

Midterm Format: Take-home Practicum Exam

- No collaboration or communication!
 - Zero exceptions inside or outside of the class.
 - Caught infractions can expect an XF final grade in the course.
 - GroupMe moratorium from 5:20pm Friday through end of weekend.
 - Tools to detect collaboration will be put to use.
- Allowed materials:
 - vim, gcc, gdb, Docker
 - C Book
 - Lectures / Slides / Videos
 - Notes
 - Labs
 - Gradescope Feedback
- Prompt releases at 5:20pm Friday 9/25
 - Read from start-to-finish before doing anything!
 - Check-for-understanding questions due by 6:35pm Friday
 - Final hand-in of exam due by 11:59pm Saturday
- Questions ONLY OPEN from 5:20pm to 6:35pm on Friday
 - This is your only opportunity and venue for questions prior to hand-in. Read through the full exam, come up with a rough game plan for yourself, and ask any clarification questions during this time.
 - Sakai will be closed.

- Textual Representation: ASCII
- Integer Representations
 - Unsigned base-2
 - Signed, two's complement base-2
- IEEE754-style Floating Point Representation
 - Signed-bit, biased exponent bits, normalized significand
- C Concerns
 - Self-sufficiency: compiling and debugging a program
 - Bitwise Operators
 - Declaring and Defining Functions
 - Bit-widths and data types (stdint.h)