

Assignment 1 recap

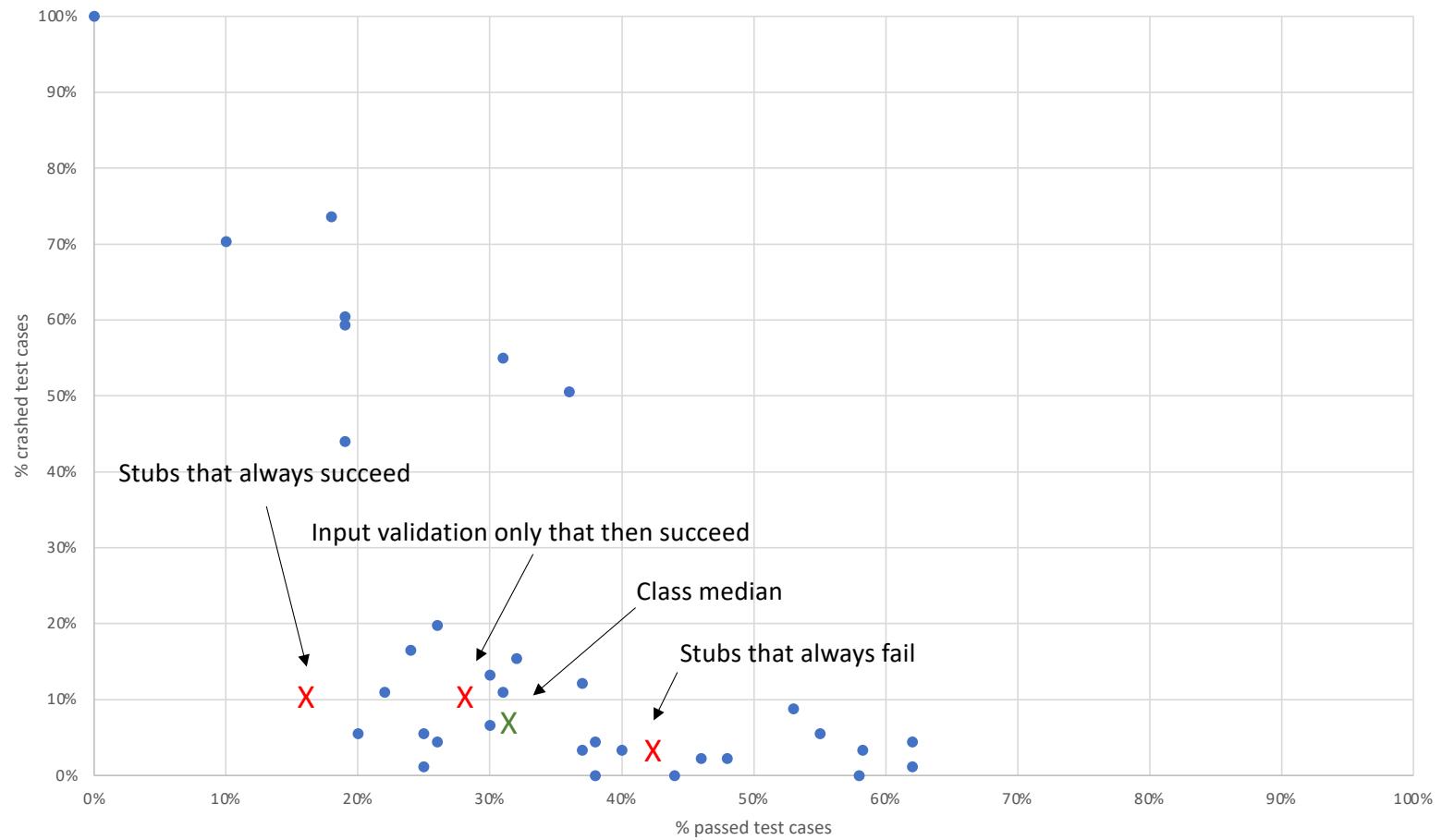
Csci 3901

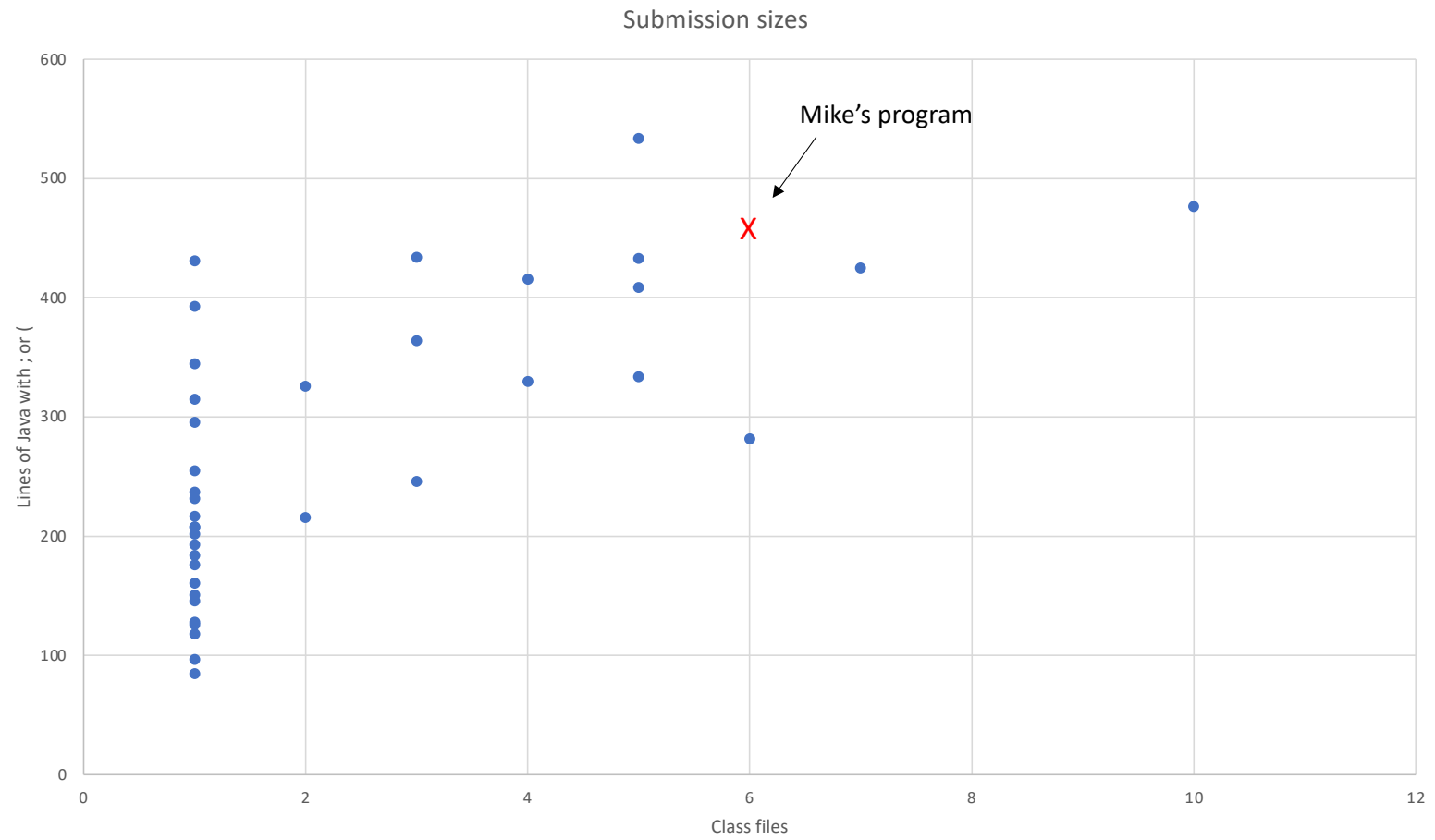
Winter 2023

Assignment 1 observations

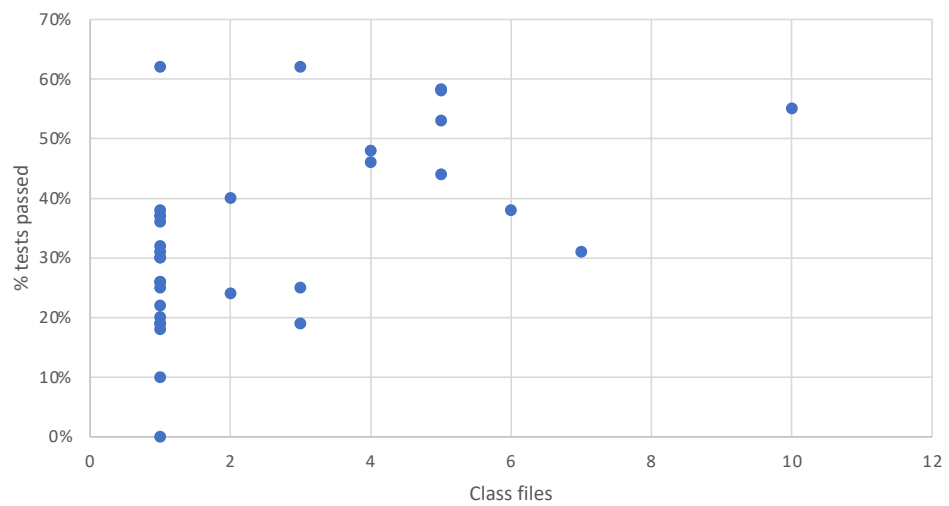
- # submission: 37
- Submissions needing more change than time permits to get working: 4 (11%)
- Submissions changed to compile: 29 (78%)
- Submissions that changed the method signatures (excluding exceptions): 14 (38%)
- Submissions that decided to throw exceptions: 25 (68%)

