# SALES TAXES

Make sure you read **\*\*all\*\*** of this document carefully, and follow the guidelines in it. Pay particular attention to the "What We Care About" section.

## Requirements

Basic sales tax is applicable at a rate of 10% on all goods, except books, food, and medical products that are exempt. Import duty is an additional sales tax applicable on all imported goods at a rate of 5%, with no exemptions.

When I purchase items I receive a receipt that lists the name of all the items and their price (including tax), finishing with the total cost of the items, and the total amounts of sales taxes paid. **The rounding rules for sales tax are that for a tax rate of n%, a shelf price of p contains (np/100 rounded up to the nearest 0.05) amount of sales tax.**

Write an application that prints out the receipt details for these shopping baskets; this application should be written in Ruby [1] and use Rspec [2] to test inputs and the expected outputs. The output should be to standard out or CSV.

Proper object orientated design is important. Each row in the input represents a line item of the receipt.

# INPUT

## Input 1

Quantity, Product, Price

1, book, 12.49

1, music cd, 14.99

1, chocolate bar, 0.85

## Input 2

Quantity, Product, Price

1, imported box of chocolates, 10.00

1, imported bottle of perfume, 47.50

## Input 3

Quantity, Product, Price

1, imported bottle of perfume, 27.99

1, bottle of perfume, 18.99

1, packet of headache pills, 9.75

1, box of imported chocolates, 11.25

# OUTPUT

## Output 1

1, book, 12.49

1, music CD, 16.49

1, chocolate bar, 0.85

Sales Taxes: 1.50

Total: 29.83

## Output 2

1, imported box of chocolates, 10.50

1, imported bottle of perfume, 54.65

Sales Taxes: 7.65

Total: 65.15

## Output 3

1, imported bottle of perfume, 32.19

1, bottle of perfume, 20.89

1, packet of headache pills, 9.75

1, imported box of chocolates, 11.85

Sales Taxes: 6.70

Total: 74.68

# Coding Style

Please follow the guidelines below when developing this project.

- PHP Coding Style Guidelines : http://www.php-fig.org/psr/psr-2/

- Ruby Coding Style Guidelines : https://github.com/styleguide

- RSPEC guidelines: http://net.tutsplus.com/tutorials/ruby/ruby-for-newbies-testing-with-rspec/

# References

[1] http://www.ruby-lang.org

[2] https://www.relishapp.com/rspec/

## Submitting The Test

In your project directory, run:

```

tar -czvf firstname\_lastname.tar.gz .

```

(where *\_firstname\_* and *\_lastname\_* are your names).

Then email the genereated tar.gz file back to the person that sent you the test.

## What We Care About

First, you should write in Ruby, even if you're not strong in it. We don't mind if your Ruby isn't perfect. If you're *\*really\** not comfortable in Ruby, talk to us, and we'll consider letting you use another language.

We're interested in your method and how you approach the problem just as much as we're interested in the end result. We'll go through your code with you afterwards, and you can talk to us about how you tackled it, why you chose the approach you did, etc.

That said, here's what you should aim for with your code:

- Clean, readable, production quality code; would we want to work with your code as part of a bigger codebase?

- Good object modelling and design decisions

- Extensible code; adding features will be another exercise when you come back in person.

- Good use of Ruby idioms

- Solid testing approach *\_(hint - you should write more specs than what has been provided)\_*

- USE GIT! Commit small changes often so we can see your approach, and progress. Include the `.git` directory in the packaged .tar.gz file you send to us. *\_(Actually, if you don't do this, the import script that creates a github pull request from your submitted test for us to review your code breaks, and that's bad mojo to start with)\_*.

We haven't hidden any nasty tricks in the test. Don't overthink it. Just write nice, solid code.