# JS Essentials - Exam Preparation

Exam problems for the [“JavaScript Essentials” course @ SoftUni](https://softuni.bg/courses/js-essentials). Submit your solutions in the SoftUni Judge system at <https://judge.softuni.bg/Contests/Practice/Index/1675#0>.

## Problem 1. Coffee Machine

*Create a program for a coffee machine. Calculate whether the money inserted in the machine is enough to make the order and print the corresponding output.*

### Input

The input is an **array of strings**. Each string represents one order with different parts, separated by comma and space **', '**.

* The **first part** is the **coins inserted**.
* The **second** is the **type of drink** (**coffee or tea**).
* Next, if the drink type is **coffee**, you will receive **'caffeine'** or **'decaf'**.
* Next, you may receive **'milk',** if the ordered drink is with milk. **It costs** **10% of the drink price, rounded to first decimal point**
* And **last** you receive the **quantity of sugar, between 0 and 5**. **No matter the quantity (except from 0) it costs 0.10. Add the sugar at the end!**

The **prices of drinks** are:

|  |  |
| --- | --- |
| **Type** | **Price** |
| coffee caffeine | 0.80 |
| coffee decaf | 0.90 |
| tea | 0.80 |

### Constrains

* The input will always be **valid**

### Output

For each order there are **two possible** outputs:

* If the money inserted is enough, calculate the change of the order:

**'You ordered {drink}. Price: {price}$ Change: {change}$'**

* If the money is not enough:

**'Not enough money for {drink}. Need {moneyNeeded}$ more'**

After proceeding all orders, print the **total money earned** from the **successful** orders in the format: **'Income Report: {totalMoney}$'**

All the numbers should be **formatted to the second decimal point**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| ['1.00, coffee, caffeine, milk, 4', '0.40, tea, milk, 2',  '1.00, coffee, decaf, 0'] | You ordered coffee. Price: 1.00$ Change: 0.00$  Not enough money for tea. Need 0.60$ more.  You ordered coffee. Price: 0.90$ Change: 0.10$  Income Report: 1.90$ |
| **Comments** | |
| The first order is coffee with caffeine, milk and sugar. The price of the drink is 0.80$, we calculate the milk, 10% of the price, rounded to the first decimal point - 0.1$, and we add the sugar => 0.80 + 0.10 + 0.10 = 1.00.  The second order is tea with milk and sugar (0.80 + 0.10 + 0.10 = 1.00), but the money inserted is not enough.  Next, we receive order for coffee decaf with no milk and 0 sugar => 0.90$. The change is 0.10$.  Total income = 1.90 | |
| **Input** | **Output** |
| ['8.00, coffee, decaf, 4',  '1.00, tea, 2'] | You ordered coffee. Price: 1.00$ Change: 7.00$  You ordered tea. Price: 0.90$ Change: 0.10$  Income Report: 1.90$ |