How to Submit:

Please submit your answers in icollege once you have completed. Failure to submit will result in a zero for this lab.

Problem 1:

A palindrome is a string of characters that reads the same from left to right as it does from right to left. Write a function called checkPalindrome that takes a string `s1` and evaluate if the string is a palindrome or not using only a stack and a queue data structures. You should make use of the built-in java implementation of the stack and queue data structure under `java.util.Stack` and `java.util.Queue`.

Example 1:

Input: `s1 = "radar"

Output: true

Example 2:

Input: `s1 = "HitTheRoadJack"

Output: false

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Function Template---

```java
import java.util.Stack;
import java.util.LinkedList;
import java.util.Queue;

public class Lab4 {

    public static void main (String[] args){
        String s1 = "radar";
        boolean ans = checkPalindrome(s1);
        System.out.println(ans); // Should be True
    }

    public static boolean checkPalindrome(String s1){
        Stack<Character> s = new Stack<Character>();
        Queue<Character> q = new LinkedList<Character>();

        // Example of stack push
        s.push("r")
        // Example of stack pop
        s.pop()

        // Example of queue enqueue
        q.add("r")
        // Example of queue dequeue
        q.poll()
        // Check if stack or queue is empty
        s.isEmpty(), q.isEmpty()

        // INSERT YOUR CODE HERE
    }
}
```