



# 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

## Output:

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

## 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
```

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## 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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Tags: [dsaadmin \(/tags/problems/dsaadmin/\)](/tags/problems/dsaadmin/)

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Time Limit: secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.6

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