

Employability Delivered

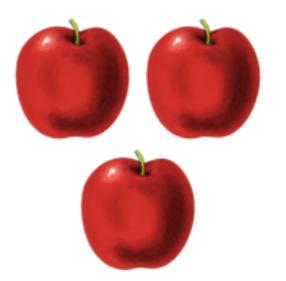
Quantity Measurement TDD Problem

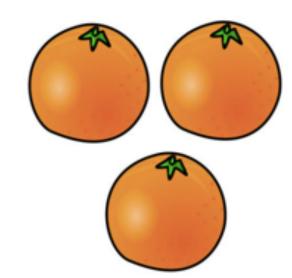
Emphasis on

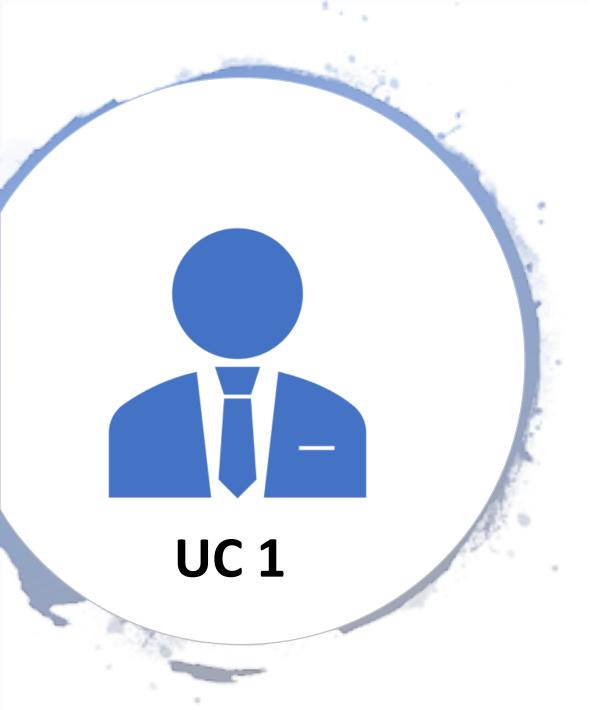
Rules

- Start with Welcome message in the Main Branch
- Every Use case should have its own commit
- Every Test Case should have its own Commit
- Every Refactor also should have its own commit
- Follow Follow Programming Hygiene with proper and consistent naming and indentation convention
- Follow DRY principle and Refactor Code

Quantity Measurement Problem 3!=3





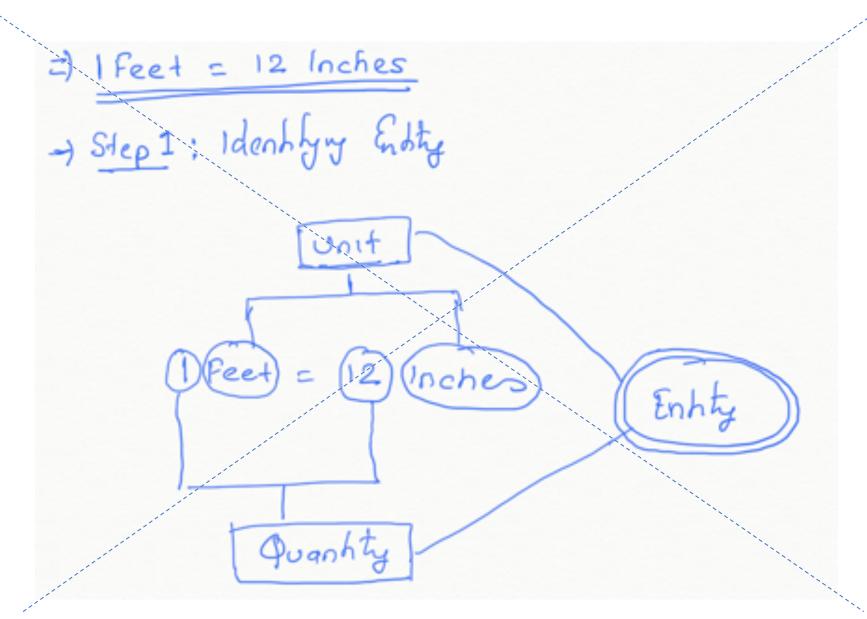


As a math student, I wish to compare lengths

1ft = 12in

Quantity Measurement – Equal Lengths





DDT Vs TDD

Design Development & Test way of thinking starts with identifying Entities is opposite of TDD.

Lets Restart

What is TDD???

- Three Laws of TDD
 - You aren't allowed to write any production code until you have written a failing unit test
 - You aren't allowed to write more of a unit test than it is sufficient to fail.
 And not compiling is failing.
 - You aren't allowed to write more production code than is sufficient to pass the currently failing unit test.

