

Pick one of the exercises below and solve it in JavaScript. The exercises are intended to take about two hours but feel free to put in as much effort as you feel is appropriate. Put the results on GitHub. We are going to run your solution -- so it should not be an essay, a diagram, or pseudocode. Please view this as an opportunity to impress us with your ability to write quality, production-level code.

Exercise 1

Write some code that will evaluate a poker hand and determine its rank.

Example:

Hand: Ah As 10c 7d 6s (Pair of Aces)

Hand: Kh Kc 3s 3h 2d (2 Pair)

Hand: Kh Qh 6h 2h 9h (Flush)

Exercise 2

Write some code that accepts an integer and prints, from 0 to that input integer, the integers in a spiral format.

For example, if I supplied 24 the output would be:

20 21 22 23 24

19 6 7 8 9

18 5 0 1 10

17 4 3 2 11

16 15 14 13 12

Exercise 3

Write some code that will accept a \$ amount and convert it to the appropriate string representation.

Example:

Convert \$2523.04

to "Two thousand five hundred twenty-three and 04/100 dollars"

Exercise 4

Write some code that can be used in a templating engine.

This should take a map of variables ("day" => "Thursday", "name" => "Billy") as well as a string template ("\${name} has an appointment on \${day}") and perform substitution as needed.

This needs to be somewhat robust, throwing some kind of error if a template uses a variable that has not been assigned in the map, as well as provide a way to escape the strings ("hello \${\${name}}" -> "hello \${Billy}")

Good Luck!