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# Sparse Arrays

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Problem

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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: 2043

Max Score: 25

Difficulty: Difficult

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C++

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

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