Outline for October 17, 2012

Reading: §7

Assignment due: October 24, 2012 at 5:00PM

1. How to write a program
   a. Problem statement: be explicit, specify exactly what the program needs to do
      i. Goal
      ii. Specification
   b. Design: state how the program will work in high-level terms
      i. High-level design: what does the program actually do?
      ii. Data: how do you represent the data?
      iii. Functions: What functions do you need?
      iv. Refinement: refine until the design can be translated into code
   c. Implementation: translate the statement into Python code

2. Example: Caesar cipher
   a. How it works
   b. Encipher [caesarenc.py]
   c. Decipher [caesardec.py]