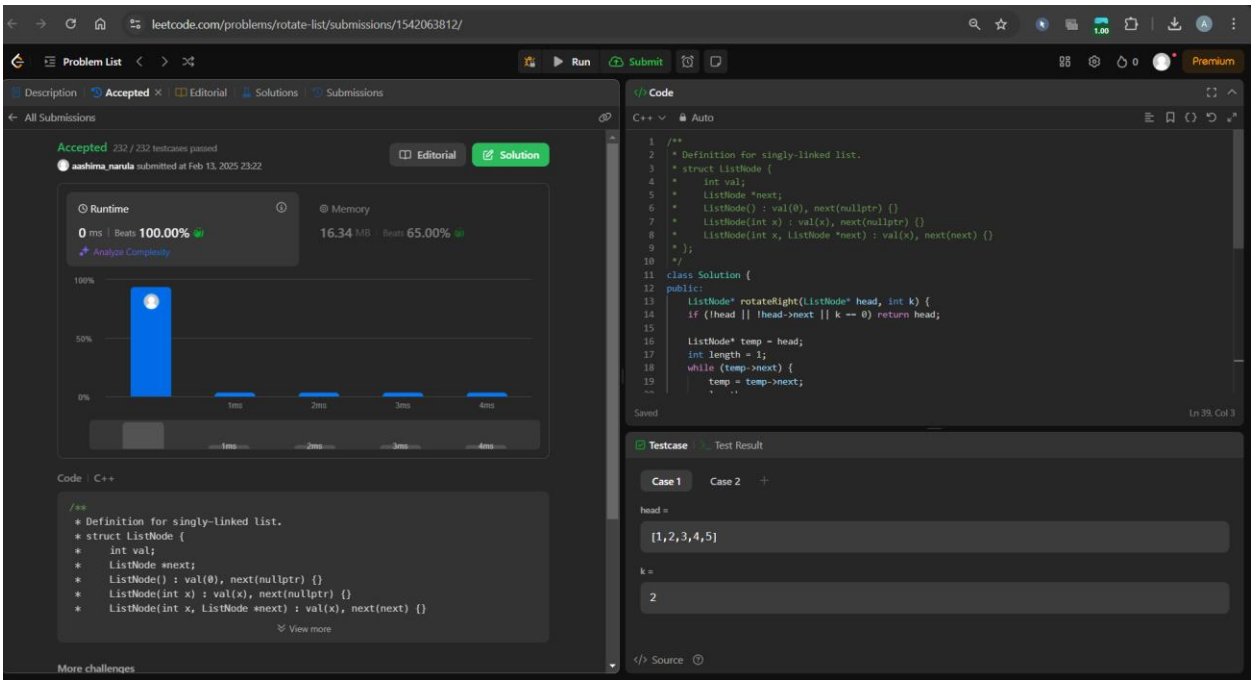
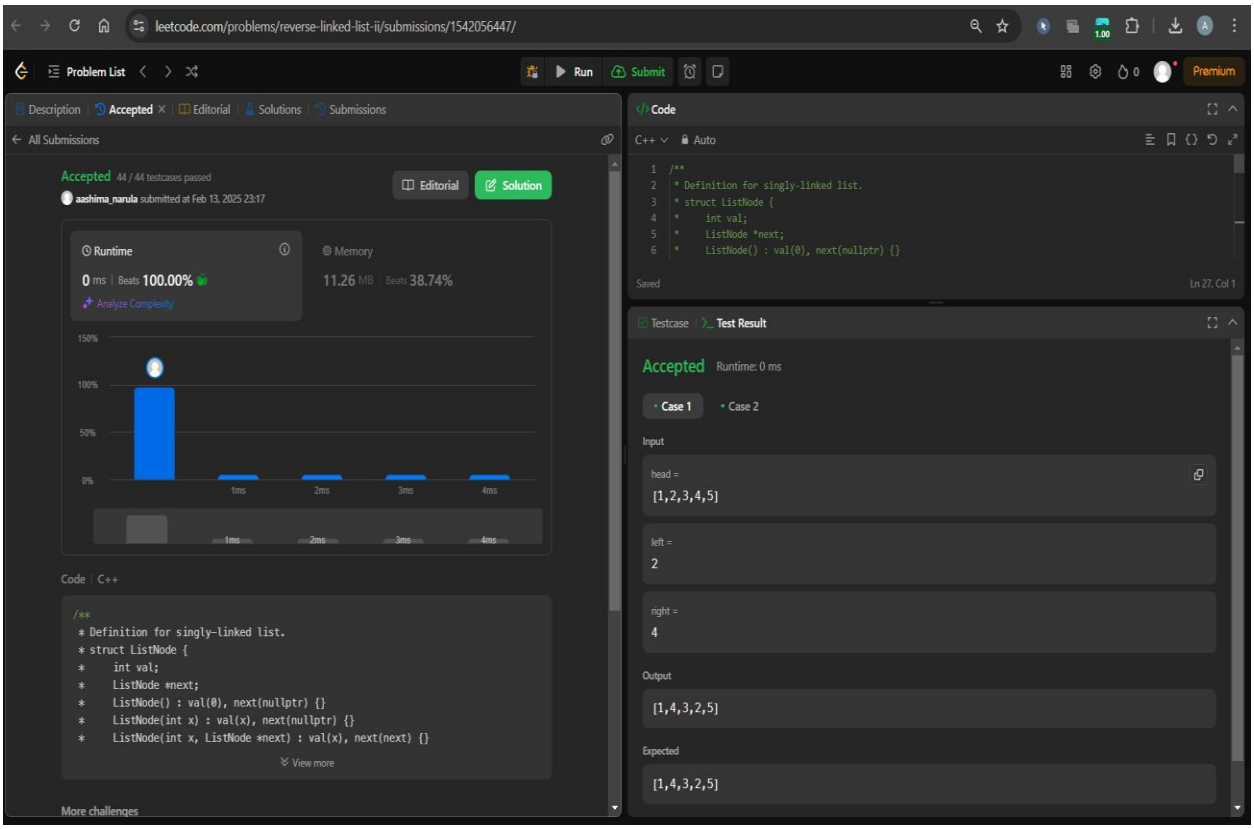
61. rotate a list

```
class Solution {
public:
    ListNode* rotateRight(ListNode* head, int k) {
    if (!head || !head->next || k == 0) return head;

    ListNode* temp = head;
    int length = 1;
    while (temp->next) {
        temp = temp->next;
        length++;
    }

    k = k % length;
    if (k == 0) return head;

    ListNode* newTail = head;
    for (int i = 1; i < length - k; ++i) {
        newTail = newTail->next;
    }

    ListNode* newHead = newTail->next;

    temp->next = head;

    newTail->next = nullptr;
```

```
    return newHead;
    }
};
```




leetcode.com/problems/reverse-linked-list-ii/submissions/1542056447/
Problem List
Run
Submit
Premium
Description
Accepted
Editorial
Solutions
Submissions
All Submissions
Accepted 44 / 44 testcases passed
aashima_narula submitted at Feb 13, 2025 23:17
Editorial
Solution
Runtime
0 ms | Beats 100.00%
Analyze Complexity
Memory
11.26 MB | Beats 38.74%
150%
100%
50%
0%
1ms
2ms
3ms
4ms
Code | 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) {}
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Code
C++
Auto
/**
* Definition for singly-linked list.
* struct ListNode {
*   int val;
*   ListNode *next;
*   ListNode() : val(0), next(nullptr) {}
Saved
Ln 27, Col 1
Testcase
Test Result
Accepted
Runtime: 0 ms
Case 1
Case 2
Input
head =
[1,2,3,4,5]
left =
2
right =
4
Output
[1,4,3,2,5]
Expected
[1,4,3,2,5]