More Exercises: Data Types and Variables

Problems for exercise and homework for the "JS Fundamentals" Course @ SoftUni. Submit your solutions in the SoftUni judge system at: https://judge.softuni.org/Contests/1269

1. Digits with Words

Write a function that receives a digit in the form of a word (as a string) and prints the digit (as a number).

Examples

Input	Output
'nine'	9
'two'	2
'zero'	0

Hints

Use a **switch** case.

2. Prime Number Checker

Write a **function** to check if a number is **prime** (only divisible by itself and one).

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

The **output** should be the return value of your function. Return **true** for prime number and **false** otherwise.

Examples

Input	Output
7	true
8	false
81	false

Hints

You can find more information about prime numbers: https://en.wikipedia.org/wiki/Prime_number

3. Cone

Write a function to calculate a cone's volume and total surface area by given height and radius of the base.

The **input** comes as two number arguments. The first element is the cone's **radius** and the second is its **height**.

The output should be printed to the console on a new line for every result. The result should be formatted to the fourth decimal point.

















Examples

Input	Output
3,	volume = 47.1239
5	area = 83.2298
3.3,	volume = 88.9511
7.8	area = 122.0159

Hints

You can use this online tool to check your results: http://www.calculatorsoup.com/calculators/geometrysolids/cone.php

4. Biggest of 3 Numbers

Write a function that finds the biggest number.

The **input** comes as 3 parameters.

The **output** is the **biggest** of the input numbers.

Examples

Input	Output
-2,	7
7,	
3	
130,	130
5,	
99	
43,	43.2
43.2,	
43.1	
2, 2,	2
2,	
2	

5. Binary to Decimal

Write a function that reads an 8-bit binary number and converts it to a decimal.

The **input** comes as one string element, representing a binary number.













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

Examples

Input	Output
00001001	9
11110000	240

6. Chess Board

Write a **function** to print a chessboard of size **n X n**. See the example for more information.

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

The **output** should be returned as a result of your function in the form of a string.

Examples

Input	Output
3	<div class="chessboard"></div>
	<div></div>
	
	
	
	<div></div>
	
	
	
	<div></div>
	
	
	

7. Triangle Area

Write a **function** that calculates a **triangle's area** by its 3 sides.

The **input** comes as three number arguments, representing one **side** of a triangle.













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

Examples

Input	Output
2,	3.4994419197923547
3.5,	
4	
3	5.854685623498498
5.5	
4	

Hints

Use **Heron's formula** to obtain the result.













