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/

1. 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

```
function formatGrade(grade) {
if (grade < 3.00) {
    console.log('Fail (2)');
} else if (grade < 3.5) {</pre>
    console.log(`Poor (${grade.toFixed(2)})`);
// TODO: Add other conditions
```

2. 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.

3. 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

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

4. 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.

5. 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.

6. 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.











