Lab 8

Course: CSE 165 Section: 04L

Due: Thursday, November 11, at 11:59 pm

All the exercises below are selected from the textbook: Thinking in C++ (volume 1).

- 1. [Exercise 7 on Page 425] Create a class that contains an array of char. Add an inline constructor that uses the Standard C library function memset() to initialize the array to the constructor argument (default this to ''), and an inline member function called print() to print out all the characters in the array. [30 pts]
- 2. [Exercise 14 on Page 572] Write a class called Bird that contains a string member and a static int. In the default constructor, use the int to automatically generate an identifier that you build in the string, along with the name of the class (Bird #1, Bird #2, etc.). Add an operator<< for ostreams to print out the Bird objects. Write an assignment operator= and a copy-constructor. In main(), verify that everything works correctly. [40 pts]
- 3. [Exercise 18 on Page 782] Templatize the IntArrayclass in IostreamOperatorOverloading.cpp from Chapter 12, templatizing both the type of object that is contained and the size of the internal array. [30 pts]

Requirements:

- * Usage of spaces, blank lines, indention, and comments for readability.
- * Descriptive names of variables, functions, structs, classes, and objects (if any).
- * Appropriate usage of structs, classes, and objects (if any).

Penalties:

- * 10-point deduction per day late until zero.
- * Zero if you have possession of a copy of online solutions or work done by someone else.