Assignment 1 test case outcomes
(excludes 4 submissions that need bigger changes to run)

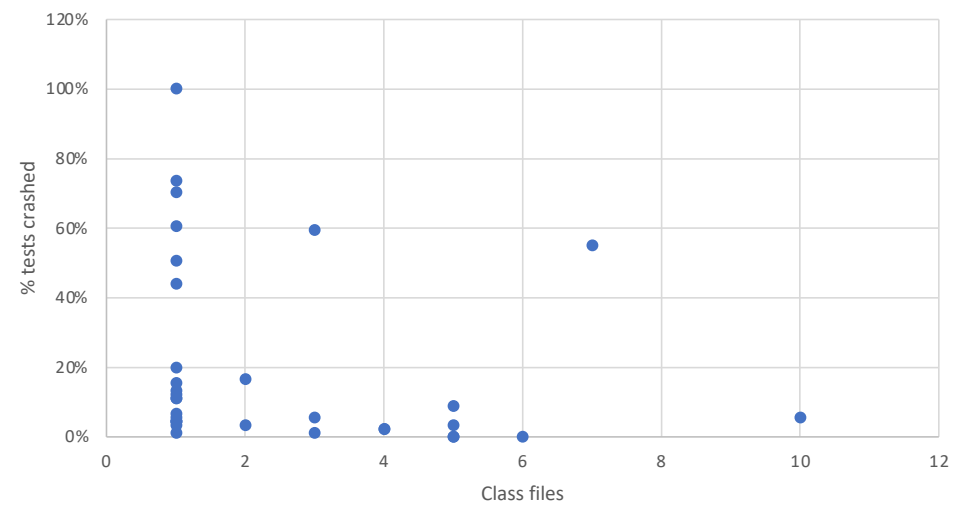




Class vs passed cases



Class vs crashed cases



Assignment characteristics

- Create a class called RecipeBook
- RecipeBook contains recipes and conversion charts
- A recipe has 3 parts: the title, the ingredients, and the instructions
 - The ingredients have 3 parts: the quantity, the units, and the food
- A conversion is bi-directional
- A conversion contains
 - The pair of units converted (from -> to)
 - One or two rounding rules for each target measurement system
 - Pairs of units to convert and their quantities
- Convert() key steps:
 - Given a recipe and target system, identify the conversion rules
 - Use the conversion rules and a scale factor to modify a recipe
 - Ingredients main focus
 - May have instructions to modify

