Coding Questions

1. Challenge 1: Create a **React (preferably NextJs)** page with any design that works like a calculator that can add two numbers.

Functionality: When user place numbers on first and second input and hit the button. The sum should appear on the `Total: ` as an output.

Please refer to the image below;

Adding Two Numbers

First Number
Second Number 💠
Add Two Numbers

Total:

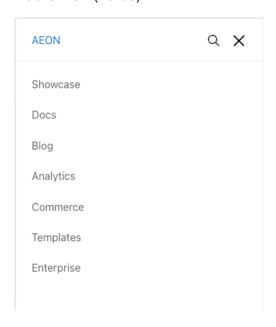
2. Challenge 2: Create a blank page using **React (preferably NextJs)** that contains the navbar as below.

- a. Navbar title can be any name. You can follow the sample image below
- b. Navbar should use <a> tag with href="/"
- c. Please only create a search input without any functions.
- d. Mobile view is optional.
 - i. The navbar should close when user click [X]
 - ii. Replace X icon with Hamburger icon
 - iii. The navbar should open when user click the icon

Desktop View

AEON Showcase Docs Blog Analytics Templates Enterprise Search documentation...

Mobile View (Bonus)



3. Challenge 3: Two Sum II - Input Array Is Sorted

Create a simple page using **React (preferably NextJs)** that can cater for following functionalities;

Given a **1-indexed** array of integers numbers that is already **sorted in non-decreasing order**, find two numbers such that they add up to a specific target number. Let these two numbers be numbers[index1] and numbers[index2] where 1 <= index1 < index2 < numbers.length.

Return the indices of the two numbers, index1 and index2, added by one as an integer array [index1, index2] of length 2.

The tests are generated such that there is **exactly one solution**. You **may not** use the same element twice.

Your solution must use only constant extra space.

You can use Javascript or Typescript. Please provide your answer as sample structure below.

Example 1:

```
Input: numbers = [2,7,11,15], target = 9
Output: [1,2]
Explanation: The sum of 2 and 7 is 9. Therefore, index<sub>1</sub> = 1, index<sub>2</sub> = 2.
We return [1, 2].
```

Example 2:

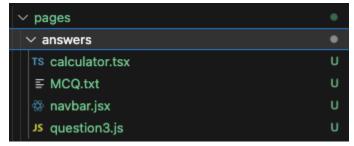
```
Input: numbers = [\underline{2},3,\underline{4}], target = 6
Output: [1,3]
Explanation: The sum of 2 and 4 is 6. Therefore index<sub>1</sub> = 1, index<sub>2</sub> = 3. We return [1, 3].
```

Example 3:

```
Input: numbers = [-1, \underline{0}], target = -1
```

Notes:

- 1. Provide us with how to run your code in a readMe file
- 2. Please complete the test given in Javascript or Typescript
- 3. Please use **React (preferably NextJs)** for the framework
- 4. Option 1: send us the answers in a zipped file via Google Drive link or Option 2: you can also provide your answers through Github. Please provide us with the repository link.
- 5. See example below:



6. If you are shortlisted, we are expecting you to **demo and walk us** through your solution from your machine in the interview after submission