JAVA means DURGA SOFT

SCJP / OCJP

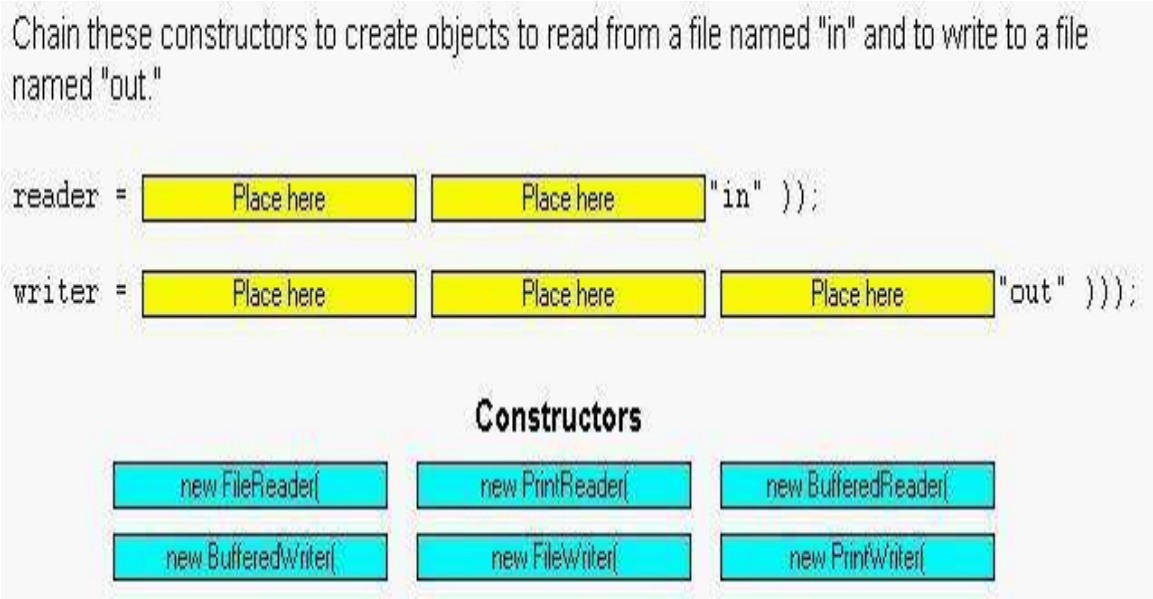
Question Bank

Chapter 11 : java.io package and Serialization

DURGA M.Tech
(Sun certified & Realtime Expert)
Ex. IBM Employee
Trained Lakhs of Students
for last 14 years across INDIA

11. java.io package and Serialization

Q: 01 Click the Task button.



Solution:
reader = new BufferedReader(new FileReader("in");
writer = new PrintWriter (new BufferedWriter (new FileWriter("out")));

