

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
<pre>let add5 = solution(5); console.log(add5(2)); console.log(add5(3));</pre>	<pre>7 8</pre>
<pre>let add7 = solution(7); console.log(add7(2)); console.log(add7(3));</pre>	<pre>9 10</pre>

What to submit?

Function Signature: `function main(value)`

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
<pre>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; }</pre>

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

What to submit?

Function Signature: `function main(currencyFormatter)`

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 fulfill the criteria and print them.

Input

You will receive a **string** with all the employees, and a **criteria** by which 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
<pre>[{ "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" }, { "id": "3", "first_name": "Evanne", "last_name": "Maldin", "email": "emaldin2@hostgator.com", "gender": "Male" }]`, 'gender-Female'</pre>	<p>0. Ardine Bassam - abassam0@cnn.com</p> <p>1. Kizzee Jost - kjost1@forbes.com</p>
<pre>[{ "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" }]`</pre>	<p>0. Kaylee Johnson - k0@cnn.com</p> <p>1. Kizzee Johnson - kjost1@forbes.com</p> <p>2. Evanne Johnson - ev2@hostgator.com</p>

<pre> }, { "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' </pre>	
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What to submit?

Function Signature: `function main(employeesm criteria)`

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
<code>let firstZeroTest = solution();</code>	<code>10a</code>

<pre> firstZeroTest.append('hello'); firstZeroTest.append('again'); firstZeroTest.removeStart(3); firstZeroTest.removeEnd(4); firstZeroTest.print() </pre>	
<pre> let secondZeroTest = solution(); secondZeroTest.append('123'); secondZeroTest.append('45'); secondZeroTest.removeStart(2); secondZeroTest.removeEnd(1); secondZeroTest.print(); </pre>	34

What to submit?

Function Signature: function main()