



Oracle

1Z0-851 Exam

Java Standard Edition 6 Programmer Certified Professional Exam

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**DEMO
VERSION** (LIMITED CONTENT)

**Questions
& Answers**

Question: 1

Given a pre-generics implementation of a method:

```
11. public static int sum(List list) {  
12.     int sum = 0;  
13.     for ( Iterator iter = list.iterator(); iter.hasNext(); ) {  
14.         int i = ((Integer)iter.next()).intValue();  
15.         sum += i;  
16.     }  
17.     return sum;  
18. }
```

What three changes allow the class to be used with generics and avoid an unchecked warning?
(Choose three.)

- A. Remove line 14.
- B. Replace line 14 with "int i = iter.next();".
- C. Replace line 13 with "for (int i : intList) {}".
- D. Replace line 13 with "for (Iterator iter : intList) {}".
- E. Replace the method declaration with "sum(List<int> intList)".
- F. Replace the method declaration with "sum(List<Integer> intList)".

Answer: A,C,F

Question: 2

A programmer has an algorithm that requires a java.util.List that provides an efficient implementation of add(0, object), but does NOT need to support quick random access. What supports these requirements?

- A. java.util.Queue
- B. java.util.ArrayList
- C. java.util.LinkedList
- D. java.util.LinearList

Answer: D

Question: 3

Given:

```
11. // insert code here  
12. private N min, max;  
13. public N getMin() { return min; }  
14. public N getMax() { return max; }
```

```
15. public void add(N added) {  
16. if (min == null || added.doubleValue() < min.doubleValue())  
17. min = added;  
18. if (max == null || added.doubleValue() > max.doubleValue())  
19. max = added;  
20. }  
21. }
```

Which two, inserted at line 11, will allow the code to compile? (Choose two.)

- A. public class MinMax<?> {
- B. public class MinMax<? extends Number> {
- C. public class MinMax<N extends Object> {
- D. public class MinMax<N extends Number> {
- E. public class MinMax<? extends Object> {
- F. public class MinMax<N extends Integer> {

Answer: D,F

Question: 4

Given:

```
12. import java.util.*;  
13. public class Explorer2 {  
14. public static void main(String[] args) {  
15. TreeSet<Integer> s = new TreeSet<Integer>();  
16. TreeSet<Integer> subs = new TreeSet<Integer>();  
17. for(int i = 606; i < 613; i++)  
18. if(i%2 == 0) s.add(i);  
19. subs = (TreeSet)s.subSet(608, true, 611, true);  
20. s.add(629);  
21. System.out.println(s + " " + subs);  
22. }  
23. }
```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. [608, 610, 612, 629] [608, 610]
- D. [608, 610, 612, 629] [608, 610, 629]
- E. [606, 608, 610, 612, 629] [608, 610]
- F. [606, 608, 610, 612, 629] [608, 610, 629]

Answer: E

Question: 5

Given:

```

1. public class Score implements Comparable<Score> {
2. private int wins, losses;
3. public Score(int w, int l) { wins = w; losses = l; }
4. public int getWins() { return wins; }
5. public int getLosses() { return losses; }
6. public String toString() {
7. return "<" + wins + "," + losses + ">";
8. }
9. // insert code here
10. }

```

Which method will complete this class?

- A. public int compareTo(Object o){/*more code here*/}
- B. public int compareTo(Score other){/*more code here*/}
- C. public int compare(Score s1,Score s2){/*more code here*/}
- D. public int compare(Object o1, Object o2){/*more code here*/}

Answer: B

Question: 6

Given:

```

11. public class Person {
12. private name;
13. public Person(String name) {
14. this.name = name;
15. }
16. public int hashCode() {
17. return 420;
18. }
19. }

```

Which statement is true?

