

Problem 61: Rotate List

Problem Information

Difficulty: Medium

Acceptance Rate: 40.78%

Paid Only: No

Tags: Linked List, Two Pointers

Problem Description

Given the `head` of a linked list, rotate the list to the right by `k` places.

Example 1:

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

Example 2:

Input: head = [0,1,2], k = 4 **Output:** [2,0,1]

Constraints:

* The number of nodes in the list is in the range `[0, 500]`. * $-100 \leq \text{Node.val} \leq 100$ * $0 \leq k \leq 2 \cdot 10^9$

Code Snippets

C++:

```
/*
 * Definition for singly-linked list.
 */
```

```

* struct ListNode {
* int val;
* ListNode *next;
* ListNode() : val(0), next(nullptr) {}
* ListNode(int x) : val(x), next(nullptr) {}
* ListNode(int x, ListNode *next) : val(x), next(next) {}
* };
*/
class Solution {
public:
ListNode* rotateRight(ListNode* head, int k) {

}
};

```

Java:

```

/**
 * Definition for singly-linked list.
 * public class ListNode {
* int val;
* ListNode next;
* ListNode() {}
* ListNode(int val) { this.val = val; }
* ListNode(int val, ListNode next) { this.val = val; this.next = next; }
* }
*/
class Solution {
public ListNode rotateRight(ListNode head, int k) {

}
}

```

Python3:

```

# Definition for singly-linked list.
# class ListNode:
# def __init__(self, val=0, next=None):
# self.val = val
# self.next = next
class Solution:

def rotateRight(self, head: Optional[ListNode], k: int) ->

```

Optional[ListNode]: