[B - Array Manipulation](https://vjudge.net/problem/HackerRank-crush" \t "_blank)

**Saif Husain** gives a list ***L*** , having ***N*** elements to Ghazi and asked for the highest element value from the given List L after performing ***Q*** number of operations, but Ghazi is a lazy person and he doesn't like to do it manually, so can you help Ghazi, to find the highest elements value from the list L after performing ***Q*** number of Operation? Initially, all the elements of given List ***L*** are set to zero, for each operation add a value to each of the list element between the given range (inclusive). Once all operations have been performed, print the maximum value in your list.

**Note : Indexing is 1 based.**

**Input Format**

The first line contains two space-separated integers and, **N**the size of the list, **Q** the number of operations.

Each of the next lines contains three space-separated integers, and, **S**starting index, **E** ending index and **K** summand.

**Output Format**

Print the integer maximum value in the list.

**Constraints**  
**3 <= *N*<= 10^7**  
**1 <= *Q*<= 2\*10^5**  
**1 <= *S*<= *E*<= *N***  
**0 <= *K*<= 10^9**

**Sample Input**

5 3

1 2 100

2 5 100

3 4 100

**Sample Output**

200

## Solution

<https://www.youtube.com/watch?v=GQ6tr3lqKms>

