Lab: DOM Events

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/2762/DOM-Manipulation-and-Events-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:

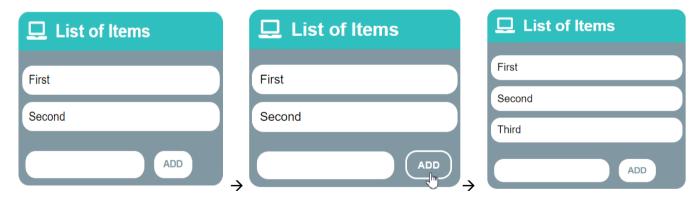
- .forEach() with NodeList (returned by querySelector() and querySelectorAll())
- .forEach() with HTMLCollection (returned by getElementsByClassName() and element.children)
- Using the **spread-operator** (...) to convert a **NodeList** into an array
- append() in Judge (use only appendChild())
- prepend()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

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

1. List of Items

Write a function that reads the text inside an input field and appends the specified text to a list inside an HTML page.

Examples



2. Delete from Table

Write a program that takes an email from an input field and deletes the matching row from a table.

- If entry is found, the textContent in the element with id="result" must be set to "Deleted."
- Otherwise, an error should be displayed in a <div> with id="result". The error should be "Not found."

Submit **only** the **deleteByEmail()** function in Judge.

















Input/Output

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

Examples

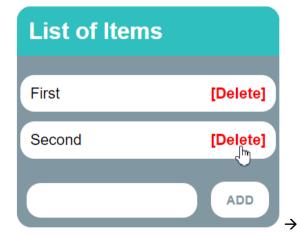


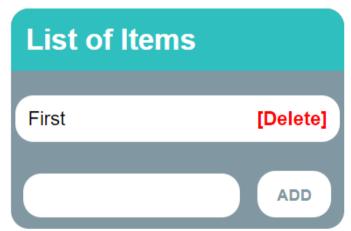


3. Add / Delete

Extend the previous problem to display a [Delete] link after each list item. Clicking it should delete the item with no confirmation. You have to add href="#" to the link element.

Examples





















4. Mouse Gradient

Write a program that detects and displays how far along a gradient the user has moved their mouse. The result should be rounded down and displayed as a percentage inside the <div> with id "result".

Submit only the attachGradientEvents() function in Judge.

Input/Output

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

Examples



5. Highlight Active

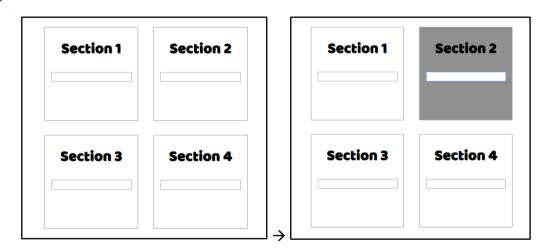
Write a **function** that **highlights** the **currently active** section of a document. There will be **multiple** divs with **input** fields inside them. Set the class of the div that contains the currently focused input field to "focused". When the focus is lost (blurred), remove the class from the element.

Submit only the **focused()** function in Judge.

Input/Output

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

Example



6. Dynamic Validation

Write a **function** that **dynamically validates** an **email** input field when it is **changed**. If the input is **invalid**, apply the class "error". Do not validate on every keystroke, as it is annoying for the user, consider only change events.

A valid email is considered to be in the format: <name>@<domain>.<extension>

Only **lowercase Latin characters** are allowed for any of the parts of the email. If the input is valid, **clear** the style. Submit **only** the **validate()** function in Judge.

Input/Output

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







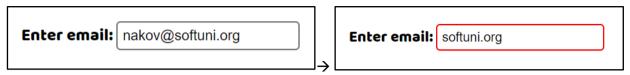








Example



7. Shopping Cart

You will be given some products that you should be able to add to your cart. Each product will have a name, picture, and price.

When the "Add" button is clicked, append the current product to the textarea in the following format: "Added {name} for {money} to the cart.\n". The price must be fixed to the second digit.

When the button "Checkout" is clicked, calculate the total money that you need to pay for the products that are currently in your cart. Append the result to the **textarea** in the following format:

"You bought {list} for {totalPrice}."

The list should contain only the unique products, separated by ", ". The total price should be rounded to the second decimal point.

Also, after clicking over "Checkout" and every from above is done you should disable all buttons. (You can't add products or checkout again if once the checkout button is clicked).

Examples

