DefaultDict Tutorial

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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.

Constraints

$1 \leq n \leq 10000$

$1 \leq m \leq 100$

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

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.

Output Format

Author	sandyeep
Difficulty	Easy
Max Score	20
Submitted By	14551

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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

```
5 2
a
a
b
a
b
a
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.

Current Buffer (saved locally, editable) Python 3

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

Line: 3 Col: 19

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Testcase 0 Testcase 1 Testcase 2 Testcase 3

10 Testcases

Input (stdin) Download

```
5 2
a
a
b
```

Expected Output Download

```
1 2 4
3 5
```

Compiler Message

```
Success
```