

A blue spiral-bound notebook with a silver metal spiral binding at the top. The cover is plain blue with a fine, pebbled texture. The text is centered on the cover in white.

Exam 3 Review

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15-123 Programming in C & UNIX, Spring 2010

Process Control

- What is a process?
- What is Context Switching?
- What is a Race Condition?
- RTFM - fork, exec, wait, waitpid, getpid, getpgid, etc.
- **PRACTICE!!** - Look at fork examples
 - [~yeng/public/fork_examples](https://github.com/yeng/public/tree/master/fork_examples)

System Calls

- What are system calls?
- Lab6 (mys) - If I asked you to write the lab again in the exam, can you do so?
- RTFM - readdir, opendir, stat, chdir, getcwd, etc.
- Make sure you check the return value of system calls!!!

Macros & Makefiles

- What are macros?
- Macros v.s. Functions
- What is a makefile?
- When/why do you use a makefile?

Perl

- File I/O in Perl
- RegExp
- Data Structure in Perl - Hash Table, Array, string, etc.
- Arithmetic and Comparison
- Anything from labs and lecture is fair game

Basic C

- Function Pointers - qsort
- Data structures - Linked list, Tree, Hash Table, etc.
- Pointers!!!
- Everything you have learnt so far!!!

About Exam 3...

- Time: Monday, April 12, 2010
- Open Book, Lecture Notes, and Perl tutorials from the lecture notes.
- No electronic devices
- Necessary man pages will be provided.
- The exam has 115 points total BUT it is out of 100.
- Answer questions you know first!!!!