

Writing Empirical Tests

We'll cover the following ^

- Empirical tests
- Testing for methods

Empirical tests

Empirical tests are common in unit testing—you call a method and verify that it did what you expected. Such tests help us to verify that, as code evolves, the expectations are still met and the code continues to work as intended.

Empirical tests are useful for functions and methods that are deterministic and don't have any dependencies that hold state. We'll create a few empirical tests for the `Airport` class now.

First, let's create some properties in the test suite using the yet-to-be-written `Airport` class. For this, within the `AirportTest` class, let's define a few sample properties before the `init()` function:

```
// AirportTest.kt
val iah = Airport("IAH", "Houston", true)
val iad = Airport("IAD", "Dulles", false)
val ord = Airport("ORD", "Chicago O'Hare", true)
```

We can write a new test, right after the canary test, to exercise the properties of `Airport`, like so:

```
"create Airport" {
    iah.code shouldBe "IAH"
    iad.name shouldBe "Dulles"
    ord.delay shouldBe true
}
```

AirportTest.kt

Try running the build, and you'll notice it fails because the `Airport` class doesn't

By running the tests, and you'll notice it fails because the `Airport` class doesn't exist yet. Let's define the `Airport` class, in the file `Airport.kt`, under the directory

`src/main/kotlin/com/agiledeveloper/airportstatus`:

```
// Airport.kt
package com.agiledeveloper.airportstatus

data class Airport(val code: String, val name: String, val delay: Boolean)
```

We defined the `Airport` class as a `data class` with three properties. No further code is needed for the class at this time. Run the build and verify that it passes.

Testing for methods

The previous test was trivial, but it helped us to get the properties in place. Let's write a test for a `sort()` method that will take a list of airports and return them sorted by their names.

When driving the design of code using tests, we use the first few tests to help define the interface of methods and then a few more tests to bring in the necessary implementation. In that spirit, let's start with a small test that passes an empty list to the `sort()` method and expects an empty list as the result:

```
// AirportTest.kt
"sort empty list should return an empty list" {
    Airport.sort(listOf<Airport>()) shouldBe listOf<Airport>()
}
```

This test will fail since the `sort()` method doesn't exist in the `Airport` class. Let's create that method now. In the test, we invoked the `sort()` method directly on `Airport`, instead of on an instance of `Airport`. Thus, `sort()` has to be a method in a companion object of `Airport`, like so:

```
data class Airport(val code: String, val name: String, val delay: Boolean) {
    companion object {
        fun sort(airports: List<Airport>) : List<Airport> {
            return airports
        }
    }
}
```

Airport.kt

To satisfy the new test, which passes in an empty list to `sort()`, we merely have to

to satisfy the new test, which passes in an empty list to `sort()`, we merely have to return the given list—that's exactly what we did in `sort()`, in the spirit of writing the minimum code to make the tests pass. Run the build, and verify that all three tests we have so far pass.

This test helped us to focus on the method name, the parameter type, and the return type; that is, it drove the design of the method signature. Let's write another test for the `sort()` method, this time passing in a list with one element.

```
// AirportTest.kt
"sort list with one Airport should return the given Airport" {
    Airport.sort(listOf(iad)) shouldBe listOf(iad)
}
```

After writing this test, run the build. All tests, including the new one, should pass. That tells us that the current implementation suffices for the tests we have in place so far.

Next let's write a test that takes two airports, but already in sorted order:

```
// AirportTest.kt
"sort pre-sorted list should return the given list" {
    Airport.sort(listOf(iad, iah)) shouldBe listOf(iad, iah)
}
```

There should be no issues with the build passing to run this and all the other tests we wrote previously. It's time to take the leap for the sort to actually have the necessary implementation.

```
// AirportTest.kt
"sort airports should return airports in sorted order of name" {
    Airport.sort(listOf(iah, iad, ord)) shouldBe listOf(ord, iad, iah)
}
```

The output of the `sort()` method should be in sorted order of the airports, based on the name of the airports. If we run the build now the new test will fail. Let's modify the `sort()` function to make all the tests we have so far pass.

```
fun sort(airports: List<Airport>) : List<Airport> {
    return airports.sortedBy { airport -> airport.name }
}
```

Run the build and verify all tests pass. When writing automated tests, we should explore different reasonable edge cases and verify that the code behaves appropriately. As an exercise, write a few more tests for the `sort()` method. For example, what if two airport names start with the same substring? After all, some cities have multiple airports and we want to make sure the sorting works according to the specifications. Tests represent specifications—if our code has to handle edge cases, it's a good practice to express the behavior for such situations in tests first, and then implement the necessary minimum code.

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When developing code using tests, we'll want to verify multiple scenarios or combinations of input to functions. However, if we write one test for each combination, the test file can get long and verbose. This is where data-driven tests come in, to reduce the noise and make tests concise, as we'll see in the next lesson.