Lab Report 00

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# Problem

State the given problem clearly in one’s own words. Copy and pasting from the assignment will result in an overall 0 for the entire lab report.

The problem given that we need to solve is that we have to create a program that will have the user input ten integers. Afterwards, the program will then sort those values from lowest to greatest and print them all out in that order.

# Solution

Explain how the program solves the problem. This description must be detailed and high-level without using the direct implementation – do not just copy and paste the programming solution’s code. You may think of this as explaining how the software works to another non-computer entity, like a human. It should cover the finer points of the lab while justifying implementation decisions. While pseudocode may be used it must be accompanied by said clear and understandable description. Flow Charts and graphics are strongly encouraged, and in some cases required.

1. The program takes the input values
2. The program stores those values inside an array
3. Through loops, the program then checks each value to see if they need to be sorted or not
   1. The program will swap values anytime throughout these checks as needed
4. Finally, the program will print out each value in its correct order

# Implementation Problems Encountered

Enumerate the issues that arose from creating this solution. Include major syntax, run-time, and logical errors with their respective solutions. If you did not have any problems then you may put, “No problems encountered”, but if the solution is not correct then this section will receive no points.

No problems encountered.

# Lab Report Questions

A few questions about the problem will be provided in the lab to be answered. These are generally conceptual and shows the importance of the lab.

1. Describe Machine Code. A low-level programming language easy for the computer to understand.
2. Describe (Intermediate) Byte Code. Object code processed by the program. A form of instructions.
3. In Java, when a source code is compiled using the Java Compiler, is it compile to machine code or byte code? It compiles to Byte Code.