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Opciones ▼

Welcome to Day 18! Today we're learning about Stacks and Queues. Check out the Tutorial tab for learning materials and an instructional video! A palindrome is a word, phrase, number, or other sequence of characters which reads the same backwards and forwards. Can you determine if a given string, 8, is a palindrome? To solve this challenge, we must first take each character in 8, enqueue it in a queue, and also push that same character onto a stack. Once that's done, we must dequeue the first character from the queue and pop the top character off the stack, then compare the two characters to see if they are the same; as long as the characters match, we continue dequeueing, popping, and comparing each character until our containers are empty (a non-match means s isn't a palindrome). Write the following declarations and implementations: 1. Two instance variables: one for your stack, and one for your 2. A void pushCharacter(char ch) method that pushes a character onto a stack. 3. A void enqueueCharacter(char ch) method that enqueues a character in the *queue* instance variable. 4. A char popCharacter() method that pops and returns the character at the top of the *stack* instance variable. 5. A char dequeueCharacter() method that dequeues and returns the first character in the queue instance variable. You do not need to read anything from stdin. The locked stub code in your editor reads a single line containing string 8. It then calls the methods specified above to pass each character to your instance variables. Constraints • 8 is composed of lowercase English letters. **Output Format** You are not responsible for printing any output to stdout. If your code is correctly written and 8 is a palindrome, the locked stub code will print The word, s, is a palindrome.; otherwise, it will print Sample Input

racecar

```
Change Theme
                      lava 8
                                             6
import java.io.*; ...
public class Solution {
   private Stack<Character> stack;
   LinkedList queuey;
   public Solution(){
        stack = new Stack<>();
        queuey = new LinkedList();
   public void pushCharacter(char c){
        stack.push(c);
   public void enqueueCharacter(char c){
        queuey.addLast(c);
   public char popCharacter(){
        return stack.pop();
   public char dequeueCharacter(){
        return (char) queuey.remove(0);
                                        Line: 22 Col: 27
```

## You have earned 30.00 points!

Test against custom input

You are now 3 challenges away from the 4th star for your 30 days of code badge.

Run Code

Submit Code

19/22

30 Days of Code \*\*\*

## Congratulations

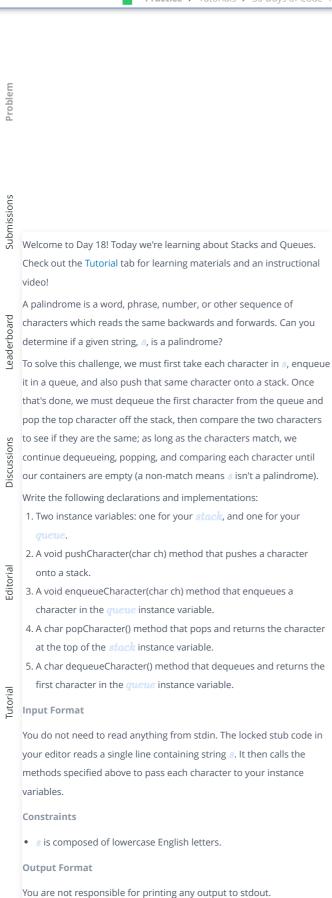
You solved this challenge. Would you like to challenge your friends?

The next challenge in this tutorial will unlock in 12:21:27

Go to Dashboard Try a Random Challenge



Exit Full Screen View



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① Upload Code as File

Test against custom input

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19/22

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30 Days of Code

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