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Sparse Arrays



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There is a collection of N strings (There can be multiple occurrences 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 $N+2^{\rm nd}$ line contains Q, the number of queries.

The following Q lines each contain a query string.

Constraints

 $1 \le N \le 1000$

 $1 \le Q \le 1000$

 $1 \leq length \ of \ any \ string \leq 20$

Sample Input

4

aba

baba aba

xzxb

3

aba xzxb

ab

Sample Output

2

1

Explanation

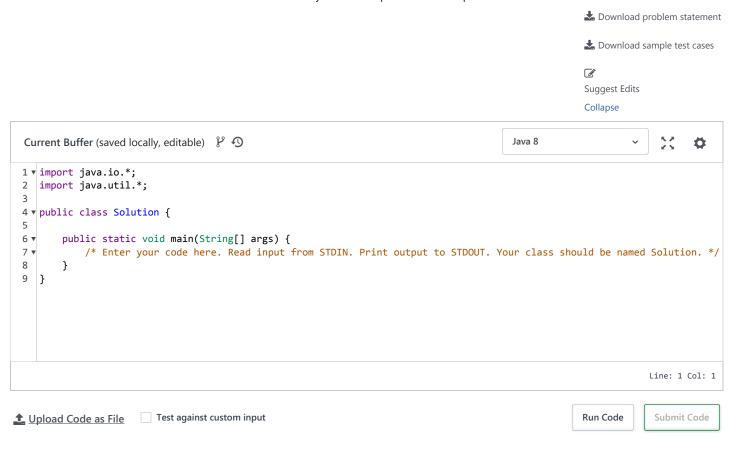
Here, "aba" occurs twice, in the first and third string. The string "xzxb" occurs once in the fourth string, and "ab" does not occur at all.

f ⊮ in

Submissions: 68955

Max Score:25
Difficulty: Medium

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