// 1. Define a procedure union

// that takes as input 2 arrays of

// numbers and returns a set of

// numbers from both lists.

// !!! a set is an array that

//contains unique elements

// union([1, 2], [2, 3]) => [1, 2, 3]

// union([1, 1], [2, 3, 4, 2]) => [1, 2, 3, 4]

function union(list1, list2){

let allElements = list1.concat(list2)

let resultSet = []

for (el of allElements){

if (!resultSet.includes(el)){

resultSet.push(el)

}

}

return resultSet

}

// 2. Define a procedure, findElement,

//that takes as its inputs a List

//and a value of any type, and

//outputs the index of the first

//element in the input list that

//matches the value.

//If there is no matching element,

//output -1.

//findElement([1,2,3],3) => 2

function findElement(list, element){

return list.indexOf(element)

}

//findElement(['alpha','beta'],'gamma') => -1

// 3. Write a program that print the contents

// of 2 dimensional array

// Console output should look like this :

// John

// 1940

// Paul

// 1942

// George

// 1943

// Ringo

// 1940

let beatles = [

['John', 1940],

['Paul', 1942],

['George', 1943],

['Ringo', 1940]

]

for (let first\_element of beatles) {

for (let second\_element of first\_element) {

console.log(scond\_element)

}

}