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CS 1401

Lab 5

Activity 1

1. mystery()

This method takes an int and an array and returns the index for the maximum value in the array that is greater than the int. This method is written with erroneous indentations and use of proper white space making it hard to read for other programmers. This code also uses variable names that are confusing to readers.

1. mystery2()

This method is a little more complex than the previous method. It doesn’t take any arguments but instead uses the Scanner to ask the user for the length of the array. Once it has this information it gets the user to fill two parallel arrays, one with int elements, and one with string elements. The method then evaluates the integer array and finds the minimum value in the array. The method then prints that array’s integer value and the corresponding string value for the identical index. This code suffered from a poorly defined scanner object as well as poorly defined variables. Additionally , the use of whitespace and proper indentation was not followed.

Activity 2

1. minmax(int[] A)

This method takes the inputs of an array of integers as an argument and returns an array of just the minimum and maximum as index 0 and 1 respectively.

**Pseudo Code:**

1. currentMax <- first element in array
2. currentMin <- first element in array
3. for (i = 0; i < array length; ++i)
   1. if (currentMax < A[i]) then currentMax <- A[i]
   2. if (currentMin > A[i]) then currentMin <- A[i]
4. minmaxArray[0] <- currentMin
5. minmaxArray[1] <- currentMax
6. return minmaxArray
7. displayArray(int[] A)

This method takes an input of an array of integers as an argument and iterates over the entire length, printing every element in order. There is no return statement.

**Pseudo Code:**

1. for (i = 0; i < array length; ++i)
   1. Print A[i]