

# Shopping Receipt

## Objective

Write a program to print receipt for a shopping cart including sales tax.

Customers shop from different states of US, and sales tax is applied based on location and product category.

Sales tax = roundup(price \* quantity \* sales tax rate)

Certain product categories are exempt from sales tax (means tax will be 0), and sales tax amount should be rounded up to the nearest 0.05 (e.g. 1.13->1.15, 1.16->1.20, 1.151->1.20)

The interactive UI is not required, at minimum you can implement code method and use parameters as input. or read input value from file.

## Input

The input of the program includes: product name, price, quantity and location of the purchase.

All other information, such as tax rates and product categories, is not part of the input and can be stored/initialized within the program or as part of configuration settings.

## Output

The program should print the list of items customer purchased, including name/qty/price, subtotal, sales tax, and total, by following format of use cases.

## Tax rates

In California (CA), sales tax rate is 9.75%, food is exempt.

In New York (NY), sales tax rate is 8.875%, food and clothing are exempt.

**Please implement the program in your preferred way and language, unit test is a plus.**

**if you use JS, you can either run within html/browser or just run with NodeJS**

### Use case 1:

Input: Location: CA, 1 book at 17.99, 1 potato chips at 3.99

Output

item	price	qty
book	\$17.99	1
potato chips	\$3.99	1
subtotal:		\$21.98
tax:		\$1.80
total:		\$23.78

### Use case 2:

Input: Location: NY, 1 book at 17.99, 3 pencils at 2.99

Output:

item	price	qty
book	\$17.99	1
pencil	\$2.99	3
subtotal:		\$26.96
tax:		\$2.40
total:		\$29.36

### Use case 3

Input: Location: NY, 2 pencils at 2.99, 1 shirt at 29.99

Output:

item	price	qty
pencil	\$2.99	2
shirt	\$29.99	1
subtotal:		\$35.97
tax:		\$0.55
total:		\$36.52