



Duplo clique para  
inserir a logo do  
cliente aqui

## Technical challenge

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## Summary

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## 1. Problem description

As a Cost Manager I need an average in-stock cost calculator for a given item. For example:

Item	Amount	Cost
Memory 64Gb	10	R\$ 10,00
Chipset RX2321	20	R\$ 20,00
Memory 64Gb	50	R\$ 15,00
Display DS21344	100	R\$ 12,00
Chipset RX2321	80	R\$ 25,00

Average cost =  $\text{SUM}(\text{Amount} * \text{Cost}) / \text{SUM}(\text{Amount})$

Memory 64Gb =  $(10 * \text{R\$ } 10,00 + 50 * \text{R\$ } 15,00) / (10 + 50) = \text{R\$ } 14,17$

Chipset RX2321 =  $(20 * \text{R\$ } 20,00 + 80 * \text{R\$ } 25,00) / (80 + 20) = \text{R\$ } 24,00$

Display DS21344 =  $(100 * \text{R\$ } 12,00) / 100 = \text{R\$ } 12,00$

## 2. Challenge

You must build a class called “AverageCostCalculator”.

It might have a method with the following signature:

```
Java
public class AverageCostCalculator {
    public static Map<String, Decimal> calculate(List<InventoryCost> inventoryCosts) {
        // TODO
        return null;
    }
}
```

Considering:

Java

```
public class InventoryCost{  
    public String item;  
    public Integer quantity;  
    public Decimal cost;  
}
```

The calculation must be executed as the example.