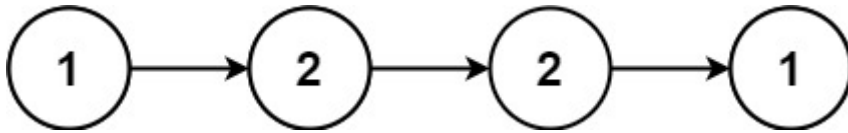


234. Palindrome Linked List

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

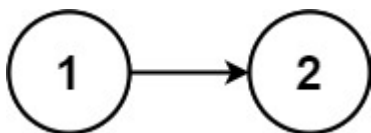
Example 1:



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, 105]`.
- `0 <= Node.val <= 9`

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

```
# Definition for singly-linked list.
# class ListNode:
#     def __init__(self, val=0, next=None):
#         self.val = val
#         self.next = next
class Solution:
    def isPalindrome(self, head: Optional[ListNode]) -> bool:
        if head is None or head.next is None:
            return head
        curr = head
        mid = self.findMid(head)

        tempHead = mid.next
        mid.next = None
```

```
newHead = self.reverseLL(tempHead)

while curr is not None and newHead is not None:
    if curr.val!=newHead.val:
        return False
    curr = curr.next
    newHead = newHead.next
return True

def reverseLL(self,head):
    if head is None or head.next is None:
        return head

    curr = head
    prev = None

    while curr!=None:
        nxt = curr.next
        curr.next = prev
        prev = curr
        curr = nxt
    return prev

def findMid(self,head):
    if head is None or head.next is None:
        return head

    slow = head
    fast = head

    while fast.next is not None and fast.next.next is not None:
        slow = slow.next
        fast = fast.next.next
    return slow
```