TEST - DRIVEN DEVELOPMENT

REFACTOR
- REMOVE DUPLICATION IN CODE & TESTS
- RENAME & CLEAN UP
- RUN THE TESTS & STAY GREEN
- CHANGE IMPLEMENTATION, NOT BEHAVIOUR
- RESTRUCTURE IN TINY STEPS
- APPLY THE FOUR RULES OF SIMPLE DESIGN

RED
- WRITE A TEST
- MAKE IT FAIL
- KEEP IT SIMPLE
- TESTS ARE EXAMPLE CODE
- TESTS ARE TECHNICAL DOCUMENTATION

GREEN
- GET TO GREEN FAST
- TAKE BABY STEPS
- STUCK? UNDO AND START OVER
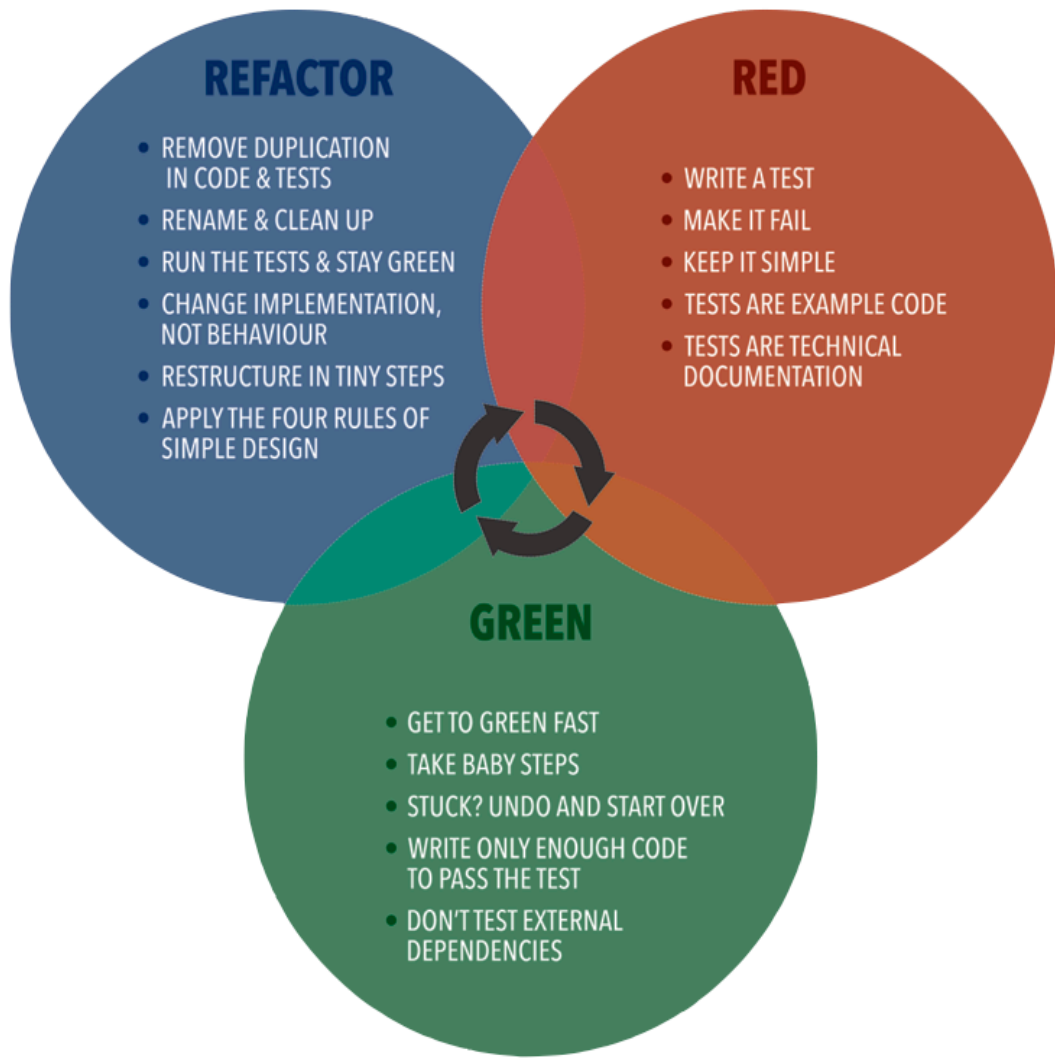- WRITE ONLY ENOUGH CODE TO PASS THE TEST
- DON'T TEST EXTERNAL DEPENDENCIES

4 RULES OF SIMPLE DESIGN
RUNS ALL TESTS
CLEAR, EXPRESSIVE AND CONSISTENT
NO DUPLICATIONS
SMALL AND SIMPLE CODE

TEST-FIRST DEVELOPMENT
ENSURES TESTABILITY
EVERY FEATURE HAS A TEST
BETTER REQUIREMENTS UNDERSTANDING
EXECUTABLE SPECIFICATION

Game of Life: RULES

Living cell with **less than two** live neighbors dies.

Living cell with **two or three** live neighbors lives.

Living cell with **more than three** live neighbors dies.

Dead cell with **exactly three** live neighbors comes alive.

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