





# **Sparse Arrays ☆**

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### RATE THIS CHALLENGE



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 and integer  $m{n}$ , the size of  $m{strings}$ .

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

 $1 \le n \le 1000$ 

 $1 \le q \le 1000$ 

 $1 \leq |strings[i]|, |queries[i]| \leq 20$ .

## **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

aba xzxb

3 aba

xzxb



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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 Copy Download



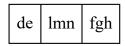
Array: strings

def de fgh 3

3

ab

de lmn fgh



Array: queries

# Sample Output 2

1

0

1

Sample Input 3

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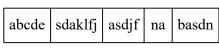


abcde sdaklfj asdjf na

13

basdn





Array: queries

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

sdaklfj

#### 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
     public class Solution {
11
12
13
         // Complete the matchingStrings function below.
         static int[] matchingStrings(String[] strings, String[] queries) {
14
15
             final Map<String, Long> dict = Arrays.stream(strings)
                     .collect(Collectors.groupingBy(Function.identity(), Collectors.counting()
16
     ));
             final int[] res = Arrays.stream(queries).mapToInt(query -> {
17
18
                 if (dict.containsKey(query)) {
19
                     return dict.get(query).intValue();
20
21
                 return 0;
22
             }).toArray();
23
             return res;
```

```
25
26 }
27
28 private static final Scanner scanner = new Scanner(System.in);
Line: 1 Col: 1

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