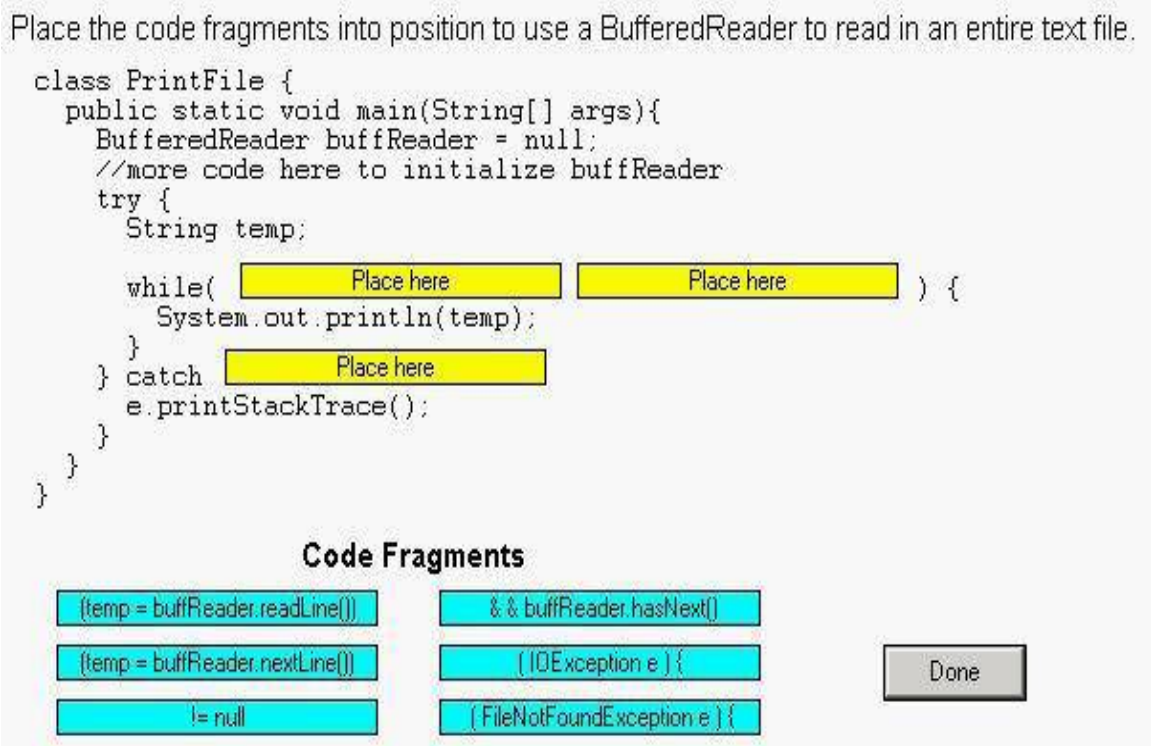
Q: 02 Given:

```
12. import java.io.*;
13. public class Forest implements Serializable {
14. private Tree tree = new Tree();
15. public static void main(String [] args) {
16. Forest f = new Forest();
17. try {
18. FileOutputStream fs = new FileOutputStream("Forest.ser");
19. ObjectOutputStream os = new ObjectOutputStream(fs);
20. os.writeObject(f); os.close();
21. } catch (Exception ex) { ex.printStackTrace(); }
22. } }
23.
24. class Tree { }
```

What is the result?
A. Compilation fails.
B. An exception is thrown at runtime.
C. An instance of Forest is serialized.
D. An instance of Forest and an instance of Tree are both serialized.

Answer: B

Q: 03 Click the Task button.



Solution:

1. **(temp = buffReader.readLine())**
2. **!= null**
3. **(IOException e){**

Q: 04 Assuming that the serializeBanana() and the deserializeBanana() methods will correctly use Java serialization and given:

```
13. import java.io.*;
14. class Food implements Serializable {int good = 3;}
15. class Fruit extends Food {int juice = 5;}
16. public class Banana extends Fruit {
17. int yellow = 4;
18. public static void main(String [] args) {
19. Banana b = new Banana(); Banana b2 = new Banana();
20. b.serializeBanana(b); // assume correct serialization
21. b2 = b.deserializeBanana(); // assume correct
22. System.out.println("restore "+b2.yellow+ b2.juice+b2.good);
24. }
25. // more Banana methods go here 50. }
```

What is the result?

