ICPC Assiut University Community
Juniors Phase 1 Training ,Do Your Best

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

PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

E. Range sum query

time limit per test: 1.5 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

Given **2** numbers N and Q, an array A of N number and Q number of pairs L, R. For each query Q print a single line that contains the **summation** of all numbers from index L to index R.

Input

First line contains two numbers N, Q $(1 \leq N, Q \leq 10^5)$ where N is number of elements in A and Q is number of query pairs.

Second line contains N numbers$(1 \leq A_i \leq 10^9)$.

Next Q lines contains L, R $(1 \leq L \leq R \leq N)$.

Output

For each query Q print a single line that contains the **summation** of all numbers from index L to index R.

Examples

input
```
6 3
6 4 2 7 2 7
1 3
3 6
1 6
```

output
```
12
18
28
```

input
```
4 3
5 5 2 3
1 3
2 3
1 4
```

output
```
12
7
15
```

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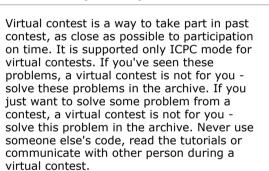- Standard #1 (Frequency , prefix sum , vector , pair ,struct)

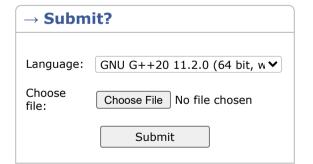### Standard #1 (Frequency , prefix sum , vector , pair ,struct)

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]

→ Last submissions

Submission	Time	Verdict
226288234	Oct/02/2023 14:57	Accepted
226176544	Oct/01/2023 17:37	Accepted
226176357	Oct/01/2023 17:35	Wrong answer on test 4