## Problem F <br> Maximize The Value

You are given a one-based array consisting of $N$ integers: $A_{1}, A_{2}, \cdots, A_{N}$. Initially, the value of each element is set to 0 .

There are $M$ operations (numbered from 1 to $M$ ). Operation $i$ is represented by $\left\langle L_{i}, R_{i}, X_{i}\right\rangle$. If operation $i$ is executed, all elements $A_{j}$ for $L_{i} \leq j \leq R_{i}$ will be increased by $X_{i}$.

You have to answer $Q$ independent queries. Each query is represented by $\langle K, S, T\rangle$ which represents the following task. Choose a range $[l, r]$ satisfying $S \leq l \leq r \leq T$, and execute operations $l, l+1, \ldots, r$. The answer to the query is the maximum value of $A_{K}$ after the operations are executed among all possible choices of $l$ and $r$.

## Input

The first line consists of two integers $N M(1 \leq N, M \leq 100000)$.
Each of the next $M$ lines consists of three integers $L_{i} R_{i} X_{i}\left(1 \leq L_{i} \leq R_{i} \leq N ;-100000 \leq X_{i} \leq 100000\right)$.
The following line consists of an integer $Q(1 \leq Q \leq 100000)$.
Each of the next $Q$ lines consists of three integers $K S T(1 \leq K \leq N ; 1 \leq S \leq T \leq M)$.

## Output

For each query, output in a single line, an integer which represent the answer of the query.

## Sample Input \#1

```
26
1 1 -50
1 2 -20
2 2 -30
1 160
1 240
2 2 10
5
116
2 16
1 13
2 1 3
1 12
```

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## Sample Output \#1

```
100
5 0
0
0
-20
```


## Explanation for the sample input/output \#1

For query 1 , one of the solutions is to execute operation 4 and 5 .
For query 2 , one of the solutions is to execute operation 4,5 , and 6 .
For query 3 , the only solution is to execute operation 3.
For query 4 , the only solution is to execute operation 1.
For query 6 , the only solution is to execute operation 2.

## Sample Input \#2

```
5 3
13
2 4 -2
3 3
6
113
2 1 3
3 1 3
3 2 3
2 2
2 2
```


## Sample Output \#2

$\square$

