## 109590003 HW10-1

# **Question 1**

For a ProgressBar:

1. How do you determine the range of values that a ProgressBar can show?

#### Α

用 android:min 還有 android:max attributes設定最小、最大整數值。

2. How do you change how much of the progress bar is filled in?

### Α

用 android:progress attribute設定整數值。

# **Question 2**

If an AsyncTask is defined as follows:

private class DownloadFilesTask extends AsyncTask<URL, Integer, Long>

1. What is the type of the value that is passed to doInBackground() in the AsyncTask?

#### Α

- URL
- 2. What is the type of the value that is passed to the callback that reports the progress of the task?

### Α

- integer
- 3. What is the type of the value that is passed to the callback that is executed when the task completes?

#### Α

• Long

# **Question 3**

To report progress of the work executed by an AsyncTask, what callback method do you *implement*, and what method do you *call* in your AsyncTask subclass?

- Implement publishProgress(). Call publishProgress().
- Implement publishProgress(). Call onProgressUpdate().
- Implement onProgressUpdate(). Call publishProgress().
- Implement onProgressUpdate(). Call onProgressUpdate().

• Implement onProgressUpdate(). Call publishProgress().

### 109590003 HW10-2

### **Question 1**

What permissions does your app need to connect to the internet?

- android.permission.CONNECTIVITY
- android.permission.INTERNET
- It doesn't need any special permissions, because all Android apps are allowed to connect to the internet.

#### Α

• android.permission.INTERNET

## **Question 2**

How does your app check that internet connectivity is available?

In the manifest:

- request ACCESS\_NETWORK\_STATE permission
- request ALL\_NETWORK\_STATE permission
- request NETWORK\_CONNECT permission

#### Α

request ACCESS\_NETWORK\_STATE permission

In the code:

- Wrap the code to connect to the internet in a try/catch block, and catch NO\_NETWORK errors.
- Use ConnectivityManager to check for an active network before connecting to the network.
- Present a dialog to the user reminding them to make sure that internet connectivity is available before they attempt to connect to the internet.

#### Α

• Use ConnectivityManager to check for an active network before connecting to the network.

# **Question 3**

Where do you implement the loader callback method that's triggered when the loader finishes executing its task?

- In the AsyncTaskLoader subclass. The AsyncTaskLoader must implement LoaderManager.LoaderCallbacks.
- In the Activity that displays the results of the task. The Activity must implement LoaderManager.LoaderCallbacks.
- In a Utility class that extends Object and implements LoaderManager.LoaderCallbacks.

#### Α

• In the Activity that displays the results of the task. The Activity must implement LoaderManager.LoaderCallbacks.

## **Question 4**

When the user rotates the device, how do AsyncTask and AsyncTaskLoader behave differently if they are in the process of running a task in the background?

- A running AsyncTask becomes disconnected from the activity, but keeps running. A running AsyncTaskLoader becomes disconnected from the activity and stops running, preserving system resources.
- A running AsyncTask becomes disconnected from the activity and stops running, preserving system resources. A running AsyncTaskLoader automatically restarts execution of its task from the beginning. The activity displays the results.
- A running AsyncTask becomes disconnected from the activity, but keeps running. A running AsyncTaskLoader automatically reconnects to the activity after the device rotation. The activity displays the results.

#### Α

• A running AsyncTask becomes disconnected from the activity and stops running, preserving system resources. A running AsyncTaskLoader automatically restarts execution of its task from the beginning. The activity displays the results.

# **Question 5**

How do you initialize an AsyncTaskLoader to perform steps, such as initializing variables, that must be done before the loader starts performing its background task?

- In onCreateLoader() in the activity, create an instance of the AsyncTaskLoader subclass. In the loader's constructor, perform initialization tasks.
- In onCreateLoader() in the activity, create an instance of the AsyncTaskLoader subclass. In the loader's init() method, perform initialization tasks.
- In the Activity, implement initLoader() to initialize the loader.
- Perform initialization tasks for the loader at the start of loadInBackgroud() in the Loader.

#### Α

• In onCreateLoader() in the activity, create an instance of the AsyncTaskLoader subclass. In the loader's constructor, perform initialization tasks.

# **Question 6**

What methods must an AsyncTaskLoader implement?

### Α

loadInBackground() \ onStartLoading()