

# CSE 451 Section

## Topics

- Introductions
- Division of Labor
- Office Hours
- Charge
- Homework 1
- Project 0
- GDB
- C Refresher

# Introductions

- Sean Andersen
  - Senior, final quarter!
  - Took Windows-based OS class Spring 2008
  - Had Ryan as a TA in 467
- Ryan McElroy
  - MS CS student, final quarter!
  - Failed project 0 in Winter 2007
  - Had a good TA when he took this class

# Division of Labor

- Sean
  - Homework TA
  - Please type your answers :)
- Ryan
  - Project TA
  - Has done all of these projects before
- Steve
  - Supreme dictator for life (quarter)

# Office Hours

- Sean
  - Wednesdays
  - 3:00 pm – 4:00 pm
  - CSE 002
- Ryan
  - Thursdays
  - 3:30 pm – 4:30 pm
  - CSE 002

# Charge

- Operating Systems is a really important class
  - Useful knowledge of how computers really work
  - Lots of material to learn
  - Working hard in this class *will be worth it*
  - We're here to help

# Homework 1

- Due Monday, April 6, 2009
  - Use the HW as motivation to actually read the book
- Start It!
  - All the answers are in the reading
  - Problem 2.27 – use `strace` and POSIX API
  - Hand in at beginning of class on due date
  - Would you rather use Catalyst Drop Box?

# Project 0

- Due Friday, April 10, 2009
  - Start early
  - C can be tricky
  - This project beat me
  - Don't let it beat you

# Project 0 – Part 1

- Part 1 – A Queue
  - Fix two bugs in queue.c
  - Implement two methods in queue.c
    - Sort –  $O(n^2)$  to  $O(n \log n)$
    - Reverse –  $O(n)$
  - Test and ensure correctness
  - Inherit coding style – do not reformat!

# Project 0 – Part 2

- Part 2 – A Hash Table
  - Define (.h) and Implement (.c) a Hash Table
  - Follow queue's coding style
  - Implement functionality
    - Create, Set Hash Function
    - Add
    - Lookup
    - IsPresent
    - Remove

# GDB

- GDB – The GNU Debugger
  - Compile with -g flag
  - Complete the gdb tutorial linked on the web
  - Save millions hours each the quarter

# C Refresher

- Pointers!
  - \*a
  - \*\*a
  - a->b
  - a.b
  - &a
  - ...