Main Test 1 topics CSE1310 Fall 17 Tiernan

The test may cover anything in Ch. 1 – 4 in the textbook, anything covered in the class, and anything that was needed for Lab 1 and for Lab 2. NOTE: If the topic is in Chapters 1 – 4 in the textbook, you are responsible for that material EVEN IF WE DID NOT GO OVER IT IN CLASS. (This is the purpose of the textbook.)

Java general info including JDK, API and IDEs

Java *main* method

Categories of errors

**Algorithm development and pseudocode**

**Problem solving**

**Hand tracing code**

Variables

Declarations

Assignments

Data types

Strings

Arithmetic

Operators

Precedence

Shortcut operators

(+=, -=, \*=, /=, %=, ++, --)

Ternary (conditional)

operator (?:)

Logical operators

Arithmetic comparison

Logical combination

String comparison

Input and output

Println, printf, scanner

Control structures

**Sequential control**

**Selection control**

**Repetition control**

Layout of control statements, i.e.

*keyword ( test )*

*{*

*single statement*

*}*

If

If – else

If – else if – else if … else

Switch

Basic info on while loop, for loop, do-while loop

Loop conditions

Flag variables

Input validation