L A B 4 G R A D I N G S H E E T

Student Name:

CS2020-Section:

We will grade the following items for this lab exercise. Make sure you turn in all required parts at the end of the lab time.

\_\_\_/2 Grade sheet filled out and uploaded to canvas by due date/time.

\_\_\_/2 Photo file contains all commands specified, collected files (**lab4.cpp, lab4.log**) in your *BGLinux cs2020* class directory.

\_\_\_/2 Client structure defined correctly

\_\_\_/2 Client pointer defined, *new* operator used. Memory de-allocated properly.

\_\_\_/3 Function to input Client data correct, uses pointer parameter to access the structure.

\_\_\_/4 Function to display Client data is correct and uses pointer variable. Ideal weight and weight range correct

\_\_\_/2 Program contains documentation header, each function contains function documentation header

\_\_\_/3 Answer the following questions:

|  |  |
| --- | --- |
| What additional responsibilities does programmer have when memory for program data is allocated dynamically? Consider what you would do in this program if Customer was allocated statically. |  |
| Why is it important to set a pointer variable back to nullptr when memory pointed to by the pointer is no longer needed (i.e., deallocated)? |  |
| What is the size of a pointer variable on BGLinux in bytes? |  |

\_\_\_/20 **Total points**

**B O N U S**

\_\_\_/2 Reads client data correctly from file using pointer variable. Pointer is re-used and data allocated only once.