Homeworks

Review Test Submission: Homework 1

Review Test Submission: Homework 1

User	Brittany Sifford
Course	Java Programming (Intermediate) (92759)
Test	Homework 1
Started	1/23/24 4:53 PM
Submitted	1/23/24 6:31 PM
Due Date	2/7/24 11:59 PM
Status	Completed
Attempt Score	36 out of 36 points
Time Elapsed	1 hour, 37 minutes
Results Displaye	ed All Answers, Submitted Answers, Correct Answers

Question 1 1 out of 1 points

Using public set methods helps provide data integrity if:

Selected Answer: 👩 Both b and c.

Answers:

The instance variables are public.

The instance variables are private.

The methods perform validity checking.

Both b and c.

Question 2

1 out of 1 points

The static method _____ of class String returns a formatted String.

Selected Answer: 👩 format.

Answers:

printf.

👩 format.

formatString.

toFormatedString.

Question 3

1 out of 1 points

Homeworks

Review Test Submission: Homework 2

Review Test Submission: Homework 2

Brittany Sifford
Java Programming (Intermediate) (92759)
Homework 2
1/29/24 10:29 AM
1/29/24 11:26 AM
2/15/24 11:59 PM
Completed
30 out of 30 points
56 minutes

Question 1 1 out of 1 points

Which of the following statements is *false*?

Selected

Answer:

Anonymous methods provide a shorthand notation for creating lambdas.

Answers:

As of Java SE 8, any interface containing only one method is known as a functional interface.

There are many functional interfaces throughout the Java APIs.

Functional interfaces are used extensively with Java SE 8's new lambda capabilities.

Anonymous methods provide a shorthand notation for creating lambdas.

Question 2 1 out of 1 points

> A class that implements an interface but does not declare all of the interface's methods must be declared _

Selected Answer: 👩 abstract.

Answers:

public.

interface.



final.

Question 3 1 out of 1 points

Interfaces can have _____ methods.

Selected Answer: 👩 any number of

Answers: 0

1

2

any number of

Question 4 1 out of 1 points

Which of the following statements about abstract superclasses is *true*?

Selected abstract

Answer: superclasses may contain data.

Answers: abstract

superclasses may contain data.

abstract

superclasses may *not* contain implementations of methods.

abstract

superclasses must declare all methods as abstract.

abstract

superclasses must declare all data members not given values as

abstract.

Question 5 1 out of 1 points

In Java SE 7 and earlier, an interface may contain:

Selected Answer: public

static

final

data and public

abstract

methods.

Answers: private

static data and public abstract methods.

only public abstract methods.

public static final

data and public

abstract methods.

private static data and public final methods.

Question 6 1 out of 1 points

For which of the following would polymorphism *not* provide a clean solution?

Selected



Answer:

A program to compute a 5% savings account interest for a variety of clients.

Answers:

A billing program where there is a variety of client types that are billed with different fee structures.

A maintenance log program where data for a variety of types of machines is collected and maintenance schedules are produced for each machine based on the data collected.



A program to compute a 5% savings account interest for a variety of clients.

An IRS program that maintains information on a variety of taxpayers and determines who to audit based on criteria for classes of taxpayers.

Question 7 1 out of 1 points

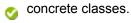
Non-abstract classes are called ______.

Selected Answer: 👩 concrete classes.

Answers: real classes.

instance classes.

implementable classes.



Question 8 1 out of 1 points

Which of the following statements is *false*?

Selected



Answer:

An advantage of inheritance over interfaces is that only inheritance provides the is-a relationship.

Answers:



An advantage of inheritance over interfaces is that only inheritance provides the *is-a* relationship.

Objects of any subclass of a class that implements an interface can also be thought of as objects of that interface type.

When a method parameter is declared with a subclass or interface type, the method processes the object passed as an argument polymorphically.

All objects have the methods of class Object.

Question 9 1 out of 1 points

Consider the abstract superclass below:

```
public abstract class Foo
  private int a;
  public int b;
  public Foo(int aVal, int bVal)
    a = aVal;
   b = bVal;
  public abstract int calculate();
```

Any concrete subclass that extends class Foo:

Selected Answer: 👩 Both (a) and (b).



Answers:

Must implement a method called calculate.

