

E. Spanning Tree

time limit per test: 2 seconds?
memory limit per test: 256 megabytes

For a given connected undirected weighted graph find a spanning tree with minimum weight.

Input

First line of the input consists of two integers n and m ($2 \leq n \leq 200\,000$, $1 \leq m \leq 200\,000$) — number of vertices and edges, respectively.

Next m lines describe edges one per line in the following format: three integers b_i , e_i and w_i ($1 \leq b_i, e_i \leq n$, $0 \leq w_i \leq 100\,000$) — ends and the weight of the edge i , respectively .

Output

Output a single integer — minimum weight of the spanning tree.

Example

input	Copy
4 4 1 2 1 2 3 2 3 4 5 4 1 4	
output	Copy
7	

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

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