Kushville and underground cables

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

Kingdom Kushpur has decided to modernize by laying down high speed internet cables to connect different cities. Every city needs to be a part of this network. The chief architect of the kingdom has come up with the cost estimation for connecting different cities.

This data is represented as x_i, y_i and $c_i (0 \leq c_i \leq 10^6)$, where c_i is the cost for connecting city x_i and city y_i. Cities are numbered from 1 to $n (2 \leq n \leq 10^5)$. $m (n-1 \leq m \leq 10^5)$ such triplets are given to you. No two edges connect the same pair of cities. The chief architect is in a fix because there are too many connections to consider to come up with the plan having minimum cost. Help him by outputting the number of triplets which will never be used for connection, i.e. number of such triplets which will never be used for connection in ANY plan with the minimal cost.

Input

The first line contains two integers n and m, representing the number of cities, the number of triplets. Then m lines follow. Each of these m lines represents a connection(triplet). Each line has three integers, x_i, y_i and c_i, representing a connection between the cities x_i and y_i, and the associated cost as c_i.

Note:

It is guaranteed that there will be at least one possible way to connect all the cities.

Output

Print the required answer.

Example

standard input	standard output
4 5 1 2 105 1 3 104 2 3 6 2 4 6 3 4 5	1