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.*