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? Ask Doubt

Time-Limit: 2 sec

Score: 0/100

Difficulty : ★★★★★

Memory: 256 MB

Accepted Submissions: 100

Relevant For:

AZ-201

Description

Given an array of string **products** and a string **searchWord**. We want to design a system that suggests at most three product names from products after **searchWord** is typed. Suggested products should have a common prefix with the **searchWord**. If there are more than three products with a common prefix return the three lexicographically minimums products.

Return a list of lists of the suggested products after **searchWord** is typed.

Input Format

The first line of input contains **N** - the number of products.
The second line contains product names separated by space.
The third line of input contains **Q** - the number of queries.
The next Q lines queries contain **searchWord**.

Constraints

$1 \leq N \leq 10^3$
 $1 \leq Q \leq 10^3$
 $1 \leq |product_name|, |searchWord| \leq 10^3$
It's guaranteed that all product names are unique.

Sample Input 1

Copy

```
6
mobile mouse moneypot monitor mousepad mango
3
m
mous
mo
```

Sample Output 1

Copy

```
mango mobile moneypot
mouse mousepad
mobile moneypot monitor
```

C++14[GCC] ▾

Submit

1 ▾ #include <bits/stdc++.h>

2 using namespace std;

3

4 class SearchSuggestionSystem