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 3	abcabcabc
String 2	StringString

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
```

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"
- >= 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) {</pre>
     console.log('Fail (2)')
 } else if (grade < 3.5) {</pre>
     console.log(`Poor (${grade})`)
 // TODO: Add other conditions
```

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.









```
function solve(a, b, operator) {
 switch (operator) {
     case "multiply":
         let multiply = (a, b) => a * b;
         console.log(multiply(a, b));
         break;
     case "divide":
         //TODO: divide the numbers
         break;
     case "add":
         //TODO: add the numbers
         break;
     case "subtract":
         //TODO: subtract the numbers
         break;
```

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);
```









