大视野在线测评

F.A.Qs Home Discuss ProblemSet Status Ranklist Contest ModifyUser Logout 捐

free_bzoj

赠木

本

站

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

Submit: 1322 Solved: 572 [Submit][Status][Discuss]

Description

You have N integers, A1, A2, ..., AN. 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. $1 \le N,Q \le 100000$.

The second line contains N numbers, the initial values of A1, A2, ..., AN. -1000000000 \leq Ai \leq 1000000000.

Each of the next Q lines represents an operation.

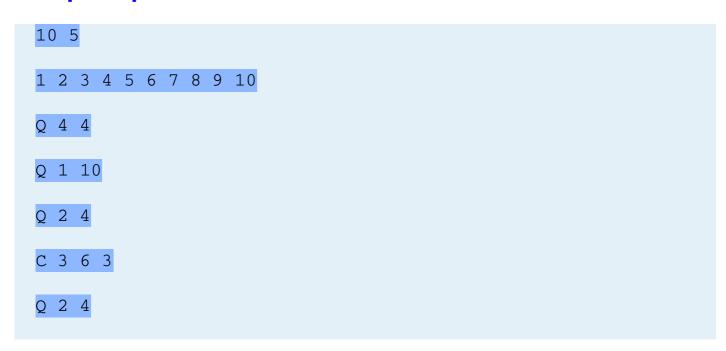
"C a b c" means adding c to each of Aa, Aa+1, ..., Ab. -10000 \leq c \leq 10000.

"Q a b" means querying the sum of Aa, Aa+1, ..., Ab.

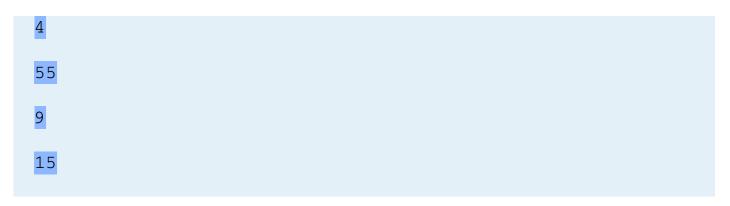
Output

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

Sample Input



Sample Output



HINT

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

Source

[Submit][Status][Discuss]

HOME Back