// 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); // 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"}) // you name is Melissa and you like green

getUserData({}) //your name is undefines and you like green

// array destructuring 1: what does the following code return?

let [first, second, third] = ['Maya', 'Marisa', 'Chi'];

console.log(first); //Maya

console.log(second); //Marissa

console.log(third)// Chi

//array destructuring 2: what does the following code return?

let [raindrops, whickers, ...aFewOfMyFavoriteThings] = [

    'Randrops on roses',

    'Whiskers on kitens',

    'Bright copper kettles',

    'warm woolen mittens',

    'Brown paper packages tied up wtih strings'

]

console.log(raindrops); // 'Raindrops on roses'

console.log(whiskers); // 'whiskers on kitten'

console.log(aFewOfMyFavoriteThings); // 'Bright copper kettles', 'warm woolen mittens', 'Brown paper packages tied up with strings'

//array destructuring 3: what does the following code retrun

let numbers = [10, 20, 30];

[numbers[1], numbers[2]] = [numbers[2], numbers[1]]

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

//ES5 Assigning Variables to Object Properties

var obj = {

    numbers: {

      a: 1,

      b: 2

    }

};

var a = obj.numbers.a;

var b = obj.numbers.b;

    //ES2015 Object Destructuring

    var obj = {

        numbers: {

          a: 1,

          b: 2

        }

    };

    const {a,b} = obj.numbers

//ES5 Array Swap

var arr = [1, 2];

var temp = arr[0];

arr[0] = arr[1];

arr[1] = temp;

//ES2015 One-Line Array Swap with Destructuring

// [1],[2] = [2],[1] my attempt

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

//raceResults()

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