A. restore 400 B. restore 403
C. restore 453 D. Compilation fails.
E. An exception is thrown at runtime.

Answer: C

Q: 05 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

Q: 06 Assuming that the serializeBanana2() and the deserializeBanana2() methods will correctly use Java serialization and given:

```
13. import java.io.*;
14. class Food {Food() { System.out.print("1"); } }
15. class Fruit extends Food implements Serializable {
16. Fruit() { System.out.print("2"); } }
17. public class Banana2 extends Fruit { int size = 42;
18. public static void main(String [] args) {
19. Banana2 b = new Banana2();
20. b.serializeBanana2(b); // assume correct serialization
21. b = b.deserializeBanana2(b); // assume correct
22. System.out.println(" restored " + b.size + " "); }
23. // more Banana2 methods
24. }
```

What is the result?
A. Compilation fails.
B. 1 restored 42
C. 12 restored 42
D. 121 restored 42
E. 1212 restored 42
F. An exception is thrown at runtime.
Answer: D

Q: 7 When comparing java.io.BufferedWriter to java.io.FileWriter, which capability exists as a method in only one of the two?
A. closing the stream
B. flushing the stream
C. writing to the stream
D. marking a location in the stream
E. writing a line separator to the stream
Answer: E

Question: 8
Given:

```
10. class MakeFile {
11. public static void main(String[] args) {
12. try {
13. File directory = new File("d");
```

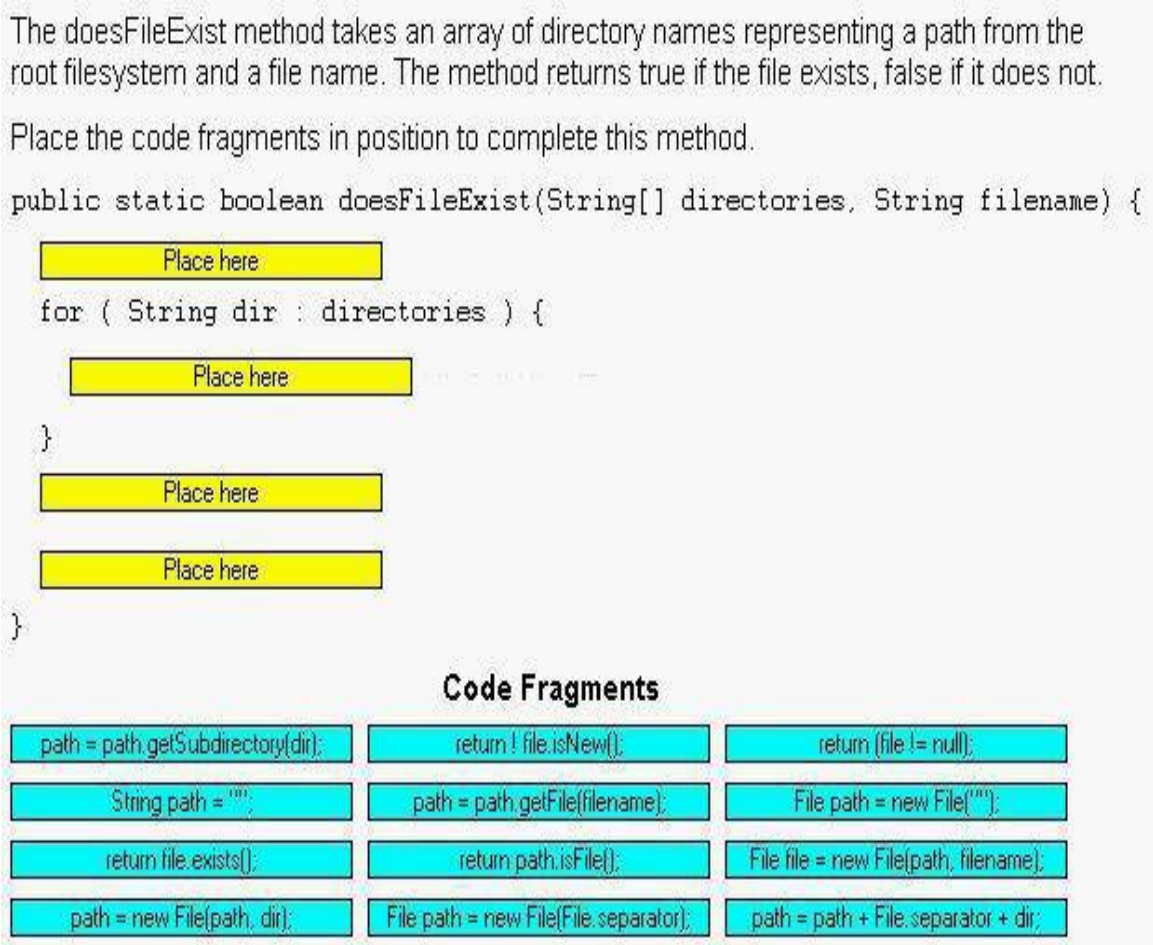
```
14. File file = new File(directory,"f");
15. if(!file.exists()) {
16. file.createNewFile();
17. }
18. } catch (IOException e) {
19. e.printStackTrace
20. }
21. }
22. }
```

