

## Lecture 6: October 7, 2019

**Reading:** *C text*, §3.3, 4.6

**Assignments:** Homework #1, due October 9, 2019

---

1. Greetings and felicitations!
  - (a) Homework problem 4: there are two files in /home/bishop/hw1-programs that may help:
    - i. *vis-testfile* contains several non-printing characters
    - ii. *vis-output* contains the output of *vis* when given the file as input
  - (b) Go through why UNIX and C were developed, and where Linux came from
  - (c) Go through why we are learning C and Linux
2. How to write a program
  - (a) Program: calculator that does +, -, \*, /, %
  - (b) Take it to design — then modularize
3. Functions in C
  - (a) Parameters: pass (or call) by value
  - (b) Arguments: instantiations of parameters matched in order
  - (c) Return values
  - (d) Scope: local variables
  - (e) Show the program stack and how it relates to functions
4. Then translate to C