Chapter 5: Summary

Summary

Here's a matching game so you can test your knowledge of the three concepts we covered in this lesson.

Text equivalent start.

Instructions: Decide if the word or phrase represents Debugger, Switch statement, or Enumeration.

Word or phrase	Correct Answer
Breakpoints are usually a part of this.	Debugger
This helps you if you want fixed types such as days of the week.	Enumeration
A break statement is usually a part of this.	Switch statement
This lets you look inside a running program.	Debugger
The compareTo() method is a built-in feature of this.	Enumeration
This lets you replace a list of nested if statements.	Switch statement
Use this when you cant find a problem by looking at program output.	Debugger
A for-each loop can use this.	Enumeration
Some programmers call this a case statement.	Switch statement

Text equivalent stop.

Were you able to match the terms for all three concepts, or are some of the details still fuzzy? The assignment and quiz will help you add to and demonstrate your knowledge.

This lesson's been a wild ride, jumping from one topic to another. But I think you have some effective new tools to use in your Java repertoire.

The debugger is a very useful tool that BlueJ and most Java IDEs provide so we can track exactly what's going on in our programs at each step. It can really help when we have a bug that's hard to find.

Java's switch statement is a somewhat easier-to-read form of multi-way branching when you have only a limited set of integral values or strings to check for.

And enumerations are a good way for us to describe a fixed set (like the planets in the solar system) or a list of related constant values (like the calculations for a single weight on different planets). They make our programs easier to read, and they reduce the number of typos we put into our programs because the compiler can check the values for us.

Take a look at the assignment when you're ready!

Lesson 10's focus will be a few more topics that aren't related to each other but that are important to know and very handy to use. We'll look at ways to format our output by specifying the size of output fields and the number of decimal places. We'll also look in some depth at the information available for us in Java's API, or Application Program Interface, which is the complete list of the classes that come prepackaged with Java.

© 2022 Cengage Learning, Inc. All Rights Reserved