

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

G. range sum 2d

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

you have an array 2D  $a$  of size  $n * m$ , and you need to answer  $q$  queries. each query need to get the summation of all number in rectangle form  $(x1, y1)$  to  $(x2, y2)$ .

**Input**  
the first line contains three integers  $n, m$  the size of array  $(1 \leq n * m \leq 10^5)$ , and  $q$  number of queries,  $(1 \leq q \leq 10^5)$ .  
  
The next  $n$  lines contains  $m$  numbers  $a_{i,j}(1 \leq a_{i,j} \leq 10^9)$ .  
  
the next  $q$  lines contains  $x1, y1, x2, y2(1 \leq x1 \leq x2 \leq n, 1 \leq y1 \leq y2 \leq m)$ .

**Output**  
for each query print the answer of this query in one line.

Example

input

5 5 3  
1 2 3 4 5  
5 3 2 2 9  
2 4 8 5 11  
10 12 4 9 4  
1 1 1 1 1  
1 1 5 5  
3 4 5 4  
1 2 1 2

Copy

output

110  
15  
2

Copy

ICPC Assiut University Training - Standard - Juniors Phase 1

Public

Participant

→ Group Contests

- Standard #5 (Bits , bit-masking )
- Standard #4 (Binary search , two pointers )
- Standard #3 (set , sorting, compare function , map )
- Standard #2 (binary search , stack , queue, deque , priority queue)
- Standard #1 (Frequency , prefix sum , vector , pair ,struct)

Standard #1 (Frequency , prefix sum , vector , pair ,struct)

Finished

Practice

→ 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 11.2.0 (64 bit, w

Choose file: Choose File No file chosen

Submit

Submission	Time	Verdict
<a href="#">226288053</a>	Oct/02/2023 14:55	Accepted
<a href="#">226189024</a>	Oct/01/2023 19:21	Accepted
<a href="#">226188869</a>	Oct/01/2023 19:19	Wrong answer on test 2