« Back to Homepage



Object Destructuring 1

What does the following code return/print?

```
let facts = {numPlanets: 8, yearNeptuneDiscovered: 1846};
let {numPlanets, yearNeptuneDiscovered} = facts;

console.log(numPlanets); // 8
console.log(yearNeptuneDiscovered); // 1846
```

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);
// {yearNeptuneDiscovered: 1846, yearMarsDiscovered: 1659}
```

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"})
// Your name is Alejandro and you like purple

getUserData({firstName: "Melissa"})
// Your name is Melissa and you like green

getUserData({})
// Your name is undefined and you like green
```

Array Destructuring 1

What does the following code return/print?

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

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

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) // [10,30,20]
```

var obj = {
 numbers: {

const obj = {

ES2015 Refactoring

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
```

numbers: { a: 1, b: 2

/* Write an ES2015 Version */

```
}
};

const {a,b} = obj.numbers

ES5 Array Swap

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

ES2015 One-Line Array Swap with Destructuring

arr[0] = arr[1]; arr[1] = temp;

```
[arr[0], arr[1]] = [arr[1], arr[0]]
```

raceResults()

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

first: the first element in the arraysecond: the second element in the array

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

- third: the third element in the array
- rest: all other elements in the array
 Write a one line function to make this work using
 - An arrow function
 - Destructuring
 - 'Enhanced' object assignment (same key/value shortcut)

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

// {first: "Tom", second: "Margaret", third: "Allison", rest: ["David", "Pierre"]}

const raceResults = ([first, second, third, ...rest]) => ({first, second, third, rest})
```