Create a class called RecipeBook



RecipeBook

Create a class called RecipeBook

RecipeBook contains recipes and conversion charts

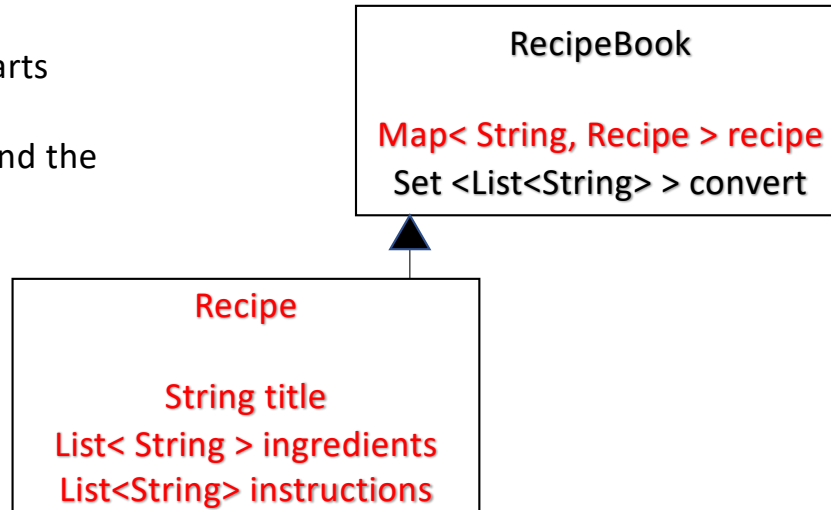
RecipeBook

Set< List<String> > recipe
Set <List<String> > convert

Create a class called RecipeBook

RecipeBook contains recipes and conversion charts

A recipe has 3 parts: the title, the ingredients, and the instructions

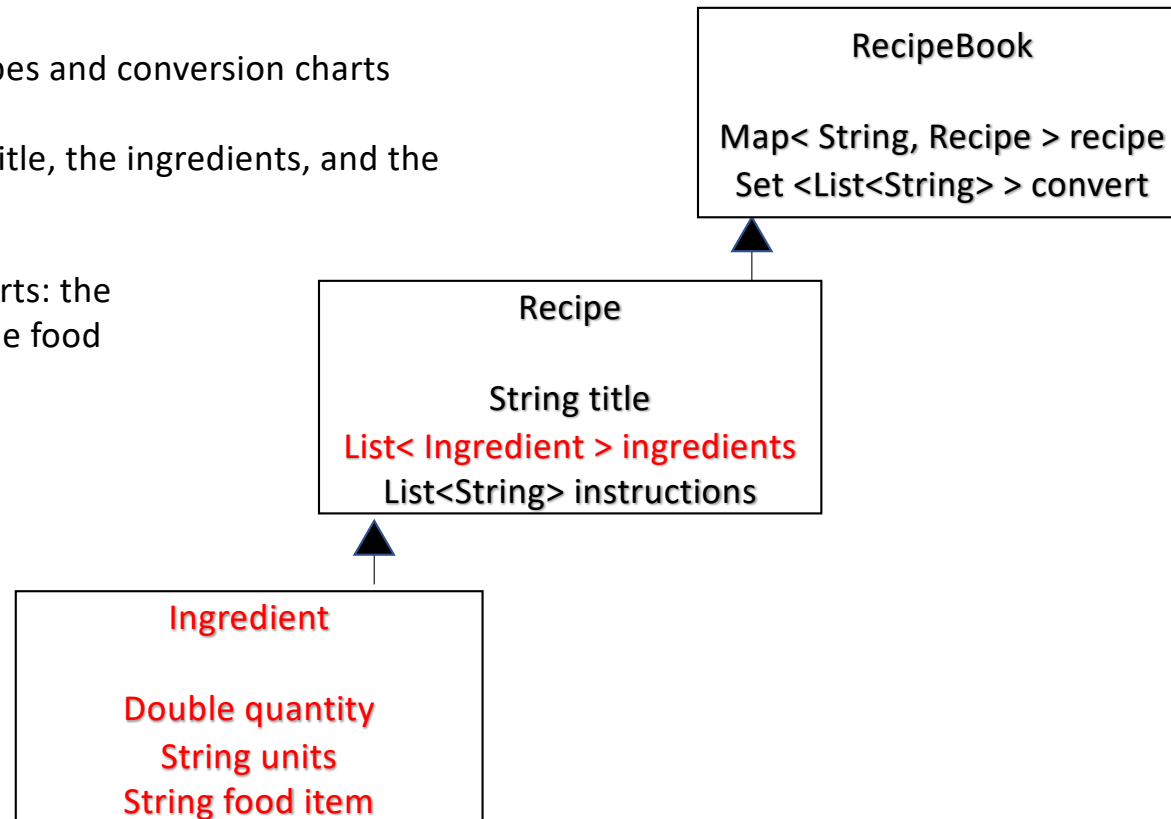


Create a class called RecipeBook

RecipeBook contains recipes and conversion charts

