

19. Remove Nth Node From End of List

Medium

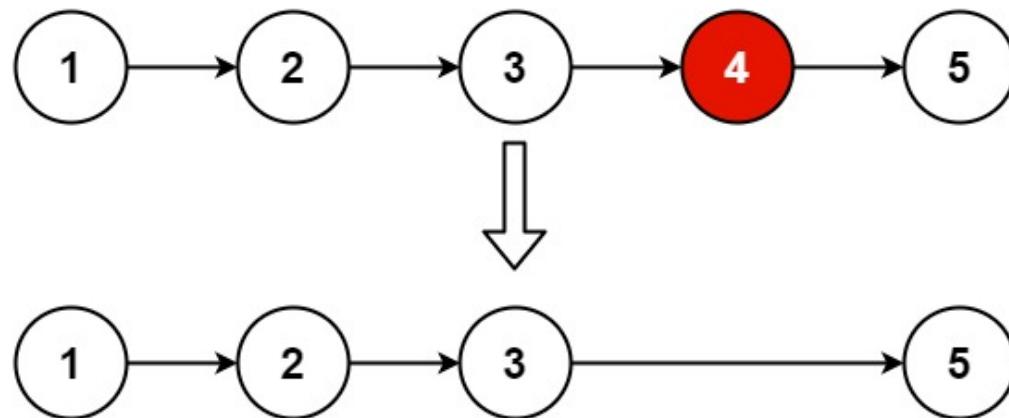
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Hint

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]`

Constraints:

- The number of nodes in the list is `sz`.

- $1 \leq sz \leq 30$

Home | leetcode.com/problems/remove-nth-node-from-end-of-list/submissions/1832025664/?envType=study-plan-v2&envId=top-interview-150 | Linked List Cycle - LeetCode | Remove Nth Node From End of List

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Accepted 208 / 208 testcases passed
fdcekkDDIKM submitted at Nov 17, 2025 12:00

Runtime: 0 ms | Beats 100.00% | Memory: 9.54 MB | Beats 32.48%

Analyze Complexity

Runtime Analysis: A bar chart showing execution time distribution. The x-axis represents time from 1ms to 4ms, and the y-axis represents percentage from 0% to 150%. A single blue bar reaches nearly 100% at approximately 0.5ms.

Code C

```
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    }

```

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Testcase | Test Result

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

n = 2

Output [1,2,3,5]

Expected [1,2,3,5]

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More challenges

- 1721. Swapping Nodes in a Linked List
- 1474. Delete N Nodes After M Nodes of a Linked List
- 2095. Delete the Middle Node of a Linked List

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