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: [   ]

[Submit]

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: 9

[Submit]

. . . 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: ☐

Submit

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

```
private static String[] questions = {

        "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.
- Use Hidden form parameters to remember the quiz number and score of each User.
- Use a Pug Template to generate the HTML of the web page