CSCI 161 – Test 2 Review

General Notes for Midterm Examination:
- **No** multiple-choice
- **No** fill-in-the-blank
- Short answer and coding questions
- Partial credit awarded
- Three pages

Material
Everything from the first test PLUS
- String – representing text in a program
    - Concatenation, declaration, etc.
    - Methods/operations
        - names given on test – know how to use
        - need to know arguments and return type
    - Building strings (using +)
- Scanner
    - Reading lines vs. strings vs. int vs. double
    - Basic user input
- Conditionals
    - The if-statement
    - The else clause
    - Combinations of if/else if/else
        - Why do we need them?
    - Boolean expressions
        - True/false
        - Boolean Operators (and/or/not)
        - Comparison operators (>, <, ==, !=, <=, >=)
        - Assignment to boolean variables
- Loops
    - While loop
    - Do-While loop
    - For loop
    - When to use each type of loop (and why)
    - Sentinels
- Random Numbers
    - The Random class
    - Creating random integers in a range
    - Creating random floating-point values in a range

You will be writing code on this exam.