Lab: Functions

Problems for exercise and homework for the "JS Fundamentals" Course @ SoftUni.

Submit your solutions in the SoftUni judge system at: https://judge.softuni.org/Contests/1230/

- Format Grade

Write a function that **receives a grade** between **2.00** and **6.00** and **prints** a formatted line with **grade and description.**

- < 3.00 - "**Fail**"
- >= 3.00 and < 3.50 - "**Poor**"
- >= 3.50 and < 4.50 - "**Good**"
- >= 4.50 and < 5.50 - "**Very good**"
- >= 5.50 - "**Excellent**"

Examples

Input	Output
3.33	**Poor (3.33)**
4.50	**Very good (4.50)**
2.99	Fail (2)

Hints

- Use a series of if statements checking the threshold between grade brackets

- Math Power

Write a function that **calculates** and **print** the value of a number **raised** to a **given power**:

Examples

Input	Output
2,8	256
3,4	81

Hints

- Create a function that will have **two parameters** - the **number** and the **power**.
- **Print** the result to the console.
- Repeat String

Write a function that receives a **string** and a **repeat count** n. The function should **return** a new string (the old one repeated **n** times).

Examples

Input	Output
"abc", 3	abcabcabc
"String", 2	StringString

Hints

- Use a loop or another method to repeat the input string.
- Use the return operator to produce the result.
- Orders

Write a function that calculates the **total price** of an order and prints it on the console. The function should receive one of the following products: **coffee, coke, water, snacks**; and a **quantity** of the product. The **prices** for a single piece of each product are:

- coffee - 1.50
- water - 1.00
- coke - 1.40
- snacks - 2.00

Print the result **formatted** to the **second decimal place**.

Example

Input	Output
"water", 5	5.00
"coffee", 2	3.00

Hints

- Create a function and pass the two variables in.
- Print the result in the function.

Simple Calculator

Write a function that receives **three parameters** – two numbers and an operator (string) – and calculates the result depending on the operator. Operator can be '**multiply**', '**divide**', '**add**' or '**subtract**'. Try to solve this task using **arrow functions**.

Bonus

Solve this task **without** using any conditional statements (no if or switch statements or ternary operators).

Input

The input comes as parameters named **numOne, numTwo, operator**.

Examples

Input	Output
5, 5, 'multiply'	25
40, 8, 'divide'	5
12, 19, 'add'	31
50, 13, 'subtract'	37

Hints

- Use a switch statement for the different operators.
- Sign Check

Write a function, that checks whether the result of the multiplication **numOne * numTwo * numThree** is positive or negative. Try to do this **WITHOUT** multiplying the 3 numbers.

Input

The input comes as parameters named **numOne, numTwo, numThree**.

Output

- If the **result** is **positive**, print on the console -> "**Positive**"
- Otherwise, print -> "**Negative**"

Example

Input	Output
5, 12, -15	Negative
-6, -12, 14	Positive
-1, -2, -3	Negative
-5, 1, 1	Negative

Hints

- Consider how the sign of each of the three input parameters will affect their product.
- Check all the different combinations for the three numbers.