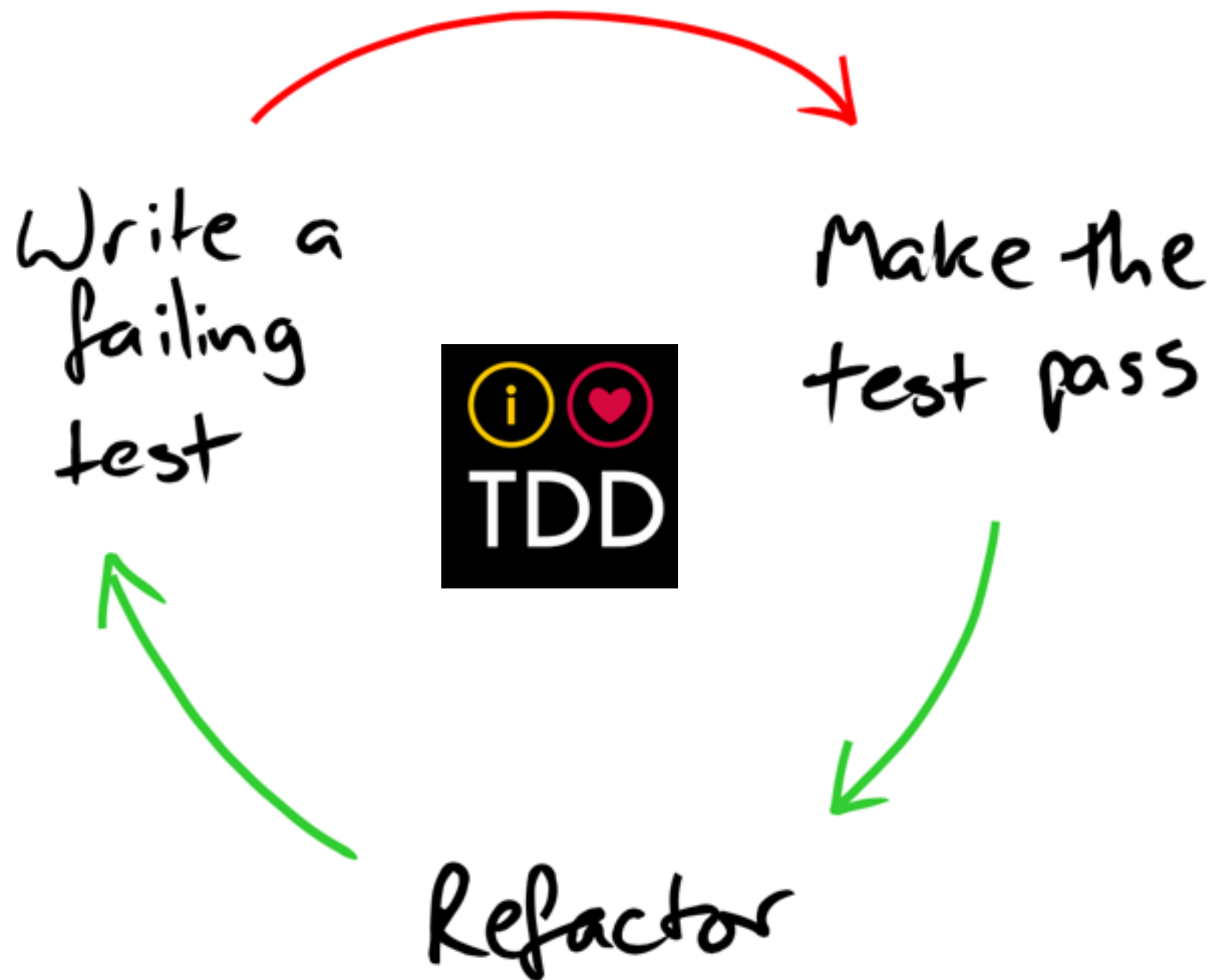


UNIT TESTING



Step for unit testing

Create android project

Add **jUnit** library

