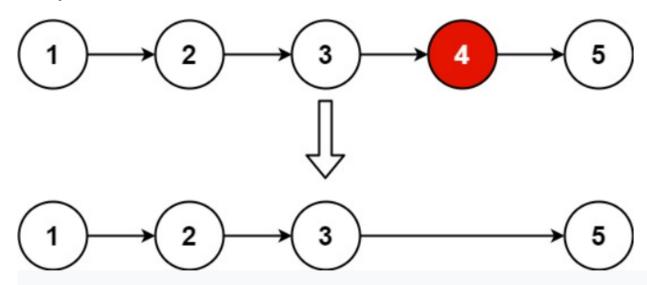
- 1 19 | Medium | Remove Nth Node From End of List | Linked List
- 2
- 3 Given the head of a linked list, remove the nth node from the end of the list
- 4 and return its head.
- 5
- 6 Constraints:
- 7 The number of nodes in the list is sz.
- 8 1 <= sz <= 30
- 9 0 <= Node.val <= 100
- 10 **1** <= n <= sz

## 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]

```
// to get the length of the LL
   int getLength(ListNode *head) {
       ListNode* t = head;
       int count = 0;
       while(t) {
 6
           count++;
           t = t->next;
8
       return count;
9
10 }
```

```
1 ListNode* removeNthFromEnd(ListNode* head, int n) {
       ListNode *p1 = head;
       // if we need to delete first node.
       if(getLength(head) == n) {
           return head->next;
       while(n>1) {
           p1 = p1->next;
11
           n--;
12
13
       ListNode* slow = head, *fast = p1->next;
14
       while(fast != NULL && fast->next != NULL) {
15
           slow = slow->next;
           fast = fast->next;
17
19
       ListNode* del = slow->next;
       slow->next = slow->next->next;
21
       delete del;
22
       return head;
23
```

## #100daysofDSA











/rvislive

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