Lecture 12: April 28, 2023

Reading: *zyBooks text*, §5.5, 5.9, 5.11, 10

Assignments: Homework 2 and Extra Credit 2, due May 10

- 1. Announcements
 - (a) Gradescope entries for homework 2 and extra credit 2 are there now
 - (b) Tutoring available from the CS Tutoring Club; sign up information in an announcement
- 2. Array of strings [echo.c, echo2.c]
- 3. Operators
 - (a) Comma operator,
 - i. a = (y, z) means evaluate y, evaluate z, set value of a to value of z
 - ii. Example 1: a = 5, b = 2; x = (a = a+5, b++) sets a to 10, b to 3, and x to 2
 - iii. Example 2: prompting; while (printf("> "), scanf("%d", &x) != EOF)

4. String library functions

- (a) Prototypes in include file *string.h*
- (b) String length: strlen(str)
- (c) String copy: strcpy(dest, src); strncpy(dest, src, number_chars)
- (d) String catenation: strcat(dest, src); strncat(dest, src, number_chars)
- (e) String comparison: strcmp(dest, src); strncmp(dest, src, number_chars)
- 5. Recursive greatest common divisor
 - (a) Go through Euclidean algorithm for computing gcd
 - (b) Walk through function gcd, with m = 4 and n = 6
 - (c) Do it again with m = 126 and n = 28
 - (d) Go through program *gcd.c*