



Algorithmic Crush



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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 .

Constraints

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

Output Format

A single line containing *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.

Submissions: 11043

Max Score: 60

Difficulty: Hard

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```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
8     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input

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