A recipe has 3 parts: the title, the ingredients, and the instructions

The ingredients have 3 parts: the quantity, the units, and the food



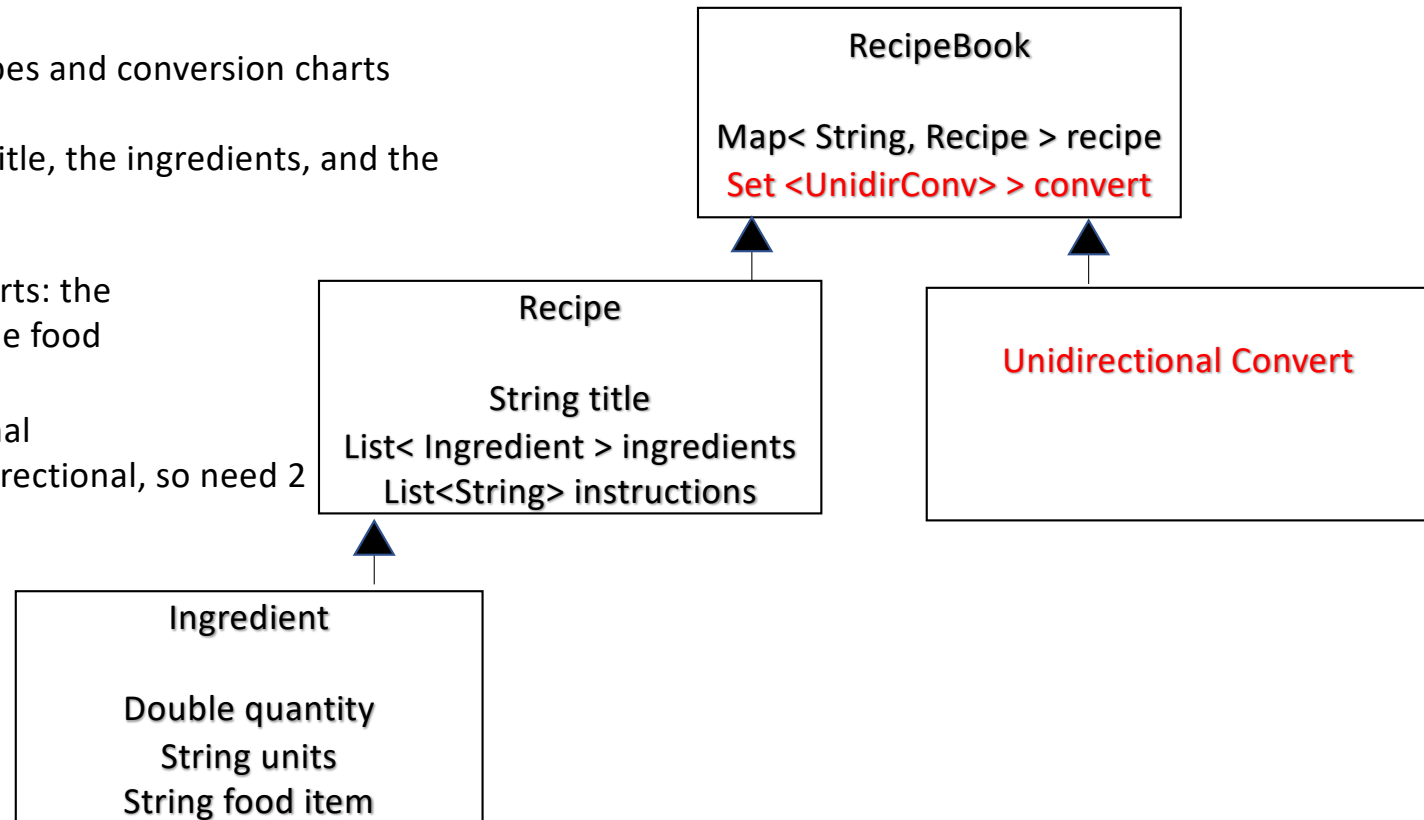
Create a class called RecipeBook

RecipeBook contains recipes and conversion charts

A recipe has 3 parts: the title, the ingredients, and the instructions

The ingredients have 3 parts: the quantity, the units, and the food

A conversion is bi-directional
-- choose to split to uni-directional, so need 2



