Outline for May 20, 2014

Reading: text, §13, 18

Assignment due: Homework #3, due May 21, 2014

- 1. Searching a list
 - a. Example use: linear search [linsearch.py]
 - b. Example use: recursive linear search [rlinsearch.py]
- 2. Tower of Hanoi [hanoi.py]
- 3. Files
 - a. What is a file?
 - b. What can you do with it? (For example, read, write, append)
 - c. Types of files (text, binary)
- 4. File Input and Output for text files
 - a. Opening and closing: open(filename, mode), close()
 - b. Reading: readline(), readlines(), read(), read(n)
 - c. Writing: write(str), writelines(list)
- 5. Examples
 - a. Print out a named file [fileio1.py]
 - b. Print out a named file and prepend line numbers [fileio2.py]
 - c. Store the output in filename.lst [fileio3.py]
- 6. Examples
 - a. Put lines in a file in random order [randlines.py]
 - b. Read in a list of words from a file, then search it as requested; similar to linear search program [search-1.py]
 - c. Now see how many words you checked total [search-1c.py]