10/2/2020

W2D5 Review Assignment

Try to do at least the first two, and then the others as time allows.

1. Write your own version of map. Write a function, myMap that takes 2 arguments, an array and a function to apply to the array. It should return a new array of the same size with the function applied to each element of the input array. It should not change the input array.

2. Write your own version of filter. Write a function, myFilter that takes 2 arguments, an array and a function to apply to the array. It should return a new array with the function applied to each element of the input array. It should not change the input array. It should work like Array.filter. I.e., the input function returns true or false for each element in the original array, and the true elements are included in the returned array.

3. Write your own version of reduce.

4. Write a constructor function to replace the Class given for the Simpsons tree recursion exercise.

5. Write a constructor function to create nodes for the HTML DOM tree recursion exercise from the W1D3 recursion assignment.

6. EC: Write your Mocha-like framework. You will need to implement your own Describe and It functions, and also an assert-equals function. Do not worry about all of the other assert functions that come with Chai. Your framework should work the same way as Mocha in terms of writing outputs to a target div on a webpage. Color the text red for any tests that fail and green for those that succeed.