# Description

One day Mr. K gives you a recipe:

#### Section I Ingredients

- A weighted connected undirected graph G with n vertices and m edges
- Another graph T using same vertices with G but having no edge

#### Section II Procedure

- 1. Pick an edge e with smallest weight among unprocessed edges in graph G. (If there are more than one such edges, pick any.)
- 2. If edge e forms an cycle along with the edges in graph T, throw edge e away. Otherwise, add edge e into graph T.
- 3. Repeat step 1 and 2 until all edges in graph G are processed.
- 4. Finally, you construct a cool graph T!

You are so curious what this recipe is about. Luckily, you always bring a weighted connected undirected graph with you so you can start following the recipe right away. Please follow the instruction in the recipe to construct a cool graph (the T mentioned in the recipe) and output its total edge weight.

## Input

The first line contains two integers n and m, being the number of vertex and the number of edges in your weighted undirected graph.

The following m lines describes the edges. Each line contains three integers u, v, w, denoting an undirected edge uv with weight w.

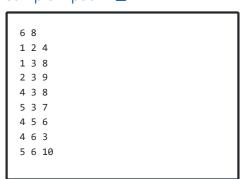
### Constraints

- $1 \le n \le 2 \cdot 10^5$
- $1 \le m \le 10^6$
- $1 \le w \le 10^9$  for each edge

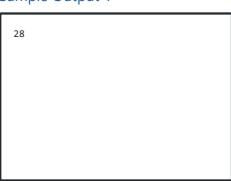
## Output

Please print the answer in one line.

## Sample Input 1 🖹

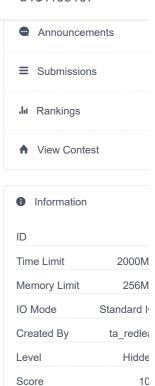


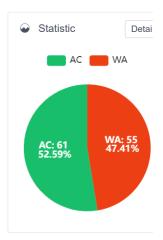
## Sample Output 1



#### Hint

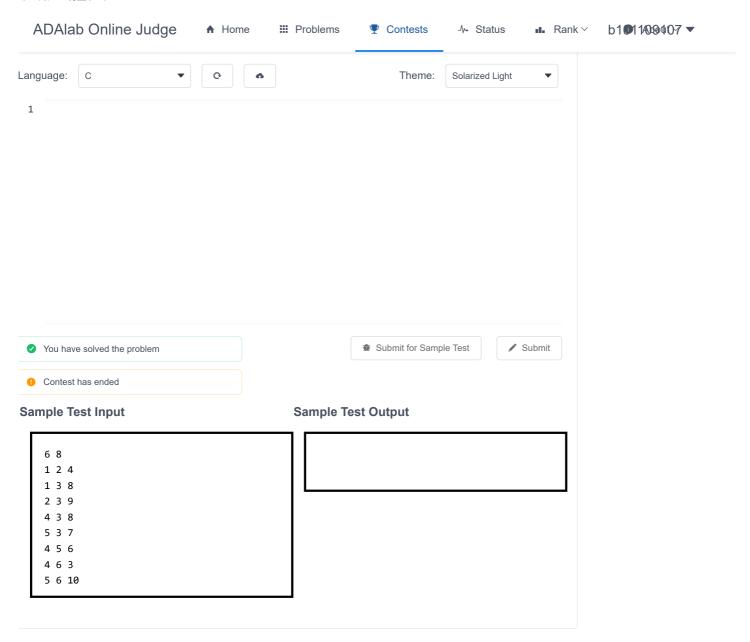
- 1. There may be multiple edges and self loops in the graph.
- 2. Be careful of overflow. Please use 64-bit integers to calculate weight sum.





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