

```

};

B. new Thread() {
public void start() { doStuff(); }
};

C. new Thread() {
public void start() { doStuff(); }
}.run();

D. new Thread() {
public void run() { doStuff(); }
}.start();

E. new Thread(new Runnable() {
public void run() { doStuff(); }
}).run();

F. new Thread(new Runnable() {
public void run() { doStuff(); }
}).start();

```

Answer: D,F

QUESTION: 158

Given:

```

11. public class Person {
12. private String name;
13. public Person(String name) {
14. this.name = name;
15. }
16. public boolean equals(Object o) {
17. if ( ! ( o instanceof Person ) ) return false;
18. Person p = (Person) o;
19. return p.name.equals(this.name);
20. }
21. }

```

Which statement is true?

- A. Compilation fails because the hashCode method is not overridden.
- B. A HashSet could contain multiple Person objects with the same name.
- C. All Person objects will have the same hash code because the hashCode method is not overridden.
- D. If a HashSet contains more than one Person object with name="Fred", then removing another Person, also with name="Fred", will remove them all.

Answer: B

QUESTION: 159

Given:

```

5. import java.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: 160**

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: 161

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: 162

Given:

```

1. public class Drink implements Comparable {
2.     public String name;
3.     public int compareTo(Object o) {
4.         return 0;
5.     }
6. }
```

and:

```

20. Drink one = new Drink();
21. Drink two = new Drink();
```

```

22. one.name= "Coffee";
23. two.name= "Tea";
24. TreeSet set = new TreeSet();
25. set.add(one);
26. set.add(two);

```

A programmer iterates over the TreeSet and prints the name of each Drink object.
What is the result?

- A. Tea
- B. Coffee
- C. Coffee
Tea
- D. Compilation fails.
- E. The code runs with no output.
- F. An exception is thrown at runtime.

Answer: B

QUESTION: 163

A programmer must create a generic class MinMax and the type parameter of MinMax must implement Comparable. Which implementation of MinMax will compile?

- A. class MinMax<E extends Comparable<E>> {
 E min = null;
 E max = null;
 public MinMax() {}
 public void put(E value) { /* store min or max */ }
- B. class MinMax<E implements Comparable<E>> {
 E min = null;
 E max = null;
 public MinMax() {}
 public void put(E value) { /* store min or max */ }
- C. class MinMax<E extends Comparable<E>> {
 <E> E min = null;
 <E> E max = null;
 public MinMax() {}
 public <E> void put(E value) { /* store min or max */ }
- D. class MinMax<E implements Comparable<E>> {
 <E> E min = null;
 <E> E max = null;
 public MinMax() {}
 public <E> void put(E value) { /* store min or max */ }

Answer: A

QUESTION: 164

Given:

```

1. import java.util.*;
2. public class Example {
3.     public static void main(String[] args) {
4.         // insert code here
5.         set.add(new Integer(2));
6.         set.add(new Integer(1));
7.         System.out.println(set);
8.     }
9. }
```

Which code, inserted at line 4, guarantees that this program will output [1, 2]?

- A. Set set = new TreeSet();
- B. Set set = new HashSet();
- C. Set set = new SortedSet();
- D. List set = new SortedList();
- E. Set set = new LinkedHashSet();

Answer: A

QUESTION: 165

Given:

```

5. class A {
6.     void foo() throws Exception { throw new Exception(); }
7. }
8. class SubB2 extends A {
9.     void foo() { System.out.println("B "); }
10. }
11. class Tester {
12.     public static void main(String[] args) {
13.         A a = new SubB2();
14.         a.foo();
15.     }
16. }
```

What is the result?

- A. B
- B. B, followed by an Exception.
- C. Compilation fails due to an error on line 9.

- D. Compilation fails due to an error on line 14.
- E. An Exception is thrown with no other output.

Answer: D

QUESTION: 166

Given:

