

## Example

### Input:

```
5 3
2 1 97
1 3 37
2 0 11
```

### Output:

```
-1
```

### Input:

```
5 10
4 1 48
4 2 53
1 3 62
0 1 54
3 2 64
0 4 61
1 2 41
4 3 7
3 0 63
2 0 43
```

### Output:

```
139
```