Will not be able to access the instance variable a.

Neither (a) nor (b).



Both (a) and (b).

Question 10 1 out of 1 points

Polymorphism allows for specifics to be dealt with during:

Selected Answer: 👩 execution.

Answers:

execution.

compilation.

programming.

debugging.

Question 11 1 out of 1 points

> Which interface is used to identify classes whose objects can be written to or read from some type of storage or transmitted across a network?

Serializable Selected Answer:

Comparable Answers:

Runnable

AutoCloseable

Serializable



Question 12 1 out of 1 points

> Consider classes A, B and C, where A is an abstract superclass, B

is a concrete class that inherits from A and C is a concrete class that inherits from B.

declares abstract method originalMethod, implemented in class B. Which of the following statements is true of class C?

Selected

None of the above.

Answer:

Method originalMethod Answers:

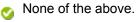
cannot be overridden in class C—once it has been implemented in

concrete class B, it is implicitly final.

Method originalMethod

must be overridden in class C, or a compilation error will occur.

If method originalMethod is not overridden in class C but is called by an object of class C, an error occurs.



Question 13 1 out of 1 points

> When a superclass variable refers to a subclass object and a method is called on that object, the proper implementation is determined at execution time. What is the process of determining the correct method to call?

Selected Answer: 👩 late binding.

Answers:

early binding.

non-binding.

on-time binding.

late binding.

Question 14 1 out of 1 points

Which of the following statements is *false*?

Selected



Answer:

With non-static interface methods, helper methods can now be declared directly in interfaces rather than in separate classes.

Answers:

Prior to Java SE 8, it was common to associate with an interface a class containing static helper methods for working with objects that implemented the interface.

Class Collections contains many static helper methods for working with objects that implement interfaces Collection, List, Set and more.

Collections method sort can sort objects of any class that implements interface List.



With non-static interface methods, helper methods can now be declared directly in interfaces rather than in separate classes.

Question 15 1 out of 1 points

> Which of the following could be used to declare abstract method method1 in abstract class Class1 (method1 returns an int and takes no arguments)?

Selected Answer: opublic abstract int method1();

Answers: public int method1();

public int abstract method1();

public abstract int method1();

public int nonfinal method1();

Question 16 1 out of 1 points

Which keyword is used to specify that a class will define the methods of an interface?

Selected Answer: 👩 implements

Answers: uses

implements

defines

extends

Question 17 1 out of 1 points

Which of the following is not possible?

Selected <

A class that inherits from two classes.

Answer:

Answers: A class that implements two interfaces.

A class that inherits from two classes.

A class that inherits from one class, and implements an interface.

All of the above are possible.

Question 18 1 out of 1 points

Which of the following statements is false?

Selected

(2)

Answer: References to interface types do not have access to method

toString.

Answers:

References to interface types do not have access to method

toString.

Method toString can be invoked implicitly on any object.

With inheritance, classes and their inherited classes tend to be very similar.

Dramatically different classes can often meaningfully implement the same interface.

Question 19 1 out of 1 points

Which of the following statements is *false*?

Selected

0

Answer:

When you enhance an existing interface with default methods—any class that implemented the original interface will break.

Answers:

In Java SE 8, an interface may declare default methods—that is, public methods with concrete implementations that specify how an operation should be performed.

When a class implements an interface, the class receives the interface's default concrete implementations if it does not override them.



When you enhance an existing interface with default methods—any class that implemented the original interface will break.

With default methods, you can declare common method implementations in interfaces (rather than abstract classes), which gives you more flexibility in designing your classes.

Question 20 1 out of 1 points

Classes and methods are declared final for all but the following reasons:

Selected Answer:

final

igstar

methods are static.

Answers:

final

methods allow inlining the code.

final

methods and classes prevent further inheritance.

final

 \bigcirc

methods are static.

final

methods can improve performance.

