

## Sum, Sum!

Jojo got homework from his teacher about series. He was asked to add a sequence of number from  $l$  to  $r$ . But because Jojo got a lot of homework, he couldn't do it all. As a good friend of Jojo, you are asked to help Jojo to add the series from  $l$  to  $r$  according to Jojo's homework!

### Format Input

The 1<sup>st</sup> line contains  $N$ , the number in the sequence, and  $Q$ , the number of question.

The 2<sup>nd</sup> line consists of  $N$  integers  $A_i$ , the sequence in Jojo's homework.

The next  $Q$  line contains integers  $l$  and  $r$ , which is the question on Jojo's homework.

### Format Output

Output "Answer #X: Y" for each question, where X is the question number, and Y is the result of the sum.

### Constraints

$$1 \leq N \leq 10^5$$

$$1 \leq Q \leq 10^4$$

$$1 \leq A_i \leq 10^6$$

$$1 \leq l \leq r \leq N$$

Sample Input	Sample Output
5 3	Answer #1: 2
2 3 5 1 2	Answer #2: 10
1 1	Answer #3: 8
1 3	
2 3	