Problem List

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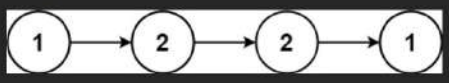
Description | Editorial | Solutions | Submissions

234. Palindrome Linked List

Easy | Topics | Companies

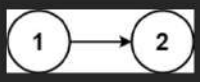
Given the `head` of a singly linked list, return `true` *if it is a palindrome* or `false` *otherwise.*

Example 1:



Input: head = [1,2,2,1]
Output: true

Example 2:



Input: head = [1,2]
Output: false

Constraints:

18K | 357 | 167 Online

Code

C | Auto

```
 * };
 */
struct ListNode* reverseList(struct ListNode* head) {
    struct ListNode* prev = NULL;
    struct ListNode* curr = head;
    struct ListNode* nextNode;

    while (curr != NULL) {
        nextNode = curr->next;
        curr->next = prev;
        prev = curr;
        curr = nextNode;
    }
    return prev;
}

bool isPalindrome(struct ListNode* head) {
    if (head == NULL || head->next == NULL)
        return true;

    struct ListNode *slow = head, *fast = head;

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

Saved | Ln 34, Col 1

Testcase | Test Result

Accepted Runtime: 0 ms

Case 1 | Case 2

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Air quality forecast

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234. Palindrome Linked List

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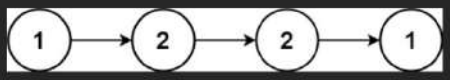
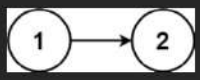
Given the `head` of a singly linked list, return `true` *if it is a palindrome* or `false` *otherwise.*

Example 1:



Input: head = [1,2,2,1]
Output: true

Example 2:



Input: head = [1,2]
Output: false

Constraints:

18K | 357 | 166 Online

Code

C | Auto

```
bool isPalindrome(struct ListNode* head) {
    if (head == NULL || head->next == NULL)
        return true;

    struct ListNode *slow = head, *fast = head;

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

    struct ListNode* secondHalf = reverseList(slow);

    struct ListNode* p1 = head;
    struct ListNode* p2 = secondHalf;

    while (p2 != NULL) {
        if (p1->val != p2->val)
            return false;
        p1 = p1->next;
        p2 = p2->next;
    }

```

Saved | Ln 34, Col 1

Testcase | Test Result

Accepted Runtime: 0 ms

Case 1 | Case 2

Type here to search

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