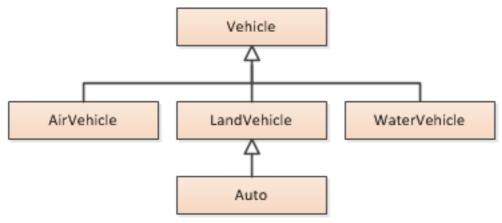
Name:		
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Quiz Chp 9: I	nherita	ance
Part 1: Main		
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1		
	What	is a class called that represents the most general entity in an inheritance hierarchy?
	0	A. Default class.
	0	B. Superclass.
	0	C. Subclass.
	0	D. Inheritance class.
2		
	Which	n class represents a more specific entity in an inheritance hierarchy?
	0	A. Default class
	0	B. Superclass
	0	C. Subclass.
	0	D. Inheritance class.
3		
		re creating a class inheritance hierarchy about motor vehicles that will contain classes named Vehicle, Auto, and cycle. Which of the following statements is correct?
	0	A. Vehicle should be the default class, while Auto and Motorcycle should be the subclasses.
	0	B. Vehicle should be the superclass, while Auto and Motorcycle should be the subclasses.
	0	C. Vehicle should be the subclass, while Auto and Motorcycle should be the superclasses.
	0	D. Vehicle should be the subclass, while Auto and Motorcycle should be the default classes.

Consider the following inheritance hierarchy diagram:



Which of the following statements is correct?

- A. Auto is a superclass of LandVehicle, and LandVehicle is a superclass of Vehicle.
- B. Auto is a superclass of LandVehicle, and LandVehicle is a subclass of Vehicle.
- C. Auto is a subclass of LandVehicle, and LandVehicle is a superclass of Vehicle.
- D. Auto is a subclass of LandVehicle, and LandVehicle is a subclass of Vehicle.

Consider the hierarchy of classes shown below.



Which represent valid class headers that would be found in this hierarchy?

A.

public class ScriptedShow extends TelevisionShow {...}
public class Comedy extends ScriptedShow {...}

В.

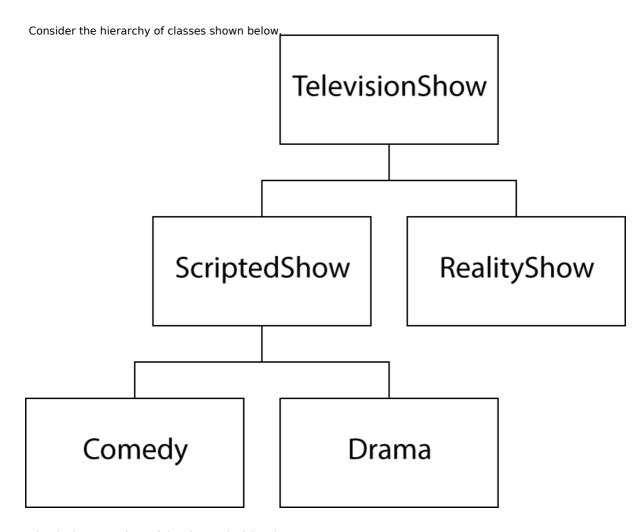
public class TelevisionShow extends ScriptedShow {...}
public class ScriptedShow extends Comedy {...}

C.

public class Drama extends TelevisionShow {...}
public class Comedy extends Drama {...}

D.

public class ScriptedShow extends RealityShow {...}
public class RealityShow extends ScriptedShow {...}



What is the superclass of the class TelevisionShow?

