For this problem, we have 2 types of queries you can perform on a List:

1. Insert y at index x:

Insert

ху

2. Delete the element at index  $\boldsymbol{x}$ :

Delete

Χ

Given a list, L, of N integers, perform Q queries on the list. Once all queries are completed, print the modified list as a single line of space-separated integers.

## **Input Format**

The first line contains an integer, N (the initial number of elements in L).

The second line contains N space-separated integers describing L.

The third line contains an integer, Q (the number of queries).

The  $\mathbf{2}\mathbf{Q}$  subsequent lines describe the queries, and each query is described over two lines:

- If the first line of a query contains the String Insert, then the second line contains two space separated integers x y, and the value y must be inserted into L at index x.
- If the first line of a query contains the String **Delete**, then the second line contains index x, whose element must be deleted from L.