# Lab: Objects and DOM

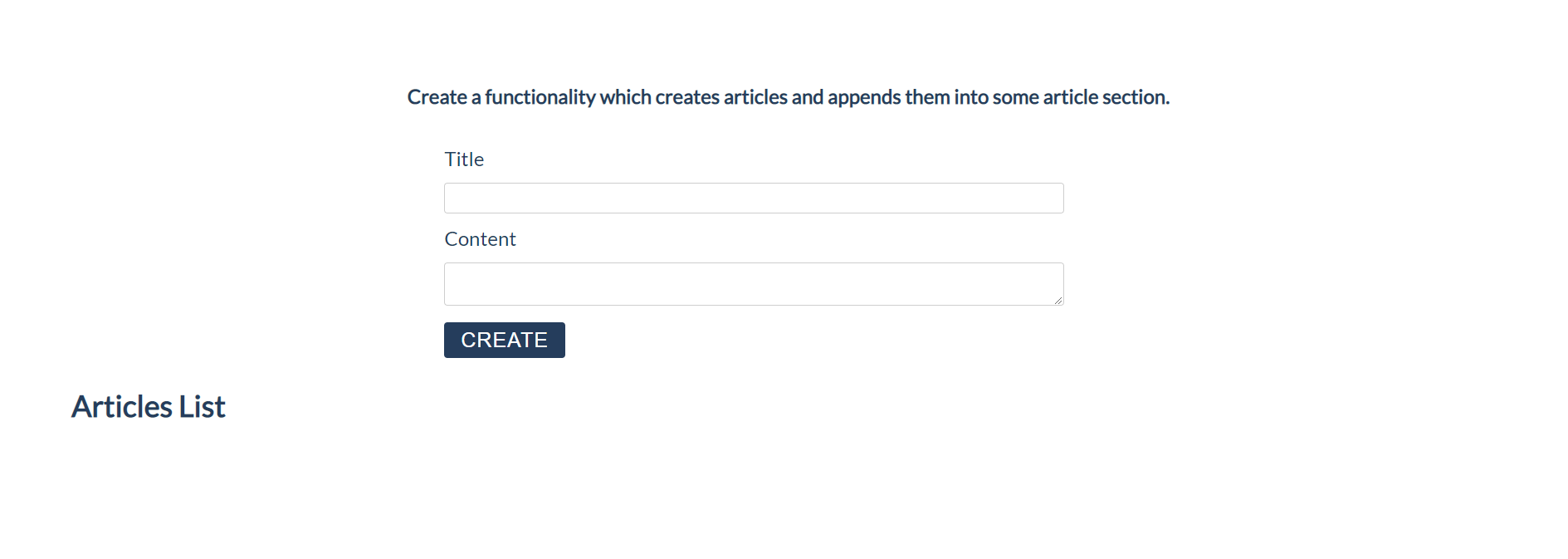
## Articles List

In this problem, you should create a JS functionality which creates articles and appends them into some article section.

The programs in this language are called **scripts**. They can be written right in the HTML and **executed** **automatically** as the page loads.

Scripts are provided and executed as a **plain text**. They don't need a special preparation or a compilation to run.

In this aspect, JavaScript is very **different** from another language called Java.

