Total Questions: 23



Java 111 Chapter 9, 17 Quiz

Most Correct Answers: **#1**Least Correct Answers: **#20**

- 1. Instance variables are variables declared inside a method or method parameter.
- **0/8** (A) True
- 0/8 B True only in an abstract class
- 7/8 C False
- 2. Which of the following is are true?
- 1/8 (A) If an object reference is declared as a local variable it goes on the heap.
- 6/8 Local variables live on the stack in the frame corresponding to the method where the variables are declared.
- 6/8 C All objects live in the heap regardless of whether the reference is a local or instance variable.
- 6/8 Instance variables are variables declared inside a class but outside any method.
- 3. In the code example below, which is the object reference variable?
- **0/8** (A) Duck()
- **0/8** (B) 24
- 5/8 C d
- 1/8 (D) new Duck()
- 1/8 (E) Duck
- 4. In the code example below, where will the Duck object live?
- 4/8 A Heap
- 3/8 (B) Stack
- **0/8** (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?

- 0/8 (A) Bottom of the heap
- 1/8 (B) Top of the heap
- 1/8 (c) Bottom of the stack
- 5/8 D Top of the stack

6. When is an object eligible for garbage collection?

- 5/8 A When the reference is assigned to another object
- 4/8 B When the reference is set to null
- 0/8 (C) As soon as it is instantiated
- 6/8 D 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?

- 0/8 (A) Until run() pops off the stack
- 4/8 B Until build() pops off the stack
- 0/8 (c) Until the jvm is restarted
- 3/8 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?

- 6/8 A Until run() pops off the stack
- 0/8 (B) Until build() is added to the top of the stack
- 1/8 (c) Until build() pops off the stack
- 0/8 D Until d is garbage collected

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

public void build() {
    public void build() {
        Public void build() {
        Public void build() {
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```

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?

- 1/8 (A) The constructor for Gremlin is missing
- 4/8 B gizmo is "scoped" only to the run method, so it can't be used anywhere else
- 1/8 (c) Nothing is wrong with this code
- 0/8 D The run() method should not have a return type of void
- 1/8 (E) When the build() method runs, gizmo from line 15 will have been garbage collected

			0.1		
1	10.	Which	of the	following	are true?

- A constructor is the code that runs when somebody says "new" on a class type, like this: Duck d = new Duck();
- 4/8 (B) A constructor must have the same name as the class and a return type of New
- 5/8 If you do not put a constructor in your class, the compiler creates a default constructor
- 5/8 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.
- 6/8 A True
- 1/8 B False
- 12. All constructors in an object's inheritance tree must run when you make a new object.
- 6/8 A True
- 1/8 B False
- 13. Type the code that should be entered on line 7 to call the Duck's super constructor.

Anon anon0d3ab5cafce5461e



Anon anon115710b0bcae4daf

× sdfsdfsf

Anon anon1173aa3ac09e4ba2

super();

Anon anon1c7d4d53830549a9

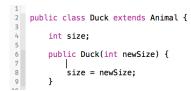
X this();

Anon anon65af3a88f1844bb5

X this();

Anon anona17353ea8e6c481b

super();



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

constructor with a parameter of 14.		
Anon anon0d3ab5cafce5461e	2 3	public class Duck extends Animal {

× return size;

Anon anon115710b0bcae4daf

X size();

Anon anon1173aa3ac09e4ba2

this(14);

Anon anon1c7d4d53830549a9

this(14);

Anon anon65af3a88f1844bb5

 \times this.size = 14;

Anon anona17353ea8e6c481b

this(14);

- 15. A constructor can have a call to super() OR this(), but NEVER both.
- 6/8 A True
- 0/8 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.
- **0/8** (A) True
- 6/8 B False
 - 17. One key feature of using packages is to prevent class name conflicts.
- 6/8 A True
- 0/8 (B) False

public Duck() {

public Duck(int newSize) {
 size = newSize;

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.

Anon anon0d3ab5cafce5461e

🗶 javadoc -d docs -private -sourcepath src java111.project5 java111.project1

Anon anon1173aa3ac09e4ba2

✓ package edu.madisoncollege.javaprojects;

Anon anon1c7d4d53830549a9

X package edu.madisoncollege.javaproject;

Anon anon65af3a88f1844bb5

X package edu.madisoncollege.javaprojects.project1;

Anon anona17353ea8e6c481b

package edu.madisoncollege.javaprojects.Project1;

- 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)?
- **0/8** (A) cd to the labs directory, then type: javac Book.java
- d/8 cd to the projects directory, then type: javac -classpath classes -d classes java111/project5/labs/Book.java
- 0/8 C cd to the projects directory, then type: javac java111/project5/labs5/Book.java
- 1/8 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?
- 0/8 (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
- Tells the compiler to send the compiled classes to classes/java111/project5/labs/
- 0/8 D Tells the compiler run javadoc on the Book class

