# **Algorithmic Crush**



#### Russian

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 b and you have to add value b to all the elements ranging from index b 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.

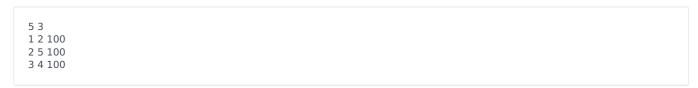
#### **Constraints**

```
3 \le N \le 10^7
1 \le M \le 2 * 10^5
1 \le a \le b \le N
0 \le k \le 10^9
```

#### **Output Format**

A single line containing maximum value in the updated list.

### **Sample Input**



### **Sample Output**

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.