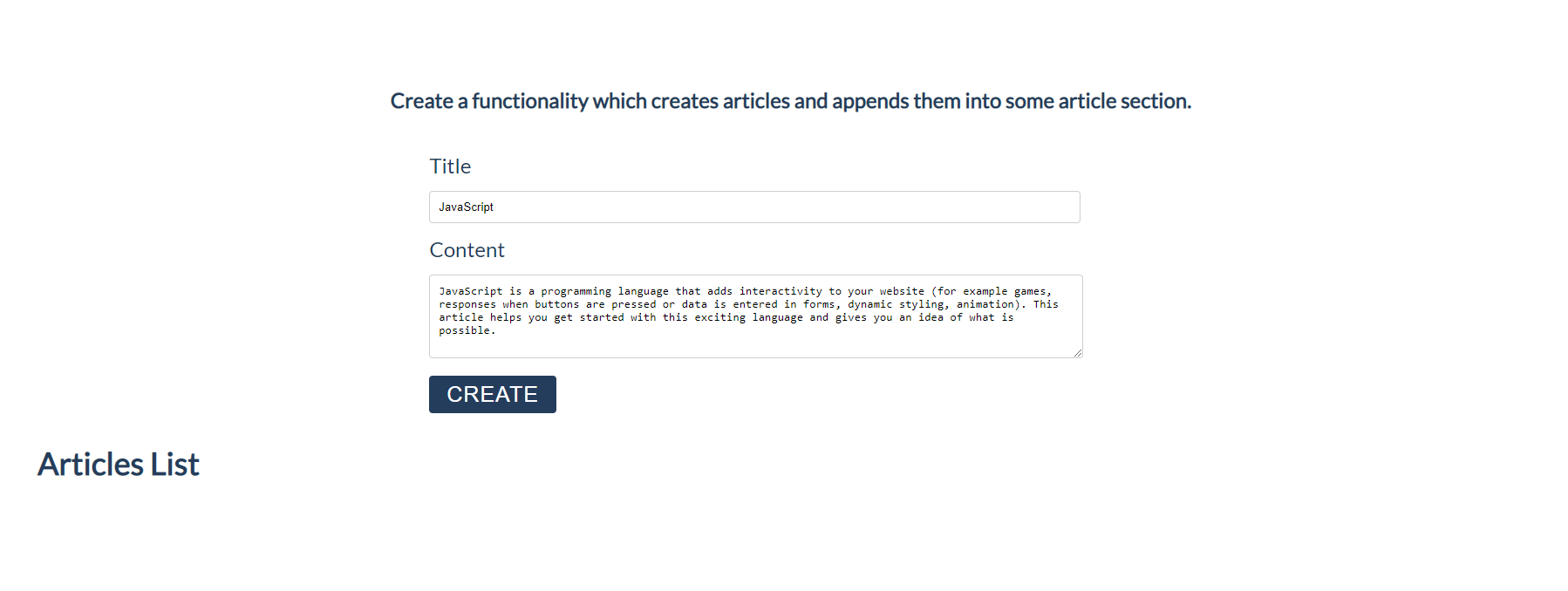


### Constraints:

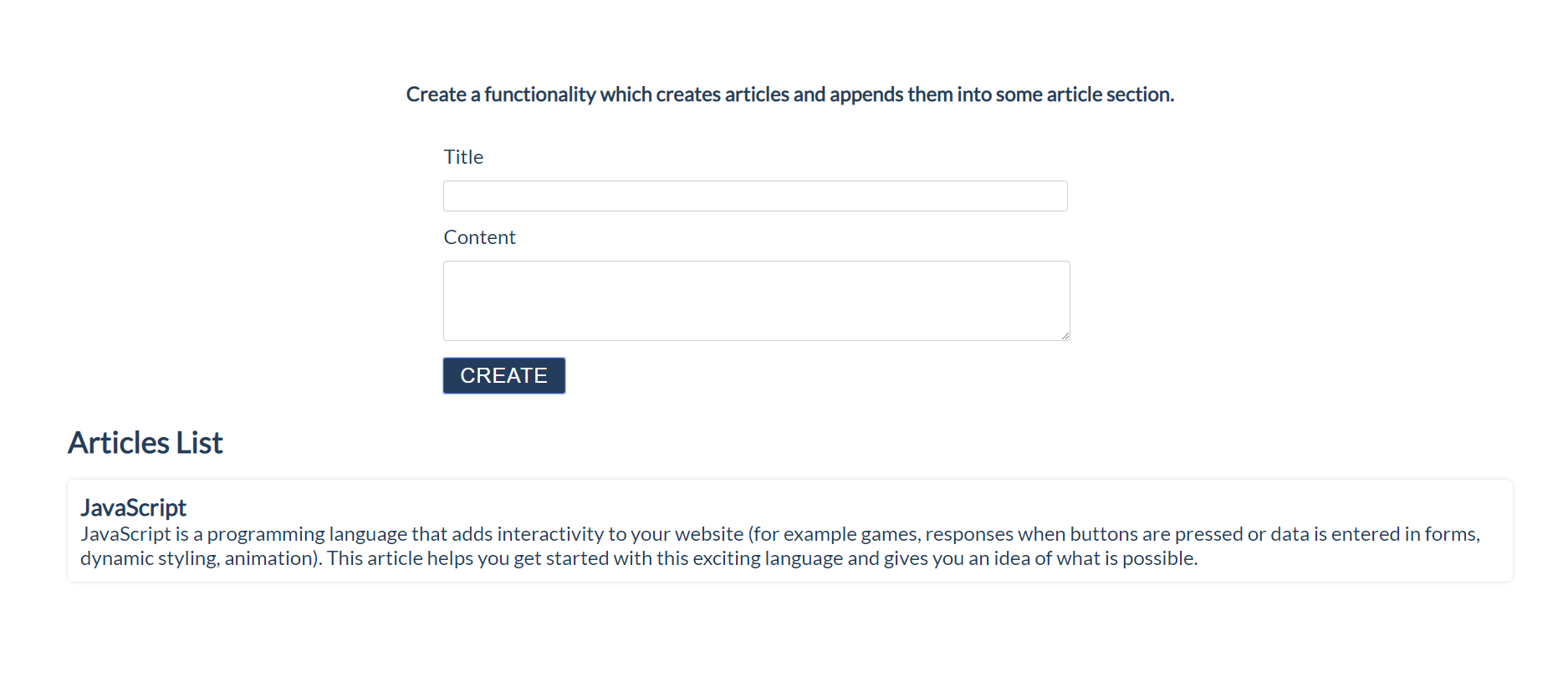
* **Title value** from the **title input** should be a **heading 3 element <h3>**
* **Content text** from the **textarea element** should be a **paragraph <p>**
* Both new created elements (**h3** and **p**) should be appended to a new **article element <article>**
* **The current article element** should be **appended** to the section which has an id articles (**#articles**)
* You should create new **article element** only if **title** and **content are not empty**
* After the button is pressed you must **clear** the **title value** and **text value**

