

CSPrep Day 4

Overview

POD

Review a complex higher order function (that makes use of another higher order function)

• map with for Each

Understanding docs on mdn - map

Project: drawing insights from big data using higher order functions

Using map with for Each

```
91 ∨ function map(array, instructions) {
        const output = [];
 92
        function runOnEachElement(el) {
          output.push(instructions(el));
 94
 95
        forEach(array, runOnEachElement);
 96
 97
        return output;
 99
100 ∨ function forEach(list, instructionsForEach) {
101 \vee for (let i = 0; i < list.length; i++) {
          instructionsForEach(list[i]);
102
103
104
105
106 ∨ function multiplyByTwo(num) {
107
        return num * 2;
108
109
      const doubles = map([1,2,3], multiplyByTwo);
110
```

```
output.push(instructions(el));
 94
 95
 96
        forEach(array, runOnEachElement);
 97
        return output;
 98
 99
100 ∨ function forEach(list, instructionsForEach) {
       for (let i = 0; i < list.length; i++) {</pre>
          instructionsForEach(list[i]);
102
103
104
      }
105
106 \vee function multiplyByTwo(num) {
107
        return num * 2;
108
109
110
      const doubles = map([1,2,3], multiplyByTwo);
```

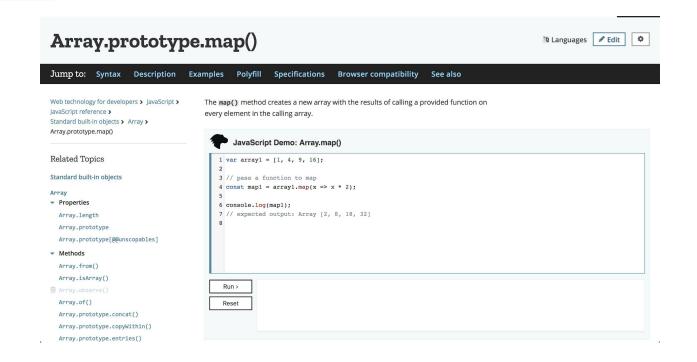
91 ∨ function map(array, instructions) {

93 ✓ function runOnEachElement(el) {

const output = [];

92

Understanding docs: .map on MDN



Project: Big data with higher order functions

The data you will be working with is historical bitcoin data from 2013 to 2015

Work through the initial prompts in CSBin - try to use higher order functions like forEach, map, filter, reduce.... When in doubt, use a for loop first then refactor!

When you're ready, ask for the bonus prompts.

http://csbin.io/cs-prep-big-data