Deadline: 11/05 23:59

#### Problem D. Mizuki and mizuki

Time limit 3000 ms Memory limit 256MB

#### **Problem Description**



Is this Mizuki?

After returning from the deep sea, Mizuki decides to face off against mizuki at Kamiyama High School. The high school can be represented as an undirected graph with N nodes and M edges, where the i-th edge has a weight limit of  $w_i$  kilograms. If this limit is exceeded, the edge will collapse. There will be Q duels, and due to mysterious disruptions, before each duel, Mizuki and mizuki are teleported to nodes a and b, respectively. For each duel, determine the maximum weight (including herself) that Mizuki can carry to her duel with mizuki without causing any edges to collapse.

### Input format

The first line contains two integers N  $(1 \le N \le 10^5)$  and M  $(1 \le M \le 10^5)$ .

The next M lines each contain three integers,  $a, b \ (1 \le a, b \le n)$  and  $w_i \ (1 \le w_i \le 10^9)$ , representing a edge between a to b.

The next line contains a integer N ( $1 \le Q \le 10^5$ ).

The next Q lines each contain two integers, a and b  $(1 \le a, b \le n)$ , representing the positions of Mizuki and mizuki.

#### **Output format**

For each duel, output the maximum weight that Mizuki can carry.

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## Subtask score

Subtask	Score	Additional Constraints
1	7	$N \le 5000.$
2	26	M = N - 1
3	67	No constraints

# Sample

Sample Input 1

Sample input i	
$\boxed{4\ 4}$	
1 3 3	
1 2 1	
$[2\ 3\ 4]$	
3 4 2	
6	
1 2	
1 3	
1 4	
2 3	
24	
3 4	

Sample Output 1

	-	1	
3			
3			
2			
4			
2			
2			