Insertions & Deletions

Problem Code: **INSDEL**

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You are given a singly linked list L of N nodes. You have been asked to perform some operations on the linked list. Operations on LinkedList will be performed only in the given order.

- First, Insertion operation at P positions
- Then Deletion operation at Q positions
- And finally, print the LinkedList

Input:

- First line of input contains a single integer N
- Second line of input contains N values representing the nodes of the linked list
- Third line of input contains a single integer P
- Next P lines contain two integers each - the value to be inserted, and the position
- Next line of input contains a single integer Q
- Next Q lines contain a single integer each - the position whose value has to be deleted

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Output:

- The only line of output contains the resultant linked list after performing all the operations

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Constraints

- $0 \leq N \leq 1000$
- $0 \leq P \leq 100$
- $0 \leq Q \leq 100$
- NB : You may assume that the position mentioned for each insertion operation is at most $L + 1$, where L is the current length of the list.

Sample Input:

6

7 53 19 8 14 77

2

1 4

5 6

1

2

Sample Output:

7 19 1 8 5 14 77

EXPLANATION:

The original list constructed is: 7->53->19->8->14->77

First, we have 2 insert operations as follows:

- Insert 1 at position 4
- Resultant list: 7->53->19->1->8->14->77
- Insert 5 at position 6
- Resultant list: 7->53->19->1->8->5->14->77

Then, we have 1 delete operation.

- Delete the element at position 2
- Resultant list: 7->19->1->8->5->14->77

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Source Limit:	50000 Bytes
Languages:	C, CPP14, JAVA, PYTH, PYTH 3.6

Comments