

QUESTIONS & ANSWERS

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BlackBerry

BCP-811

Developing Java applications for the(R) BlackBerry Platform

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Answer: D

QUESTION: 110

Consider the following class:

```
public class ClassA
{
    static private int _foo;

    public static void main( String args[] ){
        getFoo();
        System.out.println( getFoo() );
    }

    static int getFoo() {
        return _foo++;
    }
}
```

What will happen when this class is compiled and run? (Choose one.)

- A. The class will fail to compile
- B. The output will be null
- C. The output will be 0
- D. The output will be 1
- E. The output will be 2

Answer: B

QUESTION: 111

Consider the application source code below. It displays a dialog and then exits when someone hangs up during a phone call.

```

1 import net.rim.blackberry.api.phone.AbstractPhoneListener;
2 import net.rim.blackberry.api.phone.Phone;
3 import net.rim.device.api.ui.UiApplication;
4 import net.rim.device.api.ui.component.Dialog;
5
6 public class BooYah extends UiApplication {
7     public BooYah() {
8         Phone.addPhoneListener(new MyPhoneListener());
9     }
10
11     public static void main(String[] args) {
12         new BooYah().enterEventDispatcher();
13     }
14
15     private class MyPhoneListener
16         extends AbstractPhoneListener {
17         public void callDisconnected(int callId) {
18             BooYah.this.invokeLater(new Runnable() {
19                 public void run() {
20                     Dialog.alert("You got hung up on!");
21                     System.exit(0);
22                 }
23             });
24         }
25     }

```

In which two locations does this application contain memory leaks? (Choose two.)

- A. Calling `System.exit()` on the event thread does not properly clean up memory
- B. A reference to the Application object exists after the application exits
- C. The BlackBerry device user cannot terminate the application due to its lack of a user interface
- D. The phone listener is added before `enterEventDispatcher()` is invoked
- E. The phone listener is never a candidate for garbage collection

Answer: B, E

QUESTION: 112

The following code sample overrides the paint method of a class that extends `MainScreen`:

```

protected void paint(Graphics graphics)
{
    graphics.clear();
    graphics.drawText("Hello", 0, 0);
    this.invalidate();
    super.paint(graphics);
}

```

What problem exists in this code? (Choose one.)

- A. Calling `graphics.clear()` within the paint method results in a blank screen being shown to the BlackBerry device user
- B. Calling `invalidate` within the paint method triggers another call to paint, resulting in an endless loop
- C. `MainScreen` does not support overriding its paint method
- D. The coordinate values specified within the `drawText` method must be greater than 0
- E. Calling `super.paint(graphics)` within the paint method triggers another call to paint, resulting in an endless loop

Answer: D

QUESTION: 113

According to the BlackBerry device UI Guidelines, what should the BlackBerry device user be able to accomplish by repeatedly pressing the escape key? (Choose one.)

- A. Exit the application
- B. Return to the `HomeScreen`
- C. Cancel a dialog screen
- D. Return to the main screen of the application
- E. Return to the previous screen

Answer: B

QUESTION: 114

A BlackBerry CLDC application allows the BlackBerry device user to specify an image that can be used as the application background. A BlackBerry CLDC application allows the BlackBerry device user to specify an image that can be used as the application? background. Which two of the following techniques should be used to draw the image in the background? (Choose two.)

- A. Use the `BackgroundFactory` class to create a custom background and add it to the application screens using the `setBackground` method
- B. Override the paint method of the manager used by the application screens to draw the background image

- C. Pass the image to the `setBackground` method of the application screens
- D. Create a semi-transparent `PopupScreen` that displays the image, which is shown at top of the application
- E. Add a `BitmapField` that contains the image to the application screens

Answer: A, B

QUESTION: 115

An application uses a remote server to retrieve weather information and display it to the BlackBerry device user using custom graphics. The application will run on a variety of BlackBerry device models using the same set of graphics. Which two of the following APIs should the application be using in its implementation? (Choose two.)

- A. Coverage APIs
- B. LBS APIs
- C. Image APIs
- D. Bluetooth APIs
- E. PIM APIs

Answer: A, C

QUESTION: 116

A developer has been asked to write an application to programmatically create a partial email message that is displayed to the BlackBerry device user for completion. Which approach will accomplish this with the smallest amount of developing? (Choose one.)

