

Midterm Module C

Due Mar 23 at 11:59pm**Points** 20**Questions** 20**Time Limit** 30 Minutes

Instructions

This midterm covers BNR chapters 1-12. It may also have question from the CriminalIntent slides created by Dr. K.

Many questions relate to how GeoQuiz (similar to MultiQuiz) and CriminalIntent (similar to DreamCatcher) are implemented. Also, make sure you have a good understanding of the life-cycle functions before you take this.

Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	30 minutes	16 out of 20

Score for this quiz: **16** out of 20

Submitted Mar 19 at 7:43pm

This attempt took 30 minutes.

Question 1

1 / 1 pts

In constraint-layout, if you want a widget to be centered between the left and right edges of the screen, you should...

- ☐ constrain it to the right edge of the screen
- ☐ constrain it to the top of the screen
- ☐ not put any constraints on it
- ☒ constrain it to the left and right edges of the screen

Correct!

Question 2**1 / 1 pts**

Every View object should have a listener created for it.

☐ True☒ False**Correct!****Question 3****1 / 1 pts**

Calling `executor.execute` creates a new background thread.

☒ True☐ False**Correct!****Question 4****1 / 1 pts**

Suppose you want to cleanly separate the view from the model by implementing a method in your Activity called "refreshView" that completely refreshes the entire view based on values in the model. What should the code one of your listeners look like?

☐ The listener code will update both the view and the model equally☐

The listener code will only update the model, it won't touch the view at all

Correct!

The listener code will only update the model except that the last line will call "refreshView"



The listener code will only update the view, it won't touch the model at all

Question 5**1 / 1 pts**

Where should listeners for checkboxes be set up?



onAttach



onCreate



onCreateView



onStart

Correct!**Question 6****0 / 1 pts**

When an Activity holds a single Fragment, both the Activity and the Fragment are associated with the same XML layout file.



True

You Answered

False

Correct Answer

Question 7**1 / 1 pts**

The android:layout_width and android:layout_height attributes are required for almost every type of widget. They are typically set to:

- ☐ a fixed integer in px
- ☐ min or max
- ☐ a fixed integer in dp
- ☒ match_parent or wrap_content

Correct!**Question 8****0 / 1 pts**

Pressing the back button from a child activity always takes you to the parent activity.

☒ True**You Answered**☐ False**Correct Answer****Question 9****1 / 1 pts**

In the CriminalIntent application from BNR, where are the CrimeAdapter and CrimeHolder classes located?

Correct!

- ☐ CrimeHolder is an inner class of CrimeAdapter, and CrimeAdapter is a separate class in the same package as CrimeListFragment
- ☐ CrimeHolder and CrimeAdapter are separate classes in the same package as CrimeListFragment
- ☐ CrimeHolder and CrimeAdapter are separate classes in a different package than CrimeListFragment
- ☒ They are inner classes of CrimeListFragment

Question 10**1 / 1 pts**

How does data get passed from a current Activity to a new Activity that it starts?

Correct!

- ☒ by using an intent extra (intent.putExtra(key, value))
- ☐ by passing the data in a bundle in the startActivity method (startActivity(bundle))
- ☐ by saving the state in a bundle (onSaveInstanceState(bundle))
- ☐ by using a context attribute (context.setAttribute(key, value)))

Question 11**1 / 1 pts**

When you rotate an Android device, what callbacks are invoked on the current Activity?

- ☐ onPause only
- ☐ none, the activity continues as normal
- ☐ onPause and onStop only
- ☒ onPause, onStop, and onDestroy

Correct!

Question 12

0 / 1 pts

In CriminalIntent, which class gives the database its name?

- ☐ CrimeRepository
- ☐ CriminalIntentApplication
- ☐ Crime
- ☒ CrimeDatabase

Correct Answer

You Answered

Question 13

1 / 1 pts

Which lifecycle method should a fragment use to create an observer for LiveData in the ViewModel?

- ☒ onViewCreated

Correct!

- ☐ onCreate
- ☐ onStart
- ☐ onCreateView

Question 14**1 / 1 pts**

Consider the following line of code inside of a fragment that uses a recycler view.

```
binding.myRecyclerView.layoutManager = LinearLayoutManager(context)
```

What does "myRecyclerView" refer to?

Correct!

- ☒ The view with ID "my_recycler_view" inside the fragment's layout
- ☐ The view with ID "myRecyclerView" inside the fragment's layout
- ☐ The view field "myRecyclerView" inside the fragment
- ☐ The view field "myRecyclerView" inside the recycler-view's adapter

Question 15**0 / 1 pts**

The only SQL commands permitted as parameters to a @Query annotation are query commands (SQL "SELECT" statements)

You Answered

- ☒ True

Correct Answer

- ☐ False

Question 16**1 / 1 pts**

Consider the following variable and its initialization in CrimeDetailViewModel:

```
var crimeLiveData: LiveData<Crime?> =  
    Transformations.switchMap(crimeIdLiveData) { crimeId ->  
        crimeRepository.getCrime(crimeId)  
    }
```

What is the type of crimeIdLiveData?

☐ MutableLiveData<Crime?>

☒ MutableLiveData<UUID>

☐ onPauseLiveData<UUID>

☐ LiveData<Crime?>

Correct!**Question 17****1 / 1 pts**

By convention, most fragments have this method in their companion object.

☒ newInstance

☐ newIntent

☐ onCreateView

☐ updateUI

Correct!

Question 18**1 / 1 pts**

Which of the following is NOT a responsibility of an Adapter in RecyclerView?

- ☐ creating ViewHolders
- ☐ reporting the number of list items
- ☐ binding a ViewHolder to data from the model
- ☒ displaying a list of Views in the UI

Correct!**Question 19****1 / 1 pts**

What attribute would you use for a LinearLayout that required two buttons next to each other (a left button and a right button)?

- ☐ android:orientation="width"
- ☐ android:orientation="vertical"
- ☐ android:orientation="height"
- ☒ android:orientation="horizontal"

Correct!**Question 20****1 / 1 pts**

CrimeRepository is a singleton class.

Correct!

☒ True

☐ False

Quiz Score: **16** out of 20