CS 150: Intro to Object Oriented Programming, Spring 2009
Homework 1

Due *via email* by 11:59pm on Monday, February 2

This homework covers the material from Chapter 2 of the text, particularly string and lists. Please read and familiarize yourself with this material before working on the homework. In particular, working through practice problems 2.2, 2.3, 2.15, 2.17, and 2.24 might be helpful for the material on this homework. You do NOT need to submit the practice problems for credit - they are merely for your own benefit.

Please type all answers and email to the instructor at echambe5 - at - slu.edu by 11:59pm on the date due.

1. Exercises 2.6 and 2.7 from the text:

   (a) Give a series of statements that determine and print the string that comes second, in alphabetical order, from an initially unsorted list.

   (b) Repeat part (a), ensuring that the original list remains unsorted.

2. Exercise 2.9 from the text:

   What is the result of the command `range`$(13, 40, 5)$?

3. Exercise 2.11 from the text:

   Suppose that `numbers` is a list of values. Give a command or sequence of commands that outputs the median (or middle) value of the list.

   Note: You may assume that the list has an odd number of values in it, so that the median is unique and well defined.

4. Exercise 2.19 from the text:

   Write an expression that is **True** precisely when `stringA` is a capitalized version of `stringB`.

5. Exercise 2.22 from the text:

   Assume that `person` is a string in the form of 'firstName middleName lastName'. Give a command or series of commands that results in the creation of a corresponding string 'firstName middleInitial lastName'. For example, if `person` = 'Elmer Joseph Fudd', then the result should be 'Elmer J. Fudd'.

6. Exercise 2.27, parts b, c, e, i, k, and n