

# Sparse Arrays



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

The following Q lines each contain a query string.

#### Constraints

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

### Sample Input

4 aba haha aba xzxb

aba

xzxb ab

## Sample Output

2 1

## 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.

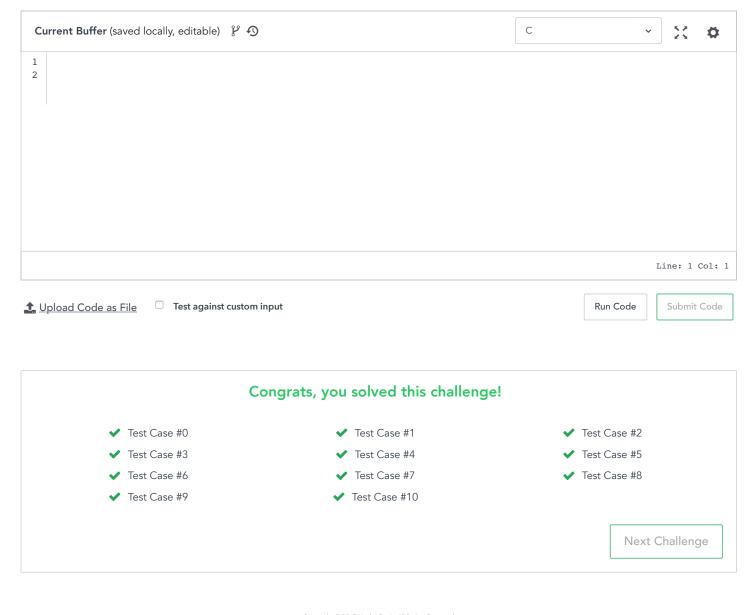
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Submissions: 37968 Max Score: 25 Difficulty: Medium

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