Lab: Functions and Arrow Functions

Problems for in-class lab for the ["JavaScript Fundamentals" course @ SoftUni](). Submit your solutions in the SoftUni judge system at [https://judge.softuni.bg/Contests/306]().

1. Triangle of Stars

Write a JS function that outputs a triangle made of stars with variable size, depending on an input parameter. Look at the examples to get an idea.

The **input** comes as a single number argument.

The **output** is a series of lines printed on the console, forming a triangle of variable size.

Examples

Input	Output
1	*

Input	Output
2	* ** *

Input	Output
5	* ** *** **** ***** **** *** ** *

2. Square of Stars

Write a JS function that outputs a rectangle made of stars with variable size, depending on an input parameter. If there is no parameter specified, the rectangle should always be of size 5. Look at the examples to get an idea.

The **input** comes as a single number argument.

The **output** is a series of lines printed on the console, forming a rectangle of variable size

Examples

Input	Output
1	*

Input	Output
2	** **

Input	Output
5	***** ***** ***** ***** *****

Input	Output
	***** ***** ***** ***** *****

3. Palindrome

Write a JS function that checks if an input string is a [palindrome]().

The **input** comes as a single string argument.

The **output** is the return value of your function. It should be **true** if the string is a palindrome and **false** if it's not.

Examples

Input	Output
haha	**false**

Input	Output
racecar	**true**

Input	Output
unitinu	**true**

4. Day of the Week

Write a JS function that prints a number between 1 and 7 when a day of the week is passed to it as a string and an error message if the string is not recognized.

The **input** comes as a single string argument.

The **output** should be returned as a result of your program.

Examples

Input	Output
Monday	1

Input	Output
Friday	5

Input	Output
Frabjoyousday	error

5. Functional Calculator

Write a JS program that receives two variables and an operator and performs a calculation between the variables, using the operator. Store the different functions in variables and pass them to your calculator.

The **input** comes as three arguments – two numbers, and a string, representing the operator.

The **output** should be printed on the console.

Examples

Input	Output
2, 4, '+'	6

Input	Output
3, 3, '/'	1

Input	Output
18, -1, '*'	-18

6. Aggregate Elements

Write a JS program that performs and outputs different operations on an array of elements. Implement the following operations:

- **Sum(a_i)** - calculates the sum all elements from the input array
- **Sum($1/a_i$)** - calculates the sum of the inverse values ($1/a_i$) of all elements from the array
- **Concat(a_i)** - concatenates the string representations of all elements from the array

The **input** comes as an array of number elements.

The **output** should be printed on the console on a new line for each of the operations.

Examples

Input	Output
[1, 2, 3]	6 1.8333 123

Input	Output
[2, 4, 8, 16]	30 0.9375 24816

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7. *Words Uppercase

Write a JS program that **extracts all words** from a passed in string and converts them to **upper case**. The extracted words in upper case must be printed back on a single line concatenated by **", "**.

The **input** comes as a single string argument - the text from which to extract and convert the words.

The **output** should be a single line containing the converted string.

Examples

Input	Output
'Hi, how are you?'	HI, HOW, ARE, YOU

Input	Output
'hello'	HELLO

Hints

- You may need to use a [Regular Expression](#) or alternatively check for all delimiters that can be found in a sentence (ex. ",", " ", "!", "?" and so on).

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