Lab #07

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CPSC 1150 - 003

Instructor: H. Darbandi

Lab Title: Cipher Encoding and Decoding

Date Completed: Jun 29, 2020

Department: CSIS

Program: Arrays

File Name: Lab07.java

Purpose: Creating, Reversing, Sorting, and Inserting arrays.

Technical Information:

(You should fill the following information based on compiler and computer you are using).

Compiler: Java SDK version 14

Computer: AMD Ryzen 5 2600 3.40 GHz, 16 GB ram, 64-bit processor, Java SDK 14

Operating System: Windows 10

Language: Java

Program Logic (Pseudocode)

Algorithm:

**START**

***Void reverse(int[] array)***

1. Int temp
2. For (I = 0; I < arr.length \* 0.5 (half of array); i++)
   1. Temp = arr[i]
   2. Arr[i] = arr[arr.length-i-1]
   3. Arr[arr.length-i-1] = temp;

***Boolean insert(int[] array, int n, int index)***

1. If(index >= arr.length)
   1. Return false
2. Else
   1. For(int I = 0; I < arr.length – 2; I >= index; i--)
      1. Arr[I + 1] = arr[i];
   2. Arr[index] = n;
   3. Return true;

**END**

Generate your test cases based on the specifications in your lab assignment. Follow following format for each test case: (Refer to external document of your previous lab)

*purpose*

*input*

*output*

*expected value*

*passed or failed*

**Test Cases:**

***Please see attached output.txt file for test case samples.***