O BJP5 Self-Check 4.2: logicExpressions1

Language/Type:

\$\Delta\$ Java \$\overline{\text{boolean logic expressions}}\$

Author:
Leslie Ferguson (on 2019/09/19)

Given the following variable declarations:

```
int x = 4;
int y = -3;
int z = 4;
```

What are the results of the following relational expressions?

```
x == 4
x == y
false
x == z
false

x == z
false

x + y > 0
true

x - z != 0
false

y * y <= z
false

y / y == 1
x * (y + 2) > y - (y + z) * 2
true

true
```



You passed 9 of 9 tests.

Go to the next problem: ifStatementSyntax

	#	question	your answer	result
	1	x == 4	true	pass
ı	2	v == v	false	age (a)

BJP5 Self-Check 4.3: ifStatementSyntax

Which of the following if statement headers uses the correct syntax?

```
a. \bigcirc if x = 10 then {
b. \circledcirc if (x == y) {
c. \bigcirc if [x == 10] {
d. \bigcirc if (x equals 42) {
e. \bigcirc if (x => y) {
(order shuffled)
```



Go to the next problem: Oops4-errors

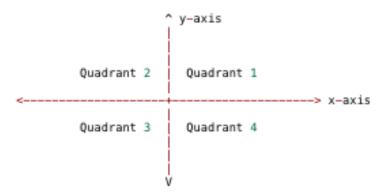
O BJP5 Exercise 4.19: quadrant

Language/Type:

Java if/else method basics return

Roy McElmurry (on 2019/09/19)

Write a static method called quadrant that takes as parameters a pair of real numbers representing an (x, y) point and tha the quadrant number for that point. Recall that quadrants are numbered as integers from 1 to 4 with the upper-right quadra numbered 1 and the subsequent quadrants numbered in a counter-clockwise fashion:



Notice that the quadrant is determined by whether the x and y coordinates are positive or negative numbers. If a point falls axis or the y-axis, then the method should return 0. Below are sample calls on the method.

Call	Value Returned	
quadrant(12.4, 17.8)	1	
quadrant(-2.3, 3.5)	2	
quadrant(-15.2, -3.1)	3	
quadrant(4.5, -42.0)	4	
quadrant(0.0, 3.14)	0	

Type your solution here:

```
1 public static int quadrant(double x, double y){
       if (x > 0){
            if (y > 0)
 4
                return 1;
 5
            if (y < 0)
 6
                return 4;
            else
8
                return 0;
9
10
       else if (x< 0){
11
12
            if (y > 0)
13
                return 2;
14
            if (y < 0)</pre>
15
                return 3;
16
17
                return 0;
18
19
20
            return 0;
21 }
```

This is a method problem. Write a Java method as described. Do not write a complete program or class; just the method(s) above.





You passed 7 of 7 tests.

Go to the next problem: numUnique