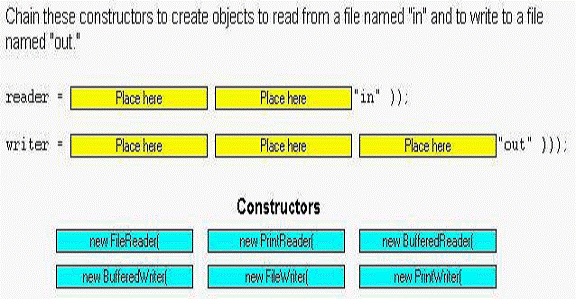
***java.io and Serialization***

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Q: 01 Click the Task button.



**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?**

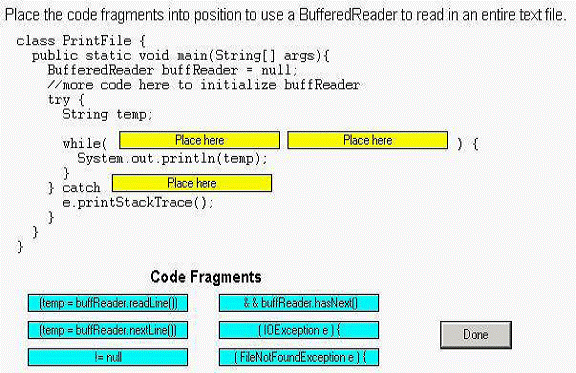
A. Compilation fails.

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.

**Q: 03 Click the Task button.**



**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.

**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.

**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.

**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

**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.

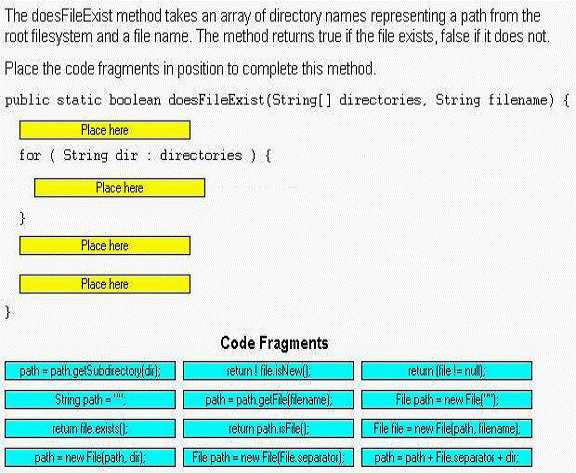
F. Line 16 creates a directory named “d” and a file ‘f’ within it in the

file system.

G. Line 14 creates a file named ‘f’ inside of the directory named “d” in

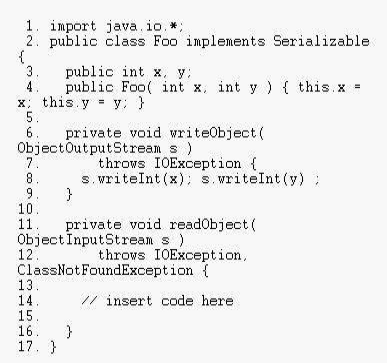
the file system.

**Q: 09 Click the Task button.**



**Q:10 Click the Exhibit button.**

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



A. s.defaultReadObject();

B. this = s.defaultReadObject();

C. y = s.readInt(); x = s.readInt();

D. x = s.readInt(); y = s.readInt();

**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?**

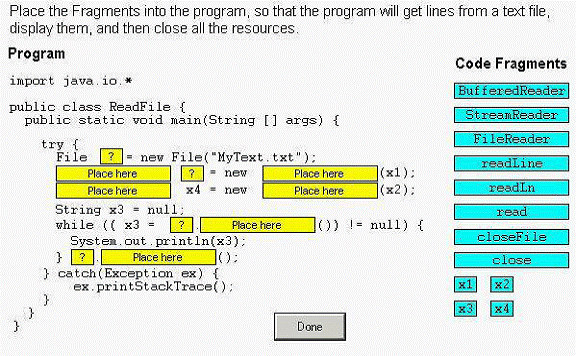
A. s.writeInt(x);

