## Outline for April 16 and 18, 2024

**Reading:** *zyBooks text* §5.12, 6.5–6.10

Assignments: Homework #1, due April 18, 2024

- 1. Pointers and Arrays
  - (a) Arrays as pointers
  - (b) How indexing works
  - (c) Arrays as function parameters
  - (d) Multi-dimentional arrays
- 2. More on arrays
  - (a) Initializations
  - (b) Contrast with pointer initialization
- 3. C arrays and strings
  - (a) String representation: array of chars terminated by NUL (ASCII '\0')
  - (b) gets(buf), fgets(buf, size, fp) [bad.c, good.c]
  - (c) Array of strings (pointers to characters)
- 4. Example: ptrstew.c
- 5. C arrays and strings
  - (a) Strings as arguments to functions [strcpy.c]
  - (b) Various idioms
- 6. C characters
  - (a) Types of characters; include file ctype.h [chartype.c, dasc.c]
  - (b) Characters as integers and *vice versa* [caesar-enc.c, caesar-dec.c]