Question 21 1 out of 1 points

Review Test Submission: Homework 2 – Java Programming (... Assigning a subclass reference to a superclass variable is safe _____ because the subclass object is an Selected Answer: object of its superclass. because the subclass object has an Answers: object of its superclass. because the subclass object is an object of its superclass. only when the superclass is abstract. only when the superclass is concrete. **Question 22** 1 out of 1 points Declaring a method final means: Selected Answer: 👩 it cannot be overridden. it will prepare the object for garbage collection. Answers: it cannot be accessed from outside its class. it cannot be overloaded. it cannot be overridden. **Question 23** 1 out of 1 points Which of the following is false? It's OK to any of a class's methods from its constructors. Selected Answer: You should not call overridable methods from constructors—when Answers: creating a subclass object, this could lead to an overridden method being called before the subclass object is fully initialized. It's OK to any of a class's methods from its constructors. When you construct a subclass object, its constructor first calls one of the direct superclass's constructors. If the superclass constructor calls an overridable method, the subclass's version of that method will be called by the superclass constructor. It's acceptable to call a static method from a constructor.

A(n) _____ class cannot be instantiated.

Question 24

1 out of 1 points

Selected Answer: 👩 abstract. final. Answers: concrete. abstract. polymorphic. **Question 25** 1 out of 1 points If the superclass contains only abstract method declarations, the superclass is used Selected Answer: 👩 interface inheritance. Answers: implementation inheritance. interface inheritance. Both. Neither. **Question 26** 1 out of 1 points Every object in Java knows its own class and can access this information through method Selected Answer: 👩 getClass. getClass. Answers: getInformation. objectClass. objectInformation. **Question 27** 1 out of 1 points All of the following methods are implicitly final except: Selected Answer: 👩 a method in an abstract class. a method in an abstract class. Answers: a private method. a method declared in a final class.

static method.

Question 28 1 out of 1 points

Which statement *best* describes the relationship between superclass and subclass types?

Selected

cteu

Answer: A subclass reference *can* be assigned to a superclass variable, but a superclass reference *cannot* be assigned to a subclass variable.

Answers: A subclass reference *cannot* be assigned to a superclass variable and a superclass reference *cannot* be assigned to a subclass

variable.

A subclass reference *can* be assigned to a superclass variable and a superclass reference *can* be assigned to a subclass variable.

A superclass reference *can* be assigned to a subclass variable, but a subclass reference *cannot* be assigned to a superclass variable.

 \bigcirc

A subclass reference *can* be assigned to a superclass variable, but a superclass reference *cannot* be assigned to a subclass variable.

Question 29 1 out of 1 points

Polymorphism enables you to:

Selected Answer: oprogram in the general.

Answers: program in the general.

program in the specific.

absorb attributes and behavior from previous classes.

hide information from the user.

Question 30 1 out of 1 points

Which of the following does not complete the sentence correctly?

An interface _____

Selected

 \checkmark

can be instantiated.

Answer:

Answers: forces classes that implement it to declare all the abstract interface

methods.

can be used in place of an abstract class when there is no default implementation to inherit.

is declared in a file by itself and is saved in a file with the same name as the interface followed by the .java extension.



can be instantiated.

Monday, March 4, 2024 10:17:51 AM CST

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Homeworks

Review Test Submission: Homework 3

Review Test Submission: Homework 3

User	Brittany Sifford
Course	Java Programming (Intermediate) (92759)
Test	Homework 3
Started	2/6/24 1:52 PM
Submitted	2/6/24 3:12 PM
Due Date	2/25/24 11:59 PM
Status	Completed
Attempt Score	40 out of 40 points
Time Elapsed	1 hour, 19 minutes

Results Displayed All Answers, Submitted Answers, Correct Answers

Question 1 1 out of 1 points

> Which of the following is not an abstract implementation provided by the collections framework?

Selected Answer: 👩 AbstractTree.

Answers:

AbstractCollection.

AbstractTree.

AbstractMap.

AbstractList.

Question 2 1 out of 1 points

Which statement is false?

Selected

Answer:

The only operation permitted on the view returned by Arrays method asList is delete, which deletes the value from the view and the

backing array.

Answers:

When a List is backed by an array, any modifications made through

the List view change the array.

When a List is backed by an array, any modifications made to the

array change the List view.



The only operation permitted on the view returned by Arrays method asList is delete, which deletes the value from the view and the backing array.

Adding elements to the view returned by Arrays method as List results in an UnsupportedOperationException.

Question 3

1 out of 1 points

Maps allocate keys to values and cannot contain duplicate keys, i.e., the key-tovalue mapping is a _____ mapping.