The current directory does NOT contain a directory named "d."
Which three are true? (Choose three.)

A. Line 16 is never executed.
B. An exception is thrown at runtime.
C. Line 13 creates a File object named "d."
D. Line 14 creates a File object named "f.'
E. Line 13 creates a directory named "d" in the file system.
F. Line 16 creates a directory named "d" and a file 'f' within it in the file system.
G. Line 14 creates a file named 'f' inside of the directory named "d" in the file system.

Answer: BCD

Q: 09 Click the Task button.



Solution:
1. String path=" ";
2. path=path+File.separator+dir;
3. File file=new File(path,filename);
4. return file.exists();

Q:10 Click the Exhibit button.

Which code, inserted at line 14, will allow this class to correctly serialize and deserialize?

```
 1. import java.io.*;
 2. public class Foo implements Serializable
{
 3.    public int x, y;
 4.    public Foo( int x, int y ) { this.x =
x; this.y = y; }
 5.
 6.    private void writeObject(
ObjectOutputStream s )
 7.          throws IOException {
 8.       s.writeInt(x); s.writeInt(y) ;
 9.    }
10.
11.    private void readObject(
ObjectInputStream s )
12.          throws IOException,
ClassNotFoundException {
13.
14.       // insert code here
15.
16.    }
17. }
```

A. s.defaultReadObject();
B. this = s.defaultReadObject();
C. y = s.readInt(); x = s.readInt();
D. x = s.readInt(); y = s.readInt();
Answer: D

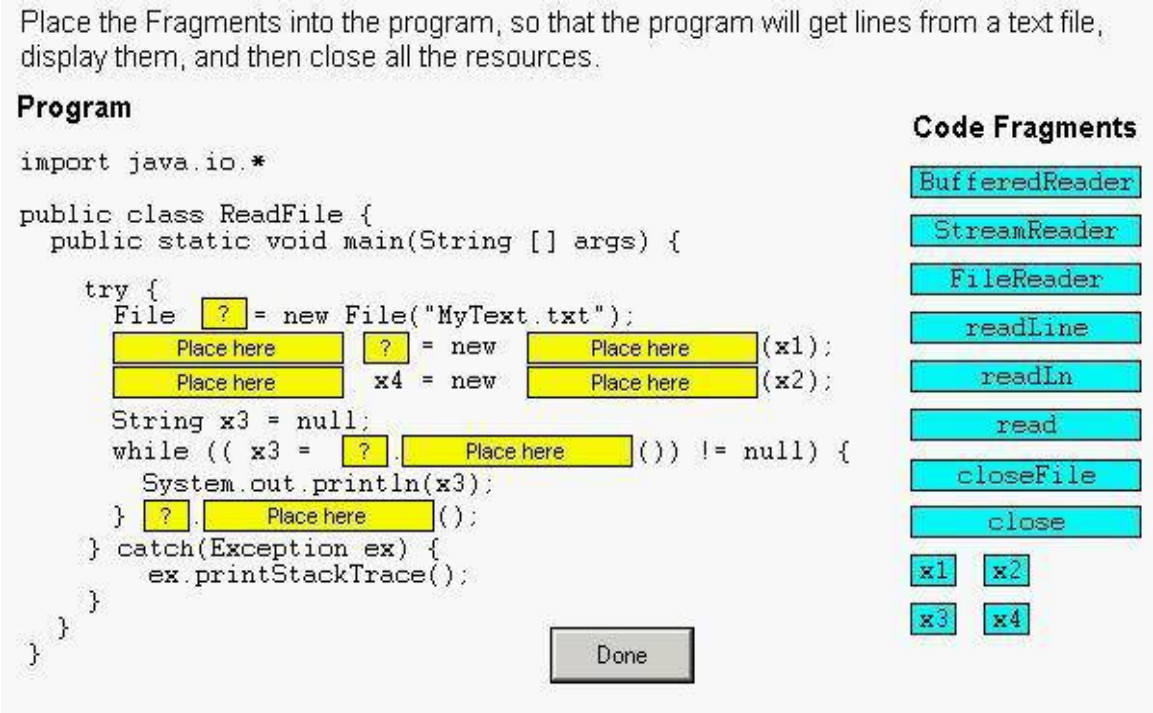
Question: 11
Given:

