

LeetCode

Explore

Problems

Interview

Contest

Discuss

Store

Description

Solution

Discuss (999+)

Submissions

19. Remove Nth Node From End of List

Medium

8651

411

Add to List

Share

Given the `head` of a linked list, remove the n^{th} node from the end of the list and return its head.

Example 1:

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

Example 2:

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

Example 3:

Input: `head = [1,2]`, `n = 1`
Output: `[1]`

Java

Autocomplete

```
1 class ListNode {
2     int val;
3     ListNode next;
4     ListNode(int val, ListNode next) { this.val = val; this.next = next; }
5 }
6
7
8
9
10
11 class Solution {
12     public ListNode removeNthFromEnd(ListNode head, int n) {
13         ListNode dummyNode = new ListNode(0, head);
14         ListNode fastNode = dummyNode;
15         ListNode slowNode = dummyNode;
16
17         for(int i=0; i<n; i++) {
18             fastNode = fastNode.next;
19         }
20
21         while(fastNode.next != null) {
22             fastNode = fastNode.next;
23             slowNode = slowNode.next;
24         }
25
26         slowNode.next = slowNode.next.next;
27
28         return dummyNode.next;
29     }
30 }
```

Your previous code was restored from your local storage. [Reset to default](#)

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

Your input

[1,2,3,4,5]

2

Output

[1,2,3,5]

Diff

Expected

[1,2,3,5]