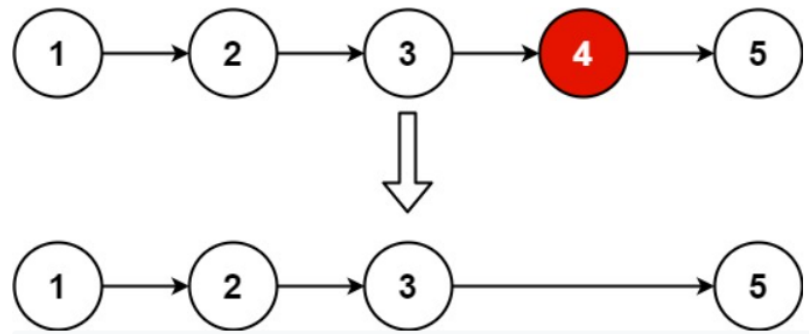


19. Remove Nth Node From End of List

Medium 11678 523 Add to List Share

Given the head of a linked list, remove the nth 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: []

Java

Autocomplete

```
1 /**
2  * Definition for singly-linked list.
3  * public class ListNode {
4  *     int val;
5  *     ListNode next;
6  *     ListNode() {}
7  *     ListNode(int val) { this.val = val; }
8  *     ListNode(int val, ListNode next) { this.val = val; this.next = next; }
9  * }
10 */
11 class Solution {
12     public ListNode removeNthFromEnd(ListNode head, int n) {
13
14         ListNode res=new ListNode(0);
15         res.next=head;
16         ListNode slow=res,fast=res;
17
18         while(n>=0 && fast!=null){
19             fast=fast.next;
20             n--;
21         }
22
23         while(fast!=null){
24             slow=slow.next;
25             fast=fast.next;
26         }
27         slow.next=slow.next.next;
28         return res.next;
29     }
30 }
31
```