

Lab Program 5(B)

1)

Program

LeetCode program :-

Code :-

```
struct ListNode* middleNode(struct ListNode* head) {  
    struct ListNode *slow = head;  
    struct ListNode *fast = head;  
  
    while (fast != NULL && fast->next != NULL) {  
        slow = slow->next;  
        fast = fast->next->next;  
    }  
  
    return slow;  
}
```

OUTPUT :-

Case 1 :-

☒ Testcase | [> Test Result](#)

Accepted Runtime: 0 ms

☒ Case 1 ☒ Case 2

Input

head =
[1,2,3,4,5]

Output

[3,4,5]

Expected

[3,4,5]

Case 2 :-

☒ Testcase | [Test Result](#)

Accepted Runtime: 0 ms

☒ Case 1 ☒ Case 2

Input

head =
[1,2,3,4,5,6]

Output

[4,5,6]

Expected

[4,5,6]

2)

LeetCode program :-

Code :-

```
struct ListNode* removeElements(struct ListNode* head, int val) {  
  
    while (head != NULL && head->val == val) {  
        head = head->next;  
    }  
  
    struct ListNode *curr = head;  
  
    while (curr != NULL && curr->next != NULL) {  
        if (curr->next->val == val) {  
            curr->next = curr->next->next;  
        } else {  
            curr = curr->next;  
        }  
    }  
  
    return head;  
}
```

OUTPUT : -

Case 1 : -

☒ Testcase | [>_ Test Result](#)

Accepted Runtime: 0 ms

☒ Case 1 ☒ Case 2 ☒ Case 3

Input

head =
[1,2,6,3,4,5,6]

val =
6

Output

[1,2,3,4,5]

Expected

[1,2,3,4,5]

Case 2 : -

☒ Testcase | [>_ Test Result](#)

Accepted Runtime: 0 ms

☒ Case 1 ☒ Case 2 ☒ Case 3

Input

head =
[]

val =
1

Output

[]

Expected

[]

Case 3 :-

☒ Testcase | ☒ Test Result

Accepted Runtime: 0 ms

☒ Case 1 ☒ Case 2 ☒ Case 3

Input

head =
[7,7,7,7]

val =
7

Output

[]

Expected

[]