

COOL CRAM BIBLE

For Java Certification Course 310-025

Sun Certified Java Programmer

Trial Version, no answers



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Cool Cram Lab

1) A file stored on local disk is to be read one line at a time into String objects. Which construction would be the most suitable for reading the file?

- A. `FileInputStream in = new FileInputStream("file.name");`
- B. `DataInputStream in = new DataInputStream(new FileInputStream("file.name"));`
- C. `DataInputStream in = new DataInputStream(new FileInputStream("file.name", "r"));`
- D. `BufferedReader in = new BufferedReader(new InputStreamReader(new FileInputStream("file.name")));`
- E. `BufferedReader in = new BufferedReader(new InputStreamReader(new FileInputStream("file.name"), "8859_1"));`

2) If the code constitutes the entire contents of a file called car.java on a system with a case-sensitive file system, which are correct class declarations?

- A.

```
public class Car {
    public int x = 0;
    public Car(int xval) {
        x = xval
    }
}
```
- B.

```
import java.applet.Applet;
public class Car extends Applet, MyBaseClass {
    public int x = 0;
    public Car(int xval) {
        x = xval;
    }
}
```
- C.

```
private class Car {
    private int x = 0;
    private Car(int xval) {
        x = xval;
    }
}
```
- D.

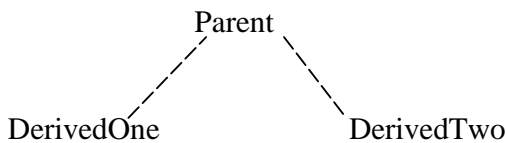
```
public class Car extends Object {
    private int x = 0;
    public Car (int xval) {
        x = xval;
    }
}
```

3) Write the number 7 as a hexadecimal literal using no more than four characters.
NOTE: do NOT declare a variable.

4) Which statements are true about the garbage collection mechanisms?

- A. The garbage collection mechanism releases memory at predictable times.
- B. A correct program must not depend upon the timing or order of garbage collection.
- C. Garbage collection ensures that a program will NOT run out of memory during execution.
- D. The programmer can indicate that a reference through a local variable is no longer going to be used.
- E. The programmer has a mechanism that explicitly and immediately frees the memory used by Java objects.

5) Given the following class hierarchy diagram:



A method declares three variables as shown below and assigns them non-null values:

```
Parent p;  
DerivedOne d1;  
DerivedTwo d2;
```

Which statement describes the following assignment?

```
p = d1;
```

- A. It is definitely illegal at compilation.
- B. It is legal at compilation and legal at execution.
- C. It is illegal at compilation and legal at execution.
- D. It is illegal at compilation and illegal at execution.
- E. It is legal at compilation but possibly illegal at runtime.

6) What is the numerical range of a char in Java?

- A. $0 \dots (2^8)-1$
- B. $0 \dots (2^{16})-1$
- C. $-2^7 \dots (2^7)-1$
- D. $-2^{15} \dots (2^{15})-1$
- E. It depends on the platform.