**6 kyu**

**IndexOf Array in Array**

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C#

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JavaScript's indexOf does not work with arrays as input. This is because [1,2] === [1,2] will return false in JavaScript. Many other languages have similar quirks.

However, sometimes it is useful to search for an Array. Write a function that looks for an array within a two-dimensional array and returns the index of the first matching element. If there is no match, your function should return -1.

See some examples in JavaScript below.

var arrayToSearch = [[1,2],[3,4],[5,6]];

var query = [1,2]; // => 0

query = [5,6]; // => 2

query = [9,2]; // => -1

And some examples in C#:

var arrayToSearch = new object[] { new object[] { 1,2 } , new object[] { 3,4 }, new object[] { 5,6 } };

var query = new object[] { 1,2 }; // => 0

query = new object[] { 5,6 }; // => 2

query = new object[] { 9,2 }; // => -1

You will be required to validate the inputs on the following criteria:

* each element of the array to be searched should be an array;
* each sub-array in the two-dimensional array should be of length two; and
* query should be an array of length two.

If the inputs are not valid you should throw an Error/Exception. Please note that in C# the test expects that an exception of type Exception be thrown and no subclass of Exception will pass the tests.

See some examples in JavaScript below.

var arrayToSearch = [[1,2],[3,4],[5,6],[7,8,9]]; // => throw Error

arrayToSearch = [1,2,3,4,5,6]; // => throw Error

arrayToSearch = [[1,2],[3,4],[5,6]]; // => valid input

var query = [1,2]; // => valid input

query = 5; // => throw Error

query = [9,2,1]; // => throw Error

And some examples in C#:

var arrayToSearch = new object[] { new object[] { 1,2 }, new object[] { 3,4 }, new object[] { 5,6 }, new object[] { 7,8,9 } }; // => throw Exception

arrayToSearch = new object[] { 1,2,3,4,5,6 }; // => throw Exception

arrayToSearch = new object[] { new object[] { 1,2 }, new object[] { 3,4 }, new object[] { 5,6 } }; // => valid input

var query = new object[] { 1,2 }; // => valid input

query = new object[] { 9,2,1 }; // => throw Exception

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static int SearchArray(object[][] arrayToSearch, object[] query)

{

if(query.Length != 2)

{

throw new Exception("Error");

}

string search = query[0].ToString() + " " + query[1].ToString();

for(int i =0; i<arrayToSearch.Length; i++)

{

object[] o = arrayToSearch[i];

if(o.Length != 2)

{

throw new Exception("Error");

}

string fila = o[0].ToString() + " " + o[1].ToString();

if(fila == search)

{

return i;

}

}

return -1;

}

static void Main(string[] args)

{

Console.ReadLine();

}

}

}