- A. Object
- B. Comedy
- C. RealityShow
- O. This class has no superclass

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7
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Consider the classes shown below:
public class Parent
{
public int getValue()
return 24;
}
public void display()
System.out.print(getValue() + "");
public class Child extends Parent
public int getValue()
return -7;
}
Using the classes above, what is the output of the following lines of code?
Parent kid = new Child();
Parent adult = new Parent();
kid.display();
adult.display();
 C A. -7 24
 C B. 24 24
 C. -7 -7
 D. 24 -7
```

Which of the following is true regarding subclasses?

igcap A. A subclass that inherits methods from its superclass may not override the methods.

B. A subclass that inherits instance variables from its superclass may not declare additional instance variables.

C. A subclass may inherit methods or instance variables from its superclass but not both.

D. A subclass may inherit methods and instance variables from its superclass, and may also implement its own methods and declare its own instance variables.

Which of the following is true regarding subclasses?

	A. A subclass has access to private instance variables of its superclass.
	B. A subclass does not have access to public instance variables of its superclass.
	C. A subclass must specify the implicit parameter to use methods inherited from its superclass.
	D. A subclass has no access to private instance variables of its superclass.
.0	
	What must a subclass do to modify a private superclass instance variable?
	A. The subclass must simply use the name of the superclass instance variable.
	B. The subclass must declare its own instance variable with the same name as the superclass instance variable.
	C. The subclass must use a public method of the superclass (if it exists) to update the superclass's private instance variable.
	D. The subclass must have its own public method to update the superclass's private instance variable.
.1	
	Which reserved word must be used to call a method of a superclass?
	C A. this
	C B. my
	C. parent
	C D. super
.2	
	If a subclass defines the same method name and the same parameter types for a method that appears in its superclass, which statement is true?
	A. the subclass method overloads the superclass method.
	B. the subclass method overrides the superclass method.
	C. the subclass has implemented the method on behalf of the superclass.
	D. a compiler error will occur.

What is the term used for a subclass that defines a method with the same name as a method in its superclass, but different parameter types?
A. implementingB. inheriting
C. overriding D. overloading
Consider the following code snippet: public class Auto extends Vehicle {
public Auto(int numberAxles) { super(numberAxles);
} } What does this code do?
A. It invokes the constructor of the Vehicle class from within the constructor of the Auto class. B. It invokes the constructor of the Auto class from within the constructor of the Vehicle class. C. It invokes a private method of the Vehicle class from within a method of the Auto class. D. This code will not compile.
When the reserved word super is followed by a period and a method name, what does it indicate?
A. A call to a superclass method. B. A call to a superclass constructor. C. A call to a subclass method. D. A call to a subclass constructor.
Which of the following statements is true about using the reserved word super to call a superclass constructor?
A. The call must use the keyword super followed by a period and a method name. B. The call must use the keyword super with no arguments.
C. The call must be the last line of the subclass constructor. D. The call must be the first line of the subclass constructor.

with

	In Java, two methods can have the same name provided that what is true?
	A. They cannot be defined in the same class.
	B. They must differ in their parameter types.
	C. One must be private and the other public.
	D. They must be related to each other through inheritance.
18	
	Which of the following statements about abstract methods is true?
	A. An abstract method has a name, parameters, and a return type, but no code in the body of the method.
	B. An abstract method has parameters, a return type, and code in its body, but has no defined name.
	C. An abstract method has a name, a return type, and code in its body, but has no parameters.
	D. An abstract method has only a name and a return type, but no parameters or code in its body.
19	
	Which of the following statements about classes is true?
	A. You can create an object from a concrete class, but not from an abstract class.
	B. You can create an object from an abstract class, but not from a concrete class.
	C. You cannot have an object reference whose type is an abstract class.
	C D. You cannot create subclasses from abstract classes.
20	
	When declared as protected, which statement is true about the access to data in an object?
	A. The data is accessible only by that class's methods and by all of its subclasses
	B. The data is accessible only by that class's methods, by all of its subclasses, and by methods in classes within the same package.
	C. The data is accessible only by that class's methods.
	D. The data is accessible by any class.

	Consider the following code snippet:
	public class Vehicle
	{
	protected int numberAxles;
	•••
	} Which statement is true about the accessibility of data in the numberAxles variable?
	A. It is only accessible by the Vehicle class's methods and by all of its subclasses
	B. It is only accessible by the Vehicle class's methods, by all of its subclasses, and by methods in classes within the same package.
	C. It is only accessible by the Vehicle class's methods.
	D. It is accessible by any class.
2	
	When identifying the proper instance variables to use in the design of an inheritance hierarchy, how do you decide where in the hierarchy a variable should be placed?
	A. Instance variables should only be declared in the superclass and then accessed using the super keyword.
	B. Instance variables should only be declared in subclasses.
	C. Instance variables that are common to all classes should be placed at the base of the hierarchy.
	D. Instance variables that are relevant to only one class should be placed at the base of the hierarchy.