## J. Prefix Query

Time Limit: 5 seconds

## **Problem description**

You are given a database of N strings and you need to handle Q queries. Each query contains a prefix string, and for each query, you need to find out how many strings in the database have the given prefix.

## **Input:**

The first line contains an integer N ( $1 \le N \le 10,000,000$ ), the number of strings in the database.

The next N lines each contain one string from the database. Each string consists of lowercase English letters and has a length of at most 100 characters.

The next line contains an integer Q ( $1 \le Q \le 100$ ), the number of queries.

The next Q lines each contain one string representing a query. Each query string consists of lowercase English letters and has a length of at most 100 characters.

## **Output:**

For each query, print the count of strings in the database that have the given prefix on a new line.

**Example:** 

ID	Input	Output
1	1000	1000
	string1	1000
	string2	
	string3	
	string999	
	string1000	
	2	
	string	
	str	
2	3	1
	aabb	1
	bbcc	
	ccdd	
	2	
	aa	
	cc	
3	3	1
	aa	0
	bb	
	cc	

2	
aa	
dd	