



DefaultDict Tutorial ★

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Problem

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The defaultdict tool is a container in the collections class of Python. It's similar to the usual dictionary (dict) container, but the only difference is that a defaultdict will have a default value if that key has not been set yet. If you didn't use a defaultdict you'd have to check to see if that key exists, and if it doesn't, set it to what you want.

For example:

```
from collections import defaultdict
d = defaultdict(list)
d['python'].append("awesome")
d['something-else'].append("not relevant")
d['python'].append("language")
for i in d.items():
    print i
```

This prints:

```
('python', ['awesome', 'language'])
('something-else', ['not relevant'])
```

In this challenge, you will be given **2** integers, ***n*** and ***m***. There are ***n*** words, which might repeat, in word group ***A***. There are ***m*** words belonging to word group ***B***. For each ***m*** words, check whether the word has appeared in group ***A*** or not. Print the indices of each occurrence of ***m*** in group ***A***. If it does not appear, print **-1**.

Example

Group A contains 'a', 'b', 'a' Group B contains 'a', 'c'

For the first word in group B, 'a', it appears at positions **1** and **3** in group A. The second word, 'c', does not appear in group A, so print **-1**.

Expected output:

```
1 3
-1
```

Input Format

The first line contains integers, ***n*** and ***m*** separated by a space.

The next ***n*** lines contains the words belonging to group ***A***.

The next ***m*** lines contains the words belonging to group ***B***.

Constraints

$$1 \leq n \leq 10000$$

$$1 \leq m \leq 100$$

$$1 \leq \text{length of each word in the input} \leq 100$$

Output Format



Output m lines.

The i^{th} line should contain the 1-indexed positions of the occurrences of the i^{th} word separated by spaces.

Sample Input

STDIN	Function
5 2	group A size n = 5, group B size m = 2
a	group A contains 'a', 'a', 'b', 'a', 'b'
a	
b	
a	
b	
a	group B contains 'a', 'b'
b	

Sample Output

```
1 2 4
3 5
```

Explanation

'a' appeared **3** times in positions **1**, **2** and **4**.

'b' appeared **2** times in positions **3** and **5**.

In the sample problem, if 'c' also appeared in word group **B**, you would print **-1**.

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```

1  from collections import defaultdict
2  d=defaultdict(list)
3  n,m=map(int,input().split())
4  for i in range(n):
5      d[input()].append(i+1)
6  for i in range(m):
7      w=input().strip()
8      if w in d:
9          print(*d[w])
10     else:
11         print(-1)
12
13
14

```

Line: 14 Col: 1

Congratulations

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

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)

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```
1 5 2
2 a
3 a
4 b
5 a
6 b
7 a
8 b
```