Selected Answer: 👩 one-to-one.

Answers:

many-to-many.

many-to-one.

one-to-many.

one-to-one.

1 out of 1 points

The classes and interfaces which comprise the collections framework are members of package _

Selected Answer: 👩 java.util.



Answers:

👩 java.util.

javax.swing.

java.collections.

java.collection.

Question 5

Question 4

1 out of 1 points

Which statement is false?

Selected



Answer:

Unmodifable wrappers throw ModificationExceptions if attempts are

made to modify the collection.

Answers:

The Collections API provides a set of public static methods for converting collections to unmodifiable versions.

Unmodifable wrappers throw ModificationExceptions if attempts are made to modify the collection.

You can use an unmodifiable wrapper to create a collection that offers read-only access to others while allowing read-write access to yourself.

You can create the kind of collection mentioned in part (c) simply by giving others a reference to the unmodifiable wrapper while you also retain a reference to the wrapped collection itself.

Question 6 1 out of 1 points

Which statement is false?

Selected Answer: 👩 A List cannot contain duplicate elements.

Answers: A List is a Collection.

A List cannot contain duplicate elements.

A List is sometimes called a sequence.

Lists use zero-based indices.

Question 7 1 out of 1 points

Objects of many classes can now be output and input with Java's object

Selected Answer: 👩 serialization.

Answers: encapsulation.

overloading.

serialization.

reflection.

Question 8 1 out of 1 points

Which statement is false?

Selected

Class SortedSet implements TreeSet.

Answer:

Answers: SortedSet extends Set.

Class SortedSet implements TreeSet.

When a HashSet is constructed, it removes any duplicates in the Collection.

By definition, a Set object does not contain any duplicates.

Question 9 1 out of 1 points Which of the following does not implement interface List? Selected Answer: 👩 ListIterator. ArrayList. Answers: LinkedList. Vector. ListIterator. **Question 10** 1 out of 1 points LinkedList method listIterator returns a(n) ______. Selected Answer: 👩 bidirectional iterator. Iterator. Answers: List. sub list. bidirectional iterator. **Question 11** 1 out of 1 points Method shuffle is a member of _____. Selected Answer: 👩 class Collections. class Arrays. Answers: class Collections. interface Collection. Interface List. **Question 12** 1 out of 1 points Which statement is false? Selected PriorityQueue orders elements in increasing order, so that smallest Answer: value will be the first element removed from PriorityQueue. Queue is a new collection interface introduced in J2SE 5.0. Answers:

Queue and PriorityQueue are included in the java.util package.



PriorityQueue orders elements in increasing order, so that smallest value will be the first element removed from PriorityQueue.

Queue extends interface Collection.

Question 13 1 out of 1 points

Which of the following performs a boxing conversion?

Selected Answer: \bigcirc Integer x = 7;

Answers:

int x = 7;

Integer x = 7;

Neither of the above.

Both of the above.

Question 14 1 out of 1 points

Which statement is false?

Selected



Answer:

If the search key is found, method binarySearch returns the List index (position relative to 1) of the element containing the search key.

Answers:

Java does not guarantee which item will be found first when a binarySearch is performed on a List containing multiple elements equivalent to the search key.



If the search key is found, method binarySearch returns the List index (position relative to 1) of the element containing the search key.

The binary search algorithm is fast.

Method binarySearch takes a List as the first argument.

Question 15 1 out of 1 points

> The collections framework provides various collection interfaces from which the programmer can quickly "flesh out" complete customized implementations.

Selected Answer: 👩 abstract.

Answers:

abstract.

concrete.

structured.

unstructured.

Question 16 1 out of 1 points

Which of the following performs an unboxing conversion? Assume x refers to an Integer object.

Selected Answer: \bigcirc int y = x;

Answers: \bigcirc int y = x;

Integer y = x;

Neither of the above.

Both of the above.

Question 17 1 out of 1 points

Which statement is false?

Selected

Class ArrayList is a fixed-size array.

Answer:

Answers: A ListIterator accesses the elements of a List.

Class ArrayList is a fixed-size array.

A LinkedList is a linked list implementation of a List.

ArrayLists execute faster than Vectors because they are not thread safe.

