**Name:** _____

This homework is substantially shorter and simpler than those that will follow, since it is based on only the very little material covered so far.

You should submit 1. a hard-copy of pages 1–2 of this assignment with your answers filled in, and 2. an electronic package that contains the source files for your work on the programming questions, by following the submission procedure described in class and on the class newsgroup. You are welcome to use any inanimate resources (e.g., books, Web sites, publicly available code) to help you with your work. However, *all such help must be clearly noted* in your submissions. Further, no matter what you use, *you must be able to explain, in detail, how it works.* (You may be called upon to explain your homework in person.) Refer to the class policy for details, and ask for clarifications if you are unsure if something is allowed.

1. (1 pt.) Write your name in the space provided above.

2. (1 pt.) Package and submit your solutions to the programming questions via `http://cs.umaine.edu/~chaw/u/`. *After* submitting your work, fill in the following:

   File name:     _____

   Size, in bytes:   _____

   MD5 checksum:   _____

   Timestamp:    _____

3. (3 pt.) Post a *useful* message on the class newsgroup (e.g., well written questions, answers, observations, and pointers to resources).

4. (45 pts.) Provide a *well documented and explained* implementation of the *self* program discussed in class (and page 247 of the textbook), keeping the restrictions in mind, in Python. Try to follow the template as closely as possible. Be sure to clearly identify the parts of your code that correspond to the modules A and B of that program. Identify the output from A, how it is used by B, and the output from B. This explanation of the correspondence between your code and the textbook's description is crucial. For this question, you must provide your own code and explanation without using any other resources.

5. (50 pts.) Package and submit the implementation of Question 4 using the Web interface noted above. Be sure to follow the submission instructions in the syllabus. Ensure that your submission includes a README file that provides the usual details, and that your code is very well commented.