

234. Palindrome Linked List

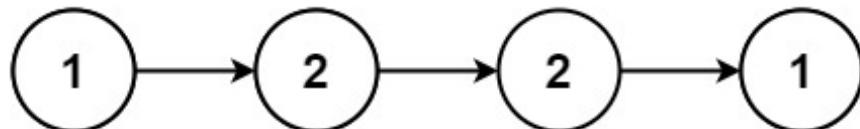
Easy

Topics

Companies

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

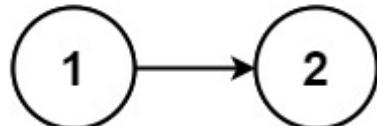
Example 1:



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

Output: true

Example 2:



Input: head = [1,2]

Output: false

Constraints:

- The number of nodes in the list is in the range $[1, 10^5]$.
- $0 \leq \text{Node.val} \leq 9$

Follow up: Could you do it in $O(n)$ time and $O(1)$ space?

Fwd:/** Definition for singly-linked list. */ | 3I-DS-SEP-2025 | todays leetcode program | Palindrome Linked List - LeetCode

leetcode.com/problems/palindrome-linked-list/submissions/1838248318/

Problem List | Accepted | Editorial | Solutions | Submissions

All Submissions

Accepted 93 / 93 testcases passed
fdcekDDIKM submitted at Nov 24, 2025 11:40

LIMITED TIME OFFER - \$40 off Annual Subscription
LeetCode's Thanksgiving Sale IS NOW LIVE! Get \$40 OFF - Your Final Offer of the Year!

Runtime 3 ms | Beats 48.49%
Memory 45.01 MB | Beats 28.67%

Analyze Complexity

Code | C

```
/**  
 * Definition for singly-linked list.  
 * struct ListNode {  
 *     int val;  
 *     struct ListNode *next;  
 * };  
 */  
bool isPalindrome(struct ListNode* head) {
```

View more

Submit Ctrl Enter

C Auto

```
1  /**  
2   * Definition for singly-linked list.  
3   * struct ListNode {  
4   *     int val;  
5   *     struct ListNode *next;  
6   * };  
7   */  
8 bool isPalindrome(struct ListNode* head) {  
9     int arr[10000];  
10    int n=0;  
11    struct ListNode* temp=head;  
12    while(temp!=NULL){  
13        arr[n++]=temp->val;  
14        temp=temp->next;  
15    }  
16    int i=0,j=n-1;  
17    while(i<j)  
18    {  
19        if(arr[i]!=arr[j])  
20            return false;  
21    }
```

Ln 18, Col 5

Saved

Testcase | Test Result

Input
head = [1,2,2,1]

Output
true

Expected
true

Activate Windows
Go to Settings to activate Windows.

Type here to search

Windows Start button

Taskbar icons: File Explorer, Edge, Google Chrome, File Manager, Task View, Taskbar settings, Taskbar search, Taskbar preview, Taskbar pinned items, Taskbar status bar (ENG IN 11.41 AM 24-11-2025)

Fwd:/** Definition for singly-linked list.
* struct ListNode {
* int val;
* struct ListNode *next;
* };
*/
bool isPalindrome(struct ListNode* head) {

Accepted 93 / 93 testcases passed
fdcekDDIKM submitted at Nov 24, 2025 11:40

LIMITED TIME OFFER - \$40 off Annual Subscription
LeetCode's Thanksgiving Sale IS NOW LIVE! Get \$40 OFF - Your Final Offer of the Year!

Runtime 3 ms | Beats 48.49%
Memory 45.01 MB | Beats 28.67%

Code | C

```
6     * };  
7     */  
8     bool isPalindrome(struct ListNode* head) {  
9         int arr[10000];  
10        int n=0;  
11        struct ListNode* temp=head;  
12        while(temp!=NULL){  
13            arr[n++]=temp->val;  
14            temp=temp->next;  
15        }  
16        int i=0,j=n-1;  
17        while(i<j)  
18        {  
19            if(arr[i]!=arr[j])  
20                return false;  
21            i++;  
22            j--;  
23        }  
24        return true;  
25    }
```

Testcase | Test Result

Input
head = [1,2]

Output
false

Expected
false

Activate Windows
Go to Settings to activate Windows.

Type here to search