10. public class Foo implements java.io.Serializable {
11. private int x;
12. public int getX() { return x; }
12.publicFoo(int x){this.x=x; }
13. private void writeObject(ObjectOutputStream s)
14. throws IOException {
***15.* // insert code here**
16. }
17. }
Which code fragment, inserted at line *15*, will allow Foo objects to be correctly serialized and deserialized?
A. s.writeInt(x);
B. s.serialize(x);
C. s.writeObject(x);

D. s.defaultWriteObject();

Answer: D

12 Click the Task button.



Solution:

```
import java.io.*;
        public class ReadFile{
         public static void main(String s[ ]){
              try {
                  File x1=new File("MyText.txt");
                  FileReader x2=new FileReader(x1);
                  BufferedReader x4=new BufferedReader(x2);
                  String s3=null;
                 while((x3 = x4.readLine( )) != null )  {
                  System.out.println(x3);
                  }x4.close( );
                }catch(Exception e){
                  e.printStackTrace();
                  }
        }
}
```

Question: 13

Which capability exists only in java.io.FileWriter?

A. Closing an open stream.

B. Flushing an open stream.

C. Writing to an open stream.

D. Writing a line separator to an open stream.
Answer: D

Question: 14
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: 15
Given:
1. public class LineUp {
2. public static void main(String[] args) {
3. double d = 12.345;
4. // insert code here
5. }
6. }
Which code fragment, inserted at line 4, produces the output | 12.345|?
A. System.out.printf("|%7d| \n", d);
B. System.out.printf("|%7f| \n", d);
C. System.out.printf("|%3.7d| \n", d);
D. System.out.printf("|%3.7f| \n", d);
E. System.out.printf("|%7.3d| \n", d);
F. System.out.printf("|%7.3f| \n", d);
Answer: F

Question: 16
Given:
5. import java.io.*;
6. public class Talk {
7. public static void main(String[] args) {
8. Console c = new Console();
9. String pw;
10. System.out.print("password: ");
11. pw = c.readLine();
12. System.out.println("got " + pw);
13. }
14. }
If the user types the password aiko when prompted, what is the result?
A. password:
got
B. password:
got aiko
C. password: aiko
got aiko
D. An exception is thrown at runtime.
E. Compilation fails due to an error on line 8.
Answer: E

Question: 17
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: 18
Given:
12. String csv = "Sue,5,true,3";
13. Scanner scanner = new Scanner(csv);