```

84. try {
85.     ResourceConnection con = resourceFactory.getConnection();
86.     Results r = con.query("GET INFO FROM CUSTOMER");
87.     info = r.getData(); 88.     con.close();
89. } catch (ResourceException re) {
90.     errorLog.write(re.getMessage());
91. }
92. return info;

```

Which statement is true if a ResourceException is thrown on line 86?

- A. Line 92 will not execute.
- B. The connection will not be retrieved in line 85.
- C. The resource connection will not be closed on line 88.
- D. The enclosing method will throw an exception to its caller.

Answer: C

QUESTION: 167

Given:

```

3. public class Breaker {
4.     static String o = "";
5.     public static void main(String[] args) {
6.         z:
7.         o = o + 2;
8.         for(int x = 3; x < 8; x++) {
9.             if(x==4) break;
10.            if(x==6) break z;
11.            o = o + x;
12.        }
13.        System.out.println(o);
14.    }
15. }

```

What is the result?

- A. 23
- B. 234

- C. 235
- D. 2345
- E. 2357
- F. 23457
- G. Compilation fails.

Answer: G

QUESTION: 168

Given:

```

11. public void go(int x) {
12.     assert (x > 0);
13.     switch(x) {
14.         case 2: ;
15.         default: assert false;
16.     }
17.
18. private void go2(int x) { assert (x < 0); }
```

Which statement is true?

- A. All of the assert statements are used appropriately.
- B. Only the assert statement on line 12 is used appropriately.
- C. Only the assert statement on line 15 is used appropriately.
- D. Only the assert statement on line 18 is used appropriately.
- E. Only the assert statements on lines 12 and 15 are used appropriately.
- F. Only the assert statements on lines 12 and 18 are used appropriately.
- G. Only the assert statements on lines 15 and 18 are used appropriately.

Answer: G

QUESTION: 169

Given:

```

11. public static void main(String[] args) {
12.     try {
13.         args = null;
14.         args[0] = "test";
15.         System.out.println(args[0]);
16.     } catch (Exception ex) {
17.         System.out.println("Exception");
18.     } catch (NullPointerException npe) {
19.         System.out.println("NullPointerException");
20.     }
21. }
```

What is the result?

- A. test
- B. Exception
- C. Compilation fails.
- D. NullPointerException

Answer: C

QUESTION: 170

Given:

```
11. public static void main(String[] args) {
12.     for (int i = 0; i <= 10; i++) {
13.         if (i > 6) break;
14.     }
15.     System.out.println(i);
16. }
```

What is the result?

- A. 6
- B. 7
- C. 10
- D. 11
- E. Compilation fails.
- F. An exception is thrown at runtime.

Answer: E

QUESTION: 171

Given:

```
11. class X { public void foo() { System.out.print("X "); } }
12.
13. public class SubB extends X {
14.     public void foo() throws RuntimeException {
15.         super.foo();
16.         if (true) throw new RuntimeException();
17.         System.out.print("B ");
18.     }
19.     public static void main(String[] args) {
20.         new SubB().foo();
21.     }
22. }
```

What is the result?

- A. X, followed by an Exception.
- B. No output, and an Exception is thrown.
- C. Compilation fails due to an error on line 14.
- D. Compilation fails due to an error on line 16.
- E. Compilation fails due to an error on line 17.
- F. X, followed by an Exception, followed by B.

Answer: A

QUESTION: 172

Given:

```

11. public void testIfA() {
12. if (testIfB("True")) {
13. System.out.println("True");
14. } else {
15. System.out.println("Not true");
16. }
17. }
18. public Boolean testIfB(String str) {
19. return Boolean.valueOf(str);
20. }
```

What is the result when method testIfA is invoked?

- A. True
- B. Not true
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error at line 12.
- E. Compilation fails because of an error at line 19.

Answer: A

QUESTION: 173

Which can appropriately be thrown by a programmer using Java SE technology to create a desktop application?

- A. ClassCastException
- B. NullPointerException
- C. NoClassDefFoundError
- D. NumberFormatException
- E. ArrayIndexOutOfBoundsException

Answer: D**QUESTION:** 174

Which two code fragments are most likely to cause a StackOverflowError? (Choose two.)

- A. int []x = {1,2,3,4,5};
for(int y = 0; y < 6; y++)
System.out.println(x[y]);
- B. static int[] x = {7,6,5,4};
static { x[1] = 8;
x[4] = 3; }
- C. for(int y = 10; y < 10; y++)
doStuff(y);
- D. void doOne(int x) { doTwo(x); }
void doTwo(int y) { doThree(y); }
void doThree(int z) { doTwo(z); }
- E. for(int x = 0; x < 1000000000; x++)
doStuff(x);
- F. void counter(int i) { counter(++i); }

Answer: D,F**QUESTION:** 175

Given:

