# Two "Ways"

There are N places and M bidirectional way. No two places have more than one direct way. Ana wants to walk from S to T and return to S by a itinerary that satisfy:

- No way can be go twice.
- Length of itinerary is the minimum.

## Input

```
Line 1: 4 integers: N, M, S, T (N \leq 10^4; M \leq 10^5)
```

Next M line: Line i include 3 integers  $u_i$ ,  $v_i$ ,  $c_i$ : distance of two places  $u_i$  and  $v_i$  is  $c_i$ . ( $c_i \le 2000000000$ ).

## **Output**

Length of the itinerary if it exists. Else print -1.

### **Example**

#### Input:

5715

123

148

235

2 4 4

355

438

453

#### **Output:**

24