Computer Science II – Prepa Tec Campus Eugenio Garza Lagüera Activity 3: Searching in Arrays

Instructions: Using the sample source code files that can be found here, complete the following problems.

Submission: Save the answers to this activity as a PDF file and upload it to Canvas. Only include the code you wrote for each problem, and not the whole class.

Problem 1: Using the Java class Activity4_P1.java, complete the code necessary so that the printArray() method prints the contents of the received array.

```
/**
 * This method should print the contents of the array received.
 * @array Input array to be printed
 */
public static void printArray(int[] array) {
          //complete code here
}
```

Problem 2: Using the Java class Activity4_P2.java, complete the code in the method compareArray() so that it compares the contents of two different arrays. Remember that arrays are objects, and cannot be compared directly using the equality (==) operator.

```
/**
  * Compares array a with array b. The result is true if and only if the
  * size of both arrays is the same, and the contents of each index are equal.
  * @param a
  * @param b
  * @return True if both arrays are equal, false if they are different.
  */
public static boolean compareArrays(char[] a, char[] b){
    //complete code here
    return true;
}
```

Problem 3.1: Using the Java class Activity4_P3.java, complete the code in method findElement() to return an array of integers with all the indexes where the target String is found.

Problem 3.2: Add 4 test cases on the main() method to cover different possible execution scenarios. Try to think about edge cases (empty arrays, empty Strings, etc.) that you need your program to cover.