Simplest Test Case





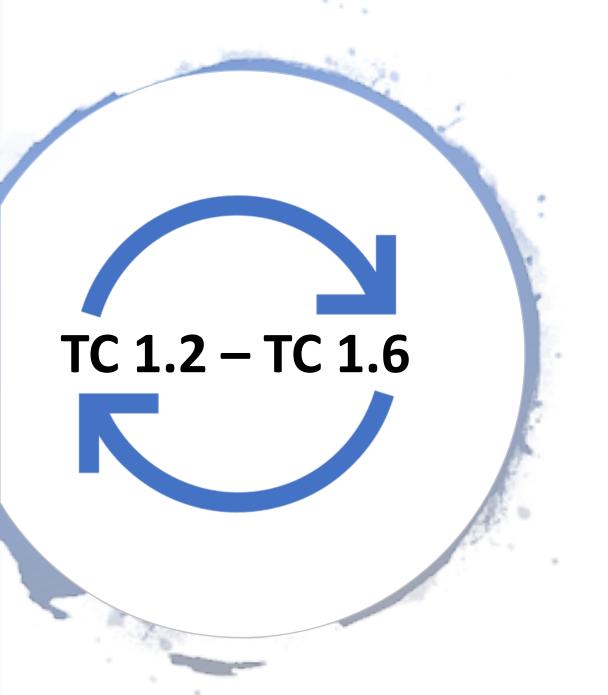
Given 0 Feet and 0 Feet Should Return equal

Compare vs Equality Check

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Note: Compare Vs Equal

Less Equal more True Palse
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- =) Goal is Equality check hence coill use or overvide equals method.
- =) Rules for equals method Public boolean equals (Object obj) { 11 NoII Check if cobj == non) 1/ Reference chech if Cobj == this) 11 Type Chech if (Obj.get Classe) == this.getchsres) ... 11 Equality check,



Perform test for Equality

1: Null Check

2: Ref Check

3: Type Check

4: Value Check for equality

TC 1.7 - 1.12

Perform similar test for Inch

1: Null Check

2: Ref Check

3: Type Check

4: Value Check for equality



Refactor the code as DRY was violated for Feet and Inch with Length and Unit to differentiate

- Note:
- Equality check will have Unit Check
- Refactor Test Cases



Comparison Check Given 0 Feet and 0 Inch Should Return equal

TC 1.14 - 1.16

Perform test cases for comparing length

1: 1 ft != 1 in

2: 1 in != 1 ft

3: 1 ft = 12 in

4: 12 in = 1 ft

TDD Notes



Start the first test typically keeping in mind the single variable and then build on it.



Every Test adds New Constraints



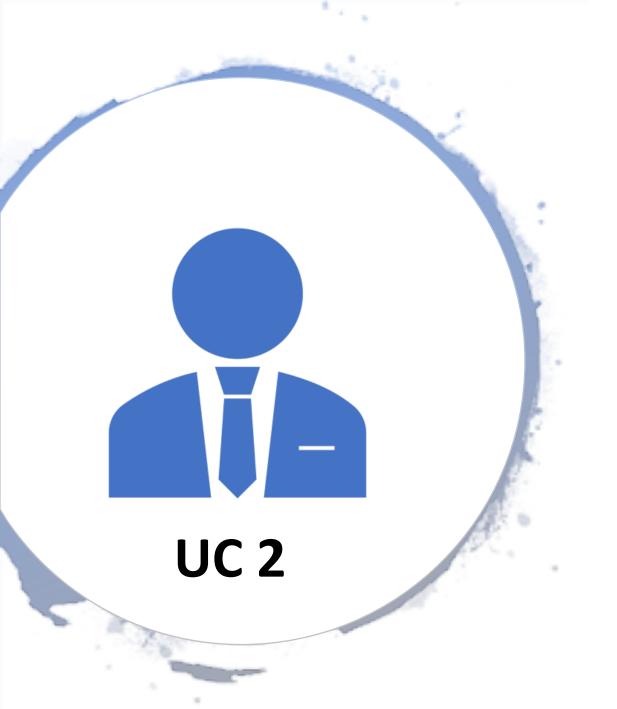
As Test becomes specific code becomes generic.



Refactor code to avoid if else logic or duplication



Refactor Code when ever there is a violation to the Design Principle – DRY or SOLID Principles.



As a math student, I wish to compare lengths

3ft = 1yd

TC 1.14 - 1.16

Perform test cases for comparing length

1: 3ft = 1yd

2: 1 ft != 1 yd

3: 1 in != 1 yd

4: 1 yd = 36 in

5:36 in = 1 yd

6: 1 yd = 3 ft



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Thank You