- A. The time to find the value from HashMap with a Person key depends on the size of the map.
- B. Deleting a Person key from a HashMap will delete all map entries for all keys of type Person.
- C. Inserting a second Person object into a HashSet will cause the first Person object to be removed as a duplicate.
- D. The time to determine whether a Person object is contained in a HashSet is constant and does NOT depend on the size of the map.

Answer: A

Question: 7

Given:

```

5. import java
a.util.*;

```

```
6. public class SortOf {  
7. public static void main(String[] args) {  
8. ArrayList<Integer> a = new ArrayList<Integer>();  
9. a.add(1); a.add(5); a.add(3);  
11. Collections.sort(a);  
12. a.add(2);  
13. Collections.reverse(a);  
14. System.out.println(a);  
15. }  
16. }
```

What is the result?

- A. [1, 2, 3, 5]
- B. [2, 1, 3, 5]
- C. [2, 5, 3, 1]
- D. [5, 3, 2, 1]
- E. [1, 3, 5, 2]
- F. Compilation fails.
- G. An exception is thrown at runtime.

Answer: C

Question: 8

Given

```
11. public interface Status {  
12. /* insert code here */ int MY_VALUE = 10;  
13. } Which three are valid on line  
12?  
(Choose three.)
```

- A. final
- B. static
- C. native
- D. public
- E. private
- F. abstract
- G. protected

Answer: A,B,D

Question: 9

Given:

```
5. class Atom {  
6. Atom() { System.out.print("atom "); }  
7. }  
8. class Rock extends Atom {
```

```
9. Rock(String type) { System.out.print(type); }
10. }
11. public class Mountain extends Rock {
12. Mountain() {
13. super("granite ");
14. new Rock("granite ");
15. }
16. public static void main(String[] a) { new Mountain(); }
17. }
```

What is the result?

- A. Compilation fails.
- B. atom granite
- C. granite granite
- D. atom granite granite
- E. An exception is thrown at runtime.
- F. atom granite atom granite

Answer: F

Question: 10

Click the Exhibit button.

Exhibit

```
10. interface Foo {
11.     int bar();
12. }
13.
14. public class Beta {
15.
16.     class A implements Foo {
17.         public int bar() { return 1; }
18.     }
19.
20.     public int fubar( Foo foo ) { return foo.bar(); }
21.
22.     public void testFoo() {
23.
24.         class A implements Foo {
25.             public int bar() { return 2; }
26.         }
27.
28.         System.out.println( fubar( new A() ) );
29.     }
30.
31.     public static void main( String[] args ) {
32.         new Beta().testFoo();
33.     }
34. }
```

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Which three statements are true? (Choose three.)

- A. Compilation fails.
- B. The code compiles and the output is 2.
- C. If lines 16, 17 and 18 were removed, compilation would fail.
- D. If lines 24, 25 and 26 were removed, compilation would fail.
- E. If lines 16, 17 and 18 were removed, the code would compile and the output would be 2.
- F. If lines 24, 25 and 26 were removed, the code would compile and the output would be 1.

Answer: B,E,F

Question: 11

Given:

```
10. class Line {
11.     public class Point { public int x,y; }
12.     public Point getPoint() { return new Point(); }
13. }
14. class Triangle {
15.     public Triangle() {
16. // insert code here
```

17.
18.

Which code, inserted at line 16, correctly retrieves a local instance of a Point object?

- A. Point p = Line.getPoint();
- B. Line.Point p = Line.getPoint();
- C. Point p = (new Line()).getPoint();
- D. Line.Point p = (new Line()).getPoint();

Answer: D

Question: 12

Given:

```
11. class Alpha {  
12.     public void foo() { System.out.print("Afoo "); }  
13. }  
14. public class Beta extends Alpha {  
15.     public void foo() { System.out.print("Bfoo "); }  
16.     public static void main(String[] args) {  
17.         Alpha a = new Beta();  
18.         Beta b = (Beta)a;  
19.         a.foo();  
20.         b.foo();  
21.     }  
22. }
```

What is the result?

