

**Notice:** 1:由于本OJ建立在Linux平台下，而许多题的数据在Windows下制作，请注意输入、输出语句及数据类型及范围，避免无谓的RE出现。 2:本站即将推出针对初学者的试题系统(与目前OJ是分开的，互不影响)，内容覆盖从语法入门到NOI的所有知识点，敬请关注。

## 2780: [Spoj]8093 Sevenk Love Oimaster

Time Limit: 1 Sec Memory Limit: 128 MB

Submit: 582 Solved: 189

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### Description

Oimaster and sevenk love each other.

*But recently,sevenk heard that a girl named ChuYuXun was dating with oimaster.As a woman's nature, sevenk felt angry and began to check oimaster's online talk with ChuYuXun. Oimaster talked with ChuYuXun  $n$  times, and each online talk actually is a string.Sevenk asks  $q$  questions like this, "how many strings in oimaster's online talk contain this string as their substrings?"*

### Input

*There are two integers in the first line,  
the number of strings  $n$  and the number of questions  $q$ .  
And  $n$  lines follow, each of them is a string describing oimaster's online talk.  
And  $q$  lines follow, each of them is a question.  
 $n \leq 10000$ ,  $q \leq 60000$   
the total length of  $n$  strings  $\leq 100000$ ,  
the total length of  $q$  question strings  $\leq 360000$*

### Output

For each question, output the answer in one line.

## Sample Input

```
3 3
abcabcabc
aaa
aafe
abc
a
ca
```

## Sample Output

```
1
3
1
```

## HINT

## Source

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