



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
1	5	3
4	8	7
6	9	1

Add the values of k between the indices a and b inclusive:

index→	1	2	3	4	5	6	7	8	9	10
	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 n and 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

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

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 100 200 100 100 100.

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

The maximum value is **200**.

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C++



```
4
5 vector<string> split_string(string);
6
7 // Complete the arrayManipulation function below.
8 long arrayManipulation(int n, vector<vector<int>>> queries) {
9     long max=0;
10    int val;
11    vector<int> vect(n, 0);
12    for (int i = 0; i < queries.size(); i++){
13        val =queries[i][2];
14        for (int j = queries[i][0]; j<=queries[i][1]; j++)    {
15            vect[j-1]+=val;
16        }
17    }
18    max = *max_element(vect.begin(),vect.end());
19    return max;
20 }
21
22 int main()
23 {
24     ofstream fout(getenv("OUTPUT_PATH"));
25
```

Line: 9 Col: 15

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