19. Remove Nth Node From End of List

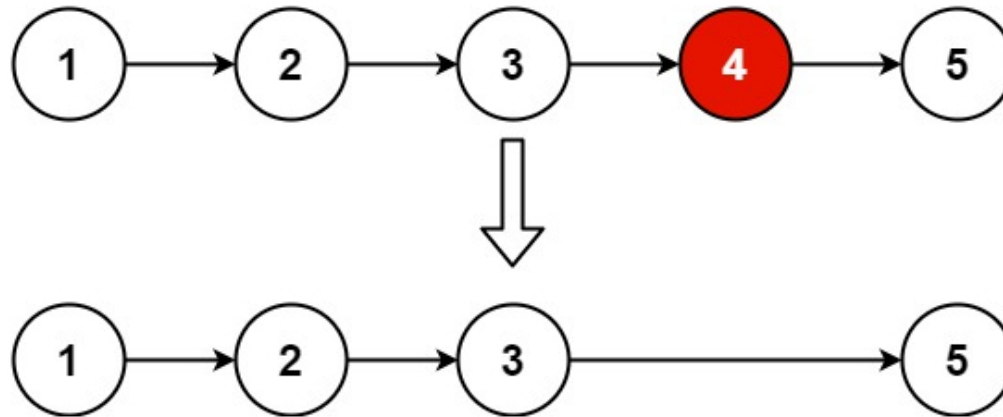Medium   ◇ Topics   🔒 Companies   ♡ Hint

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: []
```

Example 3:

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

Constraints:

- The number of nodes in the list is `sz`.
- `1 <= sz <= 30`

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| Description | Accepted | Editorial | Solutions | Submissions |

Code

← All Submissions

C   Auto

Accepted 208 / 208 testcases passed

Editorial   Solution

fdcekDDIKM submitted at Nov 17, 2025 12:00

```
1  /**
2   * Definition for singly-linked list.
3   * struct ListNode {
4   *     int val;
5   *     struct ListNode *next;
6   * };
7   */
8  struct ListNode* removeNthFromEnd(struct ListNode* head, int n) {
9      struct ListNode dummy;
10     dummy.next=head;
11
12     struct ListNode *fast=&dummy;
13     struct ListNode *slow=&dummy;
14
15     for(int i=0;i<=n;i++){
16         fast=fast->next;
17     }
18     while(fast!=NULL){
19         fast = fast->next;
20         slow = slow->next;
21     }
```
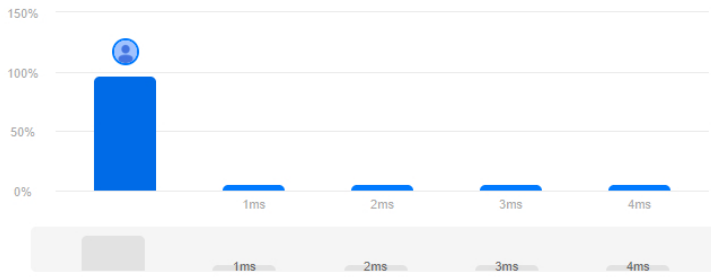
Runtime

0 ms | Beats **100.00%** 👏

Analyze Complexity

Memory

9.54 MB | Beats **32.48%**

150%

100%

50%

0%

1ms   2ms   3ms   4ms

1ms   2ms   3ms   4ms

Saved   Ln 15, Col 20

Testcase | Test Result

Code | C

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

head =

[1,2,3,4,5]

n =

2

⌄ View more

Output

[1,2,3,5]

More challenges

• 1721. Swapping Nodes in a Linked List   • 1474. Delete N Nodes After M Nodes of a Linked List

Expected

[1,2,3,5]

• 2095. Delete the Middle Node of a Linked List

♡ Contribute a testcase