8/20/2021

CS305 Object Oriented and Functional Programming in JavaScript

W2D3 Data Types: Strings and Arrays Assignment

Complete the following tasks from The JavaScript Language book. Try to answer them before looking at the solutions. For the ones asking you to write code do that in VSCode and use the esLint coding conventions we gave you. These are all from the Chapter: Data Types and cover the sections noted below.

Section: Primitives

- Can I add a string property?

Section: Numbers

- Sum numbers from the visitor
- Repeat until the input is a number
    - Do this in the Plunker sandbox OR implement it in VSCode and node. In the node implementation your readNumber function should take an array of strings as input and return the first element of the array that is a regular number in a string. E.g., '123', '12.3' are ok, '123abc' is not ok. Write a Mocha test that tests against the array ['abc', '123a', 'ab123', '123.3', '123']
- An occasional infinite loop
- A random number from min to max (write a Mocha test with several different tests)

Section: Strings (use the Mocha tests in dataTypeTests.js to test your implementations in VSCode)
- Uppercase the first character
- Check for spam
- Truncate the text
- Extract the money

Section : Arrays
- Is array copied?
- Array operations
- Calling in an array context
    - This one is a fine point of JavaScript. Do not worry too much about it.
- Sum input numbers
    - If the user clicks "cancel" prompt returns null
- A maximal subarray (use the Mocha test file dataTypeTests.js in VSCode for this exercise and the camelize exercise in the Array methods section)

Section: Array methods

- Translate border-left-width to borderLeftWidth