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/**
 * Definition for singly-linked list.
 * public class ListNode {
 *     int val;
 *     ListNode next;
 *     ListNode(int x) { val = x; }
 * }
 */
class Solution {
    public ListNode reverseKGroup(ListNode head, int k) {
        ListNode node = getKFromList(head, k);
        if (node == null)
            return head;
        ListNode n = node.next;
        node.next = null;
        reverse(head);
        head.next = reverseKGroup(n, k);
        return node;
    }

    public ListNode reverse(ListNode head) {
        ListNode pre = null;
        while (head != null) {
            ListNode node = head.next;
            head.next = pre;
            pre = head;
            head = node;
        }
        return pre;
    }

    public ListNode getKFromList(ListNode head, int k) {
        int len = 0;
        while (head != null && len < k - 1) {
            head = head.next;
            len++;
        }
        return head;
    }
}

```