

LAB PROGRAM 5-B:REMOVAL OF NODE BY VALUE FROM LL

```
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     struct ListNode *next;
 * };
 */
struct ListNode* removeElements(struct ListNode* head, int val) {
    struct ListNode* temp=head;
    struct ListNode* prev=head;

    if(head==NULL)
    {
        return NULL;
    }
    while(temp!=NULL)
    {
        if(temp->val==val)
        {
            if(temp==head)
            {
                head=head->next;
                temp=temp->next;
                free(prev);
                prev=head;
            }
            else
            {
                prev->next=temp->next;
                free(temp);
            }
        }
    }
}
```

```

        temp=prev->next;

    }

}

else

{

    prev=temp;

    temp=temp->next;

}

}

return head;

}

```

The screenshot displays a web browser window with multiple tabs open, including 'Inbox (310) - siddharth...', 'CS_DataStructures(E)', 'Middle of the Linked List', 'Remove Linked List Elements', 'LeetCode linked list task', and 'siddharthshukla24/sem...'. The active tab is 'Remove Linked List Elements' on the LeetCode website.

The LeetCode interface shows the 'Problem List' for 'Remove Linked List Elements'. The solution is marked as 'Accepted' with a runtime of 3 ms and memory usage of 12.64 MB. The test case details are as follows:

Testcase	Test Result
Case 1	Accepted
Case 2	Accepted
Case 3	Accepted

Input:

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

val = 6

Output:

```
[1, 2, 3, 4, 5]
```

Expected:

```
[1, 2, 3, 4, 5]
```

The bottom of the screenshot shows a Windows taskbar with the date and time '24-11-2023 03:46' and the language 'ENG IN'.

leetcode.com/problems/remove-linked-list-elements/

Problem List

Description Accepted Editorial Solutions

All Submissions

Accepted 66 / 66 testcases passed
submitted at Nov 24, 2025 03:34

BLACK FRIDAY SALE
LIMITED TIME OFFER - \$40 ...
LeetCode's Thanksgiving Sale IS NO...

Runtime
3 ms Beats 17.82%
Analyze Complexity

Memory
12.64 MB Beats 34.08%

Testcase Test Result

Accepted Runtime: 0 ms

Case 1 Case 2 Case 3

Input

head =
[]

val =
1

Output

[]

Expected

[]

Contribute a testcase

21°C Mostly cloudy

leetcode.com/problems/remove-linked-list-elements/

Problem List

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Runtime
3 ms Beats 17.82%
Analyze Complexity

Memory
12.64 MB Beats 34.08%

Testcase Test Result

Accepted Runtime: 0 ms

Case 1 Case 2 Case 3

Input

head =
[7,7,7,7]

val =
7

Output

[]

Expected

[]

Contribute a testcase

21°C Mostly cloudy