```

11. public static void main(String[] args) {
12. Integer i = new Integer(1) + new Integer(2);
13. switch(i) {
14. case 3: System.out.println("three"); break;
15. default: System.out.println("other"); break;
16. }
17. }
```

What is the result?

- A. three
- B. other
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error on line 12.
- E. Compilation fails because of an error on line 13.
- F. Compilation fails because of an error on line 15.

Answer: A**QUESTION:** 176

Given:

```

5. public class Tahiti {
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

QUESTION: 177

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: 178

Given:

```

11. public class Commander {
12.     public static void main(String[] args) {
13.         String myProp = /* insert code here */
14.         System.out.println(myProp);
15.     }
16. }
```

and the command line: java -Dprop.custom=gobstopper Commander Which two, placed on line 13, will produce the output gobstopper? (Choose two.)

- A. System.load("prop.custom");
- B. System.getenv("prop.custom");
- C. System.property("prop.custom");
- D. System.getProperty("prop.custom");
- E. System.getProperties().getProperty("prop.custom");

Answer: D,E

QUESTION: 179

Given:

```

11. public class ItemTest {
12.     private final int id;
13.     public ItemTest(int id) { this.id = id; }
14.     public void updateId(int newId) { id = newId; }
15.
16.     public static void main(String[] args) {
17.         ItemTest fa = new ItemTest(42);
18.         fa.updateId(69);
19.         System.out.println(fa.id);
20.     }
21. }
```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. The attribute id in the ItemTest object remains unchanged.

- D. The attribute id in the ItemTest object is modified to the new value.
- E. A new ItemTest object is created with the preferred value in the id attribute.

Answer: A

QUESTION: 180

A developer is creating a class Book, that needs to access class Paper. The Paper class is deployed in a JAR named myLib.jar. Which three, taken independently, will allow the developer to use the Paper class while compiling the Book class? (Choose three.)

- A. The JAR file is located at \$JAVA_HOME/jre/classes/myLib.jar.
- B. The JAR file is located at \$JAVA_HOME/jre/lib/ext/myLib.jar..
- C. The JAR file is located at /foo/myLib.jar and a classpath environment variable is set that includes /foo/myLib.jar/Paper.class.
- D. The JAR file is located at /foo/myLib.jar and a classpath environment variable is set that includes /foo/myLib.jar.
- E. The JAR file is located at /foo/myLib.jar and the Book class is compiled using javac -cp /foo/myLib.jar/Paper Book.java.
- F. The JAR file is located at /foo/myLib.jar and the Book class is compiled using javac -d /foo/myLib.jar Book.java
- G. The JAR file is located at /foo/myLib.jar and the Book class is compiled using javac -classpath /foo/myLib.jar Book.java

Answer: B,D,G

QUESTION: 181

Given:

```

15. public class Yippee {
16.     public static void main(String [] args) {
17.         for(int x = 1; x < args.length; x++) {
18.             System.out.print(args[x] + " ");
19.         }
20.     }
21. }
```

and two separate command line invocations: java Yippee java Yippee 1 2 3 4 What is the result?

- A. No output is produced. 1 2 3
- B. No output is produced. 2 3 4
- C. No output is produced. 1 2 3 4
- D. An exception is thrown at runtime. 1 2 3
- E. An exception is thrown at runtime. 2 3 4
- F. An exception is thrown at runtime. 1 2 3 4

Answer: B

QUESTION: 182

Click the Exhibit button.

