



</> Problem

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Java (1.8)

Average Time: 20m

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Palindrome Linked List

Difficulty: Medium

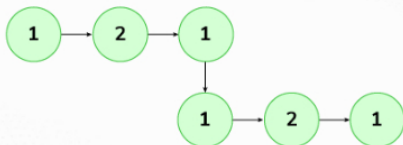
Accuracy: 41.48%

Submissions: 340K+

Points: 4

Given a singly linked list of integers. The task is to check if the given linked list is palindrome or not.

Examples:

Input: LinkedList: 1->2->1->1->2->1**Output:** true**Explanation:** The given linked list is 1->2->1->1->2->1, which is a palindrome and Hence, the output is true.**Input:** LinkedList: 1->2->3->4**Output:** false**Explanation:** The given linked list is 1->2->3->4, which is not a palindrome and Hence, the output is false.**Expected Time Complexity:** $O(n)$ **Expected Auxiliary Space:** $O(1)$

Note: You should not use the recursive stack space as well

Constraints:

 $1 \leq \text{number of nodes} \leq 10^5$ $1 \leq \text{node} \rightarrow \text{data} \leq 10^3$ [Try more examples](#)

Seen this question in a real interview before ?

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```
1- //{ Driver Code Starts
2- // Initial Template for Java
3-
4- import java.io.*;
5- import java.lang.*;
6- import java.util.*;
7-
8- class Node {
9-     int data;
10-    Node next;
11-
12-    Node(int data) {
13-        this.data = data;
14-        this.next = null;
15-    }
16- }
17-
18- class Driver_code {
19-     static Node insert(Node head, int data) {
20-         Node temp = new Node(data);
21-         if (head == null) {
22-             head = temp;
23-             return head;
24-         } else {
25-             Node t = head;
26-             while (t.next != null) {
27-                 t = t.next;
28-             }
29-             t.next = temp;
30-         }
31-         return head;
32-     }
33- }
```

[Custom Input](#)

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