

Rotate List

Question

Solution

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Total Accepted: **48263** Total Submissions: **222728** Difficulty: **Medium**

Given a list, rotate the list to the right by k places, where k is non-negative.

For example:

Given 1->2->3->4->5->NULL and $k = 2$,

return 4->5->1->2->3->NULL.

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Python



```

1  # Definition for singly-linked list.
2  # class ListNode(object):
3  #     def __init__(self, x):
4  #         self.val = x
5  #         self.next = None
6
7  class Solution(object):
8      def rotateRight(self, head, k):
9          """
10             :type head: ListNode
11             :type k: int
12             :rtype: ListNode
13             """
14             p=head;len=0
15             while p!=None:
16                 p=p.next
17                 len+=1
18             if len==0 or k%len==0:return head
19             k%=len
20             p=head;s=head;
21             while k>0 and p != None:
22                 k-=1
23                 p=p.next
24             while p.next!=None:
25                 p=p.next
26                 s=s.next
27             t = s.next
28             s.next = None
29             p.next = head
30             return t

```

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