

Remove Linked list elements:

203. Remove Linked List Elements

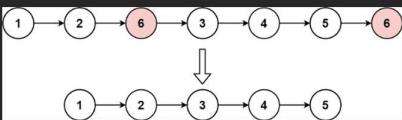
Easy

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:

[]

```
* Definition for singly-linked list.
* struct ListNode {
*     int val;
*     struct ListNode *next;
* };
*/
struct ListNode* removeElements(struct ListNode* head, int val) {
    if(head==NULL){
        return head;
    }
    struct ListNode * empty=(struct ListNode *)malloc(sizeof(struct ListNode));
    empty->next=head;

    struct ListNode * temp,*prev;
    prev=empty;
    temp=head;

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

Output:

Input

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

val =
6

Output

[1,2,3,4,5]

Expected

[1,2,3,4,5]