# 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:

## 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 JS** | **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! |

function computerStore(arr) {

    let typeOfCustomer = arr.pop().toString()

    let price = 0;

    let totalPrice = 0;

    for (let i = 0; i < arr.length; i++) {

        let num=Number(arr[i])

        if (num < 0) {

            console.log(`Invalid price!`)

        } else

            price += num

    }

    if (price === 0) {

        console.log(`Invalid order!`);

    } else {

        let taxes = price \* 0.2;

        if (typeOfCustomer === `special`) {

            totalPrice = (price+taxes) \* 0.9;

        }

        else if (typeOfCustomer === `regular`) {

            totalPrice = price + taxes

        }

        console.log(`Congratulations you've just bought a new computer!`)

        console.log(`Price without taxes: ${price.toFixed(2)}$`)

        console.log(`Taxes: ${taxes.toFixed(2)}$`)

        console.log(`-----------`)

        console.log(`Total price: ${totalPrice.toFixed(2)}$`)

    }

}

computerStore(['regular'])