# **DefaultDict Tutorial**



#### **Problem Statement**

The *defaultdict* tool is a container in the collections class of Python. It's similar to the usual dictionary (*dict*) container, but it has one difference: The value fields' data type is specified upon initialization.

## 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**

```
\begin{split} &1 \leq n \leq 10000 \\ &1 \leq m \leq 100 \\ &1 \leq \textit{ length of each word in the input} \leq 100 \end{split}
```

## **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.

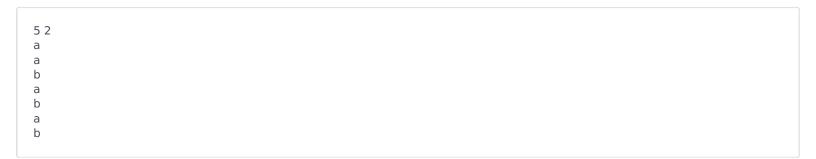
The next m lines contains the words belonging to group B.

## **Output Format**

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



## **Sample Output**

## **Explanation**

- $\mbox{\bf 'a'}$  appeared 3 times in positions  $1,\,2$  and 4.
- $\mbox{\bf 'b'}$  appeared 2 times in positions 3 and 5.

In the sample problem, if  ${\bf 'c'}$  also appeared in word group B, you would print -1.