

**Notice:** 1:由于本OJ建立在Linux平台下，而许多题的数据在Windows下制作，请注意输入、输出语句及数据类型及范围，避免无谓的RE出现。 2:本站即将推出针对初学者的试题系统(与目前OJ是分开的，互不影响)，内容覆盖从语法入门到NOI的所有知识点，敬请关注。

## 3212: Pku3468 A Simple Problem with Integers

Time Limit: 1 Sec Memory Limit: 128 MB

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### Description

You have  $N$  integers,  $A_1, A_2, \dots, A_N$ . You need to deal with two kinds of operations. One type of operation is to add some given number to each number in a given interval. The other is to ask for the sum of numbers in a given interval.

### Input

The first line contains two numbers  $N$  and  $Q$ .  $1 \leq N, Q \leq 100000$ .

The second line contains  $N$  numbers, the initial values of  $A_1, A_2, \dots, A_N$ .  $-1000000000 \leq A_i \leq 1000000000$ .

Each of the next  $Q$  lines represents an operation.

"C a b c" means adding  $c$  to each of  $A_a, A_{a+1}, \dots, A_b$ .  $-10000 \leq c \leq 10000$ .

"Q a b" means querying the sum of  $A_a, A_{a+1}, \dots, A_b$ .

### Output

You need to answer all  $Q$  commands in order. One answer in a line.

## Sample Input

```
10 5
```

```
1 2 3 4 5 6 7 8 9 10
```

```
Q 4 4
```

```
Q 1 10
```

```
Q 2 4
```

```
C 3 6 3
```

```
Q 2 4
```

## Sample Output

```
4
```

```
55
```

```
9
```

```
15
```

## HINT

The sums may exceed the range of 32-bit integers.

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Based on opensource project hustoj.