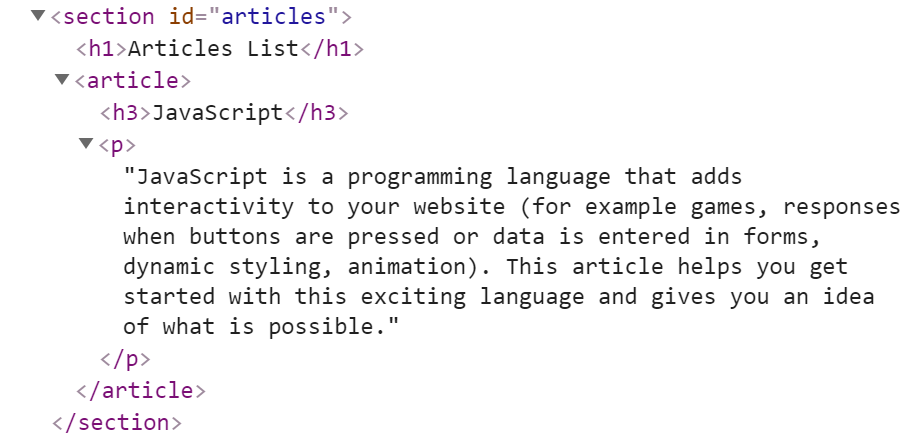


### Input:



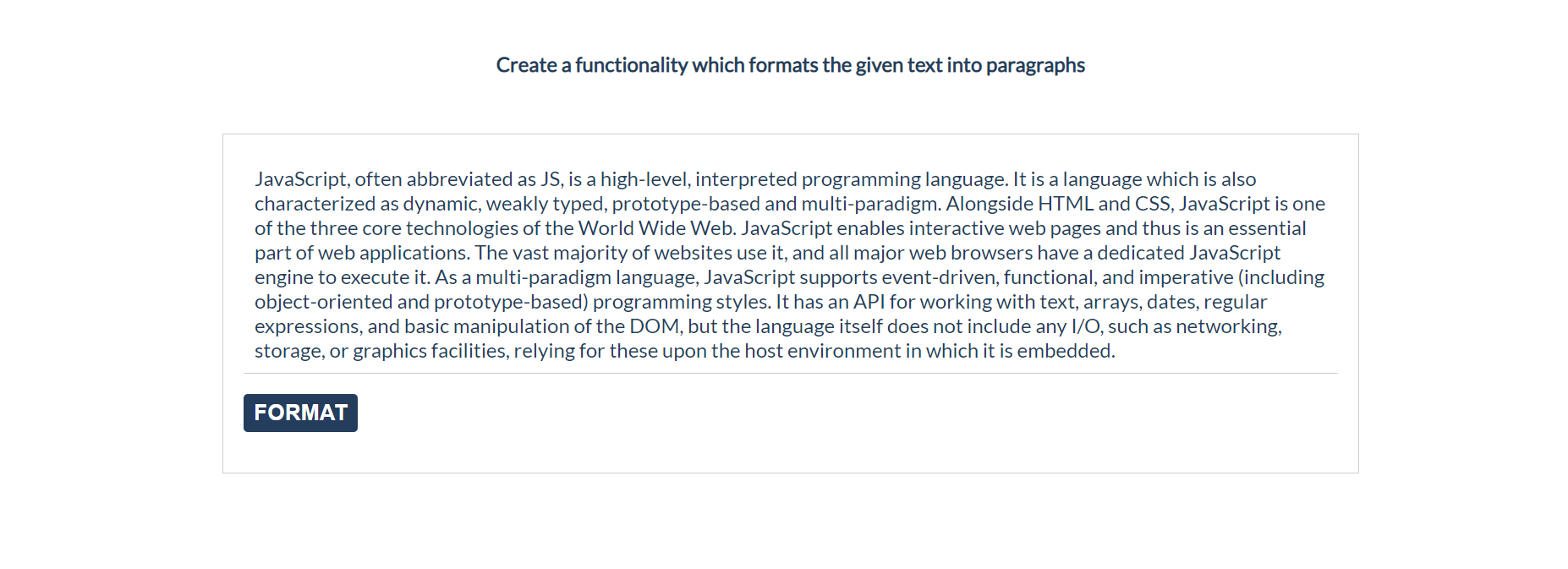
### Output:

