**Lab Program 4(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]

Contribute a testcase

**2)**

**Program - LeetCode program :-**

**Code :-**

```c
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
```
[]
```