Question 18 1 out of 1 points

Which statement is false?

Selected Answer:

All built-in collections are synchronized.

Answers:

All built-in collections are synchronized.

Concurrent access to a Collection by multiple threads could cause indeterminate results or fatal errors.

To prevent potential threading problems, synchronization wrappers are used around collection classes that might be accessed by multiple threads.

A synchronization wrapper class receives method calls, adds some functionality for thread safety and then delegates the calls to the wrapped class.

Question 19		1 out of 1 points
A Properti	es object is a Hashta	able object.
Selected A	Answer: 👩 persistent.	
Answers:	transient.	
	opersistent.	
	polymorphic.	
	protected.	
Question 20		1 out of 1 points
If the desi	red Object is not found, binarySea	arch returns
Selected A	Answer: 👩 a negative value	
Answers:	a positive value	
	zero	
	🧭 a negative value	
	an ObjectNotFoundl	Error.
Question 21		1 out of 1 points
	methods enable a program to	view a portion of a collection.
Selected A	Answer: 👩 Range-view.	
Answers:	Focus-view.	
	👩 Range-view.	
	Delimiter-view.	
	Subset-view.	
Question 22		1 out of 1 points
Which sta	tement is false?	

Selected Answer:

Collections discourage software reuse because they are non-

portable.

Answers:

A collection is an object that can hold references to other objects.

The collection interfaces declare the operations that can be performed on each type of collection.

Collections discourage software reuse because they are nonportable.

Collections are carefully constructed for rapid execution and efficient use of memory.

Question 23

1 out of 1 points

Collections method _____ returns true if two Collections have no elements in common.

Selected Answer: 👩 disjoint.



Answers:

shuffle.

contains.

hasCommon.

disjoint.

Question 24

1 out of 1 points

Iterator method _____ determines whether the Collection contains more elements.

Selected Answer: 👩 hasNext.

Answers:

hasNext.

next.

contains.

containsNext.

Question 25

1 out of 1 points

Interface Collection contains _____ operations (i.e., operations performed on the entire collection).

Selected Answer: 👩 bulk.



	Answers:	aggregate.	aggregate.	
	•	composite.		
		integral.		
		obulk.		
Questi	on 26		1 out of 1 point	
	PriorityQueue me the queue.	thod inserts an element	t at the appropriate location in	
	Selected Answer	: 👩 offer.		
	Answers:	offer.		
		push.		
		poll.		
		peek.		
Questi	on 27		1 out of 1 point	
Questi	Collections metho	od returns a Comparatents in reverse order.		
Questi	Collections metho collection's eleme	od returns a Comparatents in reverse order. : ♂ reverseOrder.		
Questio	Collections metho collection's eleme	nts in reverse order.		
Questio	Collections metho collection's eleme Selected Answer	ents in reverse order. : order.		
Questio	Collections metho collection's eleme Selected Answer	ents in reverse order. : reverseOrder. rotate.		
Questio	Collections metho collection's eleme Selected Answer	rents in reverse order. reverseOrder. rotate. shuffle.		
Questic	Collections methocollection's elements Selected Answer Answers:	reverse order. rotate. shuffle. reverse.	or object that orders the	
	Collections method collection's elements Selected Answers Answers:	reverse order. rotate. shuffle. reverse.	or object that orders the	
	Collections methocollection's elements Selected Answer Answers: on 28 Algorithm	reverse order. reverseOrder. rotate. shuffle. reverse. reverseOrder. reverseOrder.	or object that orders the	
	Collections method collection's elements Selected Answers Answers: on 28 Algorithm Selected Answer	reverse order. reverseOrder. rotate. shuffle. reverse. reverseOrder. reverseOrder. randomly orders a List's eleme shuffle.	or object that orders the	
	Collections methocollection's elements Selected Answer Answers: on 28 Algorithm	reverse order. rotate. shuffle. reverse. reverseOrder. reverse. reverseOrder. randomly orders a List's eleme shuffle. randomShuffle.	or object that orders the	
	Collections method collection's elements Selected Answers Answers: on 28 Algorithm Selected Answer	reverse order. reverseOrder. rotate. shuffle. reverse. reverseOrder. reverseOrder. randomly orders a List's eleme shuffle.	1 out of 1 point	

Question 29

1 out of 1 points

Which of these is not an example of a "real-life" collection?

