### **Shortest Path**

Given are 2 vertices, S and T, in a directed, weighted graph. Find the shortest path between S and T.

## **Input Specifications:**

First line contains 2 integers N and M. N is the number of vertices and M is the number of edges. The next M lines contain 3 integers each: U, V and W. This means that there is an edge between vertex u and vertex v with weight w. Then follows 1 more line of input containing two integers S and T.

### **Output Specifications:**

Print the shortest distance between S and T. Print "NO" (quotes for clarification), if there is no path between vertex S and vertex T.

#### Constraints

```
1<= N<= 100000

0<= M<= min( 5*10^5 , [N(N1)]/2 )

1<= U,V <=N

U !=V

0<W<=10^9

1<=S,T<=N
```

### **Example**

```
Input 1
3 3
1 2 10
1 3 5
3 2 2
1 2
```

# Output 1

7

# Input 2

20

12

# Output 2

NO