# **Array Manipulation**



#### Russian

You are given a list(1-indexed) 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 (both inclusive).

Consider a list a of size 3, the initial list would be a = [0, 0, 0] and after performing the update  $2 \ 3 \ 30$ , the new list would be a = [0, 30, 30].

### **Input Format**

The 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**

- $3 \le n \le 10^7$
- $1 \le m \le 2 * 10^5$
- $1 \le a \le b \le n$
- $0 < k < 10^9$

#### **Output Format**

Print in a single line the maximum value in the updated list.

## **Sample Input**

5 3 1 2 100 2 5 100 3 4 100

## **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.