Lecture 12: October 21, 2019

Reading: C text, §8, 9

Assignments: Extra Credit #1: due October 21, 2019 Homework #2, due October 24, 2019

- 1. Greetings and felicitations!
 - (a) General: there are a couple of aids to learning the Bourne-Again shell, *bash*(1)
 - (b) Homework 2: I posted an announcement to answer some of the questions.
 - (c) Extra Credit assignment, problem 2; you just need to give the command, not execute it; but you can replace "/usr" with "/home" if you like.
- 2. Operators
 - (a) Comma operator ,; use while (printf("> "), scanf("%d", &x) != EOF) and y = 3; x = y++, 20
 - (b) Order of evaluation of function arguments; use i = 10; f(i, ++i) and f(i, i++)
- 3. C characters
 - (a) Characters as integers and numbers (*caesar-enc.c*, *caesar-dec.c*)
- 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*