

Sales Taxes Coding Challenge Planning

Item (name, price, taxable, isImport, quantity)
string double boolean boolean int
↓ ↓ ↓ ↓ ↓
name pr taxable import quantity
funcs getName getPrice isTaxable isImport getQuantity
Consts taxRate = .1
 importTax = .05

```
double itemTax()  
    dou tax = 0  
    den t = taxRate  
    if (this.isTaxable == false)  
        t = 0  
    if (this.isImport == true)  
        t = t + 0.05  
    tax = this.getPrice * t  
    return tax
```

```
double getTotal()  
    return itemTax + this.getPrice
```

Cart (items[Item]) Class

Cart() →
Default Construct

Items[]

ArrayList Class,
would be
redundant

funct ~~addItem(item)~~ ~~clearCart()~~

```
double totalTax()  
    double tax = 0;  
    for (this.items[])  
        tax = tax + item.getItemTax()  
    return taxRoundUp(tax)
```

```
double taxRoundUp(double t)  
    return Math.round(t * 20) / 20
```

```
double grandTotal()  
    gtotal = 0  
    for (this.items[])  
        gtotal = gtotal + this.getItemTotal()
```

```

double printReceipt()
for (this.items[i])
    print( item.getQuantity + " " )
    ↓
    print( item.getName + " " )
println( item.getTotal )

println( "Sales Taxes: " + this.totalTax )
println( "Total: " + this.grandTotal )

```

Instructions



Switch

- 1) Import Cart
- 2) Cart File Directory
- 3) Create New Cart
- 4) Process All Carts
- 5) Exit

Text File Format
 Quantity, Name, Price, Taxable, Import,

Ex: 1, 'Book', 10.32, false, 'false',

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