School renovation

Given N classrooms in a school and ith classroom has a capacity of Alii students. Bob is a builder and follows the instruction of Alice.

Alice gives Q instructions of the following types:

- . 1 L: Move L classrooms left
- · 2 R: Move R classrooms right
- 3 X Y: Remove the next classroom and add two new classrooms of capacity X and Y, respectively to the right of the current classroom. (After performing this operation classroom number changes accordingly)

Note: The queries are always valid.

Initially, Bob is in the fot classroom. After performing all instructions of Alice, print the capacity of all classrooms from 1 to total classrooms.

Function description

Complete the function solve. This function takes the following 2 parameters and returns the required answer:

- . A: Represents a linear array denoting the capacity of classrooms in the old school
- · queries: Represents a 2D array denoting Instruction given by Alice of the given types

Input format for custom testing

Note: Use this input format if you are testing against custom input or writing code in a language where we don't provide boilerplate code.

- . The first line contains two space-separated integers N, Q denoting the initial number of classrooms and the number of instructions.
- The second line contains N space-separated integers denoting initial classroom capacity.

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Auto-complete ready!
                                                                          Save Python 3 (python 3.10)

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     def solve(A, queries):
         bob = 0
         for i in queries :
              if(i[0]==1):
                 bob = bob - i[1]
              elif(i[0]--2):
                 bob = bob + i[1]
             elif(i[0]==3):
                 A.pop(bob+1)
                 A.insert(bob+1,i[2])
                 A.insert(bob+1,i[1])
    N,Q=map(int,input().split())
18 A=list(map(int,input().split()))
20 queries=[]
    for i in range(Q):
         x=list(map(int,input().split()))
         queries.append(x)
    out=solve(A,queries)
     for i in range(len(out)-1):
        print(out[i],end=' ')
 31 print(out[len(out)-1])
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       Test against custom input ▼
                                                                                     Compile & Test code
                                                                                                         Submit code
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