Total Questions: 23



Java 111 Chapter 9, 17 Quiz

Most Correct Answers: **#11**Least Correct Answers: **#20**

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

- **1/12** (A) True
- 1/12 (B) True only in an abstract class
- 9/12 C False

2. Which of the following is are true?

- **0/12** (A) If an object reference is declared as a local variable it goes on the heap.
- 8/12 B Local variables live on the stack in the frame corresponding to the method where the variables are declared.
- 7/12 All objects live in the heap regardless of whether the reference is a local or instance variable.
- 11/12 Instance variables are variables declared inside a class but outside any method.

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

- **0/12** (A) Duck()
- **0/12** (B) 24
- 11/12 C d
- **0/12** (E) Duck

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

- **10/12** A Heap
- **1/12** (B) Stack
- **0/12** (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?

- **0/12** A Bottom of the heap
- 0/12 B Top of the heap
- **0/12** (C) Bottom of the stack
- 11/12 D Top of the stack

6. When is an object eligible for garbage collection?

- 7/12 A When the reference is assigned to another object
- 7/12 B When the reference is set to null
- 1/12 (C) As soon as it is instantiated
- 11/12 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?

- 2/12 (A) Until run() pops off the stack
- 5/12 B Until build() pops off the stack
- 0/12 (c) Until the jvm is restarted
- 4/12 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?

- 10/12 A Until run() pops off the stack
- 0/12 (B) Until build() is added to the top of the stack
- 1/12 (c) Until build() pops off the stack
- 0/12 D Until d is garbage collected

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

public void build() {
    public void bu
```

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?

- 2/12 (A) The constructor for Gremlin is missing
- 8/12 B gizmo is "scoped" only to the run method, so it can't be used anywhere else
- 0/12 (c) Nothing is wrong with this code
- **0/12** D The run() method should not have a return type of void
- 1/12 (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	aic	u uc:

- A constructor is the code that runs when somebody says "new" on a class type, like this: Duck d = new Duck();
- 2/12 B A constructor must have the same name as the class and a return type of New
- 10/12 If you do not put a constructor in your class, the compiler creates a default constructor
- 10/12 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.
- 12/12
- A True
- 0/12
- B False
- 12. All constructors in an object's inheritance tree must run when you make a new object.
- 6/12
- A
 - True
- 6/12
- B
 - False
- 13. Type the code that should be entered on line 7 to call the Duck's super constructor.

Anon anon01096363e2694f01



Anon anon2fc5d1dcd69f4841

x super.Duck(newSize);

Anon anon4638f6f81edf44da

x super.Animal();

Anon anon4ef611c3ff284c60

Duck newDuck = new super();

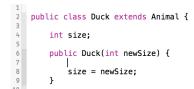
Anon anon597107e212894f2e

super();

Anon anon598590c81dac41dd

x super.Animal();

Anon anon5c063a97a713422d



```
public class UseADuck {
    public static void main(String[] args) {
    Duck duck = new Duck();
    }

Anon anon5c67912b444a4b21

    super.Animal()

Anon anon9f3ef858446e4235

    super();

Anon anond42fa221e38a4cd4

    super();

Anon anonde35b2f741114219

    this();

Anon anone7bb968ca6034f61
```

X this();

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

Anon anon01096363e2694f01

 \times Duck myDuck = new Duck(12);

Anon anon2fc5d1dcd69f4841

this(14);

Anon anon4638f6f81edf44da

this(14);

Anon anon4ef611c3ff284c60

Duck newDuck = new Duck(14);

Anon anon597107e212894f2e

this(14);

Anon anon598590c81dac41dd

X size(14);

Anon anon5c67912b444a4b21

 \times Duck one = new Duck(14);

Anon anon9f3ef858446e4235

X Duck(14);

Anon anond42fa221e38a4cd4

X new Duck(14);

Anon anonde35b2f741114219

Duck bigDuck = Duck(14);

Anon anone7bb968ca6034f61

 \times this.size(14);

15. A constructor can have a call to super() OR this(), but NEVER both.

2/12



True

10/12



False

public class Duck extends Animal {

public Duck(int newSize) {
 size = newSize;

public Duck() {

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.				
0/12 A True				
12/12 B False				
17. One key feature of using packages is to prevent class name conflicts.				
10/12 A True				
2/12 B False				
2/12				
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 anon01096363e2694f01				
X package Project1/javaprojects;				
Anon anon2fc5d1dcd69f4841				
× package java111.Projects.project5				
Anon anon4638f6f81edf44da				
X package src.edu.madisoncollege.javaprojects;				
Anon anon4ef611c3ff284c60				
× edu.madisoncollege.javaprojects				
Anon anon597107e212894f2e				
X package src.edu.madisoncollege.javaprojects;				
Anon anon598590c81dac41dd				
X package madisoncollege.javaprojects;				
Anon anon5c063a97a713422d				
× package com.edu.madisoncollege.javaprojects				
Anon anon5c67912b444a4b21				
✓ package edu.madisoncollege.javaprojects;				
Anon anon9f3ef858446e4235				

X package src.edu.madisoncollege.javaprojects.Project1;

✓ package edu.madisoncollege.javaprojects;

Anon anond42fa221e38a4cd4

Anon anonde35b2f741114219

X	packag	ge edu.madisoncollege.javaprojects
Ano	n anon	ne7bb968ca6034f61
/	packag	ge edu.madisoncollege.javaprojects;
cor	he pro	class Book that has a package structure of java111.project5.labs and "lives" ojects/src/java111/project5/labs directory. What is the proper way to Book into its proper package structure in the classes directory (assume classes/java111/project5/labs)?
0/12	(A)	cd to the labs directory, then type: javac Book.java
8/12	В	cd to the projects directory, then type: javac -classpath classes -d classes java111/project5/labs/Book.java
0/12	C	cd to the projects directory, then type: javac java111/project5/labs5/Book.java
4/12	D	cd to the projects directory, then type: javac -classpath classes -d classes java111.project5.labs.Book.java
20. wh	Give at doe	en, "javac -classpath classes -d classes java111/project5/labs/Book.java", es the -d parameter do?
1/12	A	Tells the compiler to debug the Book class
7/12	В	Tells the compiler to build the directories java111, project5, labs in the proper structure if they do not already exist
5/12	C	Tells the compiler to send the compiled classes to classes/java111/project5/labs/
2/12	D	Tells the compiler run javadoc on the Book class
21. pro		v can l run my Book class which resides in classes/java111/project5/labs/Book.class
0/12	A	cd to the src directory and type: java Book
0/12		cd to the classes directory and type: java Book
2/12		cd to the projects directory and type: java java111.project5.labs.Book
10/1	2	cd to the projects directory and type: java -classpath classes java111.project5.labs.Book
0/12		cd to the projects directory and type: java -classpath classes Book
22.	Whi	ch of the following are valid javadoc comments?
1/12	A	// @author aSchmidt
1/12		//* @author aSchmidt *//
10/1	2	/** @author aSchmidt */
0/12		/* @author aSchmidt */

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

3/12 A javadoc -d docs -sourcepath src java111.project5

1/12 (B) javadoc -d docs -sourcepath src/java111.*

5/12 (C) javadoc -d docs -sourcepath src java111/project5

3/12 D javadoc -d docs java111.project5.*

0/12 (E) It's not possible, javadoc can only be run for one class at a time