- A. Invoke the messages application with the partial message
- B. Duplicate the UI in the messages application
- C. Use the BlackBerry messaging API
- D. Override the messaging method
- E. Copy the partial email message text into the clipboard and invoke the message application

Answer: A

QUESTION: 117

An application stores timing data to determine average throughput. It is normally started by the BlackBerry device user and continues to run indefinitely. The timing algorithm adds the current time into a Vector at regular intervals and then computes the average throughput at the same intervals. The computed average is then reported to the user in the application graphical user interface. What is the problem with this algorithm in terms of its memory usage? (Choose one.)

- A. A Vector is an inefficient structure for this type of data
- B. The data will not be garbage collected when the application exits
- C. The data should not be stored in persistent memory
- D. The default capacity increment of the Vector is too small
- E. The memory use increases the longer the application is alive

Answer: E

QUESTION: 118

The code below triggers an `IllegalStateException` after the BlackBerry device user clicks on its icon on the home screen. Why was this exception thrown? (Choose one.)

```

public class MyApp extends UiApplication
{
    LabelField myField =
        new LabelField("My Label");

    MainScreen ms;

    public static void main(String[] args)
    {
        UiApplication theApp = new MyApp();
        theApp.enterEventDispatcher();
    }

    public MyApp()
    {
        ms = new MainScreen();
        ms.add(myField);
        pushScreen(ms);

        MyThread mt = new MyThread();
        mt.start();
    }

    public class MyThread extends Thread
    {
        public void run()
        {
            myField.setText("Something else");
            ms.invalidate();
        }
    }
}

```

- A. MyThread does not have permission to access myField
- B. The application attempted to update a displayed screen from outside of the main event thread
- C. The application attempted to modify the myField field before it was fully displayed
- D. The application attempted to instantiate the myField field outside of its constructor

E. MyThread updated the myField field with text of a longer length without first resizing it

Answer: B

QUESTION: 119

When does the event thread of an application terminate? (Choose one.)

- A. When the application is exited
- B. When an application creates a new thread
- C. When a screen is closed
- D. When an application is sent to the background
- E. When all input fields are removed from a screen

Answer: A

QUESTION: 120

Product marketing has announced that an application in development will have the ability to automatically save email message attachments if they come from a BlackBerry device user contact list. This feature however, goes beyond the requirements of the original plan. Therefore, a developer come from a BlackBerry device user? contact list. This feature however, goes beyond the requirements of the original plan. Therefore, a developer needs to add this feature to the application. Which three of the following APIs could a developer use to implement this feature? (Choose three.)

- A. PIM
- B. Mail
- C. BlackBerry Messenger
- D. Networking
- E. Attachment

Answer: A, B, E

QUESTION: 121

When push authentication is enabled on a BlackBerry Enterprise Server, which type of authentication must the push application use when submitting a push request? (Choose one.)

- A. Digest Access Authentication
- B. Public Key Authentication
- C. LDAP Authentication
- D. Kerberos authentication
- E. HTTP Basic authentication

Answer: E

QUESTION: 122

Which two of the following file extensions represent RIM specific internationalization resource files? (Choose two.)

- A. .rry
- B. .alx
- C. .cod
- D. .rrc
- E. .rrh

Answer: D, E

QUESTION: 123

An application allows doctors to view and update patient records. Patient record data is kept in a custom persistable class. The doctor could store thousands of patient records within the application, viewing and updating multiple records throughout the day. Which two will allow for the most efficient storage and retrieval of data using the BlackBerry Persistent Store? (Choose two.) A Use a Vector to store all records

- A. Use an array to contain all records
- B. Use object grouping on all records
- C. Use aPersistentObject for each record
- D. Use aHashtable to hold all records

Answer: B, C

QUESTION: 124

A developer has been asked to write an enterprise application that connects to a server through a BlackBerry Enterprise Server. Which URL parameter should be used in Connector.open()? (Choose one.)

- A. deviceside=true
- B. deviceside=false
- C. interface=wifi
- D. connectiontype=mds
- E. interface=mds

Answer: B



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