

Number Quiz Lab

Write a node.js web application that presents a series of quiz questions. Each question displays a sequence of numbers and asks the participant to guess the next number of the sequence. For example, the first sequence is 3 1 4 1 5.

The Number Quiz

Your current score is 0.

Guess the next number in the sequence.

3, 1, 4, 1, 5

Your answer:

To solve the puzzle, you need to find the pattern. In this case, we have the first digits of π . If you type in the next number in the sequence (the number 9) . . .

The Number Quiz

Your current score is 0.

Guess the next number in the sequence.

3, 1, 4, 1, 5

Your answer:

. . . the score goes up by 1:

The Number Quiz

Your current score is 1.

Guess the next number in the sequence.

1, 1, 2, 3, 5

Your answer:

Store 5 number sequences in a javascript array, which simulates a database. Use the following sequences (correct answers are included):

```
"3, 1, 4, 1, 5", // pi
"1, 1, 2, 3, 5", // fibonacci
"1, 4, 9, 16, 25", // squares
"2, 3, 5, 7, 11", // primes
"1, 2, 4, 8, 16" // powers of 2
```

```
answers = {9, 8, 36, 13, 32};
```

After the user has completed the quiz, display something like the following:

The Number Quiz

Your current score is 2.

You have completed the Number Quiz, with a score of 2 out of 5.

Do not use Client-side JavaScript in this project at all. There may be many Users of the web site at the same time. (Hint: Use Hidden form parameters to remember the quiz number and score of each User.)