

## Week 8: Assignment 8 - Question 1

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### Deletion from Doubly linked list

In this question, you have to write code to remove the first node in a doubly linked list containing a specified number. The code to create the linked list is already given.

The `main()` function calls a function `removeData(head,tail,n)` to remove the first node containing data `n` from the linked list. Complete the code by writing the missing function. You can also write additional functions which you may need.

### Input Format

You will be given a positive number `N` in the first line.  
This will be followed by a line containing `N` integers.  
This will be followed by an integer `M`.

### Output format

The output will be the list after deleting `M`.

**Note :** Only delete the first occurrence of `M` in list. If `M` is not present in the list, no change should happen to the list. Maintain the remaining elements in the original order.

**Note :** You do not have to add any additional code to print the list - once you code the `removeData()` function, the code will print the contents of the remaining list.

**Note:** Ignore the `Passed after ignoring Presentation Error` comment.

### Example

#### Sample Input1

4

1 2 3 4

3

#### Sample Output1

1,2,4

#### Explanation

3 was present in the list and was removed.  
The elements other than 3 are printed.

#### Sample Input2

5

1 2 5 3 4

6

#### Sample Output2

1,2,5,3,4

#### Explanation

6 was not present in the list so nothing was removed.  
All the elements in the list are printed.