[LeetCode](https://leetcode.com/problems/palindrome-linked-list/description/?envType=daily-question&envId=2024-03-22)

<https://github.com/AdityaKonda6/-50DaysOfCoding>

<https://leetcode.com/problems/palindrome-linked-list/description/?envType=daily-question&envId=2024-03-22>

<https://www.linkedin.com/in/aditya-adi-konda/>

Day 32 of [#50dayscodingchallenge](https://www.linkedin.com/feed/hashtag/?keywords=50dayscodingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633):  
[#leetcode](https://www.linkedin.com/feed/hashtag/?keywords=leetcode&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcodechallenge](https://www.linkedin.com/feed/hashtag/?keywords=leetcodechallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcodestreak](https://www.linkedin.com/feed/hashtag/?keywords=leetcodestreak&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcode2024](https://www.linkedin.com/feed/hashtag/?keywords=leetcode2024&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcode50day](https://www.linkedin.com/feed/hashtag/?keywords=leetcode50day&highlightedUpdateUrns=urn:li:activity:7166316239483461633)  
   
Ventured further into my coding journey today, tackling the engaging LeetCode Problem "Successfully solved LeetCode Problem 🎈💻“234. Palindrome Linked List.”  
   
✨ Task: Given the head of a singly linked list, return true if it is a Palindrome or false otherwise.

Examples:

Example 1:

IMG_256

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

Output: true

Example 2:

IMG_257

Input: head = [1,2]

Output: false

Let's Connect:

If you find this problem intriguing or have insights to share, let's connect! I'm passionate about problem-solving, algorithmic thinking, and collaborative learning. Feel free to comment or reach out for engaging discussions and knowledge exchange.Unravel the mystery using your coding skills!

[#CodingChallenge](https://www.linkedin.com/feed/hashtag/?keywords=codingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#Algorithm](https://www.linkedin.com/feed/hashtag/?keywords=algorithm&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#LinkedInPost](https://www.linkedin.com/feed/hashtag/?keywords=linkedinpost&highlightedUpdateUrns=urn:li:activity:7166316239483461633) #Algorithm #Optimization #DataStructures #CodingChallenge  
  
Excited about the progress and challenges ahead!  
   
Make Sure You Follow My GitHub For Solutions: <https://github.com/AdityaKonda6/-50DaysOfCoding>  
  
  
Happy coding!

**Solution:-**

class Solution {

  public boolean isPalindrome(ListNode head) {

    ListNode slow = head;

    ListNode fast = head;

    while (fast != null && fast.next != null) {

      slow = slow.next;

      fast = fast.next.next;

    }

    if (fast != null)

      slow = slow.next;

    slow = reverseList(slow);

    while (slow != null) {

      if (slow.val != head.val)

        return false;

      slow = slow.next;

      head = head.next;

    }

    return true;

  }

  private ListNode reverseList(ListNode head) {

    ListNode prev = null;

    while (head != null) {

      ListNode next = head.next;

      head.next = prev;

      prev = head;

      head = next;

    }

    return prev;

  }

}

