Description | Editorial | Solutions | Submissions

876. Middle of the Linked List

Easy | Topics | Companies

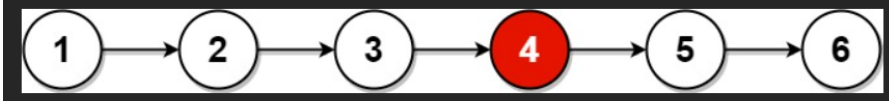
Given the `head` of a singly linked list, return *the middle node of the linked list.*

If there are two middle nodes, return **the second middle** node.

Example 1:


```
Input: head = [1,2,3,4,5]
Output: [3,4,5]
Explanation: The middle node of the list is node 3.
```

Example 2:




```
Input: head = [1,2,3,4,5,6]
Output: [4,5,6]
Explanation: Since the list has two middle nodes with values 3 and 4, we return the second one.
```

12.9K | 241

Code

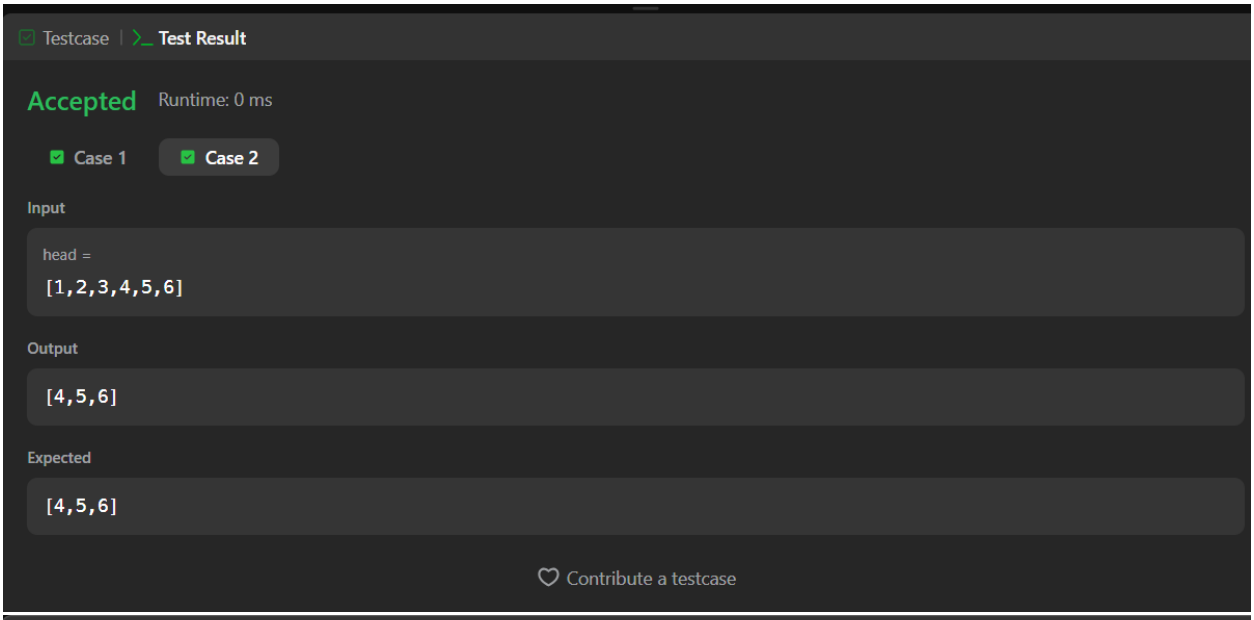
C | Auto

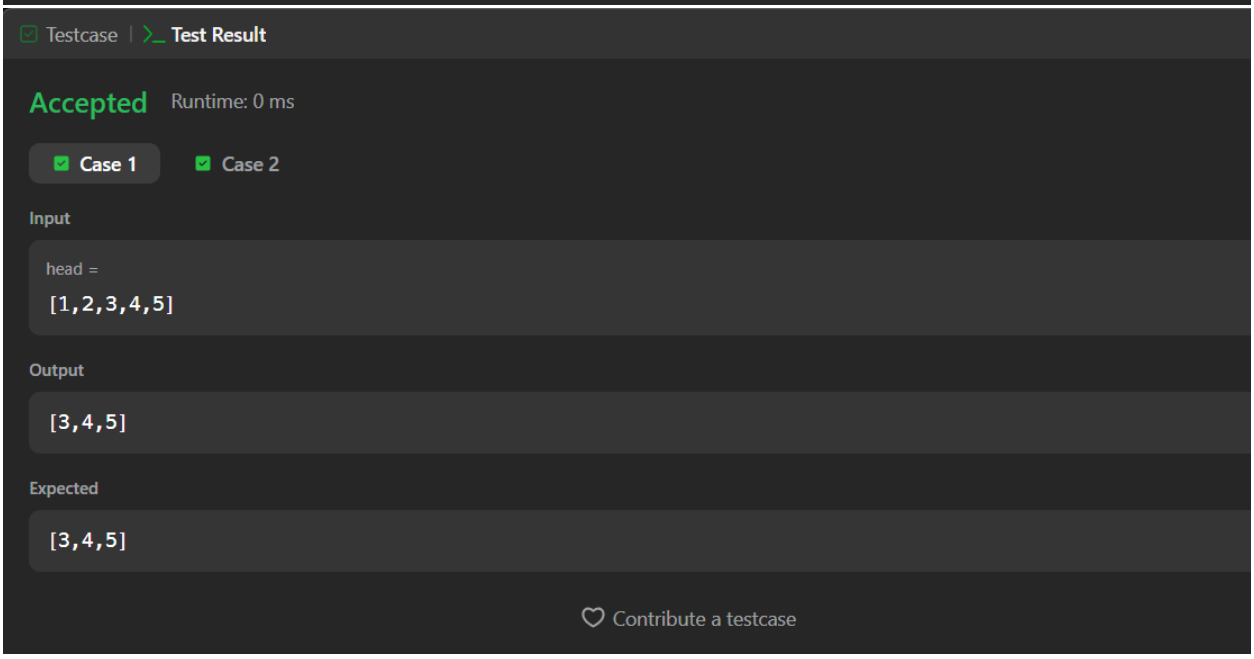
```c
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     struct ListNode *next;
 * };
 */
struct ListNode* middleNode(struct ListNode* head) {
    struct ListNode* slow = head;
    struct ListNode* fast = head;

    while (fast != NULL && fast->next != NULL) {
        slow = slow->next;
        fast = fast->next->next;
    }

    return slow;
}

```


Testcase | Test Result
Accepted Runtime: 0 ms
Case 1
Case 2
Input
head =
[1,2,3,4,5,6]
Output
[4,5,6]
Expected
[4,5,6]
Contribute a testcase


Testcase | Test Result
Accepted Runtime: 0 ms
Case 1
Case 2
Input
head =
[1,2,3,4,5]
Output
[3,4,5]
Expected
[3,4,5]
Contribute a testcase