**Problem Name:** Remove nth node from end list

**Topics:** Linked list, Two Pointers

**Companies:**

**Level:** Medium

**Language:** C++

**Problem Statement**: Given the head of a linked list, remove the nth node from the end of the list and return its head.

**Input Format:**

First line of the input contain integer n (size of list)

Second line contain n space separated integer list values.

Last line contain integer value pos representing nth node.

Ex:

5

1 2 3 4 5

1

**Output Format:** Print linked list after removing nth node

**Constraints:**

* The number of nodes in the list is sz.
* 1 <= sz <= 30
* 0 <= Node.val <= 100
* 1 <= n <= sz

**Examples:**

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

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

**Solution:**

**Explanation**

**Code:**

**Time Complexity**: O(N)

**Space Complexity:** O(1)

**Optimized Solution:**

**Explanation:**

**Code:**

**Time Complexity**: O(1)

**Space Complexity:** O(1)