Chapter 3: Program Statements

Overview

This chapter deals with program structure and control. As a part of this chapter you should become familiar with both decision and looping structures and the process of decomposing a problem to decide where these structures are necessary. Also you need to be able to recognize situations where loops and decision structures are necessary.

Reading Assignment

Read pages 126 - 156, 160 - 172 and "summary of key concepts" on page 179 in Java Software Solutions textbook.

Textbook Assignment

Book problems are due at the beginning of the class period *before* the Chapter 3 test. Problems will be checked for completion. You are encouraged to correct your answers with the solutions key during class, break or lunch.

- Self-Review Questions pg 180: all
- Multiple Choice pg 180-183: 3.1 3.10
- Short Answer pg 184-186: 3.1, 3.2, 3.3, 3.4, 3.5, 3.7, 3.8, 3.9, 3.10, 3.12, 3.13, 3.14
- AP Style pg 190-191: 3.1, 3.2, 3.3, 3.4, 3.5, 3.6

PracticeIt! Assignments

Complete the following Chapter 3 PracticeIt! assignments. For each problem, *handwrite* the solution and attach with a printed copy of your "My Problems" page *sorted with newest on top*.

Chapter 2: Primitive Data and Definite Loops

- Self-Check 2.24: howManyLines
- Self-Check 2.27: nested loops
- Exercise 2.2: loopSquares
- Exercise 2.6: numberTriangle

Chapter 4: Conditional Execution

- Self-Check 4.2: logicExpressions1
- Exercise 4.8: smallestLargest

Chapter 5: Program Logic and Indefinite Loops

• Self-Check 5.1: whileLoops

Labs

Download the zip file from GitHub, "Chapter 3 Lab Files". Save to your \APCS folder and extract. A \Chapter 3 folder will be created containing the lab manual and lab files. After your lab has been stamped, handwrite your solution and attach to this sheet. You will NOT receive any credit for labs unless you turn in your handwritten solutions.

Lab	Assignment	Completed
	• Rock, Paper, Scissors (Rock.java)	
	Pizza Order (PizzaOrder.java)	

Lab	Assignment	Completed
	Counting and Looping (LoveCS.java)	
	• Characters (Chars.java you create)	
	Odd and Even (OddEven.java you create)	
	• Powers of 2 (PowersOf2.java)	
	A Guessing Game (Guess.java)	
	• Factorials (Factorial.java you create)	

Lab	Assignment	Completed
3 GUI's & Graphics	Divide GUI (DivideTwoGui.java)	