

Graded Asigments

Quiz

This quiz covers content from the Recursion chapter (**Chapter 18**).

- You have one hour (60) to complete this quiz.
- You have three attempts at this quiz.

Lab "Palindrome"

i A palindrome is a group of characters that read the same forward or backwards.

The goal of this assignment is to write a recursive method that detects whether the String parameter is receives is a palindrome or not.

- The method should be a boolean-returning method called isPalindrome.
- This method should be demonstrated in a main method.
- The program package should be called palindromes.

Example input/output

Sample Output `Sample Input` Please enter a word or phrase to determine if it is a Palindrome: `kayak` Thank you, your word kayak is a Palindrome.

Palindrome Skeleton code

```
public static void main(String[] args)
{
    //Create an array of strings to test.
    String[] testStrings = { "Palindromes go here" };

    // Test the strings.
    // Use a for loop to
    // print the test string one at a time
    // Use an if statement to call isPalindrome(array)
    // if its true then print " is a palindrome
    // if its false then print "is not a palindrome
}
/**
The isPalindrome method determines whether a string
is a palindrome.
@param str The string to test.
@return This method returns true if str contains a
palindrome. It returns false otherwise.
*/
isPalindrome(String) the recursive method that take a string and returns boolean
{
    // set boolean variable to false
    // if the string length <= 1
    // then boolean is set to true
    // else if the charAt(0) is equal to the last character
    // set boolean variable equal to isPalindrome(the new substring (1, str.length()-1)
    // return boolean variable
}
```