## CS 620: Assignment 1 Recursive Palindrome - Questions & Pseudocode

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- 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 is Palidrome (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 is Palidrome ('able was i ere i saw elba') is called
    - checks that 'a' matches 'a' and calls is Palindrome ('ble was i ere i saw elb')
    - checks that 'b' matches 'b and calls is Palindrome ('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 is Palindrome ('was i ere i saw ')
    - checks that 'w' matches 'w' and calls is Palindrome ('as i ere i sa')
    - checks that 'a' matches 'a' and calls is Palindrome ('s i ere i s')
    - checks that 's' matches " and calls is Palindrome (' was i ere i saw ')
    - checks that '' matches '' and calls is Palindrome ('i ere i')
    - checks that 'i' matches 'i' and calls is Palindrome(' ere ')
    - checks that '' matches '' and calls is Palindrome ('ere')
    - checks that 'e' matches 'e' and calls isPalindrome('r')
    - 'r' is the last char, return true