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Magical Forest & Fruits

Problem

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Problem Statement

In a magical forest, N trees stand in a straight line, each bearing a certain number of enchanted fruits with the power to grant wishes. The number of fruits on the i -th tree is given in an array A of size N .

A group of adventurers is planning a journey to collect fruits and needs to determine the total number of fruits available within different tree ranges. To help them, you must answer Q queries. Each query consists of two integers L and R , representing the range of trees they want to collect fruits from. Your task is to compute the total number of fruits in the range $[L, R]$.

Input Format

- The first line contains two integers N and Q :
 - $1 \leq N \leq 10^6$ (number of trees)
 - $1 \leq Q \leq 10^5$ (number of queries)
- The second line contains N integers A_1, A_2, \dots, A_n , where $0 \leq A_i \leq 10^6$, representing the number of fruits on each tree.
- Each of the next Q lines contains two integers L and R ($1 \leq L \leq R \leq N$), representing a query.

Constraints

- $1 \leq N \leq 10^6$
- $1 \leq Q \leq 10^5$
- $0 \leq A_i \leq 10^6$

Output Format

For each query, print a single integer—the total number of fruits in the range $[L, R]$. Each result should be printed on a new line.

Sample Input 0

```

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

Sample Output 0

7
13
5

Explanation 0

- Query (1,3): Trees 1 to 3 $\rightarrow 2 + 4 + 1 = 7$
- Query (2,5): Trees 2 to 5 $\rightarrow 4 + 1 + 5 + 3 = 13$
- Query (4,4): Tree 4 alone $\rightarrow 5$

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Contest ends in 2 hours 40 minutes 35 seconds

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C++20

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ [Test against custom input](#)

Run Code

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