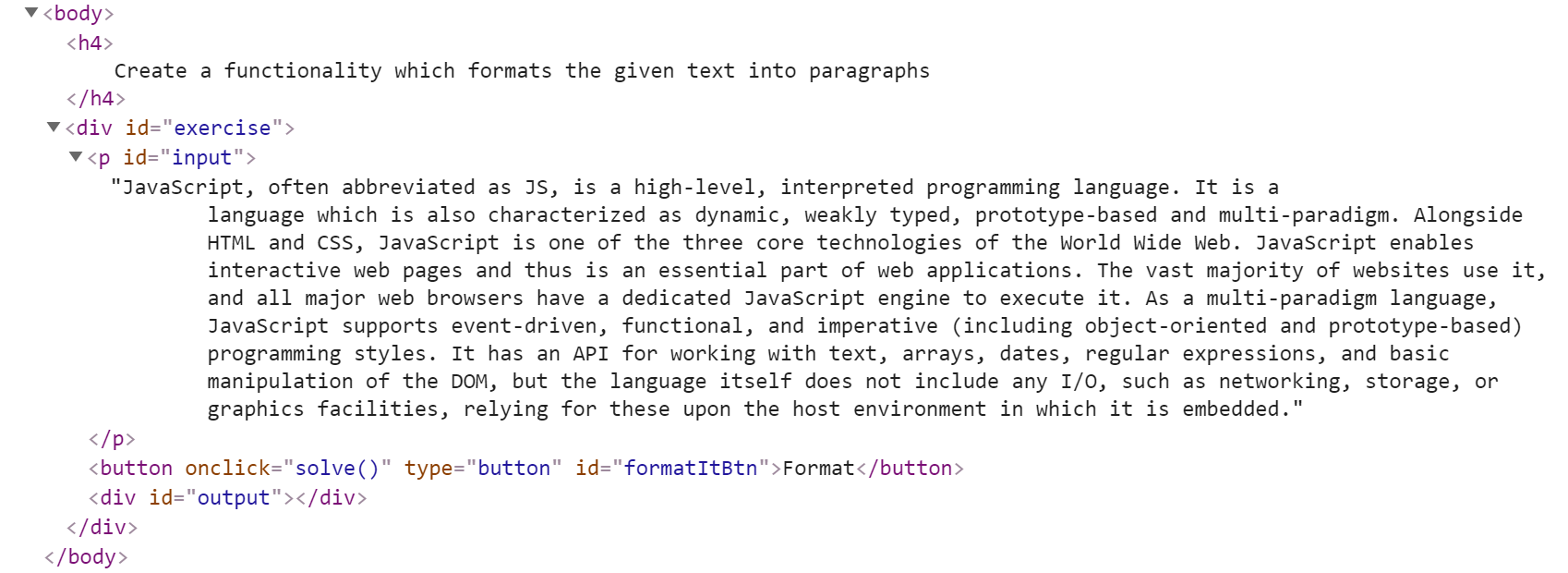




## Format the Text

In this problem, you should **create a JS functionality** which **formats the given text into paragraphs.**





When the [**Format**] button is **clicked**, you need to **format the text** **inside** the **paragraph** with an **id** "**input**". The formatting is **done** as **follows:**

* You need to **create a new paragraph element which holds no more than 3 sentences from the given input.**
* If the given input contains **less** or **3 sentences**, you need to create only 1 paragraph, fill it with these sentences and append this paragraph to the div with an **id** "**output**".

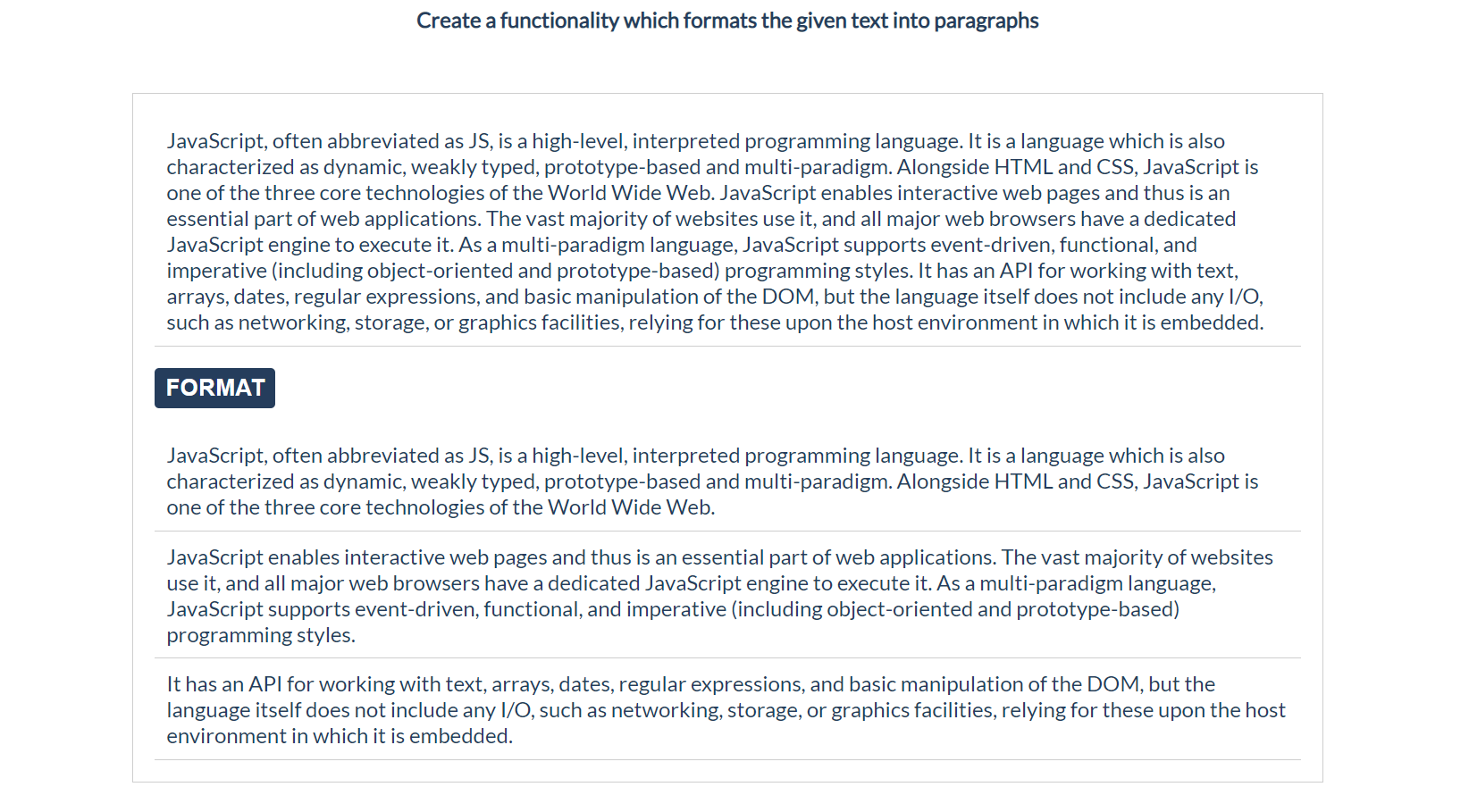
Otherwise, when you have more than 3 sentences in that **input paragraph,** you need to create enough paragraphs to get all sentences from the **input text.**

