

CSCI C151 Placement Exam

Study Guide

The exam has a written part and a practical part. Here are the topics it covers:

1. General knowledge of Linux,
 - a. distributions, origins,
 - b. open-source programming;
2. Linux command-line commands and their options,
 - a. file manipulation,
 - b. getting information,
 - c. search,
3. Setting file permissions and ownership,
4. System information,
 - a. kernel, environment variables,
 - b. processes: getting information, killing a process, parent process, owner, process files, daemons
 - c. basic internet communication on Linux,
5. Administration,
 - a. installing applications
 - b. creating user accounts
 - c. partitions, installation
6. Compilation with gcc/g++,
 - a. common editors: emacs, vi, gedit
 - b. object files, compilation options,
 - c. link editing and options, libraries,
 - d. compilation versus interpretation
7. Makefiles: targets, variables, clean
8. Scripting using either bash, perl, or python, using command line arguments.