What is the output of the program shown in the exhibit?

```

10. class Foo {
11.     private int x;
12.     public Foo( int x ) { this.x = x; }
13.     public void setX( int x ) { this.x = x; }
14.     public int getX() { return x; }
15. }
16.
17. public class Gamma {
18.
19.     static Foo fooBar( Foo foo ) {
20.         foo = new Foo( 100 );
21.         return foo;
22.     }
23.
24.     public static void main( String[] args )
25. {
26.     Foo foo = new Foo( 300 );
27.     System.out.print( foo.getX() + "-" );
28.
29.     Foo fooFoo = fooBar( foo );
30.     System.out.print( foo.getX() + "-" );
31.     System.out.print( fooFoo.getX() + "-" );
32.
33.     foo = fooBar( fooFoo );
34.     System.out.print( foo.getX() + "-" );
35.     System.out.print( fooFoo.getX() );
36. }
```

- A. 300-100-100-100-100
- B. 300-300-100-100-100
- C. 300-300-300-100-100
- D. 300-300-300-300-100

Answer: B

QUESTION: 183

Given classes defined in two different files:

1. package packageA;
2. public class Message {
3. String getText() { return "text"; }
4. }

And:

1. package packageB;
2. public class XMLMessage extends packageA.Message {
3. String getText() { return "<msg>text</msg>"; }
4. public static void main(String[] args) {
5. System.out.println(new XMLMessage().getText());

6. }

7. }

What is the result of executing XMLMessage.main?

- A. text
- B. Compilation fails.
- C. <msg>text</msg>
- D. An exception is thrown at runtime.

Answer: B

QUESTION: 184

Given:

```

3. interface Fish { }
4. class Perch implements Fish { }
5. class Walleye extends Perch { }
6. class Bluegill { }
7. public class Fisherman {
8. public static void main(String[] args) {
9. Fish f = new Walleye();
10. Walleye w = new Walleye();
11. Bluegill b = new Bluegill();
12. if(f instanceof Perch) System.out.print("f-p ");
13. if(w instanceof Fish) System.out.print("w-f ");
14. if(b instanceof Fish) System.out.print("b-f ");
15. }
16. }
```

What is the result?

- A. w-f
- B. f-p w-f
- C. w-f b-f
- D. f-p w-f b-f
- E. Compilation fails.
- F. An exception is thrown at runtime.

Answer: B

QUESTION: 185

Given:

```

1. package com.company.application;
2.
3. public class MainClass {
```

4. public static void main(String[] args) {}
 5. }

And MainClass exists in the /apps/com/company/application directory. Assume the CLASSPATH environment variable is set to "." (current directory). Which two java commands entered at the command line will run MainClass? (Choose two.)

- A. java MainClass if run from the /apps directory
- B. java com.company.application.MainClass if run from the /apps directory
- C. java -classpath /apps com.company.application.MainClass if run from any directory
- D. java -classpath . MainClass if run from the /apps/com/company/application directory
- E. java -classpath /apps/com/company/application:.. MainClass if run from the /apps directory
- F. java com.company.application.MainClass if run from the /apps/com/company/application directory

Answer: B,C

QUESTION: 186

Click the Task button.

Drag and Drop

Place code fragments into position so the output is: The quantity is 420

```

  Place here      update(int quantity, int adjust) {
    Place here
  }

  public void callUpdate() {
    int quant = 100;
    Place here
    System.out.println("The quantity is " + quant);
  }

```

Code Fragments

public int	quantity = quantity + adjust;	update(quantity, 320);
public void	quant = update(quantity, 320);	quantity = quantity + adjust; return quantity;

Done

Answer:

Drag and Drop

Place code fragments into position so the output is: The quantity is 420

```

public int update(int quantity, int adjust) {
    quantity = quantity + adjust;
}

public void callUpdate() {
    int quant = 100;
    update(quant, 320);
    System.out.println("The quantity is " + quant);
}

```

Code Fragments

public int	quantity = quantity + adjust;	update(quant, 320);
public void	quant = update(quant, 320);	quantity = quantity + adjust; return quantity.

Done

QUESTION: 187

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

1. import java.io.*;
2. public class Maker {
3. public static void main(String[] args) {
4. File dir = new File("dir");
5. File f = new File(dir, "f");
6. }
7. }

Which statement is true?

