

Lab 1

Getting Started with VirtualBox and C

Write a simple C program that uses variables, conditional statements and functions.

1. Create a file called lab1.c In this file, write a program that asks a user to enter 5 numbers. Using the scanf function retrieve the 5 numbers and store in variables.
2. Once you have the numbers you will find the min, max, and average using a function for each. In addition, write a function called search that checks if the user has entered the number 5.
3. In total you should have 4 functions – one that finds the min, one for max, one for average, and one for search. Each function should take 5 integers as parameters and return an integer except for the average function which should return a float. Do not declare the 5 integers as global variables. For example, the min function declaration should look like this:

```
int min(int n1, int n2, int n3, int n4, int n5) {}
```

4. You should print the results to the screen.
5. Example output:

Enter 5 numbers: 5

10

11

1

4

5

The min is 1

The max is 11

The average is 6.20

You entered the number 5

6. Submit lab1.c to Blackboard.

Grading

80 points - Implementation

Correct implementation is worth 80 points.

20 points

Your name: Add your name in the comments section at the top of the source file.

Readability: Make sure your code is indented and neatly commented. Do not leave commented out code in your submission. Comments describing what your code does is ok. Don't leave old code in the source file.

Compilation: If your code does not compile, you will receive a 0 on the lab. Once notified, you will have 3 days to fix the lab to receive partial credit, up to 75%.