**Array Subset of another array**

Submissions: [12116](https://practice.geeksforgeeks.org/problem_submissions.php?pid=1994)  Accuracy:

45.48%

   Difficulty: [Easy](https://practice.geeksforgeeks.org/Easy/0/0/)   Marks: 2

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Given two arrays: arr1[0..m-1] of size m and arr2[0..n-1] of size n. Task is to check whether arr2[] is a subset of arr1[] or not. Both the arrays can be both unsorted or sorted. It may be assumed that elements in both array are distinct.

**Input:**  
The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case contains an two integers m and n denoting the size of arr1 and arr2 respectively. The following two lines contains the space separated elements of arr1 and arr2 respectively.  
  
**Output:**  
Print "Yes"(without quotes) if arr2 is subset of arr1.  
Print "No"(without quotes) if arr2 is not subset of arr1.  
  
**Constraints:**  
1 <= T <= 100  
1 <= m,n <= 105  
1 <= arr1[i], arr2[j] <= 105  
  
**Example:  
Input:**  
3  
6 4  
11 1 13 21 3 7  
11 3 7 1  
6 3  
1 2 3 4 5 6  
1 2 4  
5 3  
10 5 2 23 19  
19 5 3  
  
**Output:**  
Yes  
Yes  
No

**Explanation:  
Testcase 1:** (11, 3, 7, 1) is a subset of first array.

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/array-subset-of-another-array/0#ExpectOP) option \*\*

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

static void Main(string[] args)

{

int t = int.Parse(Console.ReadLine());

while (t-- > 0)

{

string[] input = Console.ReadLine().Trim().Split(' ');

int n = int.Parse(input[0]);

int m = int.Parse(input[1]);

int[] a = Array.ConvertAll(Console.ReadLine().Trim().Split(' '), e => int.Parse(e));

int[] b = Array.ConvertAll(Console.ReadLine().Trim().Split(' '), e => int.Parse(e));

HashSet<int> hs = new HashSet<int>(a);

int i;

for (i = 0; i < m; i++)

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

break;

if (i == m) Console.WriteLine("Yes");

else Console.WriteLine("No");

}

Console.ReadLine();

}

}

}