Hash Tables: Ransom Note ★

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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

- $1 \leq m, n \leq 30000$

- $1 \leq lengths\ of\ magazine[i]\ and\ note[i] \leq 5$.

- 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   Python 3   ⌄   ↺ ⤢ ⚙

```python
 1    #!/bin/python3
 2
 3    import math
 4    import os
 5    import random
 6    import re
 7    import sys
 8
 9    # Complete the checkMagazine function below.
10    def checkMagazine(magazine, note):
11        d = {}
12        for word in magazine:
13            d.setdefault(word, 0)
14            d[word] += 1
15
16        for word in note:
17            if word in d:
18                d[word] -= 1
19            else:
20                d[word] = -1
```

```
21
22        result = all([x >= 0 for x in d.values()])
23
24        if result:
25            print("Yes")
26        else:
27            print("No")
```

Line: 42 Col: 1

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