**Problem Name:** Palindrome Linked List

**Topics:** Linked list, Two Pointers, Stack, Recursion

**Companies:**

**Level:** Easy

**Language:** C++

**Problem Statement**: Given the head of a singly linked list, return true if it is a palindrome.

**Input Format:**

First line of the input contain integer n (size of list)

Second line contain n space separated integer list values.

Ex:

5

1 2 3 4 5

**Output Format:** Boolean value 1 0r 0 indicating list is palindrome or not.

**Constraints:**

* The number of nodes in the list is in the range [1, 105].
* 0 <= Node.val <= 9

**Examples:**

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

**Output:** true

**Solution:**

**Explanation:**

**Code:**

**Time Complexity**: O(N)

**Space Complexity:** O(1)

**Optimized Solution:**

**Explanation:**

**Code:**

**Time Complexity**: O(1)

**Space Complexity:** O(1)