Sparse Arrays ⭐

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There is a collection of input strings and a collection of query strings. For each query string, determine how many times it occurs in the list of input strings. Return an array of the results.

Example

$stringList = ['ab','ab','abc']$

$queries = ['ab','abc','bc']$

There are 2 instances of 'ab', 1 of 'abc', and 0 of 'bc'. For each query, add an element to the return array: $results = [2, 1, 0]$.

Function Description

Complete the function $matchingStrings$ with the following parameters:

- **string $stringList[n]$**: an array of strings to search

- **string $queries[q]$**: an array of query strings

Returns

- **$int[q]$**: the results of each query

Input Format

The first line contains and integer n, the size of $stringList[]$.
Each of the next n lines contains a string $stringList[i]$.
The next line contains q, the size of $queries[]$.
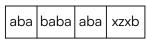Each of the next q lines contains a string $queries[i]$.

Constraints

$1 \le n \le 1000$
$1 \le q \le 1000$
$1 \le |stringList[i]|, |queries[i]| \le 20$.

Sample Input 1

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aba	baba	aba	xzxb

Array: stringList

```
4
aba
baba
aba
xzxb
3
aba
xzxb
ab
```

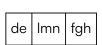| aba	xzxb	ab

Array: queries

Sample Output 1

```
2
1
0
```

Explanation 1

Here, "aba" occurs twice, in the first and third string. The string "xzxb" occurs once in the fourth string, and "ab" does not occur at all.

Sample Input 2

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def	de	fgh

Array: stringList

de	lmn	fgh

Array: queries

```
3
def
de
fgh
3
de
lmn
fgh
```

Sample Output 2

```
1
0
1
```

Sample Input 3

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abcde	sdaklfj	asdjf	na	basdn	sdaklfj	asdjf	na	asdjf	na	basdn	sdaklfj	asdjf

Array: stringList

abcde	sdaklfj	asdjf	na	basdn

Array: queries

```
13
abcde
sdaklfj
asdjf
na
basdn
sdaklfj
asdjf
na
asdjf
na
basdn
sdaklfj
asdjf
5
abcde
sdaklfj
asdjf
```

na
basdn

Sample Output 3

```
1
3
4
3
2
```
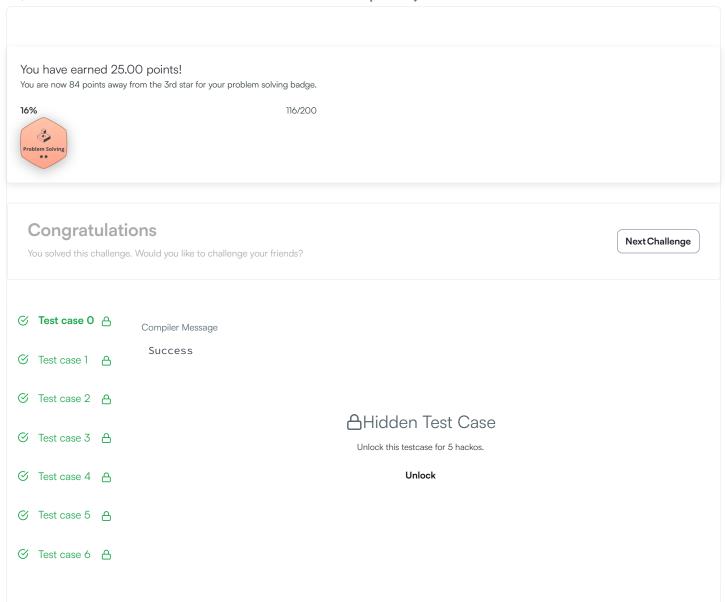
Change Theme   Language   Python 3

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```python
def matchingStrings(stringList, queries):
    # Write your code here
    results = []
    counter = collections.Counter(stringList)
    for q in queries:
        if q in counter:
            results.append(counter[q])
        else:
            results.append(0)
    return results

if __name__ == '__main__':
    fptr = open(os.environ['OUTPUT_PATH'], 'w')

    stringList_count = int(input().strip())

    stringList = []

    for _ in range(stringList_count):
        stringList_item = input()
        stringList.append(stringList_item)

    queries_count = int(input().strip())

    queries = []

    for _ in range(queries_count):
        queries_item = input()
        queries.append(queries_item)

    res = matchingStrings(stringList, queries)
```
50

EMACS   Line: 33 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

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