Destructuring Exercise



Object Destructuring 1

What does the following code return/print?

```
let facts = {numPlanets: 8, yearNeptuneDiscovered: 1846};
let {numPlanets, yearNeptuneDiscovered} = facts;
console.log(numPlanets); // ?
console.log(yearNeptuneDiscovered); // ?
```

Object Destructuring 2

What does the following code return/print?

```
let planetFacts = {
  numPlanets: 8,
  yearNeptuneDiscovered: 1846,
  yearMarsDiscovered: 1659
};
let {numPlanets, ...discoveryYears} = planetFacts;
console.log(discoveryYears); // ?
```

Object Destructuring 3

What does the following code return/print?

```
function getUserData({firstName, favoriteColor="green"}){
  return `Your name is ${firstName} and you like ${favoriteColor}`;
}
getUserData({firstName: "Alejandro", favoriteColor: "purple"}) // ?
getUserData({firstName: "Melissa"}) // ?
getUserData({}) // ?
```

Array Destructuring 1 What does the following code return/print?

```
let [first, second, third] = ["Maya", "Marisa", "Chi"];
console.log(first); // ?
console.log(second); // ?
console.log(third); // ?
```

Array Destructuring 2

What does the following code return/print?

```
let [raindrops, whiskers, ...aFewOfMyFavoriteThings] = [
  "Raindrops on roses",
  "whiskers on kittens",
  "Bright copper kettles",
  "warm woolen mittens",
  "Brown paper packages tied up with strings"
console.log(raindrops); // ?
console.log(whiskers); // ?
console.log(aFewOfMyFavoriteThings); // ?
```

What does the following code return/print?

Array Destructuring 3

let numbers = [10, 20, 30]; [numbers[1], numbers[2]] = [numbers[2], numbers[1]]

```
console.log(numbers) // ?
ES2015 Refactoring
```

var obj = { numbers: {

};

ES5 Assigning Variables to Object Properties

In this exercise, you'll refactor some ES5 code into ES2015.

a: 1, b: 2 }

```
var a = obj.numbers.a;
 var b = obj.numbers.b;
ES2015 Object Destructuring
 /* Write an ES2015 Version */
```

var arr = [1, 2]; var temp = arr[0]; arr[0] = arr[1];

ES5 Array Swap

```
arr[1] = temp;
ES2015 One-Line Array Swap with Destructuring
```

/* Write an ES2015 Version */

raceResults()

Write a function called *raceResults* which accepts a single array argument. It should return an

- first: the first element in the array
- rest: all other elements in the array
 - An arrow function

Write a one line function to make this work using

• third: the third element in the array

object with the keys *first*, *second*, *third*, and *rest*.

second: the second element in the array

'Enhanced' object assignment (same key/value shortcut)

Destructuring

See Our solution.

raceResults(['Tom', 'Margaret', 'Allison', 'David', 'Pierre'])



