

Abstract

For these assignments you'll be returning to the familiar problem of detecting a palindrome. This time you'll pursue an ADT based implementation.

1 Problem

Design and implement the procedure *isPalindrome* that utilizes the combination of a Stack and a Queue to test if a string is a palindrome. Under the assumption that all stack and queue operations have constant complexity, is this implementation more or less efficient than the implementations we've seen previously? Answer this question in a comment in your code. You don't need to formally calculate the time complexity of each implementation — just informally explain the Big O complexity of each and compare them.

Submit your code with `handin` as assignment `lab5` at the end of lab. There is no homework this week.