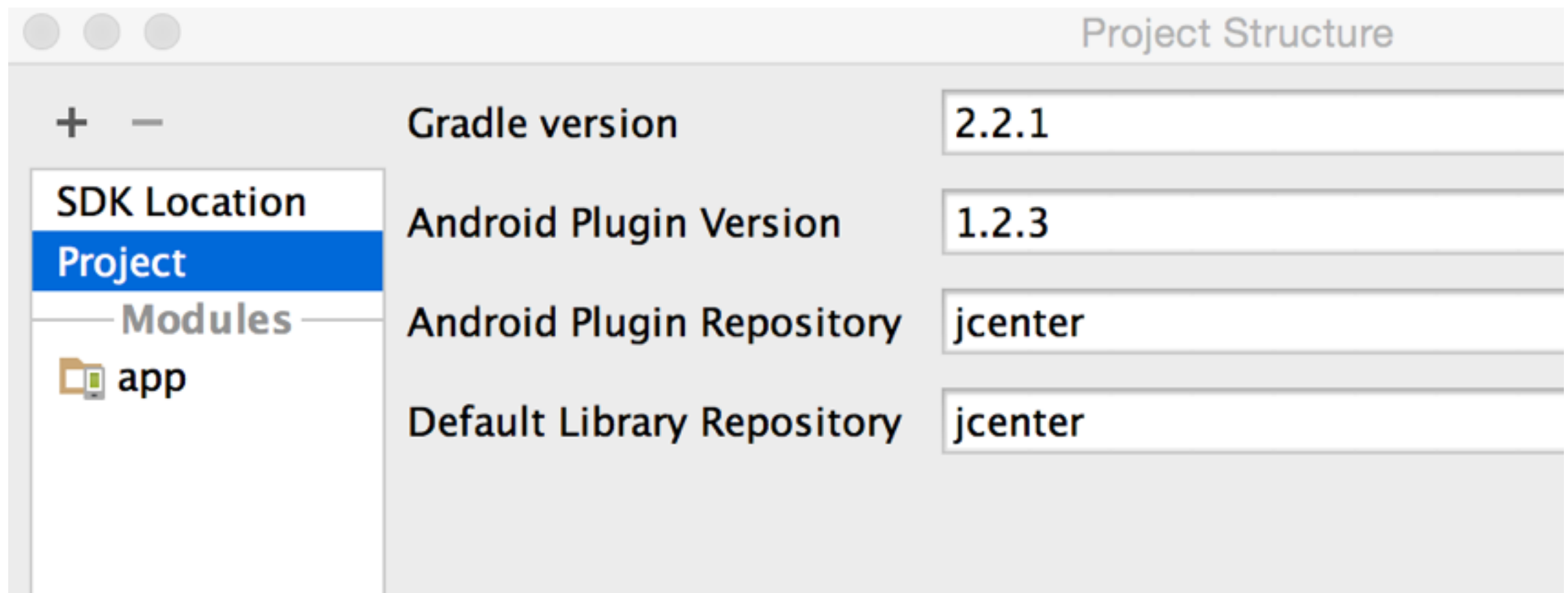
Create test structure + test case

Run test

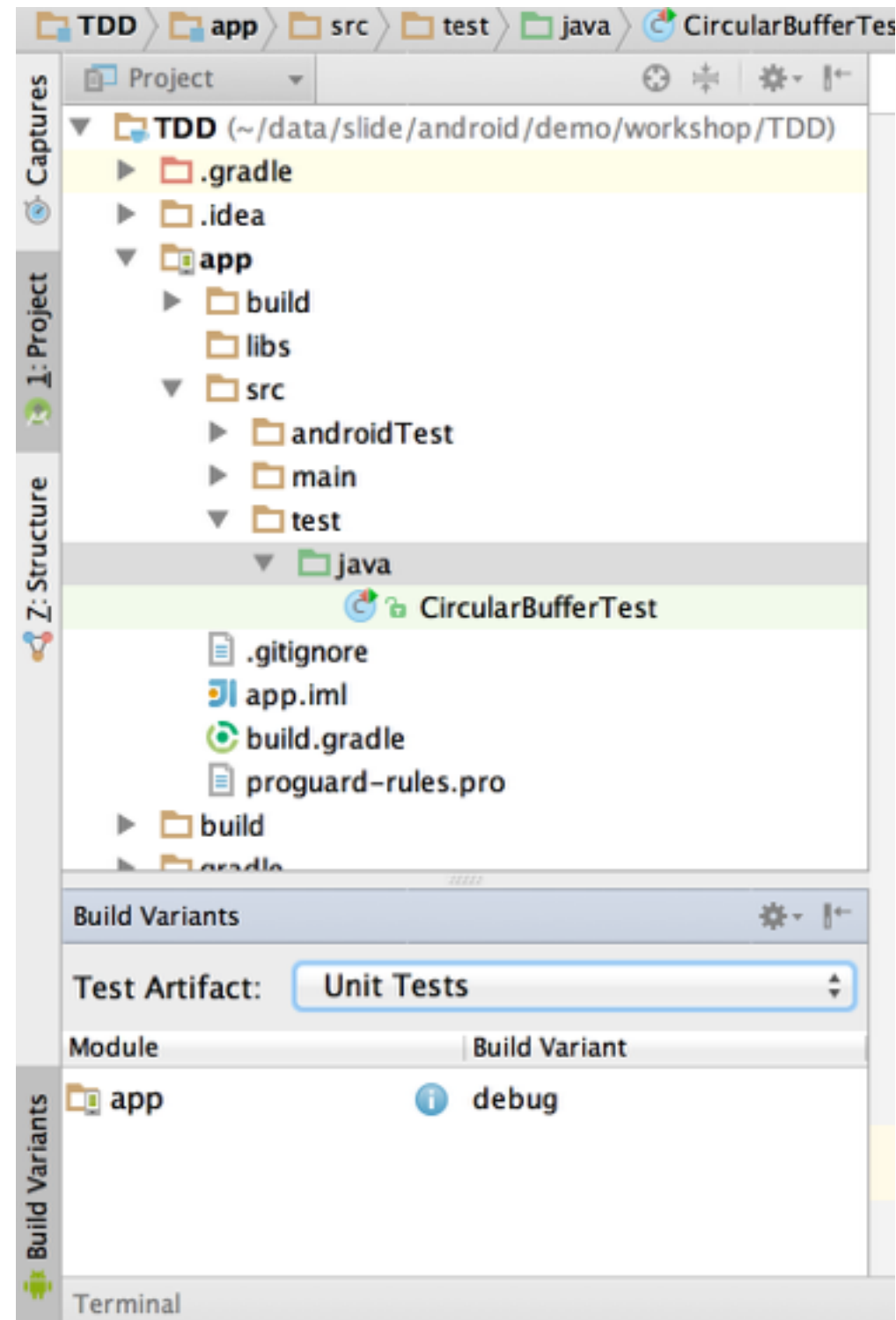
