### **Midterm Module B**

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

**Questions** 20

### 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	Attempt 1	29 minutes	17 out of 20

Score for this quiz: **17** out of 20 Submitted Mar 19 at 7:11pm This attempt took 29 minutes.

Question 1 1 / 1 pts

The criminal intent application that we have looked at so far uses a hosting activity and two fragments (a list-view and a detail-view). Since the hosting activity never holds more than one fragment, can we code the application using two activities (a list-view and a detail-view) instead of two fragments?

No, activities cannot observe live-data - we need a fragment for that

### Correct!



Yes, provided we use intent extras to pass data between activities instead of fragment arguments

No, activities cannot use a recycler vi	ew - we need a fragment for that
Yes, but in addition to the list-view and do hosting activity (so 3 activities total)	etail-view activities, we still need a

# Hardcoding text in Android makes localization (adapting your software to different languages) more difficult. Instead, you should place your text in this file: Correct! Strings.xml local.xml text.xml

	Question 3	0 / 1 pts
	Uninstalling an app deletes its database.	
orrect Answer	True	
ou Answered	False	

	Question 4	1 / 1 pts
	What are the four main layers in an application with a Room Libratop to bottom?	ary from
	Fragment / LiveData / DAO / Entity	
Correct!	UI Controller / ViewModel / Repository / Database	
	Application / ViewModel / Database / Repository	
	O ViewModel / Repository / DAO / Database	

# In an application with two activities, which lifecycle functions (at a minimum) must be invoked when switching from one screen (Activity A) to another (Activity B). Correct! onPause of Activity A and onResume of Activity B onPause of Activity A and onStart of Activity B onPause of Activity A

### Question 6 1 / 1 pts

What is one of the differences between using view-bindings in an Activity and using view-bindings in a fragment?

	○ There is no difference
Correct!	Fragment binding uses an extra variable, _binding, which is null before the fragment's view is created and after the view is destroyed
	The fragment binding is initialized in the view-model, rather than in the fragment itself
	Fragment binding uses the layout of the hosting activity, rather than using its own (fragment) layout

	Question 7	1 / 1 pts
	Which folder contains the database for BNR's CriminalIntent app	?
Correct!	/data/data/com.bignerdranch.android.criminalintent/databases	
	/apps/com.bignerdranch.android.criminalintent/databases	
	○ /apps/data/criminalintent	
	/databases/com.bignerdranch.android.criminalintent	

### Question 8 0 / 1 pts

In the CriminalIntent application from BNR, which class calls the onCrimeSelected function from the Callbacks interface?

### Du Answered CrimeHolder CrimeListFragment CrimeFragment MainActivity

# When using constraint layout, suppose you see the following code inside of a view object app:layout\_constraintTop\_toBottomOf=... What should you expect to see on right side of the equals sign? (Hint: "Top" and "Bottom" are relevant to this question) parent The ID of the current view object wrap\_content

### How do you add an ID to a button in a layout file? android:text="@string/my\_button"

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android:id="@+id/my_button"
android:id="@string/my_button"
○ android:id="my_button"

1 pts
et of

the following is NO		t LiveDa	ata objects	s?
n set up your Activity	or [rooms-t			
ill be notified when re	_		rve a LiveDa	ata object (so
n pass LiveData to th	e database tl	hrough ir	nsert and up	pdate
	an pass LiveData to th	·		an pass LiveData to the database through insert and u

ou Answered

You can configure queries in your Room DAO to return LiveData objects

LiveData objects enable passing data between threads

# This file lists module dependencies and is used by Android's build tool Application (ex: CriminalIntentApplication) AndroidManifest.xml Repository (ex: CrimeRepository) build.gradle

Question 14	1 / 1 pts
What Activity lifecycle function is used for inflating widgets and them on screen, getting references to inflated widgets, and sor setting listeners on widgets to handle user interaction?	
○ onCreateView	
onResume	
○ onStart	
onCreate	

Correct!

# Which of the following lifecycle functions does a Fragment have but an Activity does NOT have? onCreateView onStop onShutdown

### Question 16 In Android's MVC architecture, an Activity is a kind of controller. True False

	When will getCrime be called?
	every time the variable crimeLiveData is accessed
	when the variable crimeLiveData is first accessed
Correct!	when the value in crimeIdLiveData changes
	when the variable crimeIdLiveData is first accessed

# In the CriminalIntent application from BNR, which of the following classes takes an argument of type List<Crime> in its constructor? CrimeListFragment RecyclerView CrimeHolder CrimeAdapter

	Question 19	1 / 1 pts
	What does a Bundle object contain?	
	Activity preferences	
Correct!	key-value pairs	
	a list of String objects	

	Question 20	1 / 1 pts
	RecyclerView requires a LayoutManager to work.	
Correct!	True	
	False	

application settings

Quiz Score: 17 out of 20