Lab: Text Processing

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/1705

1. Print Characters

Write a function that **receives a string** and **prints all the characters** on separate lines.

Input / Output

Input	Output
'AWord'	A W o r d
'Sentence'	S e n t e n c e

Hints

Loop through the string and print each character.

```
function solve(string) {
    for (let ch of string) {
        console.log(ch);
    }
}
```

2. Substring

Write a function that **receives a string** and **two numbers**. The numbers will be a **starting index** and **count** of elements to substring. Print the result.

Input / Output

Input	Output
'ASentence', 1, 8	Sentence
'SkipWord', 4, 7	Word

Hints

Create a new string that takes the needed amount of elements from the given string.

```
function solve(string,startIndex,count) {
    let result;
    //TODO: substring
    console.log(result);
}
```

3. Censored Words

Write a function that **receives a text as** a first parameter and a **single word** as a second. Find **all occurrences** of that word in the text and replace them with the corresponding count of **'*'**.

Input / Output

Input	Output
'A small sentence with some words', 'small'	A ***** sentence with some words
'Find the hidden word', 'hidden'	Find the ****** word

Hints

Save the new text in a new variable.

```
function solve(text, word) {

    let censored = text.replace(word, repeat(word));
    while (censored.includes(word))
        censored = censored.replace(word, repeat(word));
    //TODO: create the repeat function
}
```

The **`repeat()`** function should take the length of the word and return that amount of stars '*'.

4. Count String Occurrences

Write a function that **receives a text** and a **single word that you need to search**. Print the number of all occurrences of this word in the text.

Input / Output

Input	Output
'This is a word and it also is a sentence', 'is'	2
'softuni is great place for learning new programming languages', 'softuni'	1

Hints

Split the sentence into words and create a **counter** that stores how many times the searched word occurs.

```
function solve(string, searchedWord) {
    let words = string.plit(' ');
    let counter = 0;
    for (let word of words) {
        //TODO: check if the word is equal to the searched one
    }
    console.log(counter);
}
```