Midterm Study Guide

This is simply a guide of topics that I consider important for the midterm. I don't promise to ask you about them all, or about any of these in particular; but I may very well ask you about any of these, as well as anything we discussed in class, in the discussion section, or that is in the text.

- 1. Basics of programming
 - a. Compiler, interpreter
 - b. Programming languages: high-level, low-level
 - c. Syntax errors, semantic errors
 - d. Debugging
 - e. Programming in Python
 - i. IDLE
 - ii. Comments
- 2. Basics of Python
 - a. Variable names
 - b. Keywords
 - c. Data types (integer, float, string, boolean)
- 3. Assignments
- 4. Statements
- 5. Expressions
 - a. Arithmetic operators; precedence
 - b. String operators
 - c. Logical operators
 - d. Relational operators and Boolean values
 - e. Type conversion functions (int, float, str)
 - f. Input
- 6. Input and output
 - a. input functions
 - b. print function
- 7. Loops
 - a. for loop
 - b. range function
 - c. while loop
- 8. Conditional statements
 - a. if
 - b. if/else
 - c. if/elif/else
 - d. Nested ifs
- 9. Functions
 - a. Defining them
 - b. Parameter lists and how they work
 - c. Returning a value
 - d. return statement
- 10. Interpreting error messages