

61. Rotate List ★

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Total Accepted: **81615** Total Submissions: **345602** Difficulty: **Medium**

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

For example:

Given $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow \text{NULL}$ and $k = 2$,

return $4 \rightarrow 5 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow \text{NULL}$.

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C++



```
1  /**
2   * Definition for singly-linked list.
3   * struct ListNode {
4   *     int val;
5   *     ListNode *next;
6   *     ListNode(int x) : val(x), next(NULL) {}
7   * };
8   */
9  class Solution {
10 public:
11     ListNode* rotateRight(ListNode* head, int k) {
12         if (!head) return head;
13         ListNode* curNode = head, *endNode = NULL;
14         vector<ListNode*> cache;
15         while (curNode) {
16             cache.push_back(curNode);
17             curNode = curNode->next;
18         }
19         k %= cache.size();
20         if (k == 0) {
21             return head;
22         }
23         else {
24             cache.back()->next = cache.front();
25             cache[cache.size() - k] ->next = NULL;
26             return cache[cache.size() - k];
27         }
28     }
29 };
// Send Feedback (mailto:admin@leetcode.com?subject=Feedback)
```

```
27     }  
28     }  
29 }
```

Custom Testcase ☐

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 Notes

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