**HashTables: Ransom Note**

Harold is a kidnapper who wrote a ransom note, but now he is worried it will be traced back to him through his handwriting. He found a magazine and wants to know if he can cut out whole words from it and use them to create an untraceable replica of his ransom note. The words in his note are *case-sensitive* and he *must* use only whole words available in the magazine. He *cannot*use substrings or concatenation to create the words he needs.

Given the words in the magazine and the words in the ransom note, print Yes if he can replicate his ransom note *exactly* using whole words from the magazine; otherwise, print No.

For example, the note is "Attack at dawn". The magazine contains only "attack at dawn". The magazine has all the right words, but there's a case mismatch. The answer is No.

**Function Description**

Complete the *checkMagazine* function in the editor below. It must print Yes if the note can be formed using the magazine, or No.

checkMagazine has the following parameters:

* *magazine*: an array of strings, each a word in the magazine
* *note*: an array of strings, each a word in the ransom note

**Input Format**

The first line contains two space-separated integers, m and n, the numbers of words in the magazine and the note.   
The second line contains m space-separated strings, each magazine[i] .   
The third line contains n space-separated strings, each note[i].

**Constraints**

* 1<= m,n<=30000
* 1<=magazine[i],note[i]<=5.
* Each word consists of English alphabetic letters (i.e., a to z and A to Z).

**Output Format**

Print Yes if he can use the magazine to create an untraceable replica of his ransom note. Otherwise, print No.

**Sample Input 0**

6 4

give me one grand today night

give one grand today

**Sample Output 0**

Yes

**Sample Input 1**

6 5

two times three is not four

two times two is four

**Sample Output 1**

No

**Explanation 1**

'two' only occurs once in the magazine.

**Sample Input 2**

7 4

ive got a lovely bunch of coconuts

ive got some coconuts

**Sample Output 2**

No

**Explanation 2**

Harold's magazine is missing the word some.

using System.CodeDom.Compiler;

using System.Collections.Generic;

using System.Collections;

using System.ComponentModel;

using System.Diagnostics.CodeAnalysis;

using System.Globalization;

using System.IO;

using System.Linq;

using System.Reflection;

using System.Runtime.Serialization;

using System.Text.RegularExpressions;

using System.Text;

using System;

class Solution {

static void checkMagazine(string[] magazine, string[] note)

{

/\*var myHT = new Hashtable();

//Sort string

Array.Sort(magazine, (x, y) => x.CompareTo(y) );

Array.Sort(note, (x, y) => x.CompareTo(y));

int count = 0;

string Key="";

//save magazine works into hashtable

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

{

myHT.Add(i, magazine[i]);

}

//check words from note

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

{

string n = note[i];

if (myHT.ContainsValue(n))

{

IDictionaryEnumerator e = myHT.GetEnumerator();

while (e.MoveNext())

{

if (e.Value.ToString().Equals(n))

{

Key = e.Key.ToString();

myHT.Remove(Int32.Parse(Key));

count++;

break;

}

}

}

}

if (count == note.Length) Console.Write("Yes");

else Console.Write("No"); \*/

//my code pass 19/21 tests except 16,17

var mgGroup = magazine.OrderBy(d=> d).GroupBy(d=> d).ToDictionary(

g=> g.Key,

g=> g.Count()

);

var noteGroup = note.OrderBy(d=> d).GroupBy(d=> d).ToDictionary(

g=> g.Key,

g=> g.Count()

);

foreach(var i in noteGroup)

{

if(!mgGroup.Any(d=> d.Key == i.Key && d.Value >= i.Value))

{

Console.WriteLine("No");

return;

}

mgGroup.Remove(i.Key);

}

Console.WriteLine("Yes");

}

static void Main(string[] args) {

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

int m = Convert.ToInt32(mn[0]);

int n = Convert.ToInt32(mn[1]);

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

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

checkMagazine(magazine, note);

}

}

**Congratulations**

You solved this challenge. Would you like to challenge your friends?

[Proceed](https://www.hackerrank.com/interview/interview-preparation-kit)

* **Test case 0**
* **Test case 1**
* **Test case 2**
* **Test case 3**
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* **Test case 5**
* **Test case 6**
* **Test case 7**
* **Test case 8**
* **Test case 9**
* **Test case 10**
* **Test case 11**
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* **Test case 14**
* **Test case 15**
* **Test case 16**
* **Test case 17**
* **Test case 18**
* **Test case 19**
* **Test case 20**
* **Test case 21**