Selected Answer: 👩 The number of pages in a book.

Answers:

The cards you hold in a card game.

Your favorite songs stored in your computer.

The players on a soccer team.

The number of pages in a book.

Question 30

1 out of 1 points

Stack method _____ looks at the top element of a stack without removing that element.

Selected Answer: 👩 peek.



Answers:

glance.

peek.

look.

sample.

Question 31

1 out of 1 points

Map method is used to determine whether a map contains a mapping for the specified key.

Selected Answer: 👩 containsKey

Answers:

containsKey

hasKey

containsMapping

hasMapping

Question 32

1 out of 1 points

Which statement about hashing is false?

Selected

A load factor of 1.0 usually results in good hashing performance, Answer:

but less efficient utilization of memory.

Answers:

Hashing facilitates high-speed storing and retrieval of data.

Two different data items can hash to the same cell; this is called a collision.

A load factor of 0.5 usually results in good hashing performance, but less efficient utilization of memory.



A load factor of 1.0 usually results in good hashing performance, but less efficient utilization of memory.

Question 33 1 out of 1 points

> Java supports type inferencing with the <> notation in statements that declare and create generic type variables and objects. For example, the following line: List<String> list = new ArrayList<String>(); can be written as:

List<> list = new ArrayList<>(); Answers:

List<> list = new ArrayList<String>();

List<String> list = new ArrayList<>();

List<String> list = new ArrayList();

Question 34 1 out of 1 points

Class Collections provides algorithms for reversing, filling and copying _____

Selected Answer: 👩 Lists.

Answers:

Lists.

Collections.

Arrays.

Stacks.

Question 35 1 out of 1 points

If no elements are in the Stack, method pop throws an ____

Selected Answer: 👩 EmptyStackException.

OutOfMemoryError. Answers:

OutOfMemoryException.

 ${\bf Empty Stack Error}.$

EmptyStackException.

Quest	10N 36		1 out of 1 points	
	A(n) all elements from the c	lows a program to walk through the collection and remove ollection.		
	Selected Answer:			
	Answers:	Set.		
		Queue.		
		List.		
Quest	ion 37		1 out of 1 points	
	Comparator method than the second arg	compare should return if the ument.	first argument is greater	
	Selected Answer:	🤡 a positive int value.		
	Answers:	🤡 a positive int value.		
		zero.		
		a negative int value.		
		a String.		
Quest	ion 38		1 out of 1 points	
		sort that accepts a List as an argument. st implement the interface.	It sorts the List	
	Selected Answer:	omparable.		
	Answers:	Comparable.		
		Comparator.		
		Compare.		
		Ordering.		

Question 39 1 out of 1 points

Which statement is false?

Selected

The methods for primitive types correspond to the methods for the Answer:

corresponding type-wrapper classes.

Each primitive type has a corresponding type-wrapper class. Answers:

The type-wrapper classes enable you to manipulate primitive-type

values as objects.

Type-wrapper classes are final, so you cannot extend them.



The methods for primitive types correspond to the methods for the corresponding type-wrapper classes.

Question 40 1 out of 1 points

> To find the smallest and largest element of a Collection, use Collections methods ____ and _

Selected Answer: 👩 min, max.

Answers:

least, greatest.

smallest, largest.

first, last.

min, max.

Monday, March 4, 2024 10:18:13 AM CST

← ок

combining

Static class variables:

Selected Answer: 👩 are shared by all objects of a class.

are final. Answers:

are public.

are private.

are shared by all objects of a class.

Question 4 1 out of 1 points

> Instance variables declared final do not or cannot:

Selected Answer: 🕜 Be modified after they are initialized.

Answers: Cause syntax errors if used as a left-hand value.

Be initialized.

Be modified after they are initialized.

None of the above.

Question 5 1 out of 1 points

Which of the following statements is *true*?

Answer:

Methods and instance variables can both be either public

👩 or private.

Answers:

Selected

Methods and instance variables can both be either public

or private.

Information hiding is achieved by restricting access to class members via keyword public.

The private members of a class are directly accessible to the clients of a class.

None of the above is true.

