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Sparse Arrays

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Problem

Submissions

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There are N strings. Each string's length is no more than 20 characters. There are also Q queries. For each query, you are given a string, and you need to find out how many times this string occurred previously.

Input Format

The first line contains N , the number of strings.

The next N lines each contain a string.

The $N + 2^{\text{nd}}$ line contains Q , the number of queries.

The following Q lines each contain a query string.

Constraints

$$1 \leq N \leq 1000$$

$$1 \leq Q \leq 1000$$

$$1 \leq \text{length of any string} \leq 20$$

Sample Input

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

Sample Output

```
2
1
0
```

Explanation

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.



Submissions: 42041

Max Score: 25

Difficulty: Medium

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C#  

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 class Solution {
6     static void Main(String[] args) {
7         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be
            named Solution */
8
9
10        int n = int.Parse(Console.ReadLine());
11        string[] s = new string[n];
12        for (int i = 0; i < n; i++)
13        {
14            s[i] = Console.ReadLine();
15        }
16
17        int q = int.Parse(Console.ReadLine());
18        string[] queries = new string[q];
19        for (int i = 0; i < q; i++)
20        {
21            queries[i] = Console.ReadLine();
22        }
23
24        Dictionary<string, int> freq = s.GroupBy(x => x)
25            .ToDictionary(x => x.Key, x => x.Count());
26
27        foreach (string que in queries)
28        {
29            if (freq.ContainsKey(que))
30            {
31                Console.WriteLine(freq[que]);
32            }
33            else
34            {
35                Console.WriteLine(0);
36            }
37        }
38    }
39 }
40 }
41 }
```

Line: 4 Col: 19

 Upload Code as File☐ Test against custom input

Run Code

Submit Code

Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #3

✓ Test Case #6

✓ Test Case #9

✓ Test Case #1

✓ Test Case #4

✓ Test Case #7

✓ Test Case #10

✓ Test Case #2

✓ Test Case #5

✓ Test Case #8

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