## Outline for October 20, 2021

## Reading: §7

Assignments: Homework 2, due October 20, 2021

## 1. Files

- (a) What is a file?
- (b) What can you do with it? (For example, read, write, append)
- (c) Types of files (text, binary)
- 2. 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*)
- 3. Exception EOFError input function encounters an end of file
- 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*]