Total Questions: 24



Java 111 Chapter 9, 17 Quiz

Most Correct Answers: #21 Least Correct Answers: #8

- 1. Instance variables are variables declared inside a method or method parameter.
- **1/7** (A) True
- **0/7** B True only in an abstract class
- 5/7 C False
- 2. Which of the following is are true?
- 2/7 (A) If an object reference is declared as a local variable it goes on the heap.
- 5/7 B Local variables live on the stack in the frame corresponding to the method where the variables are declared.
- 4/7 All objects live in the heap regardless of whether the reference is a local or instance variable.
- 6/7 Instance variables are variables declared inside a class but outside any method.
- 3. In the code example below, which is the object reference variable?
- **0/7** (A) Duck()
- **0/7** (B) 24
- **5/7 C** d
- 0/7 (D) new Duck()
- **1/7** (E) Duck
 - 4. In the code example below, where will the Duck object live?
- **4/7** A Heap
- **2/7** (B) Stack
- **0/7** (c) Frame

```
public class StackRef {
   public void run() {
      build();
   }
   public void build() {
      Duck d = new Duck(24);
}
```

public class StackRef {

public void run() {
 build();

public void build() {
 Duck d = new Duck(24);

5. The currently executing method is located where in memory?

- **0/7** (A) Bottom of the heap
- $^{3/7}$ $^{(B)}$ Top of the heap
- 1/7 (c) Bottom of the stack
- 3/7 D Top of the stack

6. When is an object eligible for garbage collection?

- 2/7 A When the reference is assigned to another object
- 3/7 B When the reference is set to null
- 1/7 (C) As soon as it is instantiated
- 6/7 When the reference variable goes out of scope (it is no longer pointing to the object)

7. In the code example below, how long will "d" live on the stack?

- 2/7 (A) Until run() pops off the stack
- 2/7 B Until build() pops off the stack
- 0/7 (c) Until the jvm is restarted
- 3/7 (D) d will live in the heap, not the stack

```
public class StackRef {
   public void run() {
      build();
   }
   public void build() {
      Duck d = new Duck(24);
   }
```

8. In the code example below, how long will "d" live on the stack?

- 0/7 A Until run() pops off the stack
- 0/7 (B) Until build() is added to the top of the stack
- **0/7** (c) Until build() pops off the stack
- **0/7** D Until d is garbage collected

```
public class StackRef {

public void run() {

Duck d = new Duck();

build();

public void build() {

public void b
```

12 public class MovieCharacters {

build();

public void run() {
 Gremlin gizmo = new Gremlin();

public void build() {
 gizmo = new Gremlin();

9. What, if anything, is wrong with this code snippet?

- **0/7** (A) The constructor for Gremlin is missing
- gizmo is "scoped" only to the run method, so it can't be used anywhere else
- 1/7 (c) Nothing is wrong with this code
- 1/7 D The run() method should not have a return type of void
- 4/7 (E) When the build() method runs, gizmo from line 15 will have been garbage collected

10.	Which	of the	following	are true?
10.	VVIIICII	OI LIIC	IUIIUVVIIIE	are true:

- A constructor is the code that runs when somebody says "new" on a class type, like this: Duck d = new Duck();
- 1/7 B A constructor must have the same name as the class and a return type of New
- 5/7 If you do not put a constructor in your class, the compiler creates a default constructor
- 5/7 The default constructor created by the compiler has no arguments.
- 11. You can have more than one constructor in your class as long as the argument lists are different. This means you have overloaded constructors.
- 6/7 A True
- **0/7** B False
- 12. All constructors in an object's inheritance tree must run when you make a new object.
- 3/7 A True
- **4/7** B False
- 13. Type the code that should be entered on line 7 to call the Duck's super constructor.

