Extra Credit: Data Types and Variables

1. Digits with Words

Write a **`function`** that receives a **digit** in the form of a **word** as **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 wholly 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`

Input	Output
`8`	`false`

Input	Output
`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 at 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, 5	volume = 47.1239 area = 83.2298

Input	Output
3.3, 7.8	volume = 88.9511 area = 122.0159

Hints

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

4. Biggest of 3 Numbers

Write a **`function`** that finds the **biggest of 3 numbers**.

The **input** comes as 3 parameters.

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

Examples

Input	Output
-2, 7, 3	7

Input	Output
130, 5, 99	130

Input	Output
43, 43.2, 43.1	43.2

5. Binary to Decimal

Write a **`function`** that reads a 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

Input	Output
11110000	240