

Exam Format

This is what you can expect the format of the exam to be like. There will be nine questions and this document tells you exactly the topics of each question so that you can prepare accordingly.

1. Linux Instructions (short response terminal commands):
 - a. Compiling with default executable
 - b. Compiling by specifying an executable name
 - c. Running default and named executable files
 - d. Input/Output Redirection
2. Arithmetic in C++ (coding):
 - a. Basic math(+-/*)
 - b. Order of Operations
 - c. Power and Square Root from <cmath>
3. Functions (short response answers):
 - a. Parameters(formal, actual, reference, value)
 - b. Variables(static, local, global)
 - c. Variable Scope vs Variable Lifetime
 - d. Function Return and Output
4. General Multiple Choice (similar to classwork)
5. Short Response Question (related to parameter passing)
6. What is the output? (short response):
 - a. For-Loops
 - b. Pointers
 - c. Variable Scopes
 - d. Pointer Arrays
7. Conditionals (short response):
 - a. If-Statements
 - b. Boolean Operators(and, or, not)

- c. Comparison Operators(<,>,<=,>==,!=)
- 8. String Question (coding):
 - a. Getting the length of a string
 - b. Iterating through a string
 - c. Modifying string from a function
- 9. Question about shapes with characters (coding):
 - a. Nested For-Loop
 - b. Shape similar to Lab 4(A-G)
 - c. Input Validation

Note: *You should review all homework, labs, quizzes, classwork, and project to fully prepare for the exam. The topics mentioned here are not the only things you should review if you want to get a good grade. Review anything that you are not sure about from slides on the course webpage.*