SAIL: Assignment 7

Reading Assignment: C++ Primer, 5th edition

• Chapter 7 – Classes

True or False:

- 1. **0.5 pt** Objects that are const, and references or pointers to const objects, may call only const member functions.
- 2. **0.5 pt** The compiler generates a default constructor automatically only if a class declares no constructors.
- 3. **0.5 pt** Members defined after a private specifier are accessible to the member functions of the class but are not accessible to code that uses the class.
- 4. **0.5 pt** Friends are special members of a class.
- 5. **0.5 pt** A class must declare as a friend each function in a set of overloaded functions that it wishes to make a friend.
- 6. **0.5 pt** The explicit keyword, when appied, must appear during the constructor declaration and the construction definition when the latter is made outside the class body.
- 7. **0.5 pt** Class members that are not initialized in the initializer list are default initialized.
- 8. **0.5 pt** A static member function can employ the this pointer.

Short Questions:

- 1. 1 pt Explain the concept of data abstraction.
- 2. 1 pt What is the difference between struct and class?
- 3. 1 pt Explain how class definitions are processed.
- 4. 1 pt What is the purpose of a constructor?
- 5. **1 pt** What is the role of the keyword explicit when applied to a constructor?
- 6. **1 pt** What is a static class member?