# Algorithmic Crush

**Problem Statement**

Russian

Devendra is on cloud nine after seeing his crush smiling at him in class. At that very moment his professor singles him out and asks him a question. Devendra's mind is all too fuzzy with his crush and her smile to concentrate on anything else. Help him solve the problem :

You are given a list of size N, initialized with zeroes. You have to perform M operations on the list and output the maximum of final values of all the N elements in the list. For every operation, you are given three integers a, b and k and you have to add value k to all the elements ranging from index a to b(both inclusive).

**Input Format**
First line will contain two integers *N* and *M* separated by a single space.
Next M lines will contain three integers *a*, *b* and *k* separated by a single space.
Numbers in list are numbered from *1* to *N*.

**Output Format**
A single line containing *maximum value in the updated list.*

**Constraints**
$3 \leq N \leq 10^7$
$1 \leq M \leq 2 * 10^5$
$1 \leq a \leq b \leq$ N
$0 \leq k \leq 10^9$

**Sample Input #00**

```
5 3
1 2 100
2 5 100
3 4 100
```

**Sample Output #00**

```
200
```

**Explanation**

After first update list will be `100 100 0 0 0`.
After second update list will be `100 200 100 100 100`.
After third update list will be `100 200 200 200 100`.
So the required answer will be 200.

**Note**

The initial testcases are easy and naive solutions might pass. Only efficient solutions can pass the additional testcases.