# Programming Fundamentals Mid Exam Retake 12 August 2020

## Problem 1. Computer Store

Write a program that **prints you a receipt** for your new computer. You will receive the **prices (without tax)** of the parts until you receive what type of customer is this - **special** or **regular**. Once you receive the type of the customer you should print the receipt.

The **taxes are 20%** of each part's price you receive.

If the customer is **special**, then he has a **10%** **discount** of the price of the total price with taxes.

If a given price is not positive number, you should print **"Invalid price!"** on the console and continue with the next price.

If total price is equal to zero, you should print **"Invalid order!"** on the console.

### Input

* You will receive numbers representing **prices (without tax)** until command **"special" or "regular":**

### Output

* The receipt should be in the following format:

**"Congratulations you've just bought a new computer!**

**Price without taxes: {total price without taxes}$**

**Taxes: {total amount of taxes}$**

**-----------**

**Total price: {total price with taxes}$"**

## Constraints

**Note: All prices should be displayed to the second digit after the decimal point! The discount is applied only on the total price. Discount is only applicable to the final price!**

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 1050  200  450  2  18.50  16.86  special | Congratulations you've just bought a new computer!  Price without taxes: 1737.36$  Taxes: 347.47$  -----------  Total price: 1876.35$ |
| **Comment** | |
| 1050 – valid price, total 1050  200 – valid price, total 1250  …  16.86 – valid price, total 1737.36  We receive **special**  Price is positive number, so it is valid order  Price without taxes is 1737.36  Taxes: 20% from 1737.36 = 347.47  Final price = 1737.36 + 347.47 = 2084.83  Additional 10% discount for special customers  2084.83 – 10% = 1876.35 | |
| **Input** | **Output** |
| 1023  15  -20  -5.50  450  20  17.66  19.30  regular | Invalid price!  Invalid price!  Congratulations you've just bought a new computer!  Price without taxes: 1544.96$  Taxes: 308.99$  -----------  Total price: 1853.95$ |
| regular | Invalid order! |

### JS Input / Output

|  |  |
| --- | --- |
| **Input** | **Output** |
| [  '1050',  '200',  '450',  '2',  '18.50',  '16.86',  'special'  ] | Congratulations you've just bought a new computer!  Price without taxes: 1737.36$  Taxes: 347.47$  -----------  Total price: 1876.35$ |
| **Comment** | |
| 1050 – valid price, total 1050  200 – valid price, total 1250  …  16.86 – valid price, total 1737.36  We receive **special**  Price is positive number, so it is valid order  Price without taxes is 1737.36  Taxes: 20% from 1737.36 = 347.47  Final price = 1737.36 + 347.47 = 2084.83  Additional 10% discount for special customers  2084.83 – 10% = 1876.35 | |
| **Input** | **Output** |
| [  '1023',  '15',  '-20',  '-5.50',  '450',  '20',  '17.66',  '19.30', 'regular'  ] | Invalid price!  Invalid price!  Congratulations you've just bought a new computer!  Price without taxes: 1544.96$  Taxes: 308.99$  -----------  Total price: 1853.95$ |
| [  'regular'  ] | Invalid order! |