

# Akbar , The great

All of us are familiar with the reign of the great mughal ruler , Akbar. He was always concerned with the prosperity and safety of the people . Therefore to safeguard his kingdom (which consisted of  $N$  cities) he wanted to place secret soldiers all over his kingdom so as to protect the people . But since his kingdom is very large therefore he wanted to place them in such a way that every city is protected by **one and only one** soldier. According to Akbar , this is the optimum placement.

As for these soldiers they can protect multiple cities according to their strengths.

The strength of a particular soldier is defined as the maximum distance upto which a guard can protect a city from its base city (base city is the city assigned to the guard). If there are 3 cities  $C_1$ ,  $C_2$  and  $C_3$  such that  $C_1$   $C_2$  and  $C_2$   $C_3$  are connected respectively, if a soldier with strength 1 is placed at  $C_2$  then all the cities  $C_1$ ,  $C_2$  and  $C_3$  are protected by that soldier.

Also the kingdom is connected with a network of secret two way roads for faster access only accessible to these soldiers. The length of any road on this network between any two cities is 1 kms . There are  $R$  such roads in the kingdom.

He had given this task to birbal to place the soldiers . Birbal didn't wanted to be a fool in front of the king , therefore took the job and placed  $M$  soldiers all over the kingdom but he was not very good at mathematics . But since he is very intelligent he somehow places the guards all over the kingdom and now turns to you (who is a genius mathematician ;) ) to check whether his placements are good or not.

Your task is to check if the placements of the soldiers are optimum or not.

## INPUT

The input consists of  $T$  test cases . Each test case then consists of 3 parts. The first line consists of  $N$ ,  $R$  and  $M$ .

the next  $R$  lines consists of two numbers  $A$  and  $B$  denoting the two cities between which a road exists .

the next  $M$  lines consists of 2 numbers, city number  $K$  and strength  $S$  of that particular soldier.

=> strength 0 means it will only guard the city on which it is present .

=> assume every city is accesible from every other city .

## CONSTRAINTS

$$T \leq 10;$$

$$1 \leq N \leq 10^6;$$

$$N - 1 \leq R \leq \min(10^7, (N * (N - 1)) / 2);$$

$$1 \leq K \leq N;$$

$$0 \leq S \leq 10^6$$

## OUTPUT

print "Yes" if the soldiers are placed optimumly else print "No". (quotes are for clarity)

## SAMPLE INPUT

2

3 2 2

1 2

2 3

1 2

2 0

4 5 2

1 4

1 2

1 3

4 2

3 4

2 1

**SAMPLE OUTPUT**

No

Yes

**WARNING** ==> Large input.