

Remove Nth Node From End of List (/problems/remove-nth-node-from-end-of-list/)

Submission Detail

208 / 208 test cases passed.

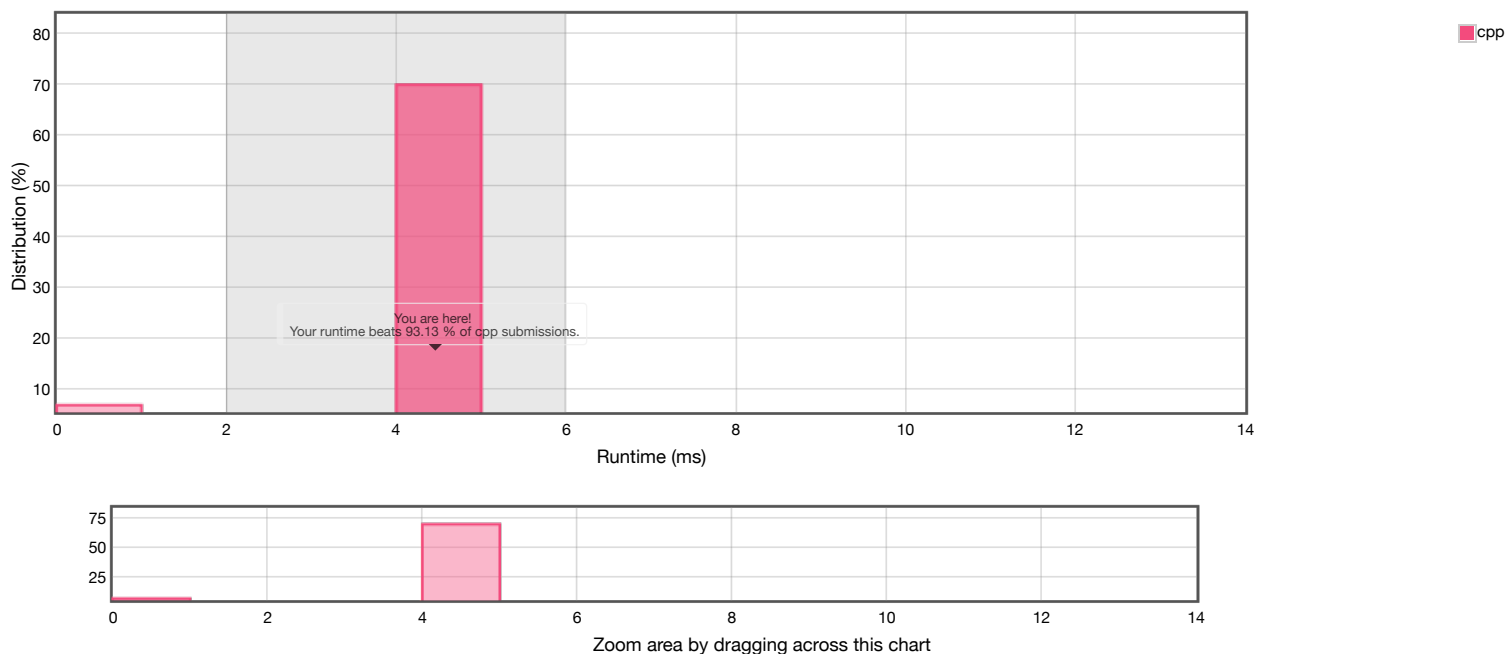
Runtime: 4 ms

Memory Usage: 6.7 MB

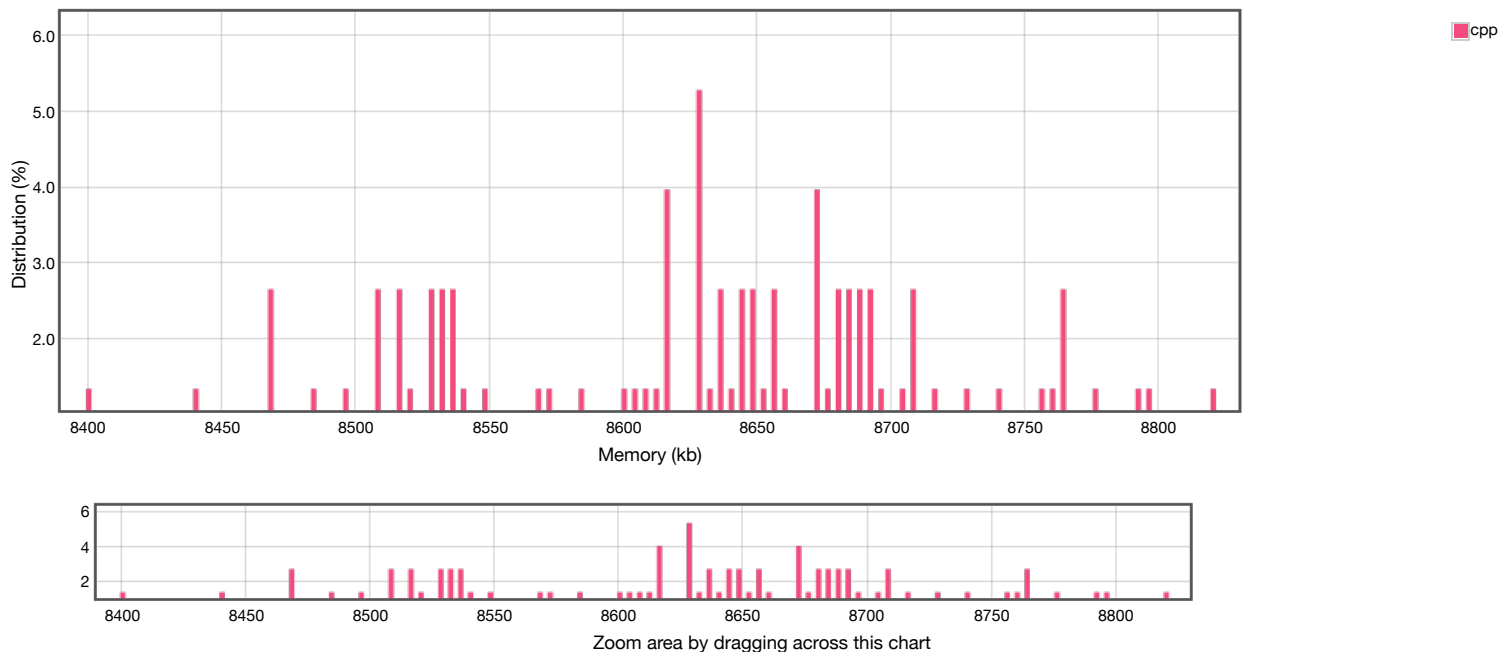
Status: **Accepted**

Submitted: 0 minutes ago

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution

Invite friends to challenge **Remove Nth Node From End of List**

◀ 48

Submitted Code: 0 minutes ago

Language: cpp

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```
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* removeNthFromEnd(ListNode* head, int n) {
12         ListNode* fast = head;
13         ListNode* slow = head;
14
15         // Get the fast pointer n nodes away from the slow pointer
16         for (int i = 0; i < n; i++) {
17             fast = fast->next;
18             if (!fast)
19                 return head->next;
20         }
21
22         // Move both nodes until fast has reached end of list
23         while (fast->next) {
24             slow = slow->next;
25             fast = fast->next;
26         }
27
28         slow->next = slow->next->next;    // Skip over node n
29
30         return head;
31     }
32 };
```

[Back to problem \(/problems/remove-nth-node-from-end-of-list/\)](/problems/remove-nth-node-from-end-of-list/)