

# Recursion Activity

You have **two** options. Pick One.

1. **Option One:**

Create a project **recursion** with class **PalindromeDetector**.

In the **PalindromeDetector** class

1. Write a **boolean** method that uses recursion to determine whether a String argument is a palindrome. The method should return true if the argument reads the same forward and backward. Demonstrate the method in a program.
2. Write a brief summary of what you believe the time complexity of your program is and why? (**1-4 sentences**)
3. Upload the **.java** file to GitHub. If you are having trouble with GitHub, contact me through email and we will figure out another way for you to upload the file.

2. **Option Two:**

Create a project **recursion** with class **CharacterCount**.

In the **CharacterCount** class

1. Write a method that uses recursion to count the number of times a specific character occurs in an array of characters.
2. Write a summary of what you believe the time complexity of your program is and why? (**1-4 sentences**)
3. push the **.java** file to **GitHub**. If you are having trouble with GitHub, contact me through email and we will figure out another way for you to upload the file.