Create a class called RecipeBook

RecipeBook contains recipes and conversion charts

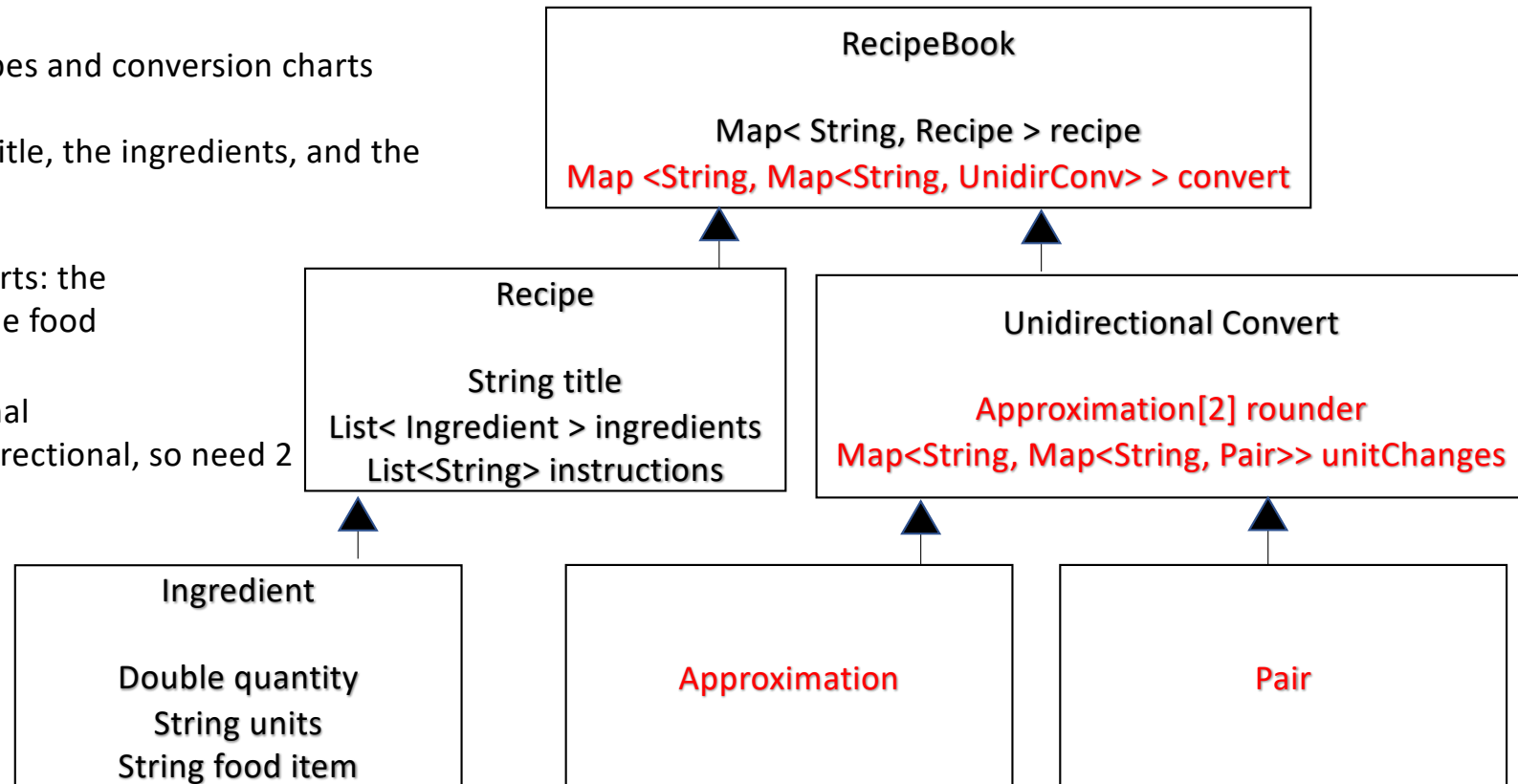
A recipe has 3 parts: the title, the ingredients, and the instructions

The ingredients have 3 parts: the quantity, the units, and the food

A conversion is bi-directional
-- choose to split to uni-directional, so need 2

A conversion contains

The pair of units converted
(from -> to)
One or two rounding rules
for each target
measurement system
Pairs of units to convert and
their quantities



