CS 304 Data Structures Practice 3 Spring 2020

Question 1 Write a boolean method stringIsPalindrome that takes a string as the parameter and returns true if it is a palindrome, and false otherwise. You should make use of the provided CharQueue and CharStack classes in your implementation.

```
boolean stringIsPalindrome(String str)
```

"RotpR" is not a palindrome.

The following code is the main method that calls the stringIsPalindrome method to check if the string read in from the console is a palindrome.

```
public static void main(String[] args)
{
    Scanner conIn = new Scanner(System.in);
    System.out.print("Please enter a string: ");
    String str = conIn.nextLine();

    if (stringIsPalindrome(str))
        System.out.println("\"" + str + "\" is a palindrome." );
    else
        System.out.println("\"" + str + "\" is not a palindrome." );
}

Example:
Please enter a string: 123321
"123321" is a palindrome.
```