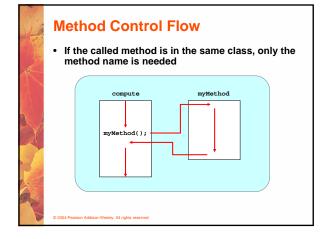
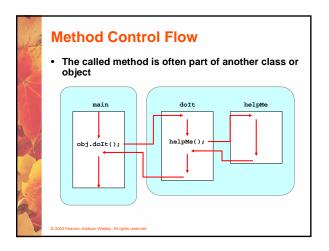


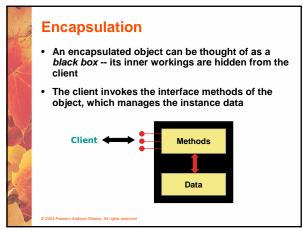
Flow of Control

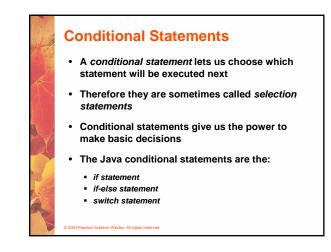
- Unless specified otherwise, the order of statement execution through a method is linear: one statement after another in sequence
- Some programming statements allow us to:
 - decide whether or not to execute a particular statement
 - execute a statement over and over, repetitively
- These decisions are based on *boolean expressions* (or *conditions*) that evaluate to true or false
- The order of statement execution is called the *flow* of control

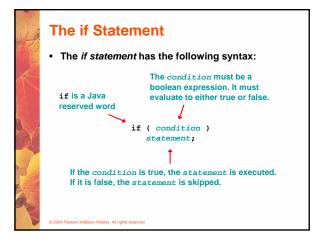
© 2004 Pearson Addison-Wesley. All rights reserved

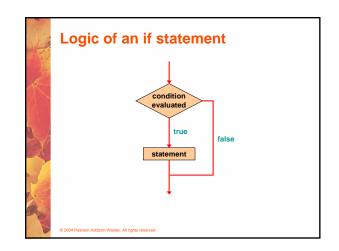


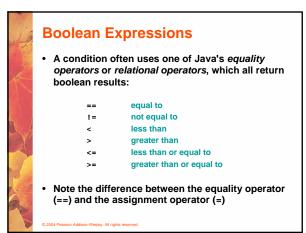


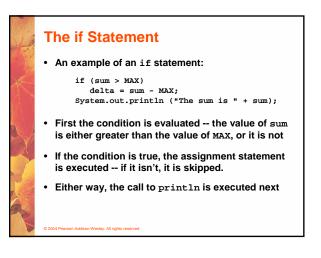


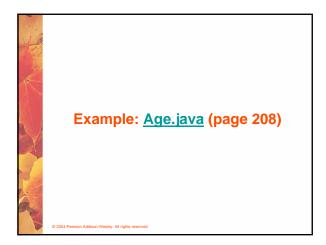












Indentation

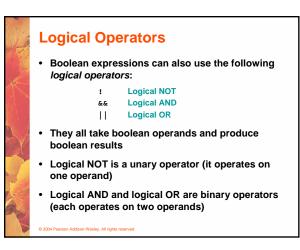
- The statement controlled by the if statement is indented to indicate that relationship
- The use of a consistent indentation style makes a program easier to read and understand
- Although it makes no difference to the compiler, proper indentation is crucial

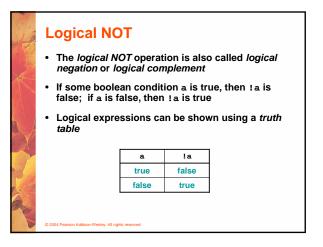
"Always code as if the person who ends up maintaining your code will be a violent psychopath who knows where you live."

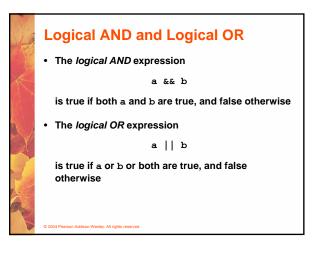
-- Martin Golding

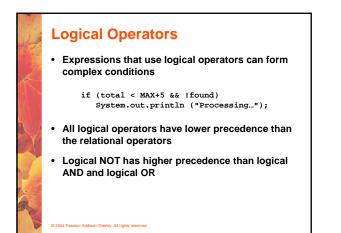
Pearson Addison-Wesley, All rights reserved

<section-header><section-header><text><code-block><text><text><text><text></code>









Logical Operators

- A truth table shows all possible true-false combinations of the terms
- Since && and || each have two operands, there are four possible combinations of conditions a and b

a	b	a && b	a b
true	true	true	true
true	false	false	true
false	true	false	true
false	false	false	false

Boolean Expressions

Specific expressions can be evaluated using truth tables

total < MAX	found	!found	total < MAX && !found
false	false	true	false
false	true	false	false
true	false	true	true
true	true	false	false

10	Short-Circuited Operators
J.	 The processing of logical AND and logical OR is "short-circuited"
	 If the left operand is sufficient to determine the result, the right operand is not evaluated
X	<pre>if (count != 0 && total/count > MAX) System.out.println ("Testing");</pre>
Č	This type of processing must be used carefully
	© 2004 Pearson Addison-Wesley. All rights reserved

