Lecture 13: October 23, 2019

Reading: *C text*, §9 **Assignments:** Homework #2, due October 25, 2019

1. Greetings and felicitations!
   (a) Extending homework 2's due date through Friday at 11:59pm; *however* if you turn it in by Wednesday at 11:59pm, I will not penalize you. But homework 3 will go out on Friday and will be due November 6.
   (b) The syllabus on Canvas has been updated and is now current.
   (c) There is a sample midterm, and answers to it, on Canvas. This and the study guide should help you prepare for the midterm.
   (d) Homework:
      i. I have posted executables for homework questions 3, and 4 and for the extra credit in */home/bishop/hw2-programs*, as well as the program, source for question 5.
      ii. Question 3: easiest to use `fgets` to read in the input; if you use it, don't forget to delete the trailing newline!
      iii. Question 4: go through the rectangle being *inside* the border; you can assume the input will be nxn with no spaces in the input
      iv. Extra credit question: add 10 to itself 10 times means there are 9 additions, and 10 PIs, not 11 PIs
   (e) Go through **`for`** loops again
   (f) Show why "if ... else if" is different than "if ... if"
   (g) If `int v = 100;`, `int *p = v` is wrong and `int *p = &v;` is right
2. Using `fgets`
   (a) Read a line and print it (*file.c*)
   (b) Read a line and print it prefixed by a line number (*file1.c*)
3. Tower of Hanoi (*tower.c*)
   (a) Using `fprintf(stderr, ...)` to print error messages
   (b) Input using `fgets` and `sscanf`
4. Reverse a string (*reverse.c*)