Sparse Arrays 🔖

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There is a collection of N strings (There can be multiple occurences of a particular string). 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 occurs in the given collection of N strings.

Input Format

The first line contains N, the number of strings.
The next N lines each contain a string.
The $N + 2^{nd}$ line contains Q, the number of queries.
The following Q lines each contain a query string.

Constraints

$1 \leq N \leq 1000$
$1 \leq Q \leq 1000$
$1 \leq length\ of\ any\ string \leq 20$

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.

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Submissions:68955

Max Score:25
Difficulty: Medium

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```java
1  import java.io.*;
2  import java.util.*;
3
4  public class Solution {
5
6      public 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  }
```

Line: 1 Col: 1

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