CIS 1068 Study Guide

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This list is by no means exhaustive

- Assignment statement
- Types
 - Primitives
 - * Variables hold the value
 - * Types
 - \cdot int and long
 - · float and double
 - · char
 - \cdot boolean
 - Objects
 - \ast Collection of fields and methods.
 - \ast Variables for object hold a reference to where the object is located in memory.
 - * Can have a parent class.
- Arithmetic
- Boolean Logic
- Scanner
 - How to read from user
 - How to read from file
- If-else statements
- for
- while
- do-while
- Methods

- static vs instance
- parameters
- return types
- Arrays
- Multidimensional Array
- try-catch
 - $-\,$ Single ${\tt try}$ statement to prevent an ${\tt Exception}$ from crashing program
 - First relevant catch executes if Exception occurs
 - Optional finally on end.
- Objects
 - Object vs Classes
 - Instance vs static vs local variables
- Inheritance
- Polymorphism
- Recursion
 - Method calls itself to solve problem.
 - Does not result in an infinite loop as the base case will terminate the recursion.