Create a class called RecipeBook

RecipeBook contains recipes and conversion charts

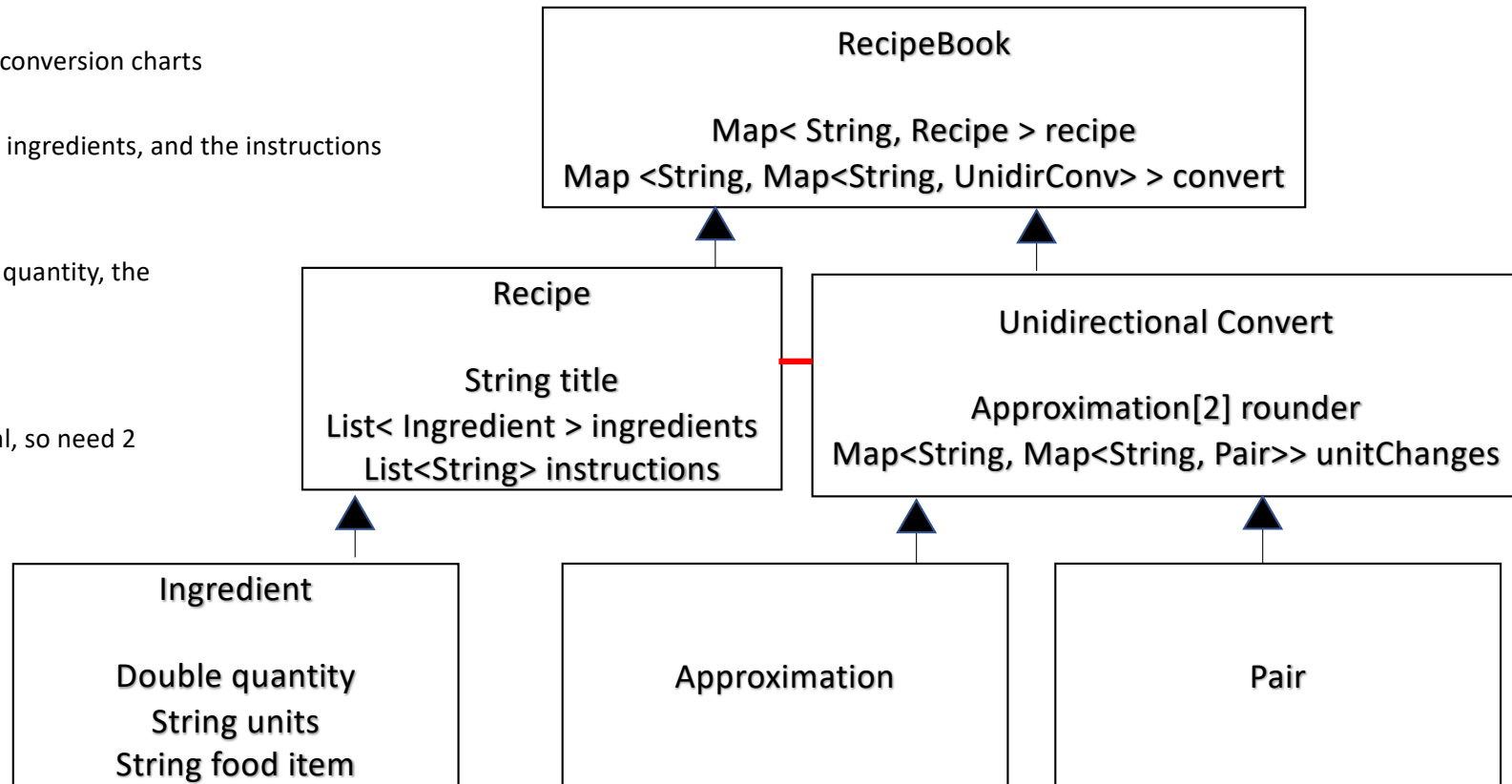
A recipe has 3 parts: the title, the ingredients, and the instructions

The ingredients have 3 parts: the quantity, the units, and the food

A conversion is bi-directional
-- choose to split to uni-directional, so need 2

A conversion contains
The pair of units converted
(from -> to)
One or two rounding rules
for each target
measurement system
Pairs of units to convert and
their quantities

Use the conversion rules and a scale
factor to modify a recipe



Create a class called RecipeBook

RecipeBook contains recipes and conversion charts

A recipe has 3 parts: the title, the ingredients, and the instructions

The ingredients have 3 parts: the quantity, the units, and the food

A conversion is bi-directional
-- choose to split to uni-directional, so need 2

A conversion contains
The pair of units converted
(from -> to)
One or two rounding rules
for each target
measurement system
Pairs of units to convert and
their quantities

Use the conversion rules and a scale
factor to modify a recipe

Clean up the high level Map-Map bit