B. s.serialize(x);

C. s.writeObject(x);

D. s.defaultWriteObject();

**12 Click the Task button.**



**13. Given:**

**import java.io.\*;**

**class Player {**

**Player() { System.out.print("p"); }**

**}**

**class CardPlayer extends Player implements Serializable {**

**CardPlayer() { System.out.print("c"); }**

**public static void main(String[] args) {**

**CardPlayer c1 = new CardPlayer();**

**try {**

**FileOutputStream fos = new FileOutputStream("play.txt");**

**ObjectOutputStream os = new ObjectOutputStream(fos);**

**os.writeObject(c1);**

**os.close();**

**FileInputStream fis = new FileInputStream("play.txt");**

**ObjectInputStream is = new ObjectInputStream(fis);**

**CardPlayer c2 = (CardPlayer) is.readObject();**

**is.close();**

**} catch (Exception x ) { }**

**}**

**}**

**What is the result?**

A. pc B. pcc

C. pcp D. pcpc

E. Compilation fails. F. An exception is thrown at runtime.

**14. Given:**

**bw is a reference to a valid BufferedWriter And the snippet:**

**15. BufferedWriter b1 = new BufferedWriter(new File("f"));**

**16. BufferedWriter b2 = new BufferedWriter(new FileWriter("f1"));**

**17. BufferedWriter b3 = new BufferedWriter(new PrintWriter("f2"));**

**18. BufferedWriter b4 = new BufferedWriter(new BufferedWriter(bw));**

**What is the result?**

A. Compilation succeeds.

B. Compilation fails due only to an error on line 15.

C. Compilation fails due only to an error on line 16.

D. Compilation fails due only to an error on line 17.

E. Compilation fails due only to an error on line 18.

F. Compilation fails due to errors on multiple lines.

**15. Given:**

**import java.io.\*;**

**class Keyboard { }**

**public class Computer implements Serializable {**

**private Keyboard k = new Keyboard();**

**public static void main(String[] args) {**

**Computer c = new Computer();**

**c.storeIt(c);**

**}**

**void storeIt(Computer c) {**

**try {**

**ObjectOutputStream os = new ObjectOutputStream(**

**new FileOutputStream("myFile"));**

**os.writeObject(c);**

**os.close();**

**System.out.println("done");**

**} catch (Exception x) {System.out.println("exc"); }**

**}**

**}**

**What is the result? (Choose all that apply.)**

A. exc

B. done

C. Compilation fails.

D. Exactly one object is serialized.

E. Exactly two objects are serialized.

**16. Given:**

**import java.io.\*;**

**class Directories {**

**static String [] dirs = {"dir1", "dir2"};**

**public static void main(String [] args) {**

**for (String d : dirs) {**

**// insert code 1 here**

**File file = new File(path, args[0]);**

**// insert code 2 here**

**}**

**}**

**}**

**and that the invocation**

**java Directories file2.txt**

**is issued from a directory that has two subdirectories, "dir1" and "dir1", and that "dir1" has a**

**file "file1.txt" and "dir2" has a file "file2.txt", and the output is "false true", which**

**set(s) of code fragments must be inserted? (Choose all that apply.)**

A. String path = d;

System.out.print(file.exists() + " ");

B. String path = d;

System.out.print(file.isFile() + " ");

C. String path = File.separator + d;

System.out.print(file.exists() + " ");

D. String path = File.separator + d;

System.out.print(file.isFile() + " ");

**17. Given:**

**import java.io.\*;**

**public class TestSer {**

**public static void main(String[] args) {**

**SpecialSerial s = new SpecialSerial();**

**try {**

**ObjectOutputStream os = new ObjectOutputStream(**

**new FileOutputStream("myFile"));**

**os.writeObject(s); os.close();**

**System.out.print(++s.z + " ");**

**ObjectInputStream is = new ObjectInputStream(**

**new FileInputStream("myFile"));**

**SpecialSerial s2 = (SpecialSerial)is.readObject();**

**is.close();**

**System.out.println(s2.y + " " + s2.z);**

**} catch (Exception x) {System.out.println("exc"); }**

**}**

**}**

**class SpecialSerial implements Serializable {**

**transient int y = 7;**

**static int z = 9;**

**}**

**Which are true? (Choose all that apply.)**

A. Compilation fails. B. The output is 10 0 9

C. The output is 10 0 10 D. The output is 10 7 9

E. The output is 10 7 10

F. In order to alter the standard deserialization process you would override the readObject() method in SpecialSerial.

G. In order to alter the standard deserialization process you would override the

defaultReadObject() method in SpecialSerial.