

Java Quick Reference



Common Java Syntax

All page references are for How to Program - Java, 10th edition Late Objects, Deitel and Deitel

Description	Syntax	Example(s)
Declaring Variables Section 2.5.4 (pg 47)	<i>type name;</i> <i>name = value;</i> OR <i>type name = value;</i>	int x; x = 5; char letter = 'a'; boolean valid = false;
if/else if/ else statements Section 3.5-3.6 (pg 76)	if (<i>Condition</i>) <i>statement(s)</i> else if (<i>Condition2</i>) <i>statement(s)</i> else <i>statement(s)</i>	if (x < 4) System.out.print("x < 4"); else if (x == 4) System.out.print("x == 4"); else System.out.print("x > 4");
Switch statement Section 4.6 (pg 134)	switch (<i>variable</i>) { case <i>value</i> : <i>statement1</i> ; break ; : default : <i>statementN</i> ; }	switch (letter) { case 'a': System.out.print("a"); break; : default: System.out.print("??"); }
While statement Section 3.7 (pg 82)	while (<i>Condition</i>) { <i>statement(s)</i> <i>manipulate variable</i> }	while (x < 5) { System.out.print(x); x = x + 1; }
Compound Assignment(s) Section 3.11 (pg 99)	<i>variable operator=</i> <i>expression</i> ;	x += 3; x -= y;
For statement Section 4.3 (pg 124)	for (<i>initialization</i> ; <i>condition</i> ; <i>increment</i>) { <i>statement(s)</i> }	for (int x = 0; x < 5; x++) { System.out.println(x); }
Casting & Promotion Section 5.7 (pg 175)	<i>variable = (cast)</i> <i>expression</i> ;	double x = (double)8 / 9; double x = 3 + 4; double y = 7.5 * 2;
do while statement Section 4.5 (pg 132)	do { <i>statement(s)</i> } while (<i>condition</i>);	do { System.out.println(x); } while (x <= 10);

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Method Declaration Section 5.4 (pg 169)	<i>accessmodifier</i> <i>returntype</i> <i>methodname</i> (<i>parameterlist</i>) { <i>Declaration and statements</i> }	<pre>public static int add(x,y) { int sum = x + y; return sum; }</pre>
Array Declaration Section 6.4 (p 212)	<pre>type[] name; name = new type[size]; OR type[] name = new type[size]; type[][] name = new type[size][size];</pre>	<pre>int[] x; x = new int[5]; char[] letters = new char[26]; int[] nums = new int[10]; int[][] box = new int[4][4];</pre>
Enhanced for statement Section 6.7 (pg 223)	<pre>for (<i>parameter:</i> <i>arrayName</i>) { <i>statement(s)</i> }</pre>	<pre>for (int num: array) { System.out.println(num); }</pre>
Class Declarations Section 7.2 (p 267)	<pre><i>Accessmodifier</i> class <i>filename</i> { <i>Instance Variables</i> <i>Constructor (Optional)</i> <i>Methods</i> }</pre>	<pre>public class test { //Implementation }</pre>
Instantiating an Object Section 7.1-7.2(p 266)	<pre><i>ClassName</i> <i>name</i> = new <i>ClassName</i>(<i>argument(s)</i>)</pre>	<pre>Scanner input = new Scanner(system.in); Random rand = new Random();</pre>