elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project2   project2\_03\_03\_$

9 ●  script identicalArrays\_output

Script started, output file is identicalArrays\_output

elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project2   project2\_03\_03\_1

9 ●  cat IdenticalArrays.java

//Class: CS2261-JAVA

//Due Date: 03/04/19

//Author: Elijah Korneffel

//Description: This script finds if two arrays are identical.

import java.util.Scanner;

import java.util.Arrays;

public class IdenticalArrays

{

public static void main(String[] args)

{

int[] list1 = new int[1];

int[] list2 = new int[1];

boolean equal = false;

Scanner input = new Scanner(System.in);

list1 = inputList(input);

list2 = inputList(input);

equal = identifyLists(list1, list2);

System.out.println(Arrays.toString(list1));

System.out.println(Arrays.toString(list2));

if(equal)

{

System.out.println("Your lists are equal.");

}

else

{

System.out.println("Your lists are not equal.");

}

}

//This method takes the inputs from the user to build list.

public static int[] inputList(Scanner input)

{

int size = 0;

int[] myArray;

System.out.print("Enter list size and elements:");

size = input.nextInt();

myArray = new int[size];

//Allocate space for list size

for(int i = 0; i < size; i++)

{

myArray[i] = input.nextInt();

}

return myArray;

}

//This method sorts the arrays and determines if they are equal.

public static boolean identifyLists(int[] array1, int[] array2)

{

boolean identical = false;

//First check the size to see if it is worth sorting.

if(!(array1.length == array2.length))

{

return identical;

}

else

{

Arrays.sort(array1);

Arrays.sort(array2);

if(Arrays.equals(array1, array2))

{

identical = true;

}

else

{

identical = false;

}

return identical;

}

}

}

elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project2   project2\_03\_03\_19 ●  javac IdenticalArrays.java

elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project2   project2\_03\_03\_1

9 ●  java IdenticalArrays

Enter list size and elements:5 1 2 3 4 5

Enter list size and elements:5 5 4 3 2 1

[1, 2, 3, 4, 5]

[1, 2, 3, 4, 5]

Your lists are equal.

elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project2   project2\_03\_03\_1

9 ●  java IdenticalArrays

Enter list size and elements:5 1 2 3 4 1

Enter list size and elements:5 2 3 4 3 2

[1, 1, 2, 3, 4]

[2, 2, 3, 3, 4]

Your lists are not equal.

elijahkorneffel@Elijahs-MacBook-Pro  ~/Git/CS2261-JAVA/Project2   project2\_03\_03\_19 ● 

Script done, output file is identicalArrays\_output