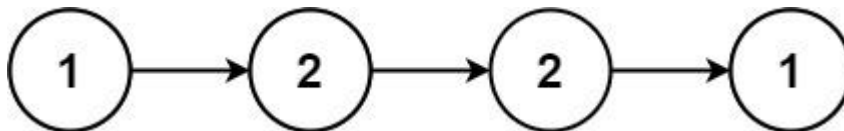


234. Palindrome Linked List

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

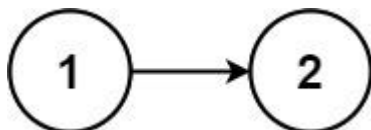
Example 1:



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 $[1, 10^5]$.
- $0 \leq \text{Node.val} \leq 9$

Solution:

```
/**
 * Definition for singly-linked list.
 * public class ListNode {
 *     int val;
 *     ListNode next;
 *     ListNode() {}
 *     ListNode(int val) { this.val = val; }
 *     ListNode(int val, ListNode next) { this.val = val; this.next = next; }
 * }
 */
class Solution {
    public static ListNode reverse(ListNode head){
        ListNode dup = new ListNode();
        ListNode head2 = dup;
        while(head!=null){
            dup = head;
            head=head.next;
        }
    }
}
```

```

        dup.next=head2.next;
        head2.next=dup;
    }
    return head2.next;
}

public boolean isPalindrome(ListNode head) {
    if(head!=null && head.next==null)
        return true;
    ListNode slow = head;
    ListNode fast = head;
    ListNode temp = new ListNode();
    while(fast!=null && fast.next!=null){
        fast = fast.next.next;
        temp = slow;
        slow = slow.next;
    }
    temp.next=null;
    ListNode head2 = reverse(slow);
    while(head!=null && head2!=null){
        if(head.val!=head2.val)
            return false;
        head=head.next;
        head2=head2.next;
    }
    return true;
}
}

```