January 2023 CSE 208
Online Assignment on Minimum Spanning Tree

Time: 30 minutes

Subsections A2

Enough with minimum spanning trees. In this assignment, you will have to find a spanning tree such that the *product* of the weights of the edges of the tree is *maximized*.

Input

Take input from a file. The first line will contain two integers n and m, denoting the number of vertices and the number of edges respectively. In each of the following m lines, there will be two integers and a real number u, v, d such that there is an edge (u, v) in the input graph with weight d. Here $0 \leq u, v < n$.

Output

Print the maximum value of the product of the weights of a spanning tree in the given graph.

Sample I/O

Input File

```
5 10
0 1 4
0 2 13
0 3 7
0 4 7
1 2 9
1 3 3
1 4 7
2 3 10
2 4 14
3 4 4
```

Output

```
16380
```

Please note that any usage of the internet is strictly prohibited during the assignment. Usage of any unfair means will be duly punished.