

15/2/24

LectCode - 4

Rotate List

```

struct ListNode* rotateRight (struct ListNode* head,
                                int k) {
    struct ListNode * ptr = head;
    int count = 1;
    if (head == NULL || head->next == NULL || k == 0)
        return head;
    else
    {
        while (ptr->next != NULL)
        {
            ptr = ptr->next;
            count++;
        }
        if (k % count == 0)
            return head;
        ptr->next = head;
        for (int i = k % count; i < count; i++)
        {
            ptr = ptr->next;
        }
        head = ptr->next;
        ptr->next = NULL;
        return head;
    }
}

```

I/p → head = [1, 2, 3, 4, 5], k = 2  
 O/p → [4, 5, 1, 2, 3]