DS lab program 5a - srava | CS_DataStructures(E) E | Remove Linked List Eleme | Middle of the Linked List - | Course Summary | sravanthirekulakunta/DS-1

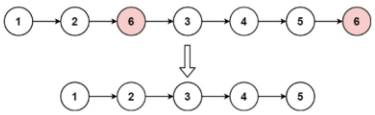
leetcode.com/problems/remove-linked-list-elements/

Problem List | Submit | Premium

Description | Editorial | Solutions | Submissions

Given the `head` of a linked list and an integer `val`, remove all the nodes of the linked list that has `Node.val == val`, and return *the new head*.

Example 1:



```
Input: head = [1,2,6,3,4,5,6], val = 6
Output: [1,2,3,4,5]
```

Example 2:

```
Input: head = [], val = 1
Output: []
```

Example 3:

```
Input: head = [7,7,7,7], val = 7
Output: []
```

Constraints:

8.9K | 85 | 44 Online

Code

C++ | Auto

```cpp
class Solution {
public:
    ListNode* removeElements(ListNode* head, int val) {
        ListNode* dummy = new ListNode(0);
        dummy->next = head;

        ListNode* current = dummy;

        while (current->next != NULL) {
            if (current->next->val == val) {
                ListNode* temp = current->next;
                current->next = current->next->next;
                delete temp;
            } else {
                current = current->next;
            }
        }

        ListNode* newHead = dummy->next;
        delete dummy;

        return newHead;
    }
};
```

Saved | Ln 19, Col 37

Testcase | Test Result

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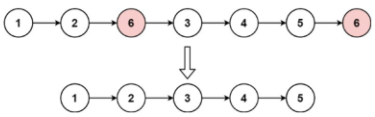

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```

Constraints:

- The number of nodes in the list is in the range `[0, 10^4]`.
- `1 <= Node.val <= 50`
- `0 <= val <= 50`

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Code

C++ | Auto

```cpp
/**
```

Saved | Ln 14, Col 25

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

Problem List

Description | Editorial | Solutions | Submissions

Given the `head` of a linked list and an integer `val`, remove all the nodes of the linked list that has `Node.val == val`, and return *the new head*.

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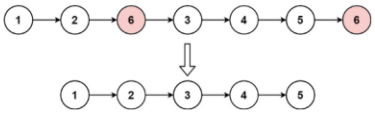


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Saved | Ln 14, Col 25

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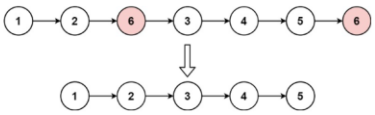


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Contribute a testcase