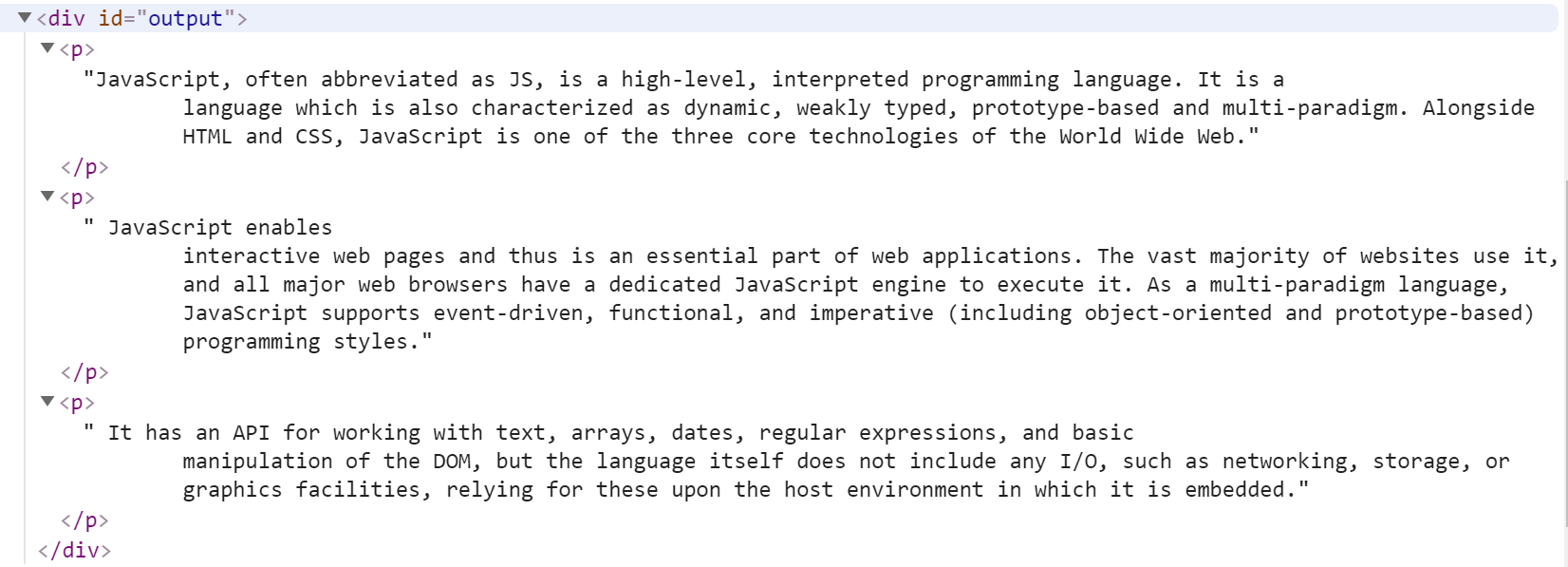
Just remember to **restrict** the **sentences** in **each paragraph to 3.**

