Lecture 8: October 11, 2019

Reading: *C text*, §3.4–3.5, 6.1–6.5, 12.4   **Assignments:** Homework #1, due October 11, 2019 (Note extension)
Extra Credit 1: due October 21, 2019

1. Greetings and felicitations!

    (a) Ge's office hour on Monday is cancelled; instead, he will have one on Thursday from 8:00am–10:00am in Room 47 Kemper

    (b) There is an extra credit assignment, which is optional, focusing on Linux

    (c) Extra credit: instead of how I planned to do it, I will now multiply it by 5. So if you get 80% on the extra credit, that raises your *final* score by 4 points (80% × 4)

    (d) Warning: do not put `int i` in your for loop – declare it at the top of the function

    (e) Go through `scp`

2. Pointers and indirection

    (a) A pointer is an address

    (b) Declarations

    (c) Address (`&`), dereference (`*`) operators

    (d) Indirect references

3. More on functions in C

    (a) Parameters: pass (or call) by reference (also called output parameters)

    (b) Example: swap function — exchange values of two variables (*swap.c*)

    (c) Scope: local variables (*scope.c*)