STUDY GUIDE 3: Errors and Decomposition

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Resources

Lecture Slides - 1E: Types of Errors - 1F: Procedural Decomposition	Video Lectures - Java 1.5: Programming Errors	Textbook Section - 1.3: Program Errors			
<pre>PracticeIt (Building Java Programs 4th Edition, Chapter 1) - (1E) Exercise: 1.2 - (1F) Self Check: 1.22, 1.23, 1.25; Exercise: 1.7, 1.10, 1.16</pre>					

Lecture Notes: Types of Errors

Vocabulary

Syntax Error	
Logic Error	
Runtime Error	
Design Error	

Study Guide Questions

1. Why do we use the word "bug" to describe an error in programming?

2. How can we use procedural decomposition to help solve large problems?

Lecture Notes: Types of Errors

Vocabulary

Decomposition	
Flow of	
Control	

Task : A New Pattern

With your desk partner, write pseudocode in the space below that decomposes the pattern below.



Task 2 Tracing Control Flow

With your desk partner, trace the control flow of the program below and write the output in the space below.

```
public static void main(String args[]) {
   foo();
   bar();
}

public static void bar() {
   foo();
   System.out.println("bar");
   foo();
}

public static void foo() {
   System.out.println("foo");
}
```