

# Writing More Complex Tests

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# Module Overview



**Expand knowledge of assertions**

**Control test execution**

**Test exceptions**

**Customize test result reporting**

**Run groups of tests**



# Demo



## Applying data assertions



# Demo



## Setting up and tearing down tests



```
class MyTest {  
  
    @BeforeAll  
    static void initAll() {. . .}  
  
    @BeforeEach  
    void init() {. . .}  
  
    @Test  
    void test1() {. . .}  
  
    @Test  
    void test2() {. . .}  
  
    @AfterEach  
    void tearDown(. . .) { }  
  
    @AfterAll  
    static void tearDownAll() {. . .}  
  
}
```

- ◀ initAll executes
  - ◀ - init executes
  - ◀ - test1 executes
  - ◀ - tearDown executes
- ◀ - init executes
- ◀ - test2 executes
- ◀ - tearDown executes
- ◀ tearDownAll executes



# Demo



## Testing exceptions



# Demo



## Customizing test messages and reporting



# Demo



## Controlling test method execution





# Demo



## Running groups of tests



# Module Summary



Applied new assertions to tests of sample system

Used JUnit lifecycle methods to save code in your tests

Tested exceptions thrown when needed

Improved test result reporting

Learned how to disable tests and run groups of tests