Question 6 1 out of 1 points

> When must a program explicitly use the this reference?

Selected Answer: Ø

Accessing an instance variable that is shadowed by a local

variable.

Answers: Accessing a private variable.

Accessing a public variable.

Accessing a local variable.

0

Accessing an instance variable that is shadowed by a local

/ariable.

Question 7 1 out of 1 points

A constructor cannot:

Selected Answer: o specify return types or return values.

Answers: be overloaded.

initialize variables to their defaults.

specify return types or return values.

have the same name as the class.

Question 8 1 out of 1 points

A programmer-defined constructor that has *no* arguments is called a(n) _____.

Selected Answer: 🚫 no-argument constructor.

Answers: empty constructor.

ono-argument constructor.

default constructor.

null constructor.

Question 9 1 out of 1 points

What happens when this is used in a constructor's body to call another constructor of the same class if that call is not the first statement in the constructor?

Selected Answer: 👩 A compilation error occurs.

A runtime error occurs.

A logic error occurs.

Nothing happens. The program compiles and runs.

Question 10 1 out of 1 points

The ______ of a class are also called the public services or the public interface that the class provides to its clients.

Selected Answer: 👩 public methods.

Answers: public constructors.

public instance variables.

public methods.

All of the above.

Question 11 1 out of 1 points

A final field should also be declared _____ if it is initialized in its declaration.

Selected Answer: 👩 static.

Answers: private.

public.

protected.

👩 static.

Question 12 1 out of 1 points

When implementing a method, use the class's *set* and *get* methods to access the class's _____ data.

Selected Answer: oprivate.

Answers: public.

private.

protected.

All of the above.

Question 13 1 out of 1 points

Constructors:

Selected

Both (a) and (c).

Answer:

Initialize instance variables. Answers:

When overloaded, can have identical argument lists.

When overloaded, are selected by number, types and order of

types of parameters.

Both (a) and (c).

Question 14

1 out of 1 points

Which of the following class members should usually be private?

Selected Answer: 🕜 Variables (or fields).

Answers:

Methods.

Constructors.

Variables (or fields).

All of the above.

Question 15

1 out of 1 points

Set methods are also commonly called _____ methods and get methods are also commonly called _____ methods.

Selected Answer: 👩 mutator, accessor.

Answers:

query, mutator.

accessor, mutator.

mutator, accessor.

query, accessor.

Question 16

1 out of 1 points

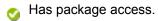
When no access modifier is specified for a method or variable, the method or variable:

Selected Answer: 👩 Has package access.

Answers:

Is public.

Is private.



Is static.

Question 17 1 out of 1 points

Which method returns an array of the enum's constants?

Selected Answer: 👩 values.

Answers: values.

getValues.

constants.

getConstants.

Question 18 1 out of 1 points

Having a this reference allows:

Selected Answer: All of the above.

Answers:

a method to refer explicitly to the instance variables and other methods of the object on which the method was called.

a method to refer implicitly to the instance variables and other methods of the object on which the method was called.

an object to reference itself.

All of the above.

Question 19 1 out of 1 points

Which statement is true when a superclass has protected instance variables?

Selected Answer: All of the above.

Answers:

A subclass object can assign an invalid value to the superclass's instance variables, thus leaving an object in an inconsistent state.

Subclass methods are more likely to be written so that they depend on the superclass's data implementation.

We may need to modify all the subclasses of the superclass if the superclass implementation changes.

All of the above.

Question 20 1 out of 1 points

Private fields of a superclass can be accessed in a subclass

Selected

by calling public or protected methods declared in the Answer:

superclass.

by calling private methods declared in the superclass. Answers:

by calling public or protected methods declared in the superclass.

directly.

All of the above.

Question 21 1 out of 1 points

Which of the following statements is false?

Selected



Answer:

If the class you're inheriting from declares instance variables as private, the inherited class can access those instance variables

directly.

Answers:

A class can directly inherit from class Object.

It's often much more efficient to create a class by inheriting from a similar class than to create the class by writing every line of code the

new class requires.



If the class you're inheriting from declares instance variables as private, the inherited class can access those instance variables directly.

A class's instance variables are normally declared private to enforce good software engineering.

