

to find the shortest path from city i to city j.



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### 1001. Shortest path two

Total: 283 Accepted: 44

## **Description**

N cities named with numbers 1 ... N are connected with one-way roads. For each pair of cities i and j, you need

Time Limit: 1sec Memory Limit: 256MB

### **Input**

The first line contains three integers N, K and Q ( $2 \le N \le 100, 1 \le K \le 10000, 1 \le Q \le 10000$ ). N is the number of cities, K is the number of roads, and Q is the number of queries. Each of following K lines contains three integers i, j, d ( $1 \le i,j \le N$ ,  $0 \le d \le 10000$ ), indicates there is a road from city i to city j, and its length is d. The next Q lines describes the queries, each line contains two integers i and j ( $1 \le i,j \le N$ ).

#### **Output**

For each query, you need to print the shortest path in one line. If there is no path between the query cities pair, you should print "-1".

Sample Input		Сору
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4 3 2 1 2 3 2 3 4 2 4 3 1 3 2 4

# Sample Output Copy

7 3

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