

Outline for February 14, 2018

Reading: §7

1. Searching a list
 - a. Example use: linear search [*linsearch.py*]
 - b. Example use: recursive linear search [*rlinsearch.py*]
2. Files
 - a. What is a file?
 - b. What can you do with it? (For example, read, write, append)
 - c. Types of files (text, binary)
3. 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)`
4. 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*]
5. 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*]