

Exercise 1: Drink Mixer



Look at the time!! It's after noon already! Could you please fix us a drink, Don?

At the Sterling-Cooper advertising agency they sure like a drink to keep the creative juices flowing. See several popular cocktails below:

old fashioned



1 oz bourbon
2 dash bitters
1 cherry
1 lime

vodka gimlet



1 oz vodka
1 oz lime juice
1 lime

Manhattan



1 oz bourbon
2 oz vermouth
1 cherry
1 dash bitters

Tom Collins



1 oz gin
2 oz lime juice
2 tsp sugar
1 lime

Use the following calorie table:

bitters	20
vermouth	40
cherry	40
bourbon	80
gin	70
lime	2
vodka	30
sugar	300
lime juice	8

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Assignment1: Draw a UML class diagram for your solution.

Assignment2: Create a software application for Don Draper that allows for easily creating new cocktails. To avoid employees at Sterling Cooper becoming overweight due to excessive drinking: allow him to calculate how many calories are in each cocktail. The system must be easily extendable in the sense that whenever new ingredients are added in the store you will have to add at most one class. The smallest unit of each ingredient is 1 (e.g. 1 oz, 1 tsp etc). Use a liquor as your base class (vermouth is a wine, not a liquor).