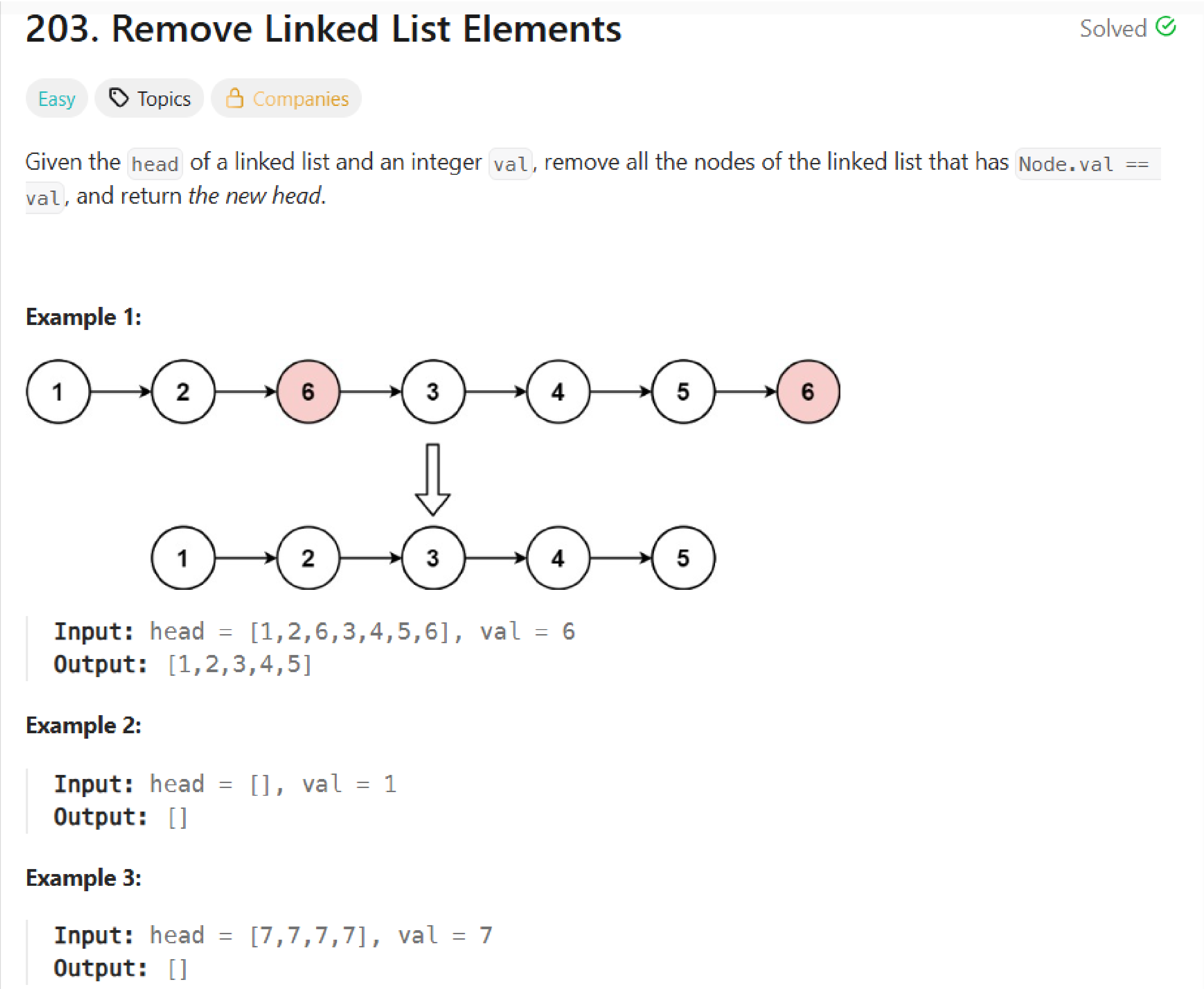


203. Remove Linked List Elements

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:

