**Problem Name:** Rotate list

**Topics:**  Linked list, Two Pointers

**Companies:**

**Level:** Medium

**Language:** C++

**Problem Statement**: Given the head of a linked list, rotate the list to the right by k places.

**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 index where to rotate.

Ex:

5

1 2 3 4 5

1

**Output Format:** Print linked list after rotating right by k.

**Constraints:**

* The number of nodes in the list is in the range [0, 500].
* -100 <= Node.val <= 100
* 0 <= k <= 2 \* 109

**Examples:**

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

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

**Solution:**

**Explanation:**

**Code:**

**Time Complexity**: O(N)

**Space Complexity:** O(1)

**Optimized Solution:**

**Explanation:**

**Code:**

**Time Complexity**: O(1)

**Space Complexity:** O(1)