### Example:

* If the input paragraph **contains 2 sentences**, you need to create only **1 paragraph** with these 2 sentences
* If the input paragraph **contains 7 sentences,** you need to create **3 paragraphs**  
  - The **first paragraph** must contain **the first 3 sentences**  
  - The **second paragraph** must contain **the other three sentences of the whole text**  
  - The **third paragraph** will contain **only the last sentence**, because there are no more sentences in this paragraph

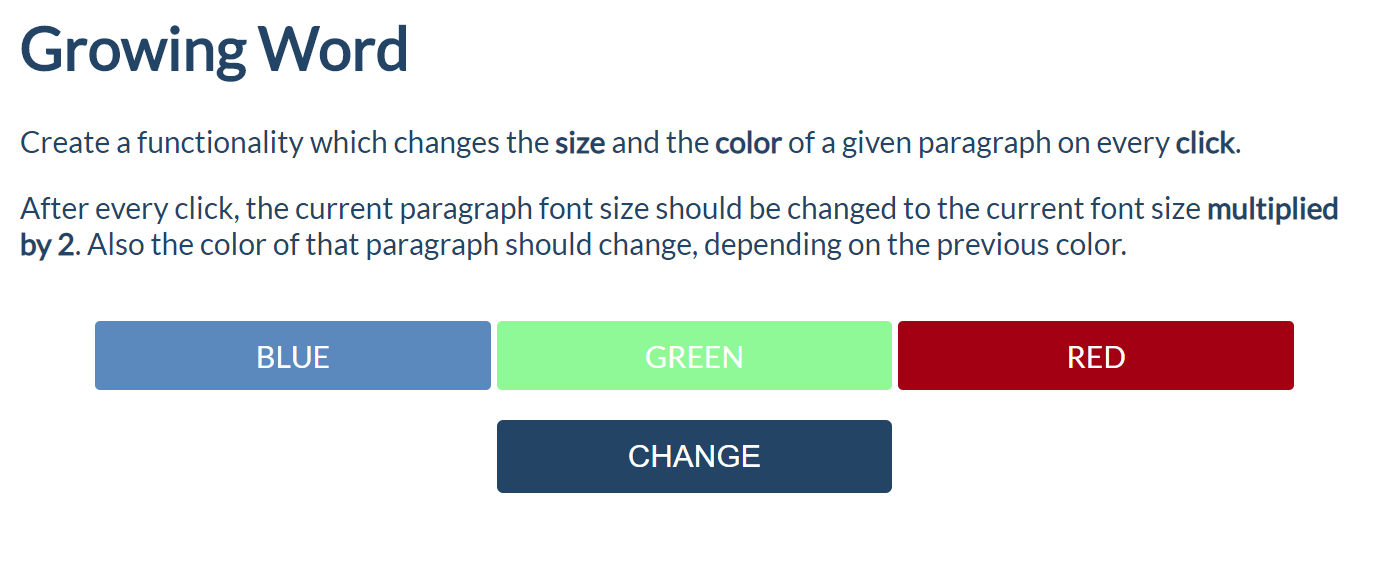
**To find out how many sentences there are in the text, simply split the whole text by '.' Also, every sentence must have at least 1 character.**





## Growing Word

In this problem, you should **create a JS functionality** which **changes the size and the color** of a given **paragraph** on **every click**.



