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Java SE 7 Programmer II

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QUESTION 1

Sam has designed an application. It segregates tasks that are critical and executed frequently from tasks that are non critical and executed less frequently. He has prioritized these tasks based on their criticality and frequency of execution. After close scrutiny, he finds that the tasks designed to be non critical are rarely getting executed.

From what kind of problem is the application suffering?

- A. race condition
- B. starvation
- C. deadlock
- D. livelock

Correct Answer: C

Starvation describes a situation where a thread is unable to gain regular access to shared resources and is unable to make progress. This happens when shared resources are made unavailable for long periods by "greedy" threads. For example, suppose an object provides a synchronized method that often takes a long time to return. If one thread invokes this method frequently, other threads that also need frequent synchronized access to the same object will often be blocked.

Reference: The Java Tutorial, Starvation and Livelock

QUESTION 2

Assuming the port statements are correct, which two code fragments create a one-byte file?

- A. `OutputStream fos = new FileOutputStream(new File("/tmp/data.bin")); OutputStream bos = new BufferedOutputStream(fos); DataOutputStream dos = new DataOutputStream(bos); dos.writeByte(0); dos.close();`
- B. `OutputStream fos = new FileOutputStream ("/tmp/data.bin"); dataOutputStream dos = new DataOutputStream(fos); dos.writeByte(0); dos.close();`
- C. `OutputStream fos = new FileOutputStream (new File ("/tmp/data.bin")); dataOutputStream dos = new DataOutputStream(os); dos.writeByte(0); dos.close();`
- D. `OutputStream fos = new FileOutputStream ("/tmp/data.bin"); fos.writeByte(0); fos.close();`

Correct Answer: BC

B: Create DataOutputStream from FileOutputStream
`public static void main(String[] args) throws Exception {
FileOutputStream fos = new FileOutputStream("C:/demo.txt"); DataOutputStream dos = new DataOutputStream(fos);`

Note:

The FileOutputStream class is a subclass of OutputStream.

You can construct a FileOutputStream object by passing a string containing a path name or a File object.

You can also specify whether you want to append the output to an existing file.



public FileOutputStream (String path)

public FileOutputStream (String path, boolean append)

public FileOutputStream (File file)

public FileOutputStream (File file, boolean append)

With the first and third constructors, if a file by the specified name already exists, the file will be overwritten. To append to an existing file, pass true to the second or fourth constructor.

Note 2: public class DataOutputStream

extends FilterOutputStream

implements DataOutput

A data output stream lets an application write primitive Java data types to an output stream in a portable way. An application can then use a data input stream to read the data back in.

Reference: java.io Class DataOutputStream

QUESTION 3

Which two are true about Singletons?

- A. A Singleton must implement serializable.
- B. A Singleton has only the default constructor.
- C. A Singleton implements a factory method.
- D. A Singleton improves a class's cohesion.
- E. Singletons can be designed to be thread-safe.

Correct Answer: BE

B: The Singleton Pattern is one of the commonly used design templates when there needs to be a control on how an object can be created. This design pattern proposes that at any time there can only be one instance of a singleton (object) created by the JVM. The Singleton class's default constructor is made private, which prevents the direct instantiation of the object by others (Other Classes).

E: The singleton pattern makes unit testing far more difficult, as it introduces global state into an application. It should also be noted that this pattern reduces the potential for parallelism within a program, because access to the singleton in a multi-threaded context must be serialised, e.g., by locking.

QUESTION 4

Which is a factory method from the java.text.NumberFormat class?

- A. format (long number)



- B. getInstance()
- C. getMaxiraumFractionDigits ()
- D. getAvailableLocales ()
- E. isGroupingUsed()

Correct Answer: B

To obtain a NumberFormat for a specific locale, including the default locale, call one of NumberFormat's factory methods, such as getInstance(). Reference: java.text Class DecimalFormat

QUESTION 5

Given three resources bundles with these values set for menu1: (the default resource bundle in US English.)

English US Resource Bundle

Menu1 = small

French Resource Bundle

Menu1 = petit

Chinese Resource Bundle

Menu1 =

And given the code fragment:

```
Locale.setDefault(new Locale("es", "ES")); // Set default to Spanish and Spain
```

```
Locale loc1 = Locale.getDefault();
```

```
ResourceBundle message = ResourceBundle.getBundle("MessageBundle", loc1);
```

```
System.out.println(message.getString("menu1"));
```

What is the result?

- A. No message is printed
- B. Petit C.
- D. A runtime error is produced

Correct Answer: D

There is no Spanish resource bundle. The following runtime error will occur:

```
Exception in thread "main" java.util.MissingResourceException: Can't find bundle for base name MessageBundle, locale es_ES
```



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