

In class review 11/23

For problems 1 and 2, remember that calling the method `toCharArray()` on a `String` will return a `char` array with the characters of that string.

1. Create a program with a method named *PalindromeCheck(String word)* which writes to console whether or not the argument *word* is a palindrome. A palindrome is a word or phrase which has the same characters when read forwards and backwards. Test to make sure the program works with a variety of words and phrases.
2. Create a program with a method named *Reverse(String word)* that will reverse a *String* and print the result to the console. Test to make sure the program works with a variety of words and phrases.
3. Create a program with a boolean array of 100 elements that represent 100 lightswitches. All elements of the array will be initialized to false by default. Toggle every 4th light, then every 9th light and finally every 10th light. Print the result to the console.