

# Sparse Arrays



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  $N + 2^{\text{nd}}$  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 0

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

## Sample Output 0

```
2
1
0
```

## Explanation 0

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.