Quiz 03

Due Sep 16 at 12pm Points 10 Questions 10 Time Limit None

Instructions

There is no time limit, but you may only make one submission.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	23 minutes	10 out of 10

Score for this quiz: **10** out of 10 Submitted Sep 8 at 11:45pm This attempt took 23 minutes.

The following code snippet contains an error. What is the error?

int cost = 100;
if (cost > 100);
{
 cost = cost - 10;
}
System.out.println("Discount cost: " + cost);

Logical error: assignment statement does not show equality

Syntax error: the code won't compile

Logical error: if statement has a "do nothing" statement

Logical error: use of an uninitialized variable

Correct!

Which of the following statements is true about the if statement? The if and else blocks should never be enclosed by curly braces. The if statement can have only one condition that evaluates to an integer value. The else block is optional.

```
Which of the following conditions tests whether the user has entered an
integer value, which will then be assigned to the value variable?

int value = 0;
Scanner in = new Scanner(System.in);
System.out.print("Value: ");
if (...)
{
    value = in.nextInt();
}

in.hasNextInt()

in.nextInt(floor)

in.nextInt()
Correctl
```

Question 4 1 / 1 pts

Assume the following variables have been declared and given values elsewhere:

```
boolean completedProject;
int programsDone;
double classPercentage;
```

A student (in some other hypothetical course, *not* this one!) will pass programming class if and only if they have a percentage of 70.0% or higher and they have either completed the project or have done 5 or more programs. Which of the following statements assigns the Boolean variable

```
passProgramming correctly?
```

```
passProgramming = (classPercentage >= 0.7) || (programsDone >= 5) ||
  (completedProject);
```

Correct!

```
Question 5 1 / 1 pts
```

What is the best way to improve the following code fragment?

Correct!

Correct!

```
if ((counter % 10) == 0)
{
    System.out.println("Counter is divisible by ten: " + counter);
    counter++;
}
else
{
    System.out.println("Counter is not divisible by ten: " + counter);
    counter++;
}

    Shorten the variable names

Add a semicolon after each closing brace

Remove the braces to save several lines of code

Move the duplicated code outside of the if-else statement
```

Question 6 In the _____ loop header, you can include multiple update expressions, separated by commas, but it is not recommended. while if do for

Question 7 1 / 1 pts Which loop does not check a condition at the beginning of the loop?

		,
	I. The do loop II. The while loop III. The for loop	
	I and III	
	O III only	
Correct!	I only	
	I and II	

Which of the following statements expresses why the following code is considered bad form? for (rate = 5; years-- > 0; System.out.println(balance)) ... I. Unrelated expressions in loop header II. Doesn't match expected idiom for a for loop III. Loop iteration is not clear Correct! I and III only I and III only I and III only I and III only

```
Question 9 1 / 1 pts

What is the output of the code snippet given below?
```

```
int i = 0;
while (i != 9)
{
    System.out.print(i + " ");
    i = i + 2;
}

0 2 4 6 8

No output

10 12 14 16 18 .... (infinite loop)

Correct!

0 2 4 6 8 10 12 14 .... (infinite loop)
```

```
Question 10

How many times will the following loop run?

int i = 0;
while (i < 10)
{
    System.out.println(i);
    i++;
}

9

0

8

Correct!

● 10
```

Quiz Score: 10 out of 10