```java
/**
 * Definition for singly-linked list.
 * public class ListNode {
 *     int val;
 *     ListNode next;
 *     ListNode(int x) { val = x; }
 * }
 */
class Solution {
    public boolean isPalindrome(ListNode head) {
        if (head == null) {
            return true;
        }

        int length = 0;
        ListNode p = head;
        while(p != null) {
            length ++;
            p = p.next;
        }

        p = head;
        if(length == 1) {
            return true;
        }

        int half = (length + 1) / 2;
        ListNode mid = head;
        for(int i = 0; i < half; i ++) {
            mid = mid.next;
        }

        ListNode r = mid.next;
        mid.next = null;
        ListNode secondhead;
        while(r != null) {
            secondhead = r.next;
            r.next = mid;
            mid = r;
            r = secondhead;
        }

        while(mid != null && p != null) {
```

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        if(p.val == mid.val) {
            mid = mid.next;
            p = p.next;
        }else {
            return false;
        }
    }
    return true;
  }
}
```