**5 kyu**

**Array.diff hero**

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JavaScript

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You know about simple [Array.diff task](https://www.codewars.com/kata/array-dot-diff/train/javascript" \t "_blank). Now try to solve enhanced version!

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

It should remove all values from list a, which are present in list b. Each element x in both arrays is integer and 0 ≤ x ≤ 25. And lengths of arrays can reach 5 000 000 elements.

array\_diff\_very\_fast([1,2],[1]) == [2]

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

array\_diff\_very\_fast([1,2,2,2,3],[2]) == [1,3]

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

/\*

var array1 = [1, 2, 3];

console.log(array1.includes(2));

// expected output: true

var pets = ['cat', 'dog', 'bat'];

console.log(pets.includes('cat'));

// expected output: true

console.log(pets.includes('at'));

// expected output: false

\*/

function array\_diff\_very\_fast(a, b) {

elems = [];

for(let i =0; i<=26; i++) {

elems.push(false);

}

for(let i =0; i< b.length; i++) {

elems[b[i]]=true;

}

ans = [];

for(let i =0; i<a.length; i++) {

if(!elems[a[i]]) {

ans.push(a[i]);

}

}

return ans;

}

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 ;)

bool[] elems = new bool[26];

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

{

elems[b[i]] = true;

}

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

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

{

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

//{

// ans.Add(a[i]);

//}

if (!elems[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();

}

}

}