

Jenni Diaz

Exercise 14.6

Object Destructuring 1:

1. The code returns/prints:

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

Object Destructuring 2:

2. The code returns/prints:

```
console.log(discoveryYears); // {yearNeptuneDiscovered: 1846, yearMarsDiscovered: 1659}
```

Object Destructuring:

3. The code returns/prints:

```
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:

4. The code returns/prints:

```
console.log(first); // Maya
console.log(second); // Marisa
console.log(third); // Chi
```

Array Destructuring 2:

5. The code returns/prints:

```
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"]
```

Array Destructuring 3:

6. The code returns/prints:

```
console.log(numbers) // [10,30,20]
```

ES5 Assigning Variables to Object Properties:

```
7.
var obj =
{
  numbers:
  {
    a: 1,
    b: 2
  }
};
```

```
var a = obj.numbers.a;
var b = obj.numbers.b;
```

ES2015 Object Destructuring:

8.

```
const obj =  
{  
  numbers:  
  {  
    a: 1,  
    b: 2  
  }  
};
```

```
const {a,b} = obj.numbers
```

ES5 Array Swap:

9.

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

ES2015 One-Line Array Swap with Destructuring:

10.

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

```
raceResults()
```

```
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})
```