Question 22 1 out of 1 points

Inheritance is also known as the

Selected Answer: ois-a relationship.

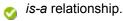


Answers:

knows-a relationship.

has-a relationship.

uses-a relationship.



Question 23 1 out of 1 points

Which of the following statements is false?

Selected

A superclass object is a subclass object.

Answer:

A subclass is often larger than its superclass. Answers:

A superclass object is a subclass object.

The class following the extends keyword in a class declaration is the direct superclass of the class being declared.

Java uses interfaces to provide the benefits of multiple inheritance.

Question 24 1 out of 1 points

> Which of the following keywords allows a subclass to access a superclass method even when the subclass has overridden the superclass method?

Selected Answer: 👩 super.

base. Answers:

this.

public.

super.

Question 25 1 out of 1 points

An advantage of inheritance is that:

Selected

Objects of a subclass can be treated like objects of their Answer:

superclass.

All methods can be inherited. Answers:

All instance variables can be uniformly accessed by subclasses

and superclasses.

Objects of a subclass can be treated like objects of their superclass.

None of the above.

Question 26 1 out of 1 points Which superclass members are inherited by all subclasses of that superclass? Selected Answer: 👩 protected instance variables and methods. private instance variables and methods. Answers: protected instance variables and methods. private constructors. protected constructors. **Question 27** 1 out of 1 points The default implementation of method clone of Object performs a _____ Selected Answer: 👩 shallow copy. empty copy. Answers: deep copy. full copy. shallow copy. **Question 28** 1 out of 1 points Overriding a method differs from overloading a method because: Selected Answer: 👩 Overridden methods have the same signature. Overloaded methods have the same signature. Answers: Overridden methods have the same signature. Both of the above. Neither of the above. **Question 29** 1 out of 1 points Every class in Java, except _____, extends an existing class. Selected Answer: 👩 Object.

Integer.

Answers:



String.

Class.

Question 30 1 out of 1 points

When a subclass constructor calls its superclass constructor, what happens if the superclass's constructor does not assign a value to an instance variable?

Selected

Ø

Answer:

The program compiles and runs because the instance variables are initialized to their default values.

Answers:

A syntax error occurs.

A compile-time error occurs.

A run-time error occurs.



The program compiles and runs because the instance variables are initialized to their default values.

Question 31 1 out of 1 points

Consider the classes below, declared in the same file:

```
class A
{
    int a;
    public A()
    {
        a = 7;
    }
}
class B extends A
{
    int b;
    public B()
    {
        b = 8;
    }
}
```

Which of the statements below is *false*?

Selected Answer:

A reference of type A

can be treated as a reference of type B.

Answers:

Both variables a and b are instance variables.

After the constructor for class B executes, the variable a will have the value 7.

After the constructor for class B executes, the variable b will have the value 8.

A reference of type A

can be treated as a reference of type B.

Question 32 1 out of 1 points

Using the protected keyword also gives a member:

Selected Answer: opackage access.

Answers: public access.

package access.

private access.

block scope.

Question 33 1 out of 1 points

Which of the following is the superclass constructor call syntax?

Selected

Ø

Answer:

keyword super, followed by a set of parentheses containing the superclass constructor arguments.

Answers: keyword super, followed by a dot (.).

0

keyword super, followed by a set of parentheses containing the superclass constructor arguments.

keyword super, followed by a dot and the superclass constructor name.

None of the above.

Question 34 1 out of 1 points

When overriding a superclass method and calling the superclass version from the subclass method, failure to prefix the superclass method name with the keyword super and a dot (.) in the superclass method call causes _____.

Selected Answer: 👩 infinite recursion.

Answers: a compile-time error.

a syntax error.

infinite recursion.

a runtime error.

Question 35 1 out of 1 points

Superclass methods with this level of access *cannot* be called from subclasses.

Selected Answer: 👩 private.

Answers: private.

public.

protected.

package.

Question 36 1 out of 1 points

The default equals implementation of class Object determines:

Selected Answer: 🗸 whether two references refer to the same object in memory.

Answers:

whether two references refer to the same object in memory.

whether two references have the same type.

whether two objects have the same instance variables.

whether two objects have the same instance variable values.

Monday, March 4, 2024 10:16:27 AM CST

← OK