

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

# Q. No standard again

time limit per test: 1 second<sup>

memory limit per test: 256 megabytes</sup>

You have a grid a of size  $10^9 * 10^9$ , where all its elements equal zero, instead of n elements are not equals to zero.

You need to answer q queries, each query needs to get the summation of all number in the subgrid its upper left corner is (x1, y1) and its Lower right corner is (x2, y2).

#### Input

The first line contains two integers  $n, q \ (1 \le n, q \le 10^5)$ 

The next n lines contains three integers i,j and  $a_{i,j}$   $(1 \leq i,j,a_{i,j} \leq 10^9).$ 

The next q lines contains  $x1, y1, x2, y2 (1 \le x1 \le x2 \le 10^9, 1 \le y1 \le y2 \le 10^9)$ .

#### Output

For each query print the answer of this query in one line.

#### Example

input	Сору
5 4	
1 3 4	
2 2 6	
4 3 3	
5 4 8	
5 6 5	
1 1 2 3	
2 2 4 5	
2 3 6 4	
1 3 5 6	
output	Сору
10	
9	
11	
20	
	· · · · · · · · · · · · · · · · · · ·

## Note

summation of distinct i, x1, and x2 will not exceed 2000.

and summation of distinct j, y1, and y2 will not exceed 2000.

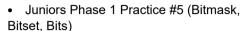
## ICPC Assiut University Training -Juniors Phase 1 Sheets-2022

#### **Public**

# Participant



#### → **Group Contests**



- Juniors Phase 1 Practice #4 ( Binary search , Two pointers )
- Juniors Phase 1 Practice #3 (STL 2)
- Juniors Phase 1 Practice #2 (STL 1)
- Juniors Phase 1 Practice #1 ( Prefix sum , Frequency Array )

# Juniors Phase 1 Practice #3 ( STL 2 )

#### **Finished**

#### Practice



### → About Time Scaling



This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the <a href="link">link</a>.

## → Virtual participation



Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

# → Submit?

Language: GNU G++20 13.2 (64 bit, win **✓** 

Choose file:

Choose File No file chosen

Submit

ightarrow Last submissions		
Submission	Time	Verdict
312217132	Mar/24/2025 18:51	Accepted
312217018	Mar/24/2025 18:50	Memory limit exceeded on test 57