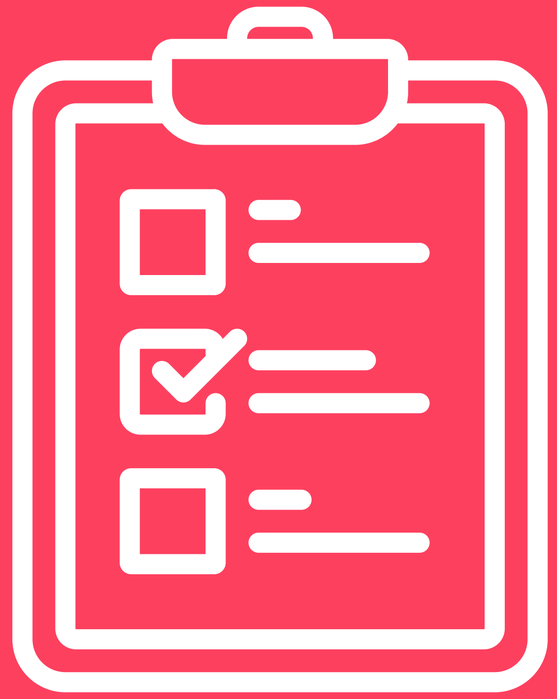
Unit Testing

with RSpec & Rails

W8D1

TOPICS

- TESTING
- TEST-DRIVEN DEVELOPMENT
- CODE COVERAGE
- ENVIRONMENTS
- WRITING TESTS



Learning to test.

Unit
Feature
End-to-End
Integration
A/B
Regression
Acceptance

Unit Testing

Feature

End-to-End

Integration

A/B

Regression

Acceptance

Unit

Feature Testing

End-to-End Testing

Integration Testing

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Unit

Feature

End-to-End

Integration

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Acceptance Testing

TDD Test-Driven Deveopment

“Clean code that works.”

TDD RULES

THE RULES FOR TDD

TDD RULES

Write new code only if an automated test fails

Eliminate duplication

TDD RULES

Write new code only if an automated test fails

Eliminate duplication

RED

GREEN

REFACTOR

RED/GREEN/REFACTOR

Write a failing test.

RED/GREEN/REFACTOR

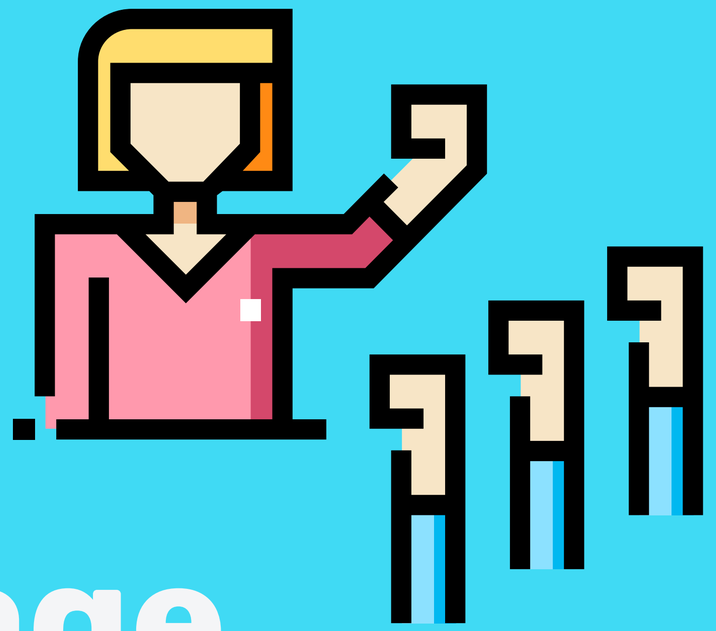
Write the minimum code to make the test pass.

RED/GREEN/REFACTOR

Improve the code, ensuring that all tests still pass.

WHEN FEAR RULES

Tentative.
Reduced communication.
Avoid feedback.



Encourage courage.

What is BDD?

```
Feature: Is it Friday yet?
  Everybody wants to know when it's Friday

  Scenario: Sunday isn't Friday
    Given today is Sunday
    When I ask whether it's Friday yet
    Then I should be told "Nope"
```

100%

CODECOVERAGE

ENVIRONMENTS

DEVELOPMENT
PRODUCTION
TEST

Questions