# Lab: Advanced Functions

Problems for in-class lab for the [“JavaScript Advanced” course @ SoftUni](https://softuni.bg/courses/javascript-advanced). Submit your solutions in the SoftUni judge system at <https://judge.softuni.bg/Contests/330/>.

## Aggregates

Write a JS program that uses a **reducer** function to **display** information about an **input array**.

### Input

You will receive an **array** of **numeric** values.

### Output

The output should be the **printed** on the console. Display the **sum** of all elements in the array, the value of the **smallest**, the value of the **biggest**, the **product** of all elements and a string of all elements **joined** together.

### Examples

|  |  |
| --- | --- |
| Sample Input | Output |
| [2,3,10,5] | Sum = 20  Min = 2  Max = 10  Product = 300  Join = 23105 |
| [5, -3, 20, 7, 0.5] | Sum = 29.5  Min = -3  Max = 20  Sum = -1050  Join = 5-32070.5 |

## Command Processor

Write a JS program that keeps a string **inside it’s context** and can execute different **commands** that modify or output the string on the console.

append(str) – add **str** to 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 – **output** the stored string to the **console**

### Input

You will receive an **array** of **strings**. Each element is a command that may be a single word or contain an argument, separated by space.

### Output

Whenever you receive the command **print**, output should be the **printed** on the console. Any other operations are carried onto the **internal** storage of the function.

### Examples

|  |  |
| --- | --- |
| Sample Input | Output |
| ['append hello',  'append again',  'removeStart 3',  'removeEnd 4',  'print'] | loa |
| ['append 123',  'append 45',  'removeStart 2',  'removeEnd 1',  'print'] | 34 |

## Max Number in Array

Write a JS program that takes an **array** of **numeric elements** as input and **returns** the **largest** element of the array.

### Input

You will receive an **array** of **numbers**.

### Output

The **output** should be the **return** value of your function. It represents the **largest element** of the array.

### Examples

|  |  |
| --- | --- |
| Sample Input | Output |
| [10, 20, 5] | 20 |
| [1, 44, 123, 33] | 123 |