There is a collection of  strings ( There can be multiple occurences of a particular string ). Each string's length is no more than  characters. There are also  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  strings.

**Input Format**

The first line contains , the number of strings.  
The next  lines each contain a string.  
The nd line contains , the number of queries.  
The following  lines each contain a query string.

**Constraints**

 

**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.