Lecture 3: September 30, 2019

Reading: *C text*, §2; [5]   **Assignments:** Homework #1, due October 9, 2019

1. Greetings and felicitations!
   (a) Change of classrooms for 2 discussion sections:
       i. Discussion section A02 (Wed 5:10pm–6:00pm) moved from 223 Olson to 176 Chemistry
       ii. Discussion section A03 (Thu 1:10pm–2:00pm) moved from 223 Olson to 204 Art
   (b) Office hours for TAs posted
   (c) *ssh* Tutorial is now up
   (d) To see which CSIF systems are up and which are down, go to `http://iceman.cs.ucdavis.edu/nagios3/cgi-bin/status.cgi?hostgroup=all`

2. Example: making change
   (a) Add input using `scanf`
   (b) Add error checking

3. Variable names

4. Basic types
   (a) **int**, **long** vs. **short**, **unsigned** vs. **signed**
   (b) **char**, treated like an **int** that holds 1 character
   (c) **float**, **double**
   (d) Type casting

5. Basic operators
   (a) arithmetic: **+**, **−**, *****, **/**, **%**
   (b) **%** defined so that `n % p = r` implies $n = ap + r$ for some a
   (c) `5 % -2` can be 1 ($5 = (-2) \times (-2) + 1$) or -1 ($5 = (-3) \times (-2) + (-1)$)

6. Associativity of operations
   (a) Difference between associativity of operations and order of evaluation

7. *fahr2.c*
   (a) `#include <stdio.h>`
   (b) Macros
   (c) **float**
   (d) **for** loop

Handouts

4. Writing a Program

5. Precedence and Associativity of C Operators