- A. Afoo Afoo
- B. Afoo Bfoo
- C. Bfoo Afoo
- D. Bfoo Bfoo
- E. Compilation fails.
- F. An exception is thrown at runtime.

Answer: D

Question: 13

Click the Exhibit button.

Exhibit

```
1. public interface A {  
2.     public void doSomething(String thing);  
3. }  
  
1. public class AImpl implements A {  
2.     public void doSomething(String msg) {}  
3. }  
  
1. public class B {  
2.     public A doit() {  
3.         // more code here  
4.     }  
5.  
6.     public String execute() {  
7.         // more code here  
8.     }  
9. }  
  
1. public class C extends B {  
2.     public AImpl doit() {  
3.         // more code here  
4.     }  
5.  
6.     public Object execute() {  
7.         // more code here  
8.     }  
9. }
```

Close **Title** **Comment** **Help**

Which statement is true about the classes and interfaces in the exhibit?

- A. Compilation will succeed for all classes and interfaces.
- B. Compilation of class C will fail because of an error in line 2.
- C. Compilation of class C will fail because of an error in line 6.
- D. Compilation of class AImpl will fail because of an error in line 2.

Answer: C

Question: 14

Which two code fragments correctly create and initialize a static array of int elements? (Choose two.)

- A. static final int[] a = { 100,200 };
- B. static final int[] a;
static { a=new int[2]; a[0]=100; a[1]=200; }
- C. static final int[] a = new int[2]{ 100,200 };
- D. static final int[] a;
static void init() { a = new int[3]; a[0]=100; a[1]=200; }

Answer: A,B

Question: 15

Given:

```
10. interface Foo { int bar(); }
11. public class Sprite {
12.     public int fubar( Foo foo ) { return foo.bar(); }
13.     public void testFoo() {
14.         fubar(
15.             // insert code here
16.         );
17.     }
18. }
```

Which code, inserted at line 15, allows the class Sprite to compile?

- A. Foo { public int bar() { return 1; } }
- B. new Foo { public int bar() { return 1; } }
- C. new Foo() { public int bar() { return 1; } }
- D. new class Foo { public int bar() { return 1; } }

Answer: C

Question: 16

Given:

```
1. class Alligator {
2.     public static void main(String[] args) {
3.         int [][]x[] = {{1,2}, {3,4,5}, {6,7,8,9}};
4.         int [][]y = x;
5.         System.out.println(y[2][1]);
6.     }
7. }
```

What is the result?

- A. 2
- B. 3
- C. 4
- D. 6
- E. 7
- F. Compilation fails.

Answer: E

Question: 17

Given:

```
22. StringBuilder sb1 = new StringBuilder("123");
```

```
23. String s1 = "123";
24. // insert code here
25. System.out.println(sb1 + " " + s1);
```

Which code fragment, inserted at line 24, outputs "123abc 123abc"?

- A. sb1.append("abc"); s1.append("abc");
- B. sb1.append("abc"); s1.concat("abc");
- C. sb1.concat("abc"); s1.append("abc");
- D. sb1.concat("abc"); s1.concat("abc");
- E. sb1.append("abc"); s1 = s1.concat("abc");
- F. sb1.concat("abc"); s1 = s1.concat("abc");
- G. sb1.append("abc"); s1 = s1 + s1.concat("abc");
- H. sb1.concat("abc"); s1 = s1 + s1.concat("abc");

Answer: E

Question: 18

Given that the current directory is empty, and that the user has read and write permissions, and the following:

```
11. import java.io.*;
12. public class DOS {
13. public static void main(String[] args) {
14. File dir = new File("dir");
15. dir.mkdir();
16. File f1 = new File(dir, "f1.txt");
17. try {
18. f1.createNewFile();
19. } catch (IOException e) { ; }
20. File newDir = new File("newDir");
21. dir.renameTo(newDir);
22. }
23. }
```

Which statement is true?

