Quiz 08

Due Oct 28 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	18 minutes	10 out of 10

Score for this quiz: **10** out of 10 Submitted Oct 22 at 4:57pm This attempt took 18 minutes.

Question 1 1 / 1 pts

Consider the following code snippet:

Which of the following statements is correct?

Correct!

The subclass is overriding a superclass method.

This code will not compile.

The subclass is overloading a superclass method.

The subclass is shadowing a superclass method.

You are creating a Motorcycle class which is supposed to be a subclass of the Vehicle class. Which of the following class declaration statements will accomplish this? public class Motorcycle extends Vehicle public class Motorcycle inherits Vehicle public class Motorcycle implements Vehicle

public class Motorcycle interfaces Vehicle

Correct!

Correct!

Question 3 Consider the following code snippet: Vehicle aVehicle = new Auto(); aVehicle.moveForward(200); If the Auto class inherits from the Vehicle class, and both classes have an implementation of the moveForward() method with the same set of parameters and the same return type, which statement is correct? The moveForward() method of the Auto class will be executed. You must specify in the code which class's moveForward() method is to be used.

It is not possible to determine which class's method is called.

The moveForward() method of the Vehicle class will be executed.

```
1 / 1 pts
Question 4
Suppose the class Value is partially defined below
 public class Value
     private int number;
     public int getValue()
        return number;
 }
A subclass of Value, LargerValue, is defined with a getValue method that returns
twice the value of the parent. Which line is the body of LargerValue 's getValue
method?
    return getValue() * 2;
    return number * 2;
    return super.number * 2;
    freturn super.getValue() * 2;
```

Question 5

Correct!

1 / 1 pts

You are creating a class inheritance hierarchy about motor vehicles that will contain classes named Vehicle, Auto, and Motorcycle. Which of the following statements is correct?

Vehicle should be the subclass, while Auto and Motorcycle should be the superclasses.

Vehicle should be the superclass, while Auto and Motorcycle should be the subclasses.

Vehicle should be the default class, while Auto and Motorcycle should be the subclasses.

Vehicle should be the subclass, while Auto and Motorcycle should be the default classes.

Correct!

Correct!

A very simple, limited-use class can be declared entirely within another class (or within one of its methods). What is the very simple class of this arrangement called? method callback outer class inner class

```
Question 7

Consider the following code snippet.

public interface Measurable {
    double getMeasure();
}
```

```
public class Coin implements Measurable
{
    public Coin(double aValue, String aName) { ... }

    public double getMeasure()
    {
        return value;
    }
    ...
}

public class BankAccount implements Measurable
{
    public BankAccount(double initBalance) { ... }

public double getMeasure()
    {
        return balance;
    }
    ...
}
```

Which of the following statements is correct?

```
Measurable m = new Coin(0.1, "dime");
Coin dime = m;
```

Correct!

```
Coin dime = new Coin(0.1, "dime");

Measurable m = dime;
```

```
Coin dime = new Coin(0.1, "dime");

BankAccount b = (Measureable)dime;
```

```
Measureable m = new BankAccount(1000);
BankAccount b = m;
```

Question 8 1 / 1 pts

If you have multiple classes in your program that have implemented the same interface in different ways, how is the correct method executed?

The method must be qualified with the class name to determine the correct method.

Correct!

The Java virtual machine must locate the correct method by looking at the class of the actual object.



You cannot have multiple classes in the same program with different implementations of the same interface.

The compiler must determine which method implementation to use.

Question 9 1 / 1 pts

Consider the following class:

```
public class Player implements Comparable
{
    private String name;
    private int goalsScored;

    // other methods go here

    public int compareTo(Object otherObject)
    {
        return goalsScored - otherPlayer.goalsScored;
    }
}
```

What statement can be used to complete the compareTo() method?

Correct!

- Player otherPlayer = (Player)otherObject;
- Player otherPlayer = otherObject;
- Object otherPlayer = (Player)otherObject;
- Object otherPlayer = otherObject;

Question 10	1 / 1 pts
A method that has no implementation is called a/an method.	
interface	
abstract	
overloaded	
implementation	

Correct!

Quiz Score: 10 out of 10