

Starting with a 1-indexed array of zeros and a list of operations, for each operation add a value to each the array element between two given indices, inclusive. Once all operations have been performed, return the maximum value in the array.

Example

n = 10

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

Queries are interpreted as follows:

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, 3,0,0,0,0,0,0] [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 ${m n}$ and ${m m}$, the size of the array and the number of operations.

Each of the next ${m m}$ lines contains three space-separated integers

 \boldsymbol{a} , \boldsymbol{b} and \boldsymbol{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

Sample Output

200

Change Theme Language Java 8 **60** */ 22 23 24 public static long arrayManipulation(int n, List<List</pre> 25 // Write your code here 26 long ans = 0; 27 long arr[] = new long[n+2]; 28 29 30 for(int i=0; i<queries.size(); i++){</pre> 31 int l = queries.get(i).get(0); int r = queries.get(i).get(1); 32 int k = queries.get(i).get(2); 33 34 35 arr[r+1]-=k; 36 arr[l]+=k; } 37 38 for(int i=1; i<=n; i++){ 39 40 arr[i]+=arr[i-1]; 41 42 for(int i=1; i<=n; i++){ 43 44 ans = Math.max(ans,arr[i]); 45 46 47 return ans; } 48 49 Line: 86 Col: 1 Submit Code Run Code .↑ Upload Code as File Test against custom input Earn a certificate in Congratulations **Problem Solving** You Kudos on solved your this progress! challenge. Take the HackerRank Would you like Skills Certification challenge test and your enrich your Next Challenge **Get Certified** profile friends? **⊘**Test case 0 Compiler Message Success **⊘**Test case 1 △ Input (stdin) Download **⊘**Test case 2 A 5 3 **⊘Test case 3** 🖰 1 2 100