



# Sparse Arrays

Problem

Submissions

Leaderboard

There is a collection of input strings and a collection of query strings. For each query string, determine how many times it occurs in the list of input strings.

For example, given input ***strings*** = ['*ab*', '*ab*', '*abc*'] and ***queries*** = ['*ab*', '*abc*', '*bc*'], we find **2** instances of '*ab*', **1** of '*abc*' and **0** of '*bc*'. For each query, we add an element to our return array, ***results*** = [2, 1, 0].

## Function Description

Complete the function *matchingStrings* in the editor below. The function must return an array of integers representing the frequency of occurrence of each query string in *strings*.

*matchingStrings* has the following parameters:

- *strings* - an array of strings to search
- *queries* - an array of query strings

## Input Format

The first line contains an integer  $n$ , the size of *strings*