

5652. Swapping Nodes in a Linked List

My Submissions (/contest/weekly-contest-223/problems/swapping-nodes-in-a-linked-list/submissions/)

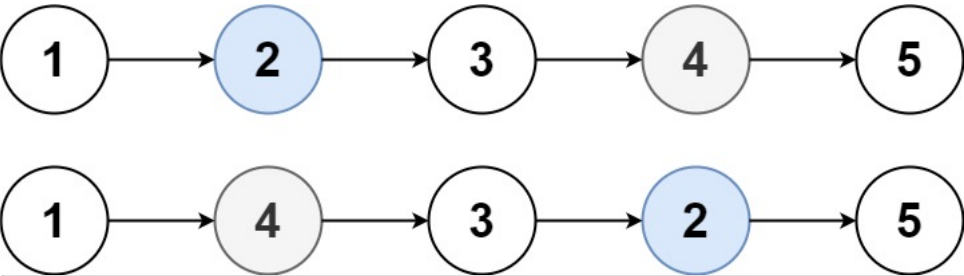
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You are given the head of a linked list, and an integer k .

Return the head of the linked list after **swapping** the values of the kth node from the beginning and the kth node from the end (the list is **1-indexed**).

| | |
|--------------------|--------|
| User Accepted: | 0 |
| User Tried: | 0 |
| Total Accepted: | 0 |
| Total Submissions: | 0 |
| Difficulty: | Medium |

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

Example 3:

Input: head = [1], k = 1

Output: [1]

Example 4:

Input: head = [1,2], k = 1

Output: [2,1]

Example 5:

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

Output: [1,2,3]

Constraints:

- The number of nodes in the list is n .
- 1 <= k <= n <= 10⁵
- 0 <= Node.val <= 100

JavaScript

```
1 /**
2  * Definition for singly-linked list.
3  * function ListNode(val, next) {
4  *     this.val = (val===undefined ? 0 : val)
5  *     this.next = (next===undefined ? null : next)
6  * }
7  */
8 /**
9  * @param {ListNode} head
10 * @param {number} k
11 * @return {ListNode}
12 */
```

```
13 ▾ const getAllData = (list) => {
14     let res = [];
15     let current = list;
16 ▾   while (current) {
17       res.push(current.val);
18       current = current.next;
19     }
20     return res;
21   };
22
23 ▾ const createL = (arr) => {
24     let tmp, node = null;
25     let n = arr.length;
26 ▾   for (let i = n - 1; ~i; i--) {
27 ▾     if (!node) {
28       node = new ListNode(arr[i]);
29 ▾     } else {
30       tmp = new ListNode(arr[i]);
31       tmp.next = node;
32       node = tmp;
33     }
34   }
35   return node;
36 };
37
38 ▾ const swapNodes = (head, k) => {
39     let a = getAllData(head);
40     let n = a.length;
41     let i = 0;
42     let j = n - 1;
43 ▾   while (i < k - 1) {
44     i++;
45     j--;
46   }
47   [a[i], a[j]] = [a[j], a[i]];
48   return createL(a);
49 };
```

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