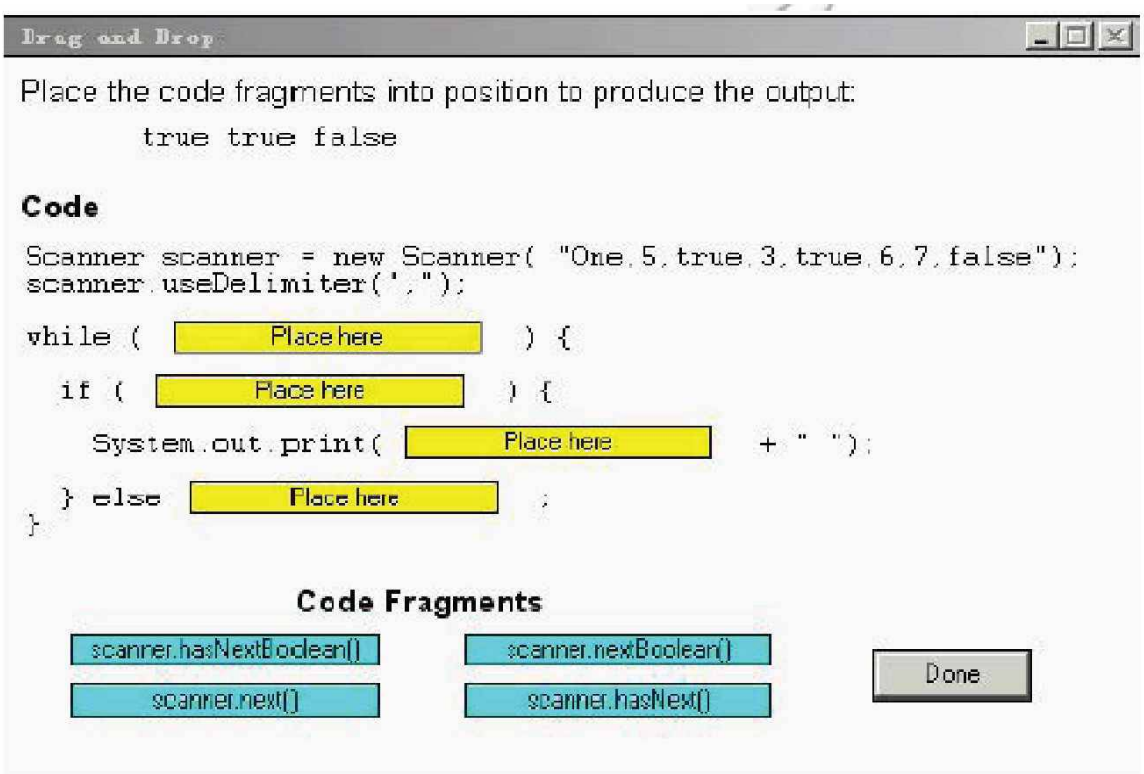
14. scanner.useDelimiter(",");
15. int age = scanner.nextInt();
What is the result?
A. Compilation fails.
B. After line 15, the value of age is 5.
C. After line 15, the value of age is 3.
D. An exception is thrown at runtime.
Answer: D

