Sic Mundus

(The Travellers)

Sic Mundus are a group of tourists who are also known as the travellers.

They travel across the world and now they are in your country. They want to travel all the cities they can travel in ur country as cheaply as possible. Like they don’t want to pay any road taxes while travelling. But

Your government is so strict about the road taxes so the government wants to collect as much as road tax possible.

So, to collect road taxes they have to make a toll booth in a road, but unfortunately government can't spend much money in making toll booths.

The government can afford highest one toll booth.

That means the government can collect road tax from one road at most. But the government wants to collect road tax as much as possible.

You are an engineer hired by government to solve this problem.

The city can be represented as nodes and the roads can be represented with edges. There will be 1tk amount of road tax for per unit length of the road.

Help your government to set up the toll both in such a way that it can collect the maximum amount of road taxes from the Sic Mundus.

Input :

There will be two integers n , m

1<=n<=1000

1<=m<=min(1000,(n*(n-1))/2)

Then there will be m lines

Each line will have 3 integers x,y,c

It means that there is a road between city x and y

And its length is c

And then there will be one integer s denoting the initial position of the sick mundus

Output:

There will be only one integer denoting the maximum amount of road tax the government can collect by building only one toll booth at most.

Sample cases:

Input:

3 2

1 2 1

2 3 2

3

Output:

2