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Period 2

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Introduce the following errors, one at a time, to the program from the Programming Project 1.1. Record any error messages that the compiler produces. Identify whether the error is a **compile-time, a run-time, or a logical error**. Fix the previous error each time before you introduce a new one. If no error messages are produced, explain why. Try to predict what will happen before you make each change.

1. Change C1p1 to c1p1

**Error**: class c1p1 is public, should be declared in a file named c1p1.java

**Compile-time error**

The program would not compile because the code is not referencing the correct file name

1. Change Emergency to emergency

**No error**

The print statement is changed; now it prints “An emergency Broadcast”

1. Remove the first quotation mark in the string

File: H:\APCS\Projects\Unit1\C1p1.java [line: 5]

**Error**: ')' expected

**Error**: not a statement

**Error:** unclosed string literal

**Compile-time error**

Because of the missing quotation mark, the compiler does not recognize An Emergency Broadcast” as a string and produces a syntax error.

1. Remove the last quotation mark in the string

File: H:\APCS\Projects\Unit1\C1p1.java [line: 5]

**Error**: unclosed string literal

**Error**: ';' expected

File: H:\APCS\Projects\Unit1\C1p1.java [line: 7]

**Error**: reached end of file while parsing

**Compile**-**time error**

The compiler recognizes that “An Emergency Broadcast is a string, but it also recognizes that it is missing the “ at the end of the string and therefore cannot determine when the string ends. This produces a syntax error.

1. Change main to man

**Static Error:** This class does not have a static void main method accepting String[].**Run-time Error**

The compiler did not recognize the typo. However, the file could not be run because there is no main method to run (“man” is not “main”).

1. Change println to bogus

**File:** H:\APCS\Projects\Unit1\C1p1.java [line: 5]

**Error:** cannot find symbol

symbol: method bogus(java.lang.String)

location: variable out of type java.io.PrintStream

**Compile-time error**

There is no method “bogus” within the String class. Because the method does not exist, the compiler cannot know what it is referencing or what it is supposed to do.

1. Remove the semicolon at the end of the println statement

File: H:\APCS\Projects\Unit1\C1p1.java [line: 5]

**Error:** ';' expected

**Compile-time error**

One of the syntax rules of Java is that there must be a semicolon at the end of each statement for it to be recognized as one. The program cannot be compiled because of this syntax error.

1. Remove the last brace in the program

File: H:\APCS\Projects\Unit1\C1p1.java [line: 10]

**Error:** reached end of file while parsing

**Compile-time error**

The code block must have a front and end brace in order to show where the block starts and ends to the compiler, or else the compiler will not know when the block ends. If the last brace is missing, this produces a syntax error, and the compiler will not be able to compile the program.