HW 08: Rotate List (Leetcode-61)

find Lington of List Find mulas+ Noull positions Styp1 Actual Rotation = K % longth vist lungtue 5 = 2%5 mw last week posi = Jun - Actual Roter - 1 51483 = 5-2-1

```
. . .
class Solution {
public:
   int getLength(ListNode* head){...}
   ListNode* rotateRight(ListNode* head, int k) {
       if(!head) return NULL;
        int len = getLength(head);
        int actualRotateK = k % len;
        if(actualRotateK == 0) return head;
```

```
int getLength(ListNode* head){
   ListNode* temp = head;
   int len = 0;

   while(temp){
       len++;
       temp = temp->next;
   }

   return len;
}
```

. .

J.C. => O(N)

```
int newLastNodePos = len - actualRotateK - 1;
ListNode* newLastNode = head;
for(int i=0; i<newLastNodePos; i++){
    newLastNode = newLastNode->next;
}

// Save newLastNode->next in newHead to track
ListNode* newHead = newLastNode->next;
newLastNode->next = NULL;

// newHead ka next node yadi null ho jata hai
// to use old Head se meet kara do
ListNode* it = newHead;
while(it->next != NULL){
    it = it->next;
}
it->next = head;
return newHead;
```