Exercise: Text Processing

1. Reveal Words

Write a function, which receives **two parameters**.

The first parameter will be a string with some words **separated by `', '`**.

The second parameter will be a string which contains **templates containing '*'**.

Find the word with the **exact same length** as the template and **replace** it.

Example

Input	Output
'great', 'kingsland is ***** place for learning new programming languages'	kingsland is great place for learning new programming languages
'great, learning', 'kingsland is ***** place for ******** new programming languages'	kingsland is great place for learning new programming languages

2. Modern Times of #(HashTag)

The input will be a **single string.**

Find all special words **starting with #**. Word is invalid if it has **anything** other than **letters**.

Print the words you found without the tag each on a new line.

Example

Input	Output
'Nowadays everyone uses # to tag a #special word in #socialMedia'	special socialMedia

3. Extract File

Write a function that receives a single string - the path to a file (the '\' character is escaped)

Your task is to subtract the **file name** and its **extension**. (Beware of files like **template.bak.pptx,** as **template.bak** should be the file name, while **pptx** is the extension).

Example

Input	Output
`'C:\\Internal\\training-internal\\Template.pptx'`	`File name: Template` `File extension: pptx`
`'C:\\Projects\\Data-Structures\\LinkedList.cs'`	`File name: LinkedList` `File extension: cs`

4. String Substring

The input will be given as **two** separated strings.

Write a function that checks given text for containing a given word. The comparison should be **case insensitive.** Once you find match, **print** the word and **stop** the program.

If you don't find the word print **`"{word} not found!"`**

Example

Input	Output
`'javascript',` `'JavaScript is the best programming language'`	`javascript`
`'python',` `'JavaScript is the best programming language'`	`python not found!`