

203. Remove Linked List Elements

Solved ✓

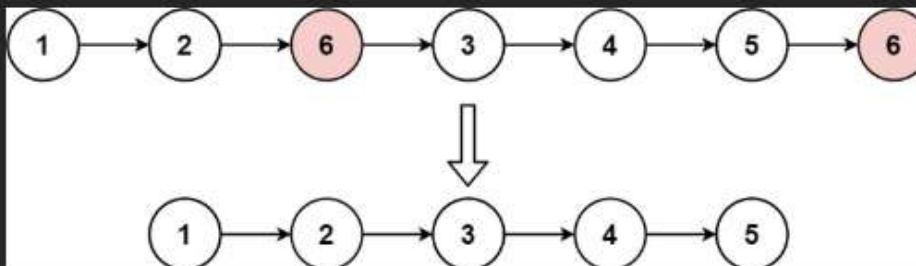
Easy

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, 104]`.
- `1 <= Node.val <= 50`
- `0 <= val <= 50`

```
C v 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);

```

Saved Ln 1, Col 1

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

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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]