- A. Compilation fails.
- B. Nothing is added to the file system.
- C. Only a new file is created on the file system.
- D. Only a new directory is created on the file system.
- E. Both a new file and a new directory are created on the file system.

Answer: B**QUESTION:** 188

Given:

12. NumberFormat nf = NumberFormat.getInstance();
13. nf.setMaximumFractionDigits(4);

14. nf.setMinimumFractionDigits(2);
 15. String a = nf.format(3.1415926);
 16. String b = nf.format(2);

Which two statements are true about the result if the default locale is Locale.US?
 (Choose two.)

- A. The value of b is 2.
- B. The value of a is 3.14.
- C. The value of b is 2.00.
- D. The value of a is 3.141.
- E. The value of a is 3.1415.
- F. The value of a is 3.1416.
- G. The value of b is 2.0000.

Answer: C,F

QUESTION: 189

Which three statements concerning the use of the java.io.Serializable interface are true?
 (Choose three.)

- A. Objects from classes that use aggregation cannot be serialized.
- B. An object serialized on one JVM can be successfully deserialized on a different JVM.
- C. The values in fields with the volatile modifier will NOT survive serialization and deserialization.
- D. The values in fields with the transient modifier will NOT survive serialization and deserialization.
- E. It is legal to serialize an object of a type that has a supertype that does NOT implement java.io.Serializable.

Answer: B,D,E

QUESTION: 190

Given:

12. String csv = "Sue,5,true,3";
 13. Scanner scanner = new Scanner(csv);
 14. scanner.useDelimiter(",");
 15. int age = scanner.nextInt();

What is the result?

- A. Compilation fails.
- B. After line 15, the value of age is 5.
- C. After line 15, the value of age is 3.

D. An exception is thrown at runtime.

Answer: D

QUESTION: 191

Given that c is a reference to a valid java.io.Console object, which two code fragments read a line of text from the console? (Choose two.)

- A. String s = c.readLine();
- B. char[] c = c.readLine();
- C. String s = c.readConsole();
- D. char[] c = c.readConsole();
- E. String s = c.readLine("%s", "name ");
- F. char[] c = c.readLine("%s", "name ");

Answer: A,E

QUESTION: 192

Given:

- 11. String test = "a1b2c3";
- 12. String[] tokens = test.split("\\d");
- 13. for(String s: tokens) System.out.print(s + " ");

What is the result?

- A. a b c
- B. 1 2 3
- C. a1b2c3
- D. a1 b2 c3
- E. Compilation fails.
- F. The code runs with no output.
- G. An exception is thrown at runtime.

Answer: A

QUESTION: 193

Given:

- 33. Date d = new Date(0);
- 34. String ds = "December 15, 2004";
- 35. // insert code here
- 36. try {
- 37. d = df.parse(ds);
- 38. }

```

39. catch(ParseException e) {
40. System.out.println("Unable to parse " + ds);
41. }
42. // insert code here too

```

What creates the appropriate DateFormat object and adds a day to the Date object?

- A. 35. DateFormat df = DateFormat.getDateFormat();
42. d.setTime((60 * 60 * 24) + d.getTime());
- B. 35. DateFormat df = DateFormat.getDateInstance();
42. d.setTime((1000 * 60 * 60 * 24) + d.getTime());
- C. 35. DateFormat df = DateFormat.getDateFormat();
42. d.setLocalTime((1000*60*60*24) + d.getLocalTime());
- D. 35. DateFormat df = DateFormat.getDateInstance();
42. d.setLocalTime((60 * 60 * 24) + d.getLocalTime());

Answer: B

QUESTION: 194

Given:

```

1. public class KungFu {
2. public static void main(String[] args) {
3. Integer x = 400;
4. Integer y = x;
5. x++;
6. StringBuilder sb1 = new StringBuilder("123");
7. StringBuilder sb2 = sb1;
8. sb1.append("5");
9. System.out.println((x==y) + " " + (sb1==sb2));
10. }
11. }

```

What is the result?

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

Answer: B

QUESTION: 195

Given: