Lab: Advanced Functions

Problems for in-class lab for the "JavaScript Advanced" course @ SoftUni. Submit your solutions in the SoftUni judge system at https://judge.softuni.bg/Contests/1528/Lab-Advanced-Functions.

1. Add

Write a program that keeps a number **inside its context** and **returns** new function that **adds** a **given** number to the previous one.

Input

Check the **examples below** to see how your code will be executed

Output

Your function should **return** the final result .

Examples

Sample Input	Output

`let add5 = solution(5);`
`console.log(add5(2));`
`console.log(add5(3));`
	7
	8

`let add7 = solution(7);`
`console.log(add7(2));`
`console.log(add7(3));`
	9
	10

2. Currency Format

Write a **higher-order** function that fixes some of the parameters of another function. Your program will receive a function that **takes 4 parameters** and **returns a formatted string** (a monetary value with currency symbol).

Your task is to **return another function** that only **takes one parameter** and **returns** the **same formatted string**.

You will receive the following function:

currencyFormatter

```
function currencyFormatter(separator, symbol, symbolFirst, value) {
    let result = Math.trunc(value) + separator;
    result += value.toFixed(2).substr(-2,2);
    if (symbolFirst) return symbol + ' ' + result;
    else return result + ' ' + symbol;
}
```

Set the following parameters to fixed values:

```
separator: ","
symbol: "$"
symbolFirst: true
```

The final parameter **value** is the one that the returned function will receive.

Input

You will receive a **function** parameter

Output

You need to **return a function** that takes one parameter - **value**

Examples

Sample Input

`let dollarFormatter = result(currencyFormatter);`
`console.log(dollarFormatter(5345));   // $ 5345,00`
`console.log(dollarFormatter(3.1429)); // $ 3,14`
`console.log(dollarFormatter(2.709));  // $ 2,71`

3. Filter Employees

Write a program that filters the employees of your company. You should print the result in a specific format. You will receive **2** parameters (**`data`**, **`criteria`**). You should **parse** the input, find all employees that fullfil the citeria and print them.

Input

You will receive a **string** with all the employees, and a **`criteria`** by witch you should sort the employees. If the criteria is **`"all"`** print all the employees in the given format.

Output

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

For more information check the examples.

Examples

Sample Input	Output

`` `[{ ``
`    "id": "1",`
`    "first_name": "Ardine",`
`    "last_name": "Bassam",`
`    "email": "abassam0@cnn.com",`
`    "gender": "Female"`
`  }, {`
`    "id": "2",`
`    "first_name": "Kizzee",`
`    "last_name": "Jost",`
`    "email": "kjost1@forbes.com",`
`    "gender": "Female"`
	`0. Ardine Bassam - abassam0@cnn.com`
	`1. Kizzee Jost - kjost1@forbes.com`

}, { "id": "3", "first_name": "Evanne", "last_name": "Maldin", "email": "emaldin2@hostgator.com", "gender": "Male" }]`, 'gender-Female'	

`[{
 "id": "1",
 "first_name": "Kaylee",
 "last_name": "Johnson",
 "email": "k0@cnn.com",
 "gender": "Female"
 }, {
 "id": "2",
 "first_name": "Kizzee",
 "last_name": "Johnson",
 "email": "kjost1@forbes.com",
 "gender": "Female"
 }, {
 "id": "3",
 "first_name": "Evanne",
 "last_name": "Maldin",
 "email": "emaldin2@hostgator.com",
 "gender": "Male"
 }, {
 "id": "4",
 "first_name": "Evanne",
 "last_name": "Johnson",
 "email": "ev2@hostgator.com",
 "gender": "Male"
 }]`,
 'last_name-Johnson'
	0. Kaylee Johnson - k0@cnn.com
	 1. Kizzee Johnson - kjost1@forbes.com
	 2. Evanne Johnson - ev2@hostgator.com

4. Command Processor

Write a program that keeps a string **inside its context** and can execute different **commands** that modify or print the string on the console.

`append(string)` - append the given **string** at the end of the internal string

`removeStart(n)` - **remove** the **first n** characters from the string, **n** is an integer

`removeEnd(n)` - **remove** the **last n** characters from the string, **n** is an integer

`print` - **print** the stored string on the **console**

Input

Check the examples below to see how your code will be executed

Output

Whenever you receive the command **print**, the output should be the **printed** on the console.

Examples

Sample Input	Output

`let firstZeroTest = solution();`
 	
`firstZeroTest.append('hello');`
`firstZeroTest.append('again');`
`firstZeroTest.removeStart(3);`
`firstZeroTest.removeEnd(4);`
	`loa`

`let secondZeroTest = solution();`
 	
`secondZeroTest.append('123');`
`secondZeroTest.append('45');`
`secondZeroTest.removeStart(2);`
`secondZeroTest.removeEnd(1);`
`secondZeroTest.print();`
	`34`