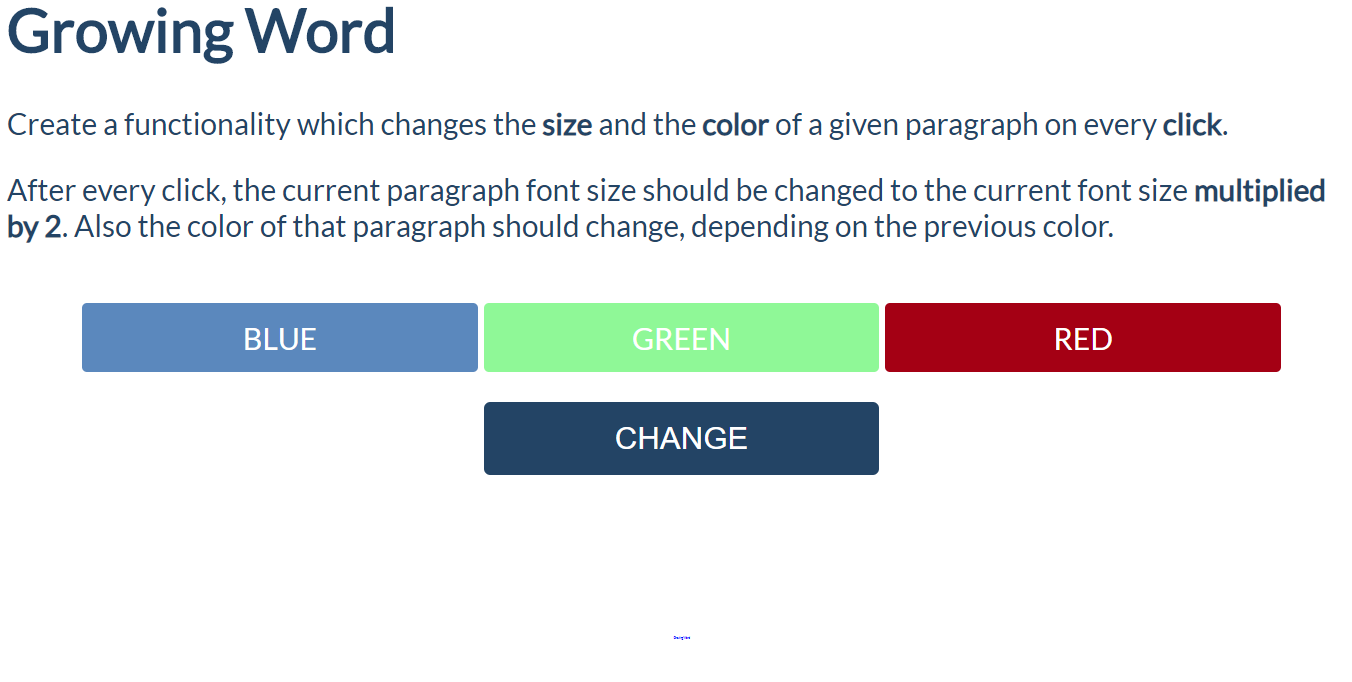


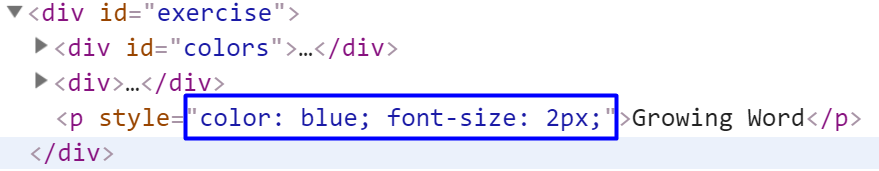
Every time when we **click** on the [**CHANGE**] button, **the color** and **the size** of **the paragraph** which contains "**Growing Word**" **should change!**

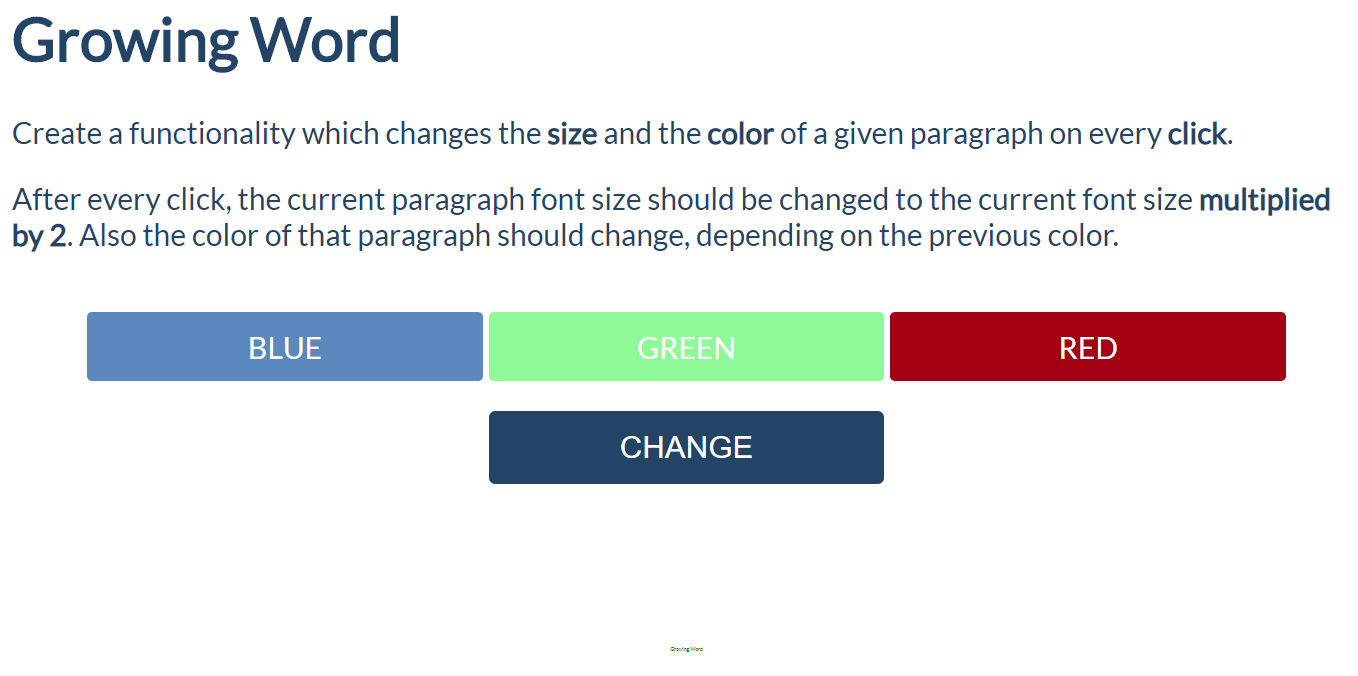
**After every click,** the current paragraph ***font size*** should be **changed** to the **current font size multiplied by 2.** Also, **the color** of that paragraph should change, depending on the **previous color**.

