



Hash Tables: Ransom Note ★

Your Hash Tables: Ransom Note submission got 25.00 points.

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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.

Example

magazine = "attack at dawn" **note** = "Attack at dawn"

The magazine has all the right words, but there is 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:

- string magazine[m]: the words in the magazine
- string note[n]: the words in the ransom note

Prints

- string: either **Yes** or **No**, no return value is expected

Input Format

The first line contains two space-separated integers, **m** and **n**, the numbers of words in the **magazine** and the **note**, respectively.

The second line contains **m** space-separated strings, each **magazine[i]**.

The third line contains **n** space-separated strings, each **note[i]**.

Constraints

- $1 \leq m, n \leq 30000$
- $1 \leq \text{length of } \text{magazine}[i] \text{ and } \text{note}[i] \leq 5$
- Each word consists of English alphabetic letters (i.e., **a** to **z** and **A** to **Z**).

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*.

[Change Theme](#)

JavaScript (Node.js)



```
24
25 // Complete the checkMagazine function below.
26 function checkMagazine(magazine, note) {
27     var ransom = true;
28     var map = {};
29     for(var word of magazine){
30         map[word] = (map[word] || 0) + 1;
31     }
32     for (let word of note){
33         map[word] = (map[word] || 0) - 1;
34     }
35     for (let key in map){
36         if (map[key] < 0){
37             ransom = false;
38             break
39         }
40     }
41     if (ransom){
42         console.log("Yes")
43     } else {
44         console.log("No")
45     }
46 }
47
```

Line: 47 Col: 1

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Congratulations



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next challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

```
1 6 4
2 give me one grand today night
3 give one grand today
```

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Expected Output

```
1 Yes
```

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