Topics for the Final Exam:

- Loops: for loops, while loops, nested for loops.
- Escape sequences: ‘\n’, ‘\t’, ‘\’’, ‘\"’’, ‘\’
- Functions: Both value-returning and void functions. Know how to write and call functions.
- Character strings – comparing, assigning values to them, printf and scanf with char strings
- Arrays – 1-D and 2-D arrays
- Pre and Post incrementation
- Data types and mixed-mode arithmetic – For example, what happens when you add a float and an int, and assign the value to an int?
- If-else statements and logical/relational operators – be able to write/use if-else statements and be able to trace code to figure out what it does.

Format for the Final Exam:

The exam will have 2 parts:

1) Paper/pencil part:
Types of questions you might see:
- Write a function that does a given task.
- Given some code, what is the output of that code.
- Writing code segments.
- Finding what’s wrong with a given code segment

2) Computer-based part:
Given some sort of problem statement, implement a program that solves the problem. You will be graded on whether or not your program works, and how “nicely” it is written (e.g. do you take advantage of certain features, such as functions, check for boundary cases like division by zero, etc.).

You will have 2 hours to complete the final. You will be given both parts at the beginning, however you will have to complete the paper/pencil part before you can log on to the computer to do part 2 (so that you cannot use the computer to verify answers to the paper/pencil part). However, you should look at the computer-based part early to decide how long it will take you, and maybe even try to solve it with paper and pencil first.