

CSCI 161 – Midterm Exam #1 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

Be Able to Define:

- computer science
- programming
- source code
- compiler
- program
- identifier
- keyword
- syntax
- comments
- algorithm
- data type
- parameter
- type casting
- input
- output

Programming Constructs

- Structure of an entire program (Filename and class name match, main, etc)
- Strings – make a string to output. Given an output, make a string. Escape sequence
- Methods – creating methods, calling methods, removing redundancy
- Variables – declaring, assigning, using
- Expressions – “drawing” trees, order of operations, int division/remainder
- Knowing when expressions and variables could result in an error
- For-loop – be able to write and understand for-loops
 - Printing (simplified drawings / patterns)
 - Shorthand expressions (++ , += , -= , *= , etc)
 - Nested loops (solving with tables and expressions)
- Parameters – adding parameters to a method to reduce redundancy
 - Declare and call methods properly
- Java Math module
- Return values – augment methods with return data
- String – representing text in a program
 - Concatenation, declaration, etc.