**6 kyu**

**Array.diff**

4437383% of4,2491,319 of32,628[marcinbunsch](https://www.codewars.com/users/marcinbunsch)

C#

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Your goal in this kata is to implement a difference function, which subtracts one list from another and returns the result.

It should remove all values from list a, which are present in list b.

Kata.ArrayDiff(new int[] {1, 2}, new int[] {1}) => new int[] {2}

If a value is present in b, all of its occurrences must be removed from the other:

Kata.ArrayDiff(new int[] {1, 2, 2, 2, 3}, new int[] {2}) => new int[] {1, 3}

<https://www.codewars.com/kata/array-dot-diff/csharp>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp2

{

class Program

{

public static int[] ArrayDiff(int[] a, int[] b)

{

// Your brilliant solution goes here

// It's possible to pass random tests in about a second ;)

List<int> ans = new List<int>();

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

{

if(!b.Contains(a[i]))

{

ans.Add(a[i]);

}

}

return ans.ToArray();

}

static void Main(string[] args)

{

//Kata.ArrayDiff(new int[] { 1, 2, 2, 2, 3 }, new int[] { 2 })

//=> new int[] { 1, 3 }

int[] a = { 1, 2, 2, 2, 3 };

int[] b = new int[] { 2 };

foreach(int elem in ArrayDiff(a,b))

{

Console.Write(elem + " ");

}

Console.ReadLine();

}

}

}