Section and Exercise numbers labeled “Nguyen” refer to the pre-publication manuscript, *Design Patterns for Data Structures*, Dung X. Nguyen and J. Stanley Warford, available with the materials for downloading.

There are two types of homework assignments in this course – written assignments and programming assignments. Both are handed in electronically on Pepperdine Courses and are due at 11:55 p.m. on the due date. This assignment programming only. Note that if your program does not compile, it is automatic 20% credit. See the course webpage for the complete programming assignment grading policy.

1. Study Nguyen, Chapter 1.
2. Do Nguyen, Exercises 1–1, 1–2, and 1–3.
   Modifications are required for the following files:

   ShapeMain.cpp
   Circle.cpp
   Line.cpp
   MysteryShape.hpp
   MysteryShape.cpp
   NullShape.cpp
   Rectangle.cpp
   RightTriangle.cpp

   The display method of the mystery shape must describe thoroughly what the shape is as well as its dimensions. Do not display just “mystery shape” for its description. Don’t forget to document your programs with your name, the date, etc.

   If you do not hand in eight files the project will not compile. Hand in the eight files electronically with your two-digit course ID number prefixed to each file. For example, if your two-digit ID number is 87, hand in the files named

   87ShapeMain.cpp
   87Circle.cpp
   87Line.cpp
   87MysteryShape.hpp
   87MysteryShape.cpp
   87NullShape.cpp
   87Rectangle.cpp
   87RightTriangle.cpp