

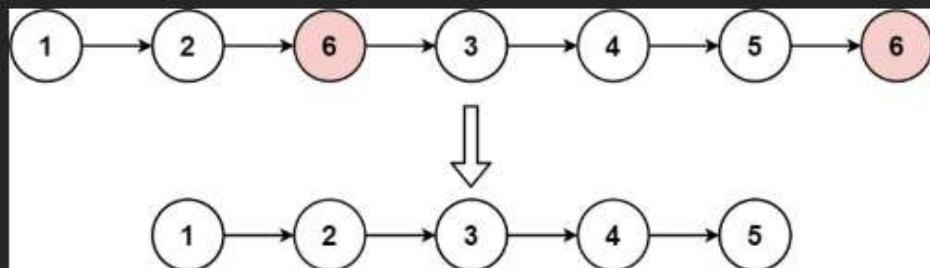
203. Remove Linked List Elements

Solved 

Easy Topics Companies

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:

- The number of nodes in the list is in the range $[0, 10^4]$.
- $1 \leq \text{Node.val} \leq 50$
- $0 \leq \text{val} \leq 50$

C Auto

```
1 /**
2  * Definition for singly-linked list.
3  * struct ListNode {
4  *     int val;
5  *     struct ListNode *next;
6  * };
7 */
8 struct ListNode* removeElements(struct ListNode* head, int val) {
9     struct ListNode* temp;
10    while (head != NULL && head->val == val) {
11        temp = head;
12        head = head->next;
13        free(temp);
14    }
15
16    if (head == NULL) return head;
17
18    struct ListNode* current = head;
19    while (current->next != NULL) {
20        if (current->next->val == val) {
21            temp = current->next;
22            current->next = current->next->next;
23            free(temp);
24        } else {
25            current = current->next;
26        }
27    }
28
29    return head;
30 }
```

Saved Ln 1, Col 1

```
24        } else {
25            current = current->next;
26        }
27    }
28
29    return head;
30 }
```

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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]
```