



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.

For example, given input **strings** = ['ab', 'ab', 'abc'] and **queries** = ['ab', 'abc', 'bc'], we find **2** instances of 'ab', **1** of 'abc' and **0** of 'bc'. For each query, we add an element to our return array, **results** = [2, 1, 0].

Function Description

Complete the function `matchingStrings` in the editor below. The function must return an array of integers representing the frequency of occurrence of each query string in `strings`.

`matchingStrings` has the following parameters:

- `strings` - an array of strings to search
- `queries` - an array of query strings

Input Format

The first line contains an integer **n**, the size of **strings**.

Each of the next **n** lines contains a string **strings[i]**.

The next line contains **q**, the size of **queries**.

Each of the next **q** lines contains a string **q[i]**.

Constraints

$$1 \leq n \leq 1000$$

$$1 \leq q \leq 1000$$

$$1 \leq |\text{strings}[i]|, |\text{queries}[i]| \leq 20$$

Output Format

Return an integer array of the results of all queries in order.

Sample Input 1

aba	baba	aba	xzxb
-----	------	-----	------

Array: strings

4
aba
baba
aba
xzxb
3
aba

xzxb

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aba	xzxb	ab
-----	------	----

Array: queries

ab

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.

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Sample Input 2

def	de	fgh
-----	----	-----

Array: strings

3
def
de
fgh
3
de
lmn
fgh

de	lmn	fgh
----	-----	-----

Array: queries

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: strings

13
abcde
sdaklfj
asdjf
na

basdn



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

Array: queries

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

Sample Output 3

```
1
3
4
3
2
```

Java 8



```
1  import java.io.*;
2  import java.math.*;
3  import java.security.*;
4  import java.text.*;
5  import java.util.*;
6  import java.util.concurrent.*;
7  import java.util.regex.*;
8  import java.util.function.Function;
9  import java.util.stream.Collectors;
10
11 public class Solution {
12
13     // Complete the matchingStrings function below.
14     static int[] matchingStrings(String[] strings, String[] queries) {
15         final Map<String, Long> dict = Arrays.stream(strings)
16             .collect(Collectors.groupingBy(Function.identity(), Collectors.counting()));
17
18         final int[] res = Arrays.stream(queries).mapToInt(query -> {
19             if (dict.containsKey(query)) {
20                 return dict.get(query).intValue();
21             }
22             return 0;
23         }).toArray();
24
25     return res;
```



```
25  
26     }  
27  
28     private static final Scanner scanner = new Scanner(System.in);
```

Line: 1 Col: 1

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