

Lab: DOM Introduction

Problems for in-class lab for the "JavaScript Advanced" course @ SoftUni. Submit your solutions in the SoftUni judge system at <https://judge.softuni.bg/Contests/2760/DOM-Introduction-Lab>

Environment Specifics

Please, be aware that every JS environment may **behave differently** when executing code. Certain things that work in the browser are not supported in **Node.js**, which is the environment used by **Judge**.

The following actions are **NOT** supported:

- **.forEach()** with **NodeList** (returned by **querySelector()** and **querySelectorAll()**)
- **.forEach()** with **HTMLCollection** (returned by **getElementsByClassName()** and **element.children**)
- Using the **spread-operator** (...) to convert a **NodeList** into an array
- **append()** in Judge (use only **appendChild()**)
- **prepend()**
- **replaceWith()**
- **replaceAll()**
- **closest()**
- **replaceChildren()**
- Always turn the collection into a **JS array** (forEach, forOf, et.)

If you want to perform these operations, you may use **Array.from()** to first convert the collection into an array.

Edit Element

Create function **edit()** that takes **three** parameters.

Input/Output

The first parameter is a **reference** to an **HTML** element, the other two parameters are string **match** and **replacer**.

You have to **replace** all occurrences of the **match** inside the **text content** of the given element with a **replacer**.

Examples

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Collect List Items

Write a JS function that scans a given **HTML list** and **appends** all collected list items' text to a **textarea** on the same page when the user **clicks** on a button.

Input/Output

There will be no input/output, your program should instead **modify** the DOM of the given HTML document.

Examples

• Sum Numbers

Write a JS function that **reads** two numbers from input fields in a **web page** and puts their **sum in another field** when the user **clicks** on a button.

Input/Output

There will be no input/output, your program should instead **modify** the DOM of the given HTML document.

Examples

Show More

Write a JS function that **expands** a hidden section of text when a link is **clicked**. The link should **disappear** as the rest of the text shows up.

Input/Output

There will be no input/output, your program should instead **modify** the DOM of the given HTML document.

Examples



Colorize Table

Write a JS function that **changes the color** of all **even** rows when the user **clicks** a button. Apply the color "**Teal**" to the target rows.

Input/Output

There will be no input/output, your program should instead **modify** the DOM of the given HTML document.

Examples

Sum Table

Write a JS function that finds the first table in a document and sums the values in the last column. The result is then displayed in an element with ID "**sum**".

Input/Output

There will be no input/output, your program should instead **modify** the DOM of the given HTML document.

Examples



Extract Parenthesis

Write a JS function that when **executed**, extracts all parenthesized text from a target paragraph by given element ID. The result is a string, joined by "; " (semicolon, space).

Input

Your function will receive a **string parameter**, representing the target element ID, from which text must be extracted. The text should be extracted from the DOM.

Output

Return a string with all matched text, separated by "; " (semicolon, space).

Examples

Sample call
let text = extract("content");
Result (stored in variable text)
Bulgaria; Kazanlak; Rosa demascena Mill