- A. Compilation fails.
- B. The file system has a new empty directory named dir.
- C. The file system has a new empty directory named newDir.
- D. The file system has a directory named dir, containing a file f1.txt.
- E. The file system has a directory named newDir, containing a file f1.txt.

Answer: E

Question: 19

Given:

```
11. class Converter {
```

```
12. public static void main(String[] args) {  
13.     Integer i = args[0];  
14.     int j = 12;  
15.     System.out.println("It is " + (j==i) + " that j==i.");  
16. }  
17. }
```

What is the result when the programmer attempts to compile the code and run it with the command
java Converter 12?

- A. It is true that $j==i$.
- B. It is false that $j==i$.
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 13.

Answer: D

Question: 20

Given:

```
11. String test = "Test A. Test B. Test C.";  
12. // insert code here  
13. String[] result = test.split(regex);
```

Which regular expression, inserted at line 12, correctly splits test into "Test A", "Test B", and "Test C"?

- A. String regex = "";
- B. String regex = " ";
- C. String regex = ".*";
- D. String regex = "\\s";
- E. String regex = "\\.\\\s*";
- F. String regex = "\\w[\.]+";

Answer: E

Question: 21

Given:

```
5. import java.util.Date;  
6. import java.text.DateFormat;  
21. DateFormat df;  
22. Date date = new Date();  
23. // insert code here  
24. String s = df.format(date);
```

Which code fragment, inserted at line 23, allows the code to compile?

- A. df = new DateFormat();
- B. df = Date.getFormat();
- C. df = date.getFormat();

- D. df = DateFormat.getFormat();
E. df = DateFormat.getInstance();

Answer: E

Question: 22

Given a class Repetition:

1. package utils;
- 2.
3. public class Repetition {
4. public static String twice(String s) { return s + s; }
5. } and given another class Demo: 1. // insert code here
- 2.
3. public class Demo {
4. public static void main(String[] args) {
5. System.out.println(twice("pizza"));
6. }
7. }

Which code should be inserted at line 1 of Demo.java to compile and run Demo to print "pizzapizza"?

- A. import utils.*;
- B. static import utils.*;
- C. import utils.Repetition.*;
- D. static import utils.Repetition.*;
- E. import utils.Repetition.twice();
- F. import static utils.Repetition.twice;
- G. static import utils.Repetition.twice;

Answer: F

Question: 23

A UNIX user named Bob wants to replace his chess program with a new one, but he is not sure where the old one is installed. Bob is currently able to run a Java chess program starting from his home directory /home/bob using the command: java -classpath /test:/home/bob/downloads/*.jar games.Chess Bob's CLASSPATH is set (at login time) to:

/usr/lib:/home/bob/classes:/opt/java/lib:/opt/java/lib/*.jar What is a possible location for the Chess.class file?

- A. /test/Chess.class
- B. /home/bob/Chess.class
- C. /test/games/Chess.class
- D. /usr/lib/games/Chess.class
- E. /home/bob/games/Chess.class
- F. inside jarfile /opt/java/lib/Games.jar (with a correct manifest)
- G. inside jarfile /home/bob/downloads/Games.jar (with a correct manifest)

