

Description

Solution

Discuss (999+)

Submissions

1721. Swapping Nodes in a Linked List

Medium

1816

77

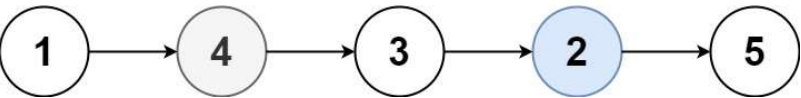
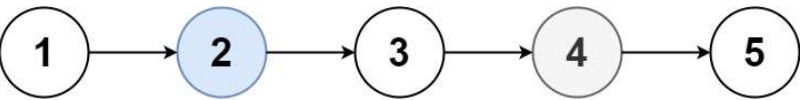
Add to List

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You are given the `head` of a linked list, and an integer `k`.

Return the head of the linked list after **swapping** the values of the k^{th} node from the beginning and the k^{th} node from the end (the list is **1-indexed**).

Example 1:



Input: head = [1,2,3,4,5], k = 2

Output: [1,4,3,2,5]

Example 2:

Input: head = [7,9,6,6,7,8,3,0,9,5], k = 5

Output: [7,9,6,6,8,7,3,0,9,5]

Constraints:

- The number of nodes in the list is `n`.
- $1 \leq k \leq n \leq 10^5$
- $0 \leq \text{Node.val} \leq 100$

Accepted 107,853

Submissions 163,511

Seen this question in a real interview before?

Yes

No

Companies

```
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;
9   *         this.next = next; }
10    */
11  class Solution {
12  public ListNode swapNodes(ListNode head, int k) {
13
14      ListNode slowPointer = head;
15      ListNode fastPointer = head;
16      ListNode tempPointer = head;
17
18      for(int i = 1; i < k; i++)
19          fastPointer = fastPointer.next;
20
21      tempPointer = fastPointer;
22
23      while(fastPointer != null && fastPointer.next !=
24      null){
25          fastPointer = fastPointer.next;
26          slowPointer = slowPointer.next;
27      }
28
29      int temp = slowPointer.val;
30      slowPointer.val = tempPointer.val;
31      tempPointer.val = temp;
32
33      return head;
34  }
35  }
```

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