Concept
Check List
CSC 5

Prior to Midterm

Program Composition
- Location of Comments, Libraries, and Execution
- Input → Process → Output
- The Programming Process
- Procedural vs. Object Oriented

Basic Programs
- I/O Library
- cout, cin
- Variables type and Range (Local vs. Global) (Scope)
  - (signed vs. unsigned)
  - bool, char, short, int, long
  - float, double
  - string
- Literals
  - Integer, Floats, Scientific Notation
  - Binary, Octal, Decimal, Hex
- Comments
- Scope
- Arithmetic Operators Precedence
- Style

Expressions, Libraries, and Formatting
- Mathematical, Statements
- Type Conversions
  - Explicit vs. Implicit
  - Casting
- Constants
  - Local vs. Global
- Formatting
  - Input vs. Output
- Math Library
- Hand Tracing
- File Input/Output

Decisions
- Relational Operators
- Logical Operators
- Constructs
  - If, If-else if-else, Switch

Conditional Operator
Flowcharting
Pseudo-Code
Validating User Input
      Keyboard, File

Loops
    Operator Shortcuts
        increment, decrement
        post vs. pre
    Looping Constructs
        while, do-while, for
    Counter
    Sentinel
    Nesting

Functions
    Prototyping
    None to multiple parameters
    Pass by value vs. pass by reference
    Void vs. return
    Boolean returns
    Local vs. Global
    Static Variables
    Defaulted Arguments
    Overloading
    Stubs and Drivers