

Chapter 1 Lab¹

Algorithms, Errors, and Testing²

(Solution)³

Lab Objectives⁴

- Be able to write an algorithm.⁵
- Be able to compile a Java program.⁶
- Be able to execute a Java program using the JDK or a Java IDE.⁷
- Be able to test a program.⁸
- Be able to debug a program with syntax and logic errors.⁹

Introduction¹⁰

Your teacher will introduce your computer lab and the environment you will be using for programming in Java.¹¹

In chapter 1 of the textbook, we discuss writing your first program. The example calculates the user's gross pay. It calculates the gross pay by multiplying the number of hours worked by hourly pay rate. However, it is not always calculated this way. What if you work 45 hours in a week? The hours that you worked over 40 hours are considered overtime. You will need to be paid time and a half for the overtime hours you worked.¹²

In this lab, you are given a program which calculates user's gross pay with or without overtime. You are to work backwards this time, and use pseudocode to write an algorithm from the Java code. This will give you practice with algorithms while allowing you to explore and understand a little Java code before we begin learning the Java programming language.¹³

You will also need to test out this program to ensure the correctness of the algorithm and code. You will need to develop test data that will represent all possible kinds of data that the user may enter.¹⁴

You will also be debugging a program. There are several types of errors. In this lab, you will encounter syntax and logic errors. We will explore runtime errors in lab 2.¹⁵

1. **Syntax Errors**—errors in the “grammar” of the programming language. These are caught by the compiler and listed out with line number and error found. You will learn how to understand what they tell you with experience. All syntax errors must be corrected before the program will run. If the program runs, this does not mean that it is correct, only that there are no syntax errors. Examples of syntax errors are spelling mistakes in variable names, missing semicolons, unpaired curly braces, etc.¹⁶

2. **Logic Errors**—errors in the logic of the algorithm. These errors emphasize the need for a correct algorithm. If the statements are out of order, if there are errors in a

formula, or if there are missing steps, the program can still run and give you output, but it may be the wrong output. Since there is no list of errors for logic errors, you may not realize you have errors unless you check your output. It is very important to know what output you expect. You should test your programs with different inputs, and know what output to expect in each case. For example, if your program calculates your pay, you should check three different cases: less than 40 hours, 40 hours, and more than 40 hours. Calculate each case by hand before running your program so that you know what to expect. You may get a correct answer for one case, but not for another case. This will help you figure out where your logic errors are.¹⁷

3. **Run time errors**—errors that do not occur until the program is run, and then may only occur with some data. These errors emphasize the need for completely testing your program.¹⁸

• Task #1 Writing an Algorithm¹⁹

1. Copy the file *Pay.java* (see Code Listing 1.1) from the Student CD or as directed by your instructor.²⁰
2. Open the file in your Java Integrated Development Environment (IDE) or a text editor as directed by your instructor. Examine the file, and compare it with the detailed version of the pseudocode in step number 3, section 1.6 of the textbook. Notice that the pseudocode does not include every line of code. The program code includes identifier declarations and a statement that is needed to enable Java to read from the keyboard. These are not part of actually completing the task of calculating pay, so they are not included in the pseudocode. The only important difference between the example pseudocode and the Java code is in the calculation. Below is the detailed pseudocode from the example, but without the calculation part. You need to fill in lines that tell in English what the calculation part of *Pay.java* is doing.²¹

Display “How many hours did you work?”²²

Input hours²³

Display “How much are you paid per hour?”²⁴

Input rate²⁵

If hours are 40 or less, then store the value of hours times rate in the pay variable.²⁶

Else store the value of 40 times rate (regular pay) added together with 1.5 times rate times the difference of hours and 40 (overtime pay) in the pay variable.²⁷

Display the value in the pay variable.²⁸

Task #2 Compile and Execute a Program²⁹

Solution Manual For Starting Out With Java From Control Structures

Christian Drosten



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