

Exercises: JavaScript Syntax and Basic Web

Problems for exercises and homework for the [“Software Technologies” course @ SoftUni](#).

You can submit your solutions here <https://judge.softuni.bg/Contests/224/>.

1. Multiply a Number by 2

You are given a number **N**. Create a JS function that **multiplies** the **number by 2** and prints the result. The input comes as an **array of strings**.

Examples

Input	Output
2	4

Input	Output
3	6

Input	Output
30	60

Input	Output
13	26

2. Multiply Two Numbers

You are given a number **X** and a number **Y**. Create a JS function that multiplies **X * Y** and prints the result. The input comes as array of strings.

Examples

Input	Output
2 3	6

Input	Output
13 13	169

Input	Output
1 2	2

Input	Output
0 50	0

3. Multiply / Divide a Number by a Given Second Number

You are given a number **N** and a number **X**. Create a JS function that:

- Multiplies **N * X** if **X** is greater than or equal to **N**
- Divides **N / X** if **N** is greater than **X**

The input comes as array of strings.

Examples

Input	Output
2 3	6

Input	Output
13 13	169

Input	Output
3 2	1.5

Input	Output
144 12	12

4. Product of 3 Numbers

You are given a number **X**, **Y** and **Z**. Create a JS function that finds if **X * Y * Z** (the product) is negative or positive. Try to do this **WITHOUT** multiplying the 3 numbers.

Examples

Input	Output
2 3 -1	Negative

Input	Output
5 4 3	Positive

Input	Output
-3 -4 5	Positive

5. Print Numbers from 1 to N

You are given a number **N**. Create a JS function that loops through all the numbers from **1 to N** and prints them. **N** will always be positive.

Examples

Input	Output	Input	Output
5	1 2 3 4 5	2	1 2

6. Print Numbers from N to 1

You are given a number **N**. Create a JS function that loops through all the numbers from **N to 1** and prints them. **N** will always be positive.

Examples

Input	Output	Input	Output
5	5 4 3 2 1	2	2 1

7. Print Lines

You will be, continuously, given input lines, until you receive the command **"Stop"**. Print each of those lines at the moment you read them, until you reach the ending command. Do **NOT** print the ending command.

Examples

Input	Output	Input	Output
Line 1 Line 2 Line 3 Stop	Line 1 Line 2 Line 3	3 6 5 4 Stop 10 12	3 6 5 4

8. Print Numbers in Reversed Order

You will be given a few numbers as input. You need to print them in reversed order, each on a new line.

Examples

Input	Output	Input	Output	Input	Output
10 15 20	20 15 10	5 5.5 24 -3	-3 24 5.5 5	20 1 20 1 20	20 1 20 1 20

9. Set Values to Indexes in an Array

You will be given **N** – an integer specifying the **length** of an **array**. Then you will start receiving an **index** and a **value**. For each received line you must **set** the **value** at the given **index** to the **given value**. When you've processed all input data, **print** the array's elements **each on a new line**.

Examples

Input	Output
3	5
0 - 5	6
1 - 6	7
2 - 7	

Input	Output
2	7
0 - 5	0
0 - 6	
0 - 7	

Input	Output
5	3
0 - 3	0
3 - -1	0
4 - 2	-1
	2

10. Add / Remove Elements

You will be given a sequence of **commands** (pairs of elements separated by a space): **command** and **argument**. You start by an empty array.

- The command "**add {number}**" appends the **number** to the array.
- The command "**remove {index}**" removes the element at the specified **index**. If the index is nonexistent, ignore that input line. When an element is deleted, all elements on the right from it, go one position left.

When you process all input data, **print the array's elements** each on a separate line.

Examples

Input	Output
add 3	3
add 5	5
add 7	7

Input	Output
add 3	3
add 5	2
remove 1	
add 2	

Input	Output
add 3	5
add 5	7
remove 2	
remove 0	
add 7	

11. Working with Key-Value Pairs

You will be given input lines, each holding **two elements** separated by a space. The first is the **key** and the second is the **value**.

Your task is to store the **value** for each **key**. If a key **already exists**, you need to **replace** the old value with the **new one**. At the last line of input, you will receive a **key**.

Print the **value** corresponding to that **key**. If there is no such, print "**None**".

Examples

Input	Output
key value	eulav
key eulav	
test tset	
key	

Input	Output
3 test	test5
3 test1	
4 test2	
4 test3	
4 test5	
4	

Input	Output
3 bla	None
3 alb	
2	

12. Multiple Values for a Key

You will be given input lines, each holding **two elements** separated by a space: a **key** and **value**. You need to **store** the given **values** to the given **keys**. At the last line of the input you will receive a **key**.

Your task is to **print all the values** corresponding to that **key**. If there are no such, just print "**None**".

Examples

Input	Output
key value key eulav test tset key	value eulav

Input	Output
3 test 3 test1 4 test2 4 test3 4 test5 4	test2 test3 test5

Input	Output
3 bla 3 alb 2	None

13. Storing Objects

You will be given input lines, each holding information about a **student: name, age and grade**. The data comes in the following format:

- “{name} -> {age} -> {grade}”

Store the information from the input lines into **JS objects**.

Print the objects in their order of appearance, in the format:

```
Name: {name}  
Age: {age}  
Grade: {grade}
```

Examples

Input	Output
Pesho -> 13 -> 6.00 Ivan -> 12 -> 5.57 Toni -> 13 -> 4.90	Name: Pesho Age: 13 Grade: 6.00 Name: Ivan Age: 12 Grade: 5.57 Name: Toni Age: 13 Grade: 4.90

14. Parse JSON Objects

You will be given input lines (**text**) holding object data in **JSON format**. Use the **JSON.parse(str)** function to **parse** the data into **JavaScript objects**, and then **print** them as shown in the examples.

Examples

Input	Output
{"name":"Gosho","age":10,"date":"19/06/2005"} {"name":"Tosho","age":11,"date":"04/04/2005"}	Name: Gosho Age: 10 Date: 19/06/2005 Name: Tosho Age: 11 Date: 04/04/2005

15. Turn Object into JSON String

You will be given input lines holding information about an object in the format “**key -> value**”. Create a **JS object** and save these keys and values in it.

After you’ve processed all the input data, print the **JSON** version of the object. Use the **JSON.stringify(obj)** function.

Examples

Input	Output
name -> Angel surname -> Georgiev age -> 20 grade -> 6.00 date -> 23/05/1995 town -> Sofia	{"name":"Angel","surname":"Georgiev","age":20,"grade":6,"date":"19/05/1995","town":"Sofia"}