See result

Create android project

Project properties



Test artifact -> Unit tests

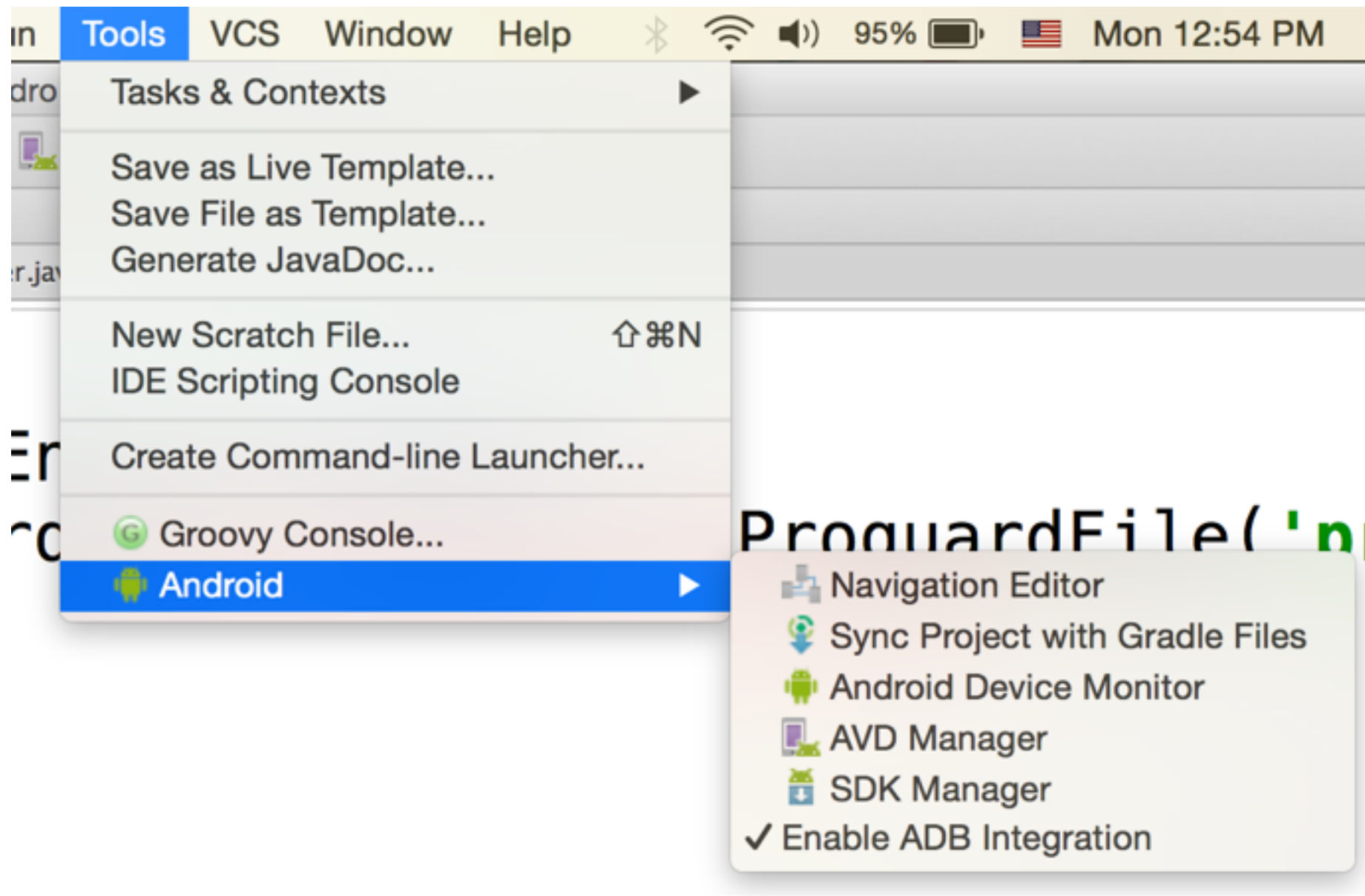


Add junit library

/app/build.gradle

```
dependencies {  
    ...  
    testCompile 'junit:junit:4.+'  
}
```

