# C++ Fundamentals Exam

# The following tasks should be submitted to the SoftUni Judge system.

# Task 3 – Coffee shop

A new Coffee Shop recently opened in the town. Your task is to help the owner modify the menu, based on the current ratings of the drinks.

Write a **class Coffee** with the following **fields**:

* **name**: string
* **price**: double
* **rating**: double **[0.00...10.00]**

The class should have the following **methods**:

* **addNew()**
* **getRating()**
* **getPrice()**

Add the following functions:

* **changePrice()**
* **deleteDrink()**

Store the drinks in a vector **menu**

* If the rating is between **4** and **5.99**, lower the price of the drink with 10%.
* If the rating is lower than **4**, remove the drink from the menu.

### Input

On the **first line**, you are given a number of drinks - **an integer**.

On the **following lines**:

* **name**
* **price**
* **rating** – in range **[0.00...10.00]**

### Output

Print the information of the drinks from the menu – their **name** and **price.**

**Note:** Print "The menu is empty" if no drinks are left in the menu.  
**Note:** All numbers are positive.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 5  Espresso  2.5  7  Cappuccino  4  6  Frappe  3.5  10  Decaf  3  4.3  Mochaccino  5  2 | Espresso 2.5  Cappuccino 4  Frappe 3.5  Decaf 2.7 | **There are 5 drinks in the menu and information for each of them is added. If the rating of a certain drink is between 4 and 5.99, the price of the drink should be reduced with 10% -> the rating of Decaf is 4.3 so the new price should be 3 – 3\*0.1 = 2.7 If the rating is lower than 4, it should be removed from the menu -> the rating of Mochaccino is 2 so it should be removed of the menu.** |
| 6  Coffee  3  9  Cappuccino  5  4.5  Black Tea  4  8.4  Water  2  10  Latte  5  3.2  Latte Macchiato  5  6 | Coffee 3  Cappuccino 4.5  Black Tea 4  Water 2  Latte Macchiato 5 |  |