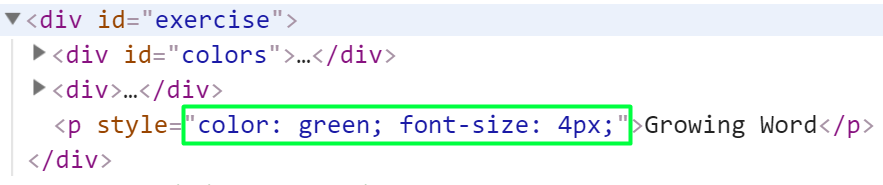
### Example:

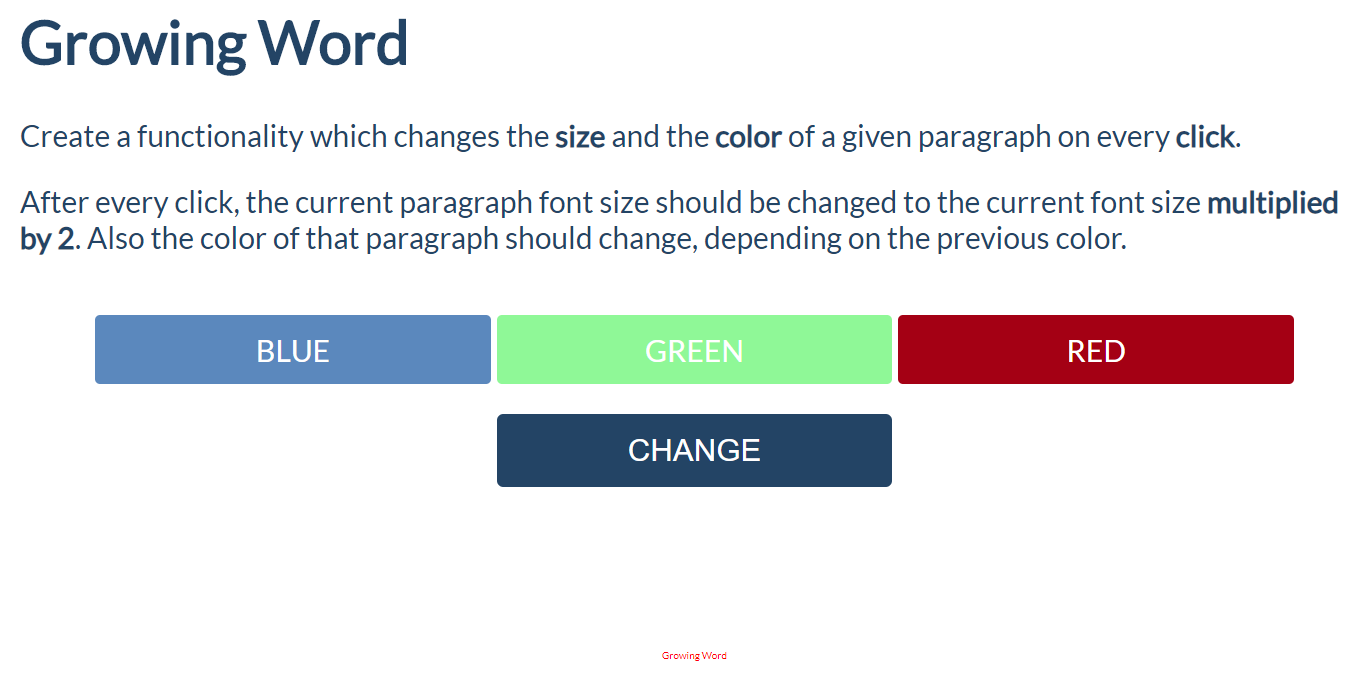
* If we click **once**, the color should be changed to **blue** and the font size should be **2** (First initial size)
* If we click **twice,** the color should be changed to **green** and the font size should be **4** (2 \* 2)
* If we click **three times**, the current color of that paragraph should be changed to **red** and the font size should be **8** (4 \* 2)
* If our paragraph already has a **red color, on** the **next** click, the color should turn to **blue**. Just loop throw these three colors (blue, green, red) again and again and again... while you are clicking on that button.

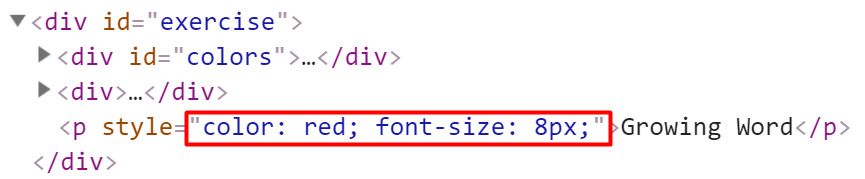












## Visited Sites

In this problem, you should **create a JS functionality** that keeps track of how many times a

specific site has been **visited**.



For instance, if we click **twice on the Gmail link and once on the YouTube link**, the expected

result must be:

