

Functions and Statements - Lab

Problems with exercise and homework for the ["JS Front-End" Course @ SoftUni](https://softuni.org).

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) {  
    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	abccabccabc
"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
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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.