



Re	ecap: T	ype boolean	
• boolean: • A test in	A logical type w an if, for, or w	vhose values are true an while is a boolean expression	d false. on.
boolean	minor = (age	< 21);	
if (mind Syst } • boolean	expressions car	n("Can't purchase alcoh n be combined using <i>logical</i>	ol!");
Operator	Description	Example	Result
& &	and	(2 == 3) && (-1 < 5)	false
	or	(2 == 3) (-1 < 5)	true
!	not	! (2 == 3)	true
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Assertion	exa	ampl	e 1	
<pre>public static void mystery(int int z = 0;</pre>	x, int	у) {		
<pre>// Point A while (x >= y) { // Point B W x = x - y; z++; Cl if (x != y) {</pre>	hich of t ue at wh 100se AL	he followii ich point(: WAYS, NE	ng assertio s) in the c VER, or S	ons are ode? OMETIMES.
// Point C		x < y	х у	z == 0
z = z * 2;	Point A	SOMETIMES	SOMETIMES	ALWAYS
1	Point B	NEVER	SOMETIMES	SOMETIMES
// Point D	Point C	SOMETIMES	NEVER	NEVER
}	Point D	SOMETIMES	SOMETIMES	NEVER
// Point E System out println(z):	Point E	ALWAYS	NEVER	SOMETIMES
}				19











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do/while answer	
<pre>// Rolls two dice until a sum of 7 is reached. import java.util.*;</pre>	
<pre>public class Dice { public static void main(String[] args) { Random rand = new Random(); int tries = 0; int sum;</pre>	
<pre>do { int roll1 = rand.nextInt(6) + 1; // one roll int rol12 = rand.nextInt(6) + 1; sum = rol11 + rol12; System.out.println(rol11 + " + " + rol12 + " = " + sum); tries++; } while (aum != 7);</pre>	
System.out.println("You won after " + tries + " tries!"); } }	
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Sentinel lo	op with break
Scanner console = new Sca	anner(System.in);
int sum = 0;	
while (true) {	
System.out.print("Ent	ter a number (-1 to quit): ")
int number = console	.nextInt();
if $(number == -1)$ {	// don't add -1 to sum
break;	
sum = sum + number:	// number != -1 here
}	,,
, Gueter out suistle (Umber)	
system.out.printin("ine)	total was " + sum);