

Quiz name: Java 111 Chapter 9, 17 Quiz (from version 1)

Ouestion with Most Correct Answers: #8 Ouestion with Fewest Correct Answers: #23 Date: 12/01/2015

Total Questions: 23

1. Instance variables are variables declared inside a method or method parameter.

2/11

True

0/11

True only in an abstract class

8/11



False

Which of the following are true? 2.

1/11

If an object reference is declared as a local variable it goes on the heap.

8/11

Local variables live on the stack in the frame corresponding to the method where the variables are declared.

7/11 11/11



All objects live in the heap regardless of whether the reference is a local or instance variable.

Instance variables are variables declared inside a class but outside any method.

3. In the code example below, which is the object reference variable?

0/11







0/11



0/11



new Duck()

Duck()

24

d



4. In the code example below, where will the Duck object live?

10/11



Heap

0/11



Stack

1/11



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 the one on the top of the stack.

11/11

True

0/11

False

6. When is an object eligible for garbage collection? 5/11 A When the reference is assigned to another object
6/11 B When the reference is set to null
1/11 C As soon as it is instantiated

When the reference 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?

0/11 (A) Until run() pops off the stack
11/11 (B) Until build() pops off the stack
0/11 (C) Until the jvm is restarted
0/11 (D) d will live in the heap, not the stack

9/11

0/11

0/11

7/11

0/11

3/11

10/11

1/11

11/11

```
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?

Until run() pops off the stackUntil build() is added to the top of the stack

Until build() pops off the stack

0/11 (D) Until d is garbage collected

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

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

(A) The constructor for Gremlin is missing

B gizmo is "scoped" only to the run method, so it can't be used anywhere else

1/11 C Nothing is wrong with this code

 $igl(oldsymbol{\mathbb{D}} igr)$ The run() method should not have a return type of void

When the build() method runs, gizmo from line 15 will have been garbage collected

```
public class MovieCharacters {

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

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

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();

A constructor must have the same name as the class and a return type of New

If you do not put a constructor in your class, the compiler creates a default constructor

11/11 The default constructor created by the compiler has no arguments.

You can have more than one constructor in your class as long as the argument lists are different.

11. This means you have overloaded constructors.

11/11 (A) True 0/11 (B) False 12. All constructors in an object's inheritance tree must run when you make a new object.

6/11 5/11



True

False

13. Type the code that should be entered on line 7 to call the Duck's super constructor.

Anon 1ed62

Super Animal();

Anon df246

super();

Anon 82f1a

this.Duck()

Anon aff61

Animal duck = new Animal();

Anon 1aa67

super();

Anon 8e35d

I can't remember

Anon 9dd1b

super();

Anon 7d38c

super.Animal()

Anon 30d7e

super();

public class Duck extends Animal {
 int size;
 public Duck(int newSize) {
 size = newSize;
 }
}

public class Duck extends Animal {

public Duck(int newSize) {
 size = newSize;
}

int size;
public Duck() {

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

Anon 1ed62

this.Duck(14);

Anon df246

this(14);

Anon 6a0bc

this.Duck(14)

Anon 82f1a

this(14);

Anon aff61

new Duck(007);

Anon 1aa67

this(14);

Anon 8e35d this(): Anon 9dd1b this(24); Anon 7d38c this(14); Anon 30d7e this(); A constructor can have a call to super() OR this(), but NEVER both. 15. 5/11 True 6/11 В False It is good practice to keep source code and compiled code (class files) separate, but there is no way 16. to do this in Java. 0/11 True 11/11 **False** 17. One key feature of using packages is to prevent class name conflicts. 11/11 True 0/11 **False** 18. A class must be put into a directory structure that matches the package hierarchy. 11/11 True 0/11 **False** 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 19. package structure in the classes directory (assume projects/classes/java111/project5/labs)? 1/11 (A)cd to the labs directory, then type: javac Book.java cd to the projects directory, then type: javac -classpath classes -d classes 6/11 java111/project5/labs/Book.java cd to the projects directory, then type: javac java111/project5/labs5/Book.java 0/11 cd to the projects directory, then type: javac -classpath classes -d classes (D)4/11 java111.project5.labs.Book.java

Given, "javac -classpath classes -d classes java111/project5/labs/Book.java", what does the -d parameter do?

20.

0/11 Tells the compiler to debug the Book class Tells the compiler to build the directories java111, project5, labs in the proper structure if they 0/11 do not already exist 0/11 Tells the compiler to send the compiled classes to classes/java111/project5/labs/ 3/11 All of the above 8/11 Answers 2 and 3 are both correct 21. How can I run my Book class which resides in projects/classes/java111/project5/labs/Book.class 0/11 cd to the src directory and type: java Book 0/11 cd to the classes directory and type: java Book 0/11 cd to the projects directory and type: java java111.project5.labs.Book 10/11 cd to the projects directory and type: java -classpath classes java111.project5.labs.Book 1/11 cd to the projects directory and type: java -classpath classes Book Which of the following are valid javadoc comments? 22. 0/11 // @author aSchmidt 0/11 //* @author aSchmidt *// 11/11 /** @author aSchmidt */ 0/11 /* @author aSchmidt */

Javadoc can be created for all classes in my java111.project5 package using what command from my projects directory?

projects directory?
2/11

A javadoc -d docs -sourcepath src java111.project5
1/11

B javadoc -d docs -sourcepath src/java111.*
5/11

C javadoc -d docs -sourcepath src java111/project5

3/11 D javadoc -d docs java111.project5.*

0/11

(E) It's not possible, javadoc can only be run for one class at a time