CS 620: Assignment 1
Recursive Palindrome - Questions & Pseudocode

Cam J. Loader

September 1, 2024

1. Show how this algorithm works on the following strings using pseudo code:

   (a) rester

   - String "rester" entered into the console
   - checks if it is Q, if not isPalidrome(rester) is called
   - checks that 'r' matches 'r' and calls isPalindrome('este')
   - checks 'e' matches 'e', calls isPalindrome('st')
   - fails on 's' compared to 't' and returns false

   (b) able was i ere i saw elba

   - String "able was i ere i saw elba" entered in the console
   - check if it is Q, if not isPalidrome('able was i ere i saw elba') is called
   - checks that 'a' matches 'a' and calls isPalindrome('ble was i ere i saw elb')
   - checks that 'b' matches 'b and calls isPalindrome('le was i ere i saw el')
   - checks that 'l' matches 'l' and calls isPalindrome('e was i ere i saw e')
   - checks that 'e' matches 'e' and calls isPalindrome(' was i ere i saw ')
   - checks that ' ' matches ' ' and calls isPalindrome(' was i ere i saw ')
   - checks that 'w' matches 'w' and calls isPalindrome('as i ere i sa')
   - checks that 'a' matches 'a' and calls isPalindrome('s i ere i s ')
   - checks that 's' matches " and calls isPalindrome(' was i ere i saw ')
   - checks that ' ' matches ' ' and calls isPalindrome('i ere i')
   - checks that 'i' matches 'i' and calls isPalindrome(' ere ')
   - checks that ' ' matches ' ' and calls isPalindrome('ere')
   - checks that 'e' matches 'e' and calls isPalindrome('r')
   - 'r' is the last char, return true