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Question Bank

Chapter 7 : Garbage Collections



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7. Garbage Collections

Q: 01 Given:

```
1. public class GC {  
2. private Object o;  
3. private void doSomethingElse(Object obj) { o = obj; }  
4. public void doSomething() {  
5. Object o = new Object();  
6. doSomethingElse(o);  
7. o = new Object();  
8. doSomethingElse(null);  
9. o = null;  
10. }  
11. }
```

When the doSomething method is called, after which line does the Object created in line 5 become available for garbage collection?

- A. Line 5
- B. Line 6
- C. Line 7
- D. Line 8
- E. Line 9
- F. Line 10

Answer: D

Q: 02 Given:

```
11. public void genNumbers() {  
12. ArrayList numbers = new ArrayList();  
13. for (int i=0; i<10; i++) {  
14. int value = i * ((int) Math.random());  
15. Integer intObj = new Integer(value);  
16. numbers.add(intObj);  
17. }  
18. System.out.println(numbers);  
19. }
```

Which line of code marks the earliest point that an object referenced by intObj becomes a candidate for garbage collection?

- A. Line 16
- B. Line 17
- C. Line 18
- D. Line 19
- E. The object is NOT a candidate for garbage collection.

Answer: D

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Q: 03 Given:

```
11. rbo = new ReallyBigObject();  
12. // more code here  
13. rbo = null;  
14. /* insert code here */
```

Which statement should be placed at line 14 to suggest that the virtual machine expend effort toward recycling the memory used by the object rbo?

- A. System.gc();
- B. Runtime.gc();
- C. System.freeMemory();
- D. Runtime.getRuntime().growHeap();
- E. Runtime.getRuntime().freeMemory();

Answer: A

Q: 04 Given:

```
11. class Snoochy {  
12.     Boochy booch;  
13.     public Snoochy() { booch = new Boochy(this); }  
14. }  
15.
```

```
16. class Boochy {  
17.     Snoochy snooch;  
18.     public Boochy(Snoochy s) { snooch = s; }  
19. }
```

And the statements:

```
21. public static void main(String[] args) {  
22.     Snoochy snoog = new Snoochy();  
23.     snoog = null;  
24.     // more code here  
25. }
```

Which statement is true about the objects referenced by snoog, snooch, and booch immediately after line 23 executes?

- A. None of these objects are eligible for garbage collection.
- B. Only the object referenced by booch is eligible for garbage collection.
- C. Only the object referenced by snoog is eligible for garbage collection.
- D. Only the object referenced by snooch is eligible for garbage collection.
- E. The objects referenced by snooch and booch are eligible for garbage collection.

Answer: E

Question: 05

Which two are true? (Choose two.)

- A. A finalizer may NOT be invoked explicitly.
- B. The finalize method declared in class Object takes no action.
- C. super.finalize() is called implicitly by any overriding finalize method.
- D. The finalize method for a given object will be called no more than once by the garbage collector.
- E. The order in which finalize will be called on two objects is based on

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the order in which the two objects became finalizable.

Answer: BD

Question: 06

Which statement is true?

- A. A class's finalize() method CANNOT be invoked explicitly.
- B. super.finalize() is called implicitly by any overriding finalize() method.
- C. The finalize() method for a given object is called no more than once by the garbage collector.
- D. The order in which finalize() is called on two objects is based on the order in which the two objects became finalizable.

Answer: C

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Question: 07

Given:

```
3. interface Animal { void makeNoise(); }
4. class Horse implements Animal {
5.     Long weight = 1200L;
6.     public void makeNoise() { System.out.println("whinny"); }
7. }
8. public class Icelandic extends Horse {
9.     public void makeNoise() { System.out.println("vinny"); }
10.    public static void main(String[] args) {
11.        Icelandic i1 = new Icelandic();
12.        Icelandic i2 = new Icelandic();
12.        Icelandic i3 = new Icelandic();
13.        i3 = i1; i1 = i2; i2 = null; i3 = i1;
14.    }
15. }
```

When line 14 is reached, how many objects are eligible for the garbage collector?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4
- F. 6

Answer: E

Question: 07

Given:

```
5. public class Tahiti {
```

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```
6. Tahiti t;  
7. public static void main(String[] args) {  
8. Tahiti t = new Tahiti();  
9. Tahiti t2 = t.go(t);  
10. t2 = null;  
11. // more code here  
12. }  
13. Tahiti go(Tahiti t) {  
14. Tahiti t1 = new Tahiti(); Tahiti t2 = new Tahiti();  
15. t1.t = t2; t2.t = t1; t.t = t2;  
16. return t1;  
17. }  
18. }
```

When line 11 is reached, how many objects are eligible for garbage collection?

- A. 0
- B. 1
- C. 2
- D. 3
- E. Compilation fails.

Answer: A

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