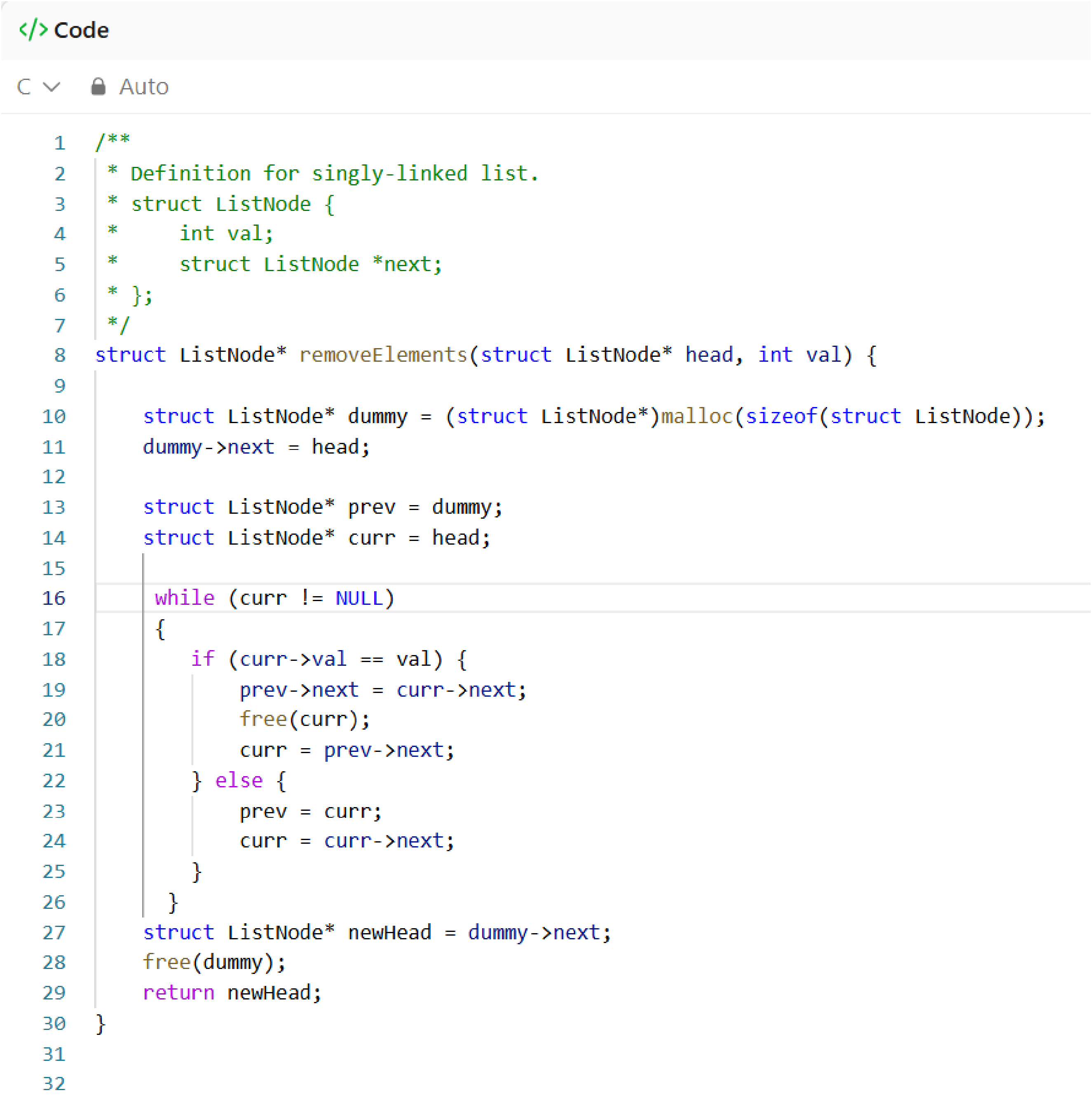
```
Input: head = [1,2,6,3,4,5,6], val = 6
Output: [1,2,3,4,5]
```

Example 2:

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

Example 3:

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



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

    struct ListNode* dummy = (struct ListNode*)malloc(sizeof(struct ListNode));
    dummy->next = head;

    struct ListNode* prev = dummy;
    struct ListNode* curr = head;

     while (curr != NULL)
     {
        if (curr->val == val) {
            prev->next = curr->next;
            free(curr);
            curr = prev->next;
        } else {
            prev = curr;
            curr = curr->next;
        }
      }
    struct ListNode* newHead = dummy->next;
    free(dummy);
    return newHead;
}


```