Can Go?

Problem Statement

You will be given N numbers of nodes, E numbers of edges in a graph. For each edge you will be given A, B and W which means there is a connection from A to B only and for which you need to give W cost. The value of nodes could be from 1 to N.

You will be given a source node S. Then you will be given a test case T, for each test case you will be given a destination node D and a cost DW. You need to tell if you can go to the destination from source using atmost DW cost.

Input Format

- First line will contain N and E.

- Next E lines will contain A, B and W.

- Next line will contain source node S.

- Next line will contain T, the number of test cases.

- For each test case, you will get D and DW.

Constraints

1. $1 \leq N \leq 10^3$

2. $1 \leq E \leq 10^6$

3. $1 \leq S \leq N$

4. $1 \leq T \leq 10^3$

5. $1 \leq D \leq N$

6. $0 \leq W, DW \leq 10^9$

Output Format

- Ouput "**YES**" or "**NO**" for each test case if it is possible to go from S to D using atmost DW cost.

Sample Input 0

```
5 7
1 2 10
1 3 2
3 2 1
2 4 7
3 4 2
4 5 5
2 5 2
1
5
1 0
```

```
2 5
3 1
4 4
5 6
```

Sample Output 0

```
YES
YES
NO
YES
YES
```