Teelaunch Backend Candidate Assessment

Overview:

Create a web page in PHP that contains 3 CTA's (call to action/buttons) each refers to the below listed exercises upon click on each, inputs appear allowing us to pass functions required params and print out the outputs accordingly.

Delivery:

Deliver the code as a git repository you can share with us. Please describe the run procedure in the README.md file if required.

Make sure to document your code.

ETA: 1 day

Teelaunch Dev Department
Good Luck ☺

Exercise 1:

Create a function that reads a string parameter being passed which will consist of HTML DOM elements and plain text.

The elements that will be used are: b, i, em, div, p.

For example: “ hello world ”

- if a string is " hello world " then this string of DOM elements is nested correctly so your program should return the string true.
- If a string is not nested correctly, return the first element encountered where, if changed into a different element, would result in a properly formatted string.
- If the string is not formatted properly, then it will only be one element that needs to be changed. For example: if str is " helloworld" then your program should return the string div because if the first element were changed into a , the string would be properly formatted.

Consider the following examples and the respective expected function output:

Input: " "
Output: div

Input: " abc test test test "
Output: i

Exercise 2:

Write a function that takes a random string containing: ([{ }]) and determine if the input is valid.

An input string is valid if:

- Open brackets must be closed by the same type of brackets
- Open brackets must be closed in the correct order

Consider the following examples:
[] : Valid
[) : Invalid
[[: Invalid
({)} : Invalid
[[[()]]] : Valid

Exercise 3:

Write a function using nested for loop that creates a chess board based on the provided number of columns and rows.

Use table width="270px" and take 30px as cell height and width.

Ex: Rows = 8 / Columns = 8