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Array Manipulation ☆

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Starting with a 1-indexed array of zeros and a list of operations, for each operation add a value to each of the array element between two given indices, inclusive.

Once all operations have been performed, return the maximum value in the array.

Example

n = 10

$$queries = [[1, 5, 3], [4, 8, 7], [6, 9, 1]$$

Queries are interpreted as follows:

- a b k
- I 5 .
- 4 8 7
- 6 9 1

Add the values of \boldsymbol{k} between the indices \boldsymbol{a} and \boldsymbol{b} inclusive:

```
index-> 1 2 3 4 5 6 7 8 9 10

[0,0,0, 0, 0,0,0,0,0,0, 0]

[3,3,3, 3, 3,0,0,0,0, 0]

[3,3,3,10,10,7,7,7,0, 0]

[3,3,3,10,10,8,8,8,1, 0]
```

The largest value is 10 after all operations are performed.

Function Description

Complete the function arrayManipulation in the editor below.

arrayManipulation has the following parameters:

- int n the number of elements in the array
- int queries[q][3] a two dimensional array of queries where each queries[i] contains three integers, a, b, and k.

Returns

int - the maximum value in the resultant array

Input Format

The first line contains two space-separated integers \boldsymbol{n} and \boldsymbol{m} , the size of the array and the number of operations.

Each of the next m lines contains three space-separated integers a, b and k, the left index, right index and summand.

Constraints

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

Sample Input



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

Sample Output

200

Explanation

After the first update the list is 100 100 0 0 0.

After the second update list is 100 200 100 100.

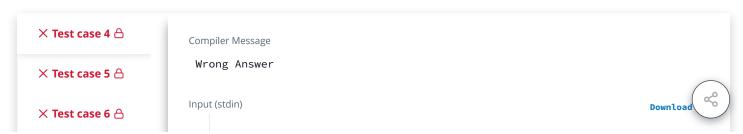
After the third update list is 100 200 200 200 100.

The maximum value is 200.
```



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