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// Subject: Arrays & Methods

// Java Week 03 Lab

//

package week03;

public class Week03ArraysAndMethodsLab {

public static void main(String[] args) {

//

// Arrays:

//

// 1. Create an array with the following values 1, 5, 2, 8, 13, 6

// 2. Print out the first element in the array

// 3. Print out the last element in the array without using the number 5

// 4. Print out the element in the array at position 6, what happens?

// 5. Print out the element in the array at position -1, what happens?

// 6. Write a traditional for loop that prints out each element in the array

// 7. Write an enhanced for loop that prints out each element in the array

// 8. Create a new variable called sum, write a loop that adds

// each element in the array to the sum

// 9. Create a new variable called average and assign the average value of the array to it

// 10. Write an enhanced for loop that prints out each number in the array

// only if the number is odd

// 11. Create an array that contains the values "Sam", "Sally", "Thomas", and "Robert"

// 12. Calculate the sum of all the letters in the new array

//

// Methods:

//

// 13. Write and test a method that takes a String name and prints out a greeting.

// This method returns nothing.

// 14. Write and test a method that takes a String name and

// returns a greeting. Do not print in the method.

// Compare method 13 and method 14:

// a. Analyze the difference between these two methods.

// b. What do you find?

// c. How are they different?

// 15. Write and test a method that takes a String and an int and

// returns true if the number of letters in the string is greater than the int

// 16. Write and test a method that takes an array of string and a string and

// returns true if the string passed in exists in the array

// 17. Write and test a method that takes an array of int and

// returns the smallest number in the array

// 18. Write and test a method that takes an array of double and

// returns the average

// 19. Write and test a method that takes an array of Strings and

// returns an array of int where each element

// matches the length of the string at that position

// 20. Write and test a method that takes an array of strings and

// returns true if the sum of letters for all strings with an even amount of letters

// is greater than the sum of those with an odd amount of letters.

// 21. Write and test a method that takes a string and

// returns true if the string is a palindrome

}

// Method 13:

// Method 14:

// Method 15:

// Method 16:

// Method 17:

// Method 18:

// Method 19:

// Method 20:

// Method 21:

}