Anon anon33d849058ec64148

Duck duck = new Duck();

Anon anon517af3962f514c52

super();

Anon anon5e2f1a76783c419b

x super.Animal();

Anon anon88cc646d160c402d

X this();

Anon anona7c4be3e4a014903

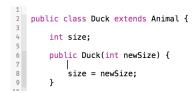
Duck duck = new Duck();

Anon anoncf31c034ab854138

X this();

Anon anond9bcc6a8eb8a4153

super();



14. Type the code that should appear on line 7 to call the Duck's single arg constructor with a parameter of 14.

Anon	anon3	3d849	058e	c64148

x super(size);

Anon anon517af3962f514c52

X super.size(14);

Anon anon88cc646d160c402d

X I don't know.

Anon anona7c4be3e4a014903

 \times Duck duck = new Duck(14);

Anon anoncf31c034ab854138

X this();

Anon anond9bcc6a8eb8a4153

this(14);

- 15. A constructor can have a call to super() OR this(), but NEVER both.
- **2/7** A True
- 5/7 B False
- 16. It is good practice to keep source code and compiled code (class files) separate, but there is no way to do this in Java.
- **3/7** (A) True
- 3/7 B False
 - 17. One key feature of using packages is to prevent class name conflicts.
- **5/7** A True
- 1/7 B False

public class Duck extends Animal {

public Duck(int newSize) {
 size = newSize;

public Duck() {

18. You have a class called Project1 in this directory structure: src/edu/madisoncollege/javaprojects. Write the package statement that should appear at the top of the Project1 class.



× src.edu.madisoncollege.javaprojects

Anon anon517af3962f514c52

X idk

Anon anon5e2f1a76783c419b

✓ package edu.madisoncollege.javaprojects;

Anon anon88cc646d160c402d

X package edu.madisoncollege.javaproducts

Anon anona7c4be3e4a014903

✓ package edu.madisoncollege.javaprojects;

Anon anoncf31c034ab854138

package edu/madisoncollege/javaprojects;

Anon anond9bcc6a8eb8a4153

✓ package edu.madisoncollege.javaprojects;

- 19. My class Book that has a package structure of java111.project5.labs and "lives" in the projects/src/java111/project5/labs directory. What is the proper way to compile Book into its proper package structure in the classes directory (assume projects/classes/java111/project5/labs)?
- 1/7 (A) cd to the labs directory, then type: javac Book.java
- 6/7 B cd to the projects directory, then type: javac -classpath classes -d classes java111/project5/labs/Book.java
- 0/7 C cd to the projects directory, then type: javac java111/project5/labs5/Book.java
- 0/7 D cd to the projects directory, then type: javac -classpath classes -d classes java111.project5.labs.Book.java
- 20. Given, "javac -classpath classes -d classes java111/project5/labs/Book.java", what does the -d parameter do?
- **0/7** (A) Tells the compiler to debug the Book class
- Tells the compiler to build the directories java111, project5, labs in the proper structure if they do not already exist
- 3/7 Tells the compiler to send the compiled classes to classes/java111/project5/labs/
- 0/7 D Tells the compiler run javadoc on the Book class

How can I run my Book class which resides in projects/classes/java111/project5/labs/Book.class cd to the src directory and type: java Book 0/7 cd to the classes directory and type: java Book 0/7 cd to the projects directory and type: java java111.project5.labs.Book 0/7 cd to the projects directory and type: java -classpath classes java111.project5.labs.Book 7/7 cd to the projects directory and type: java -classpath classes Book 0/7 Which of the following are valid javadoc comments? 22. 0/7 // @author aSchmidt //* @author aSchmidt *// 0/7 /** @author aSchmidt */ 5/7 /* @author aSchmidt */ 2/7 23. Javadoc can be created for all classes in my java111.project5 package using what command from my projects directory? javadoc -d docs -sourcepath src java111.project5 2/7 javadoc -d docs -sourcepath src/java111.* 0/7javadoc -d docs -sourcepath src java111/project5 1/7 javadoc -d docs java111.project5.* 4/7 It's not possible, javadoc can only be run for one class at a time 0/7 24. Importing other packages and classes into your class is necessary: 2/7 so that the compiler can find the .class files of all classes referenced in your class. so that the compiler can find the source code files of all classes referenced in your class. 1/7 so that the compiler can put your new .class file in the correct location in your classes directory.

so that the compiler knows where to find the source code of your class