

CSE218 Recursion

1. IsMember Method

Write a recursive boolean method named `isMember`. The method should search an array for a specified value, and return `true` if the value is found in the array, or `false` if the value is not found in the array. Demonstrate the method in a program.

2. String Reverser

Write a recursive method that accepts a string as its argument and prints the string in reverse order. Demonstrate the method in a program.

3. maxElement Method

Write a method named `maxElement`, which returns the largest value in an array that is passed as an argument. This method should use recursion to find the largest element. Demonstrate the method in a program.

4. Palindrome Detector

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.

5. Character Counter

Write a method that uses recursion to count the number of times a specific character occurs in an array of characters. Demonstrate the method in a program.