

Test-Driven Development

Benefits

- Debugging cost is significantly reduced
- The tests are perfect kind of documentation for programmers
- Fun: make development a chain of small challenges and successes
- Completeness: force a mindset change while designing the code structure i.e., everything should be testable
- Design technique: testability is a synonym for **decoupling**
- Give courage to keep the code clean and orderly
- Code coverage should not be a management metric.

Refactoring

Improve code, without changing behavior

- The Red/Green/Refactor cycle
 - First, we create a test that fails.
 - Then we make the test pass.
 - Then we clean up the code.
 - Return to step 1.
- Work first, then clean it up
- Continuous process, one small step at a time