Question: 19
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

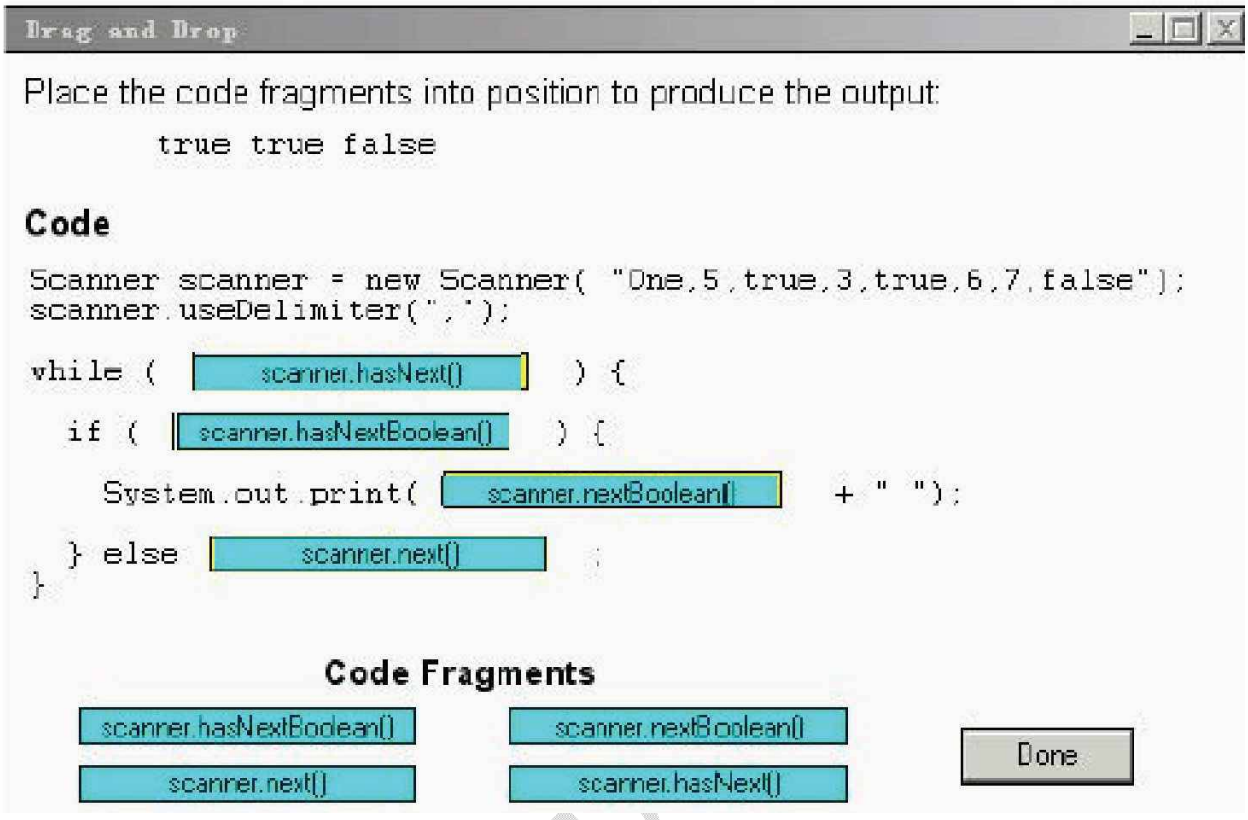
Question: 20
Given that c is a reference to a valid java.io.Console object, and:
11. String pw = c.readPassword("%s", "pw: ");
12. System.out.println("got " + pw);
13. String name = c.readLine("%s", "name: ");
14. System.out.println(" got ", name);
If the user types fido when prompted for a password, and then responds bob when prompted for a name, what is the result?
A. pw: got fido name: bob got bob
B. pw: fido got fido name: bob got bob
C. pw: got fido name: bob got bob
D. pw: fido got fido name: bob got bob
E. Compilation fails.
F. An exception is thrown at runtime.
Answer: E
Question: 21
Given the following six method names:
addListener
addMouseListener
setMouseListener
deleteMouseListener
removeMouseListener
registerMouseListener
How many of these method names follow JavaBean Listener naming rules?
A. 1
B. 2
C. 3
D. 4
E. 5

Answer: B

Question: 22
Click the Task button.



Answer:


Drag and Drop
Place the code fragments into position to produce the output:
true true false
Code
Scanner scanner = new Scanner("One,5,true,3,true,6,7,false");
scanner.useDelimiter(",");
while (scanner.hasNext()) {
if (scanner.hasNextBoolean()) {
System.out.print(scanner.nextBoolean() + " ");
} else scanner.next() ;
}
Code Fragments
scanner.hasNextBoolean()
scanner.nextBoolean()
scanner.next()
scanner.hasNext()
Done