Sync project with grade file

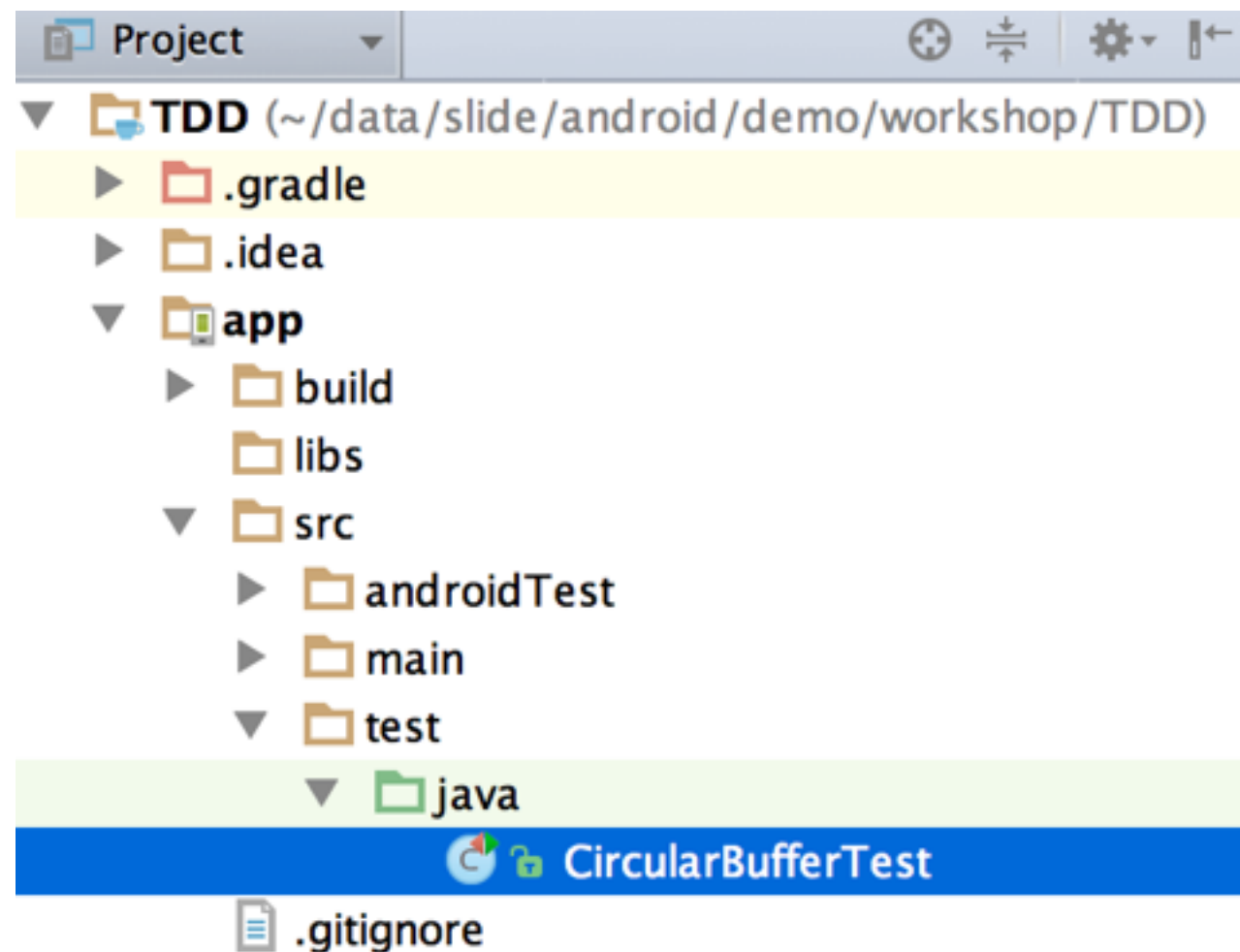


Create test structure

/app/src/**test**

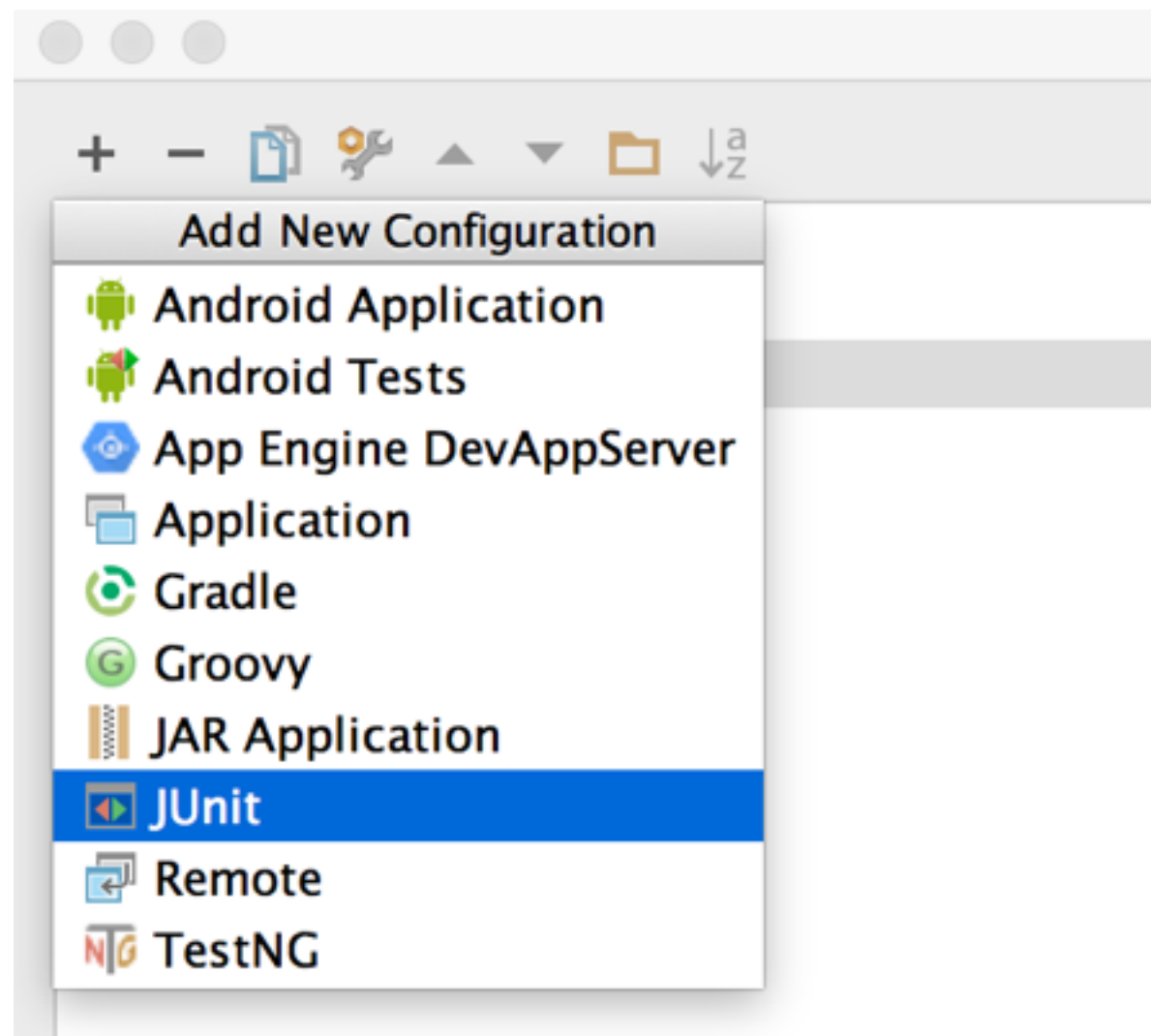
/app/src/test/**java**

/app/src/test/java/**CircularBufferTest.java**



