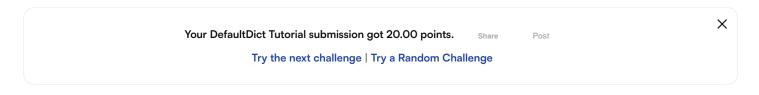
# DefaultDict Tutorial \*





Problem Submissions Leaderboard Editorial A

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  $\mathbf{2}$  integers,  $\mathbf{n}$  and  $\mathbf{m}$ . There are  $\mathbf{n}$  words, which might repeat, in word group  $\mathbf{A}$ . There are  $\mathbf{m}$  words belonging to word group  $\mathbf{A}$  or not. Print the indices of each occurrence of  $\mathbf{m}$  in group  $\mathbf{A}$ . If it does not appear, print  $\mathbf{-1}$ .

#### 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,  $\boldsymbol{n}$  and  $\boldsymbol{m}$  separated by a space.

The next  $m{n}$  lines contains the words belonging to group  $m{A}$ .

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

#### Constraints

 $1 \le n \le 10000$ 

 $1 \le m \le 100$ 

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

# **Output Format**

Output  ${m m}$  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  ${\bf 'c'}$  also appeared in word group  ${\bf \it B}$ , you would print  ${\bf -1}$ .

```
Change Theme Language Python 3 

# Enter your code here. Read input from STDIN. Print output to STDOUT
```

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

**EMACS** Line: 12 Col: 23 Run Code Submit Code 1 Upload Code as File Test against custom input You have earned 20.00 points! 56/115 challenges solved. 49% Congratulations Next Challenge You solved this challenge. Would you like to challenge your friends? Compiler Message Success Download Input (stdin) 4 **b** 7 a 8 **b** 

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