Answer: C

Question: 24

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();
13.        Icelandic i3 = new Icelandic();
14.        i3 = i1; i1 = i2; i2 = null; i3 = i1;
15.    }
16. }
```

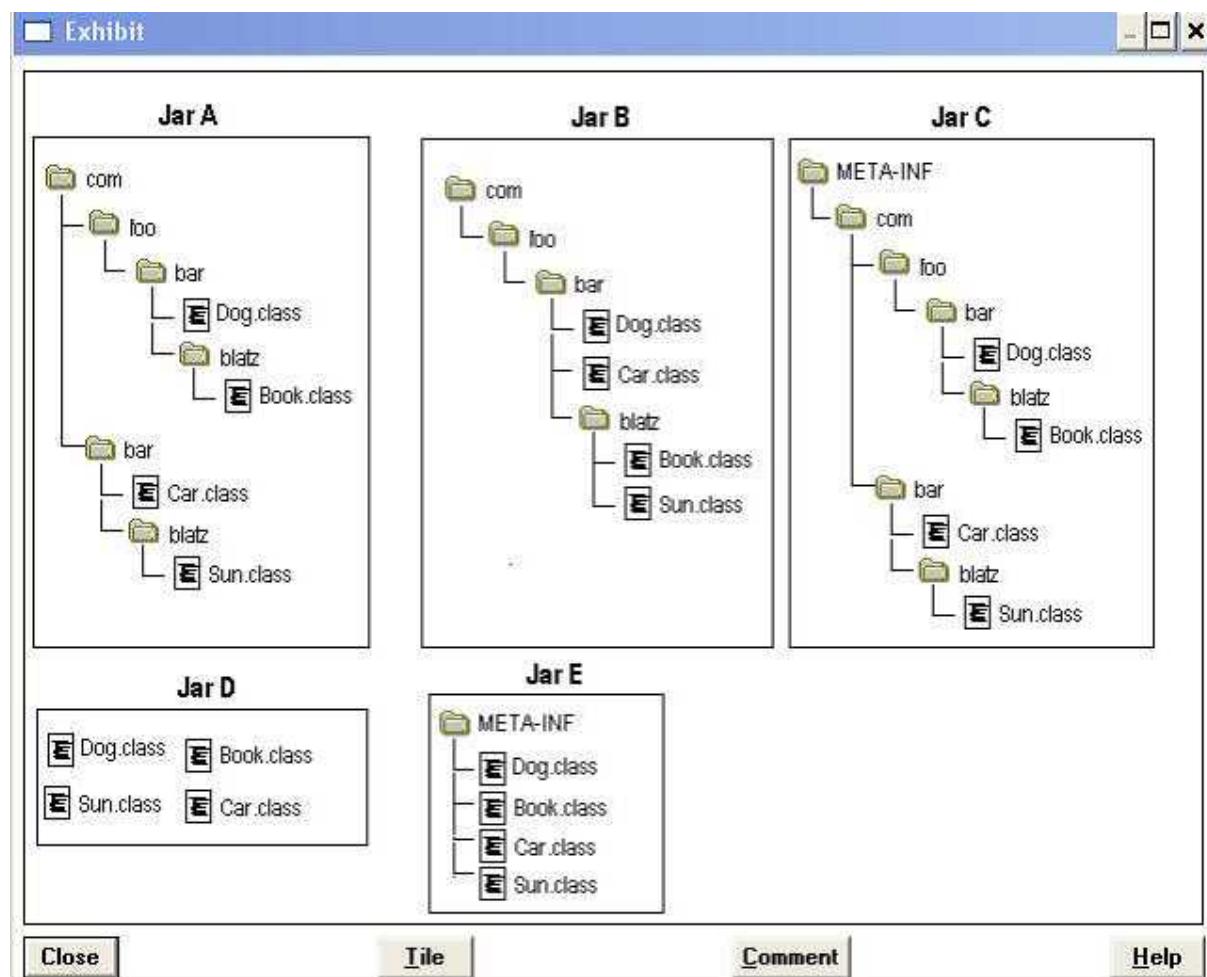
When line 15 is reached, how many objects are eligible for the garbage collector?

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

Answer: E

Question: 25

Click the Exhibit button.



Given the fully-qualified class names: com.foo.bar.Dog
 com.foo.bar.blatz.Book com.bar.Car com.bar.blatz.Sun Which graph represents the correct directory structure for a JAR file from which those classes can be used by the compiler and JVM?

- A. Jar A
- B. Jar B
- C. Jar C
- D. Jar D
- E. Jar E

Answer: A

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