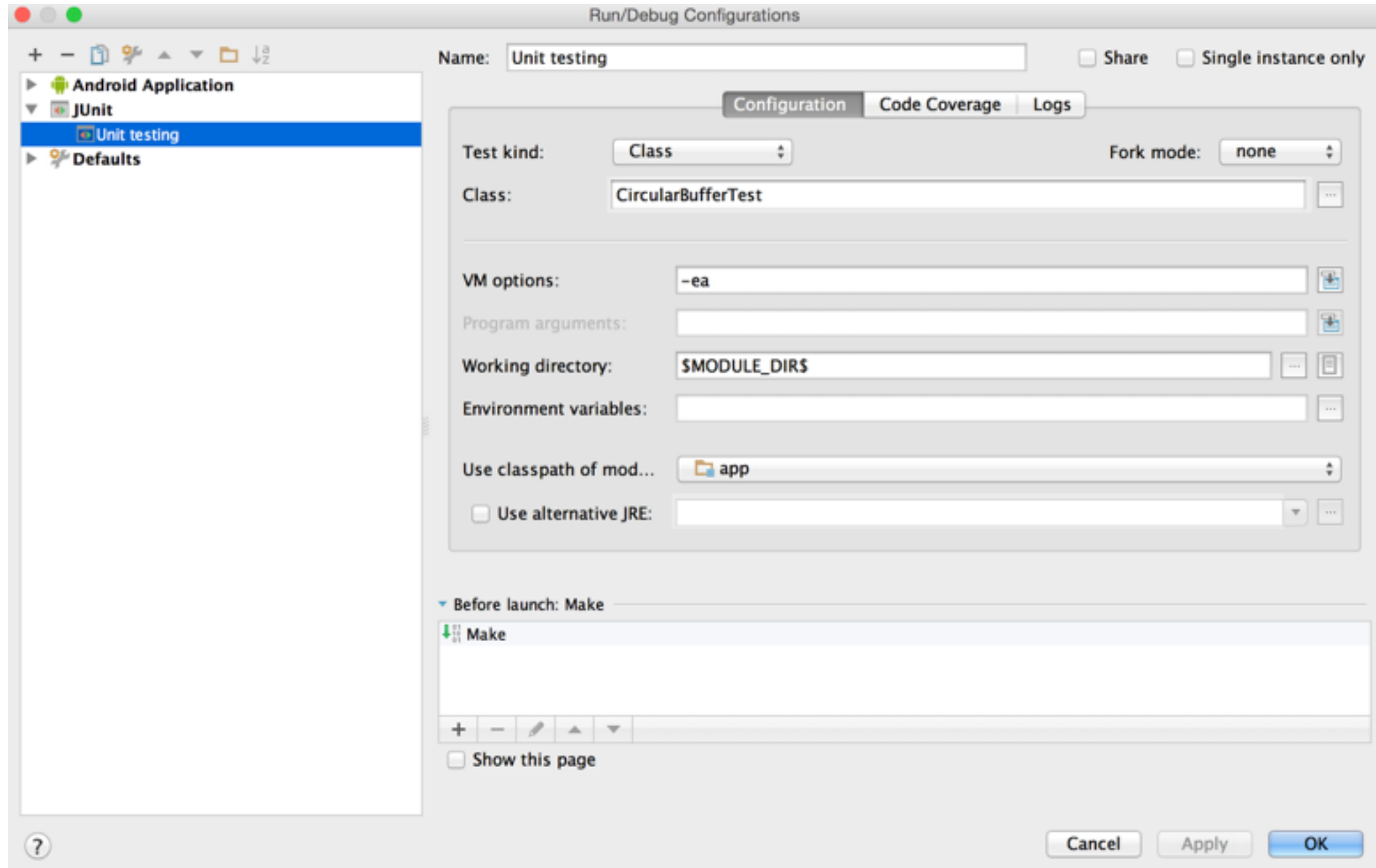
Run test

Run -> Edit configuration
Add unit test



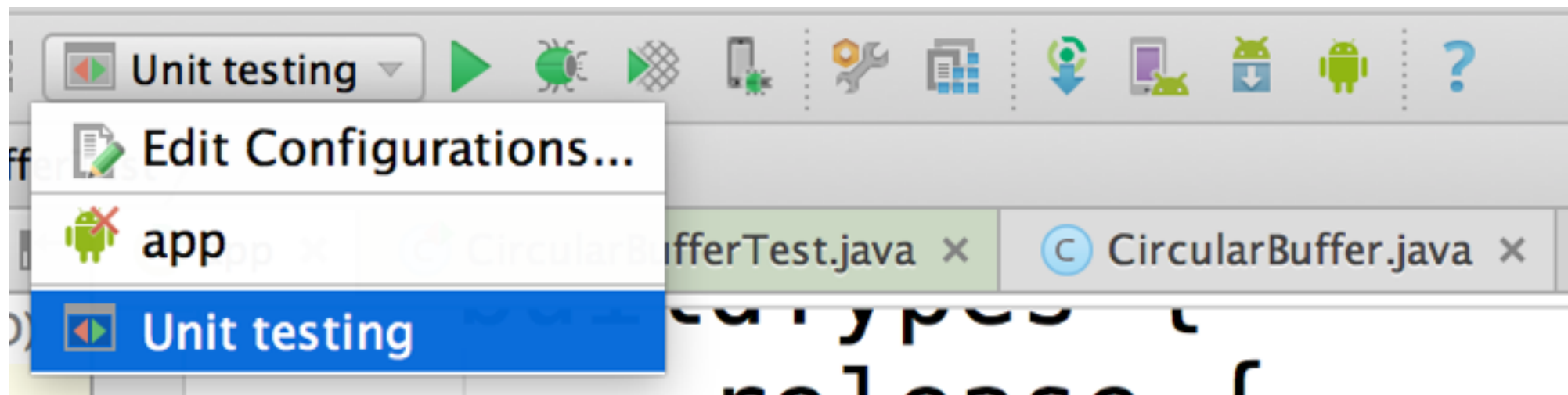
Run test

Configuration of unit test



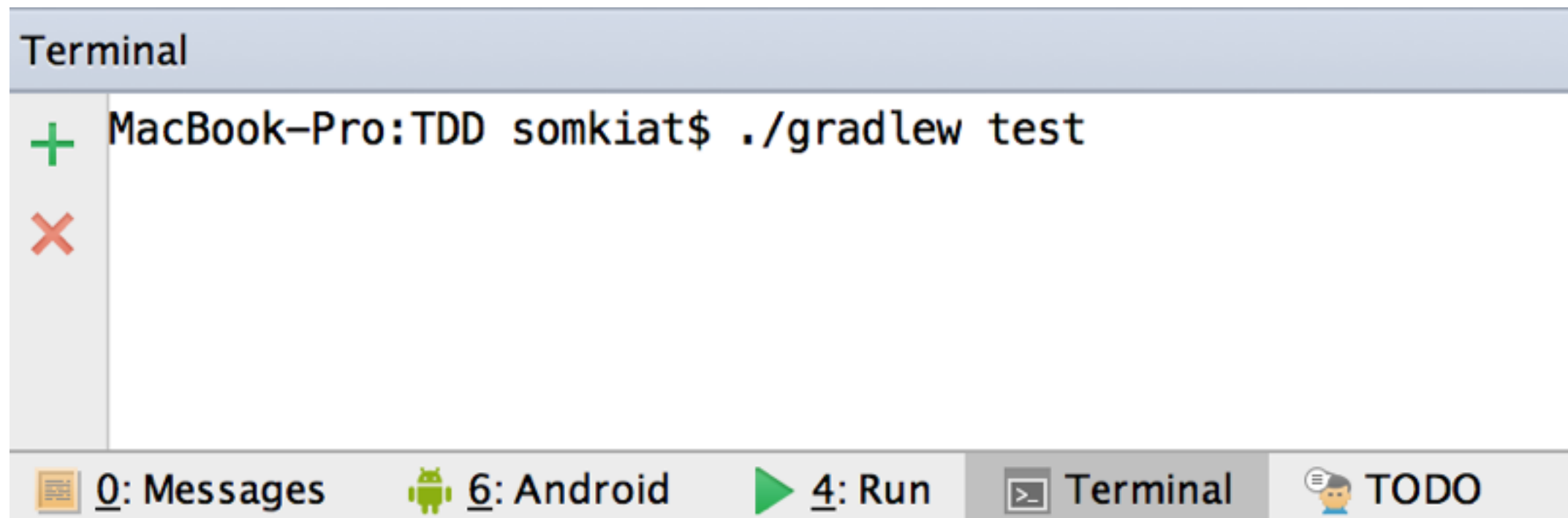
Run test

Let's run Unit test from tool



Run test from terminal

`./gradlew test`



See report

In folder app/build/reports/tests/

Class CircularBufferTest

all > default-package > CircularBufferTest

2

tests

0

failures

0

ignored

0.001s

duration

100%

successful

Tests

Test	Duration	Result
add_one_element_then_buffer_not_empty	0.001s	passed
create_buffer_then_buffer_empty	0s	passed

Test cases ?

Empty buffer ?

Full buffer ?

Add an element

Add more elements

Set size of buffer

Random operation

Overflow

Underflow

Try it by yourself