



BEE 1152

SOLVED

SUGGESTION

FAVORITE

DESCRIPTION

RANKING

FORUM

UDEBUG

GRAPH | LEVEL 5 | + 5.5 POINTS | BASE TIME LIMIT: 3 SECOND | MEMORY LIMIT: 200 MB

beecrowd | 1152

Dark Roads

Univeristy of Ulm Local Contest Germany

Timelimit: 3

Economic times these days are tough, even in Byteland. To reduce the operating costs, the government of Byteland has decided to optimize the road lighting. Till now every road was illuminated all night long, which costs 1 Bytelandian Dollar per meter and day. To save money, they decided to no longer illuminate every road, but to switch off the road lighting of some streets. To make sure that the inhabitants of Byteland still feelsafe, they want to optimize the lighting in such a way, that after darkening some streets at night, there will still be at least one illuminated path from every junction in Byteland to every other junction.

What is the maximum daily amount of money the government of Byteland can save, without making their inhabitants feel unsafe?

Input

The input file contains several test cases. Each test case starts with two numbers m ($1 \leq m \leq 200000$) and n ($m-1 \leq n \leq 200000$), that are the number of junctions in Byteland and the number of roads in Byteland, respectively. Follow n integer triples x, y, z , specifying that there will be a bidirectional road between x and y with length z meters ($0 \leq x, y < m$ and $x \neq y$).

The input is terminated by $m=n=0$. The graph specified by each test case is connected. The total length of all roads in each test case is less than 2^{31} .

Output

For each test case print one line containing the maximum daily amount the government can save.

Input Simple

```
7 11
0 1 7
0 3 5
1 2 8
1 3 9
1 4 7
2 4 5
3 4 15
3 5 6
4 5 8
4 6 9
5 6 11
0 0
```

Output Simple

51

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PROBLEM

1152

LANGUAGE

Python 3.11

SOURCE CODE

```
1 # -*- coding: utf-8 -*-
2
3 '''
4 Escreva a sua soluão aqui
5 Code your solution here
6 Escriba su soluci3n aqu4
7 '''
```

CODE YOUR SOLUTION AND SUBMIT!

SUBMIT