## COP 2535: Data Structures

Quiz 05, Chapter 6 – Functions

## Instructions

Answer the following questions in writing. These are short answer questions. Upload your answers in Canvas as plain text. Please include your name in the text.

- 1. Give an imformal definnition of function.
- 2. What are the differences between a function *prototype*, a function *header*, and a function *call*? What are the parts to a function header?
- 3. What is the difference between a *void* function and a *value-returning* function? Why would you use one rather than the other?
- 4. How are values passed into functions when the functions are called? What is the difference between call by value and call by reference?
- 5. How do you pass a parameter to a function by value? Does it make a difference is the value is a primitive data type, such as int or char, or a reference value type, such as string or an object?
- 6. How many values can you return from a function? (This is a trick question, please think twice about your answer.)
- 7. What does system() do? What is its return value? Give an example of its use.
- 8. Are global variables automatically initialized when declared? If so, what are they initialized to? Are local variables initialized when declared? If so, what are they initialized to?
- 9. What is the purpose of declaring a *global constant*? (Not in book) What is a *symbolic constant*, and why would you want to use one?
- 10. What is the purpose of a *static local variable*? Give an example of a case where you would want to use one.
- 11. What does exit() do? Why would you call this function?