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.bg/Contests/1262

1. 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	abcabcabc
3	
String	StringString
2	

Hints

1. Firstly create a function and initialize the two parameters.

```
function solve(str, n) {
    let result = '';

    for (let i = 0; i < n; i++) {
        result+= str;
    }
    return result
}</pre>
```

2. In the main function, print the result.

2. Grades

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"</p>
- >= 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

```
function formatGrade(grade) {
    if (grade < 3.00) {
        console.log('Fail (2)')
    } else if (grade < 3.5) {
        console.log(`Poor (${grade})`)
    }

    // TODO: Add other conditions
}</pre>
```

3. Math Power

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

Examples

Input	Output
2	256
8	
3	81
4	

Hints

- Create a function which will have two parameters the number and the power, and will return a result.
- Print 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	5.00
5	

coffee	3.00
2	

Hints

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

5. Simple Calculator

Write a function that receives **three parameters** and write an **arrow function** that calculate result depending of operator. Operator can be **'multiply'**, **'divide'**, **'add'**, **'subtract'**.

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 **switch** statements for the different operators.

6. Sign Check

You are given a function, that calculate the result of **numOne * numTwo * numThree** (the product) is **negative** or **positive**.

Try to do this **WITHOUT** multiplying the 3 numbers.

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

Example

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

Hints

• Check all the different variantions for the three numbers.

```
function solve(numOne, numTwo, numThree) {
   let result = '';
   if (numOne >= 0 && numTwo >= 0 && numThree >= 0) {
      result = 'Positive';
   }
   //TODO: write the other conditions

console.log(result);
}
```