DefaultDict Tutorial

HackerRank

Problem Statement

DefaultDict is a container in the collections class of Python. It is almost the same as the usual dictionary (dict) container but with one difference. The value fields' data-type is specified upon initialization.
A basic snippet showing the usage follows:

```
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) and n words which might repeat, say they belong to a word group A. Then you'll be given m other words belonging to word group B. For each of these m words, you have to check whether the word has appeared in A or not. If it has then you have to print indices of all of its occurences. If it has not then just 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 n and m.
The next n lines contain the words belonging to A.
The next m lines contain the words belonging to B.

Output Format

Output m lines.
The i^{th} line should contain the 1 indexed positions of occurences of the i^{th} word, separated by spaces, of the last m lines of the input.

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 position 3 and 5. Hence the output. For the same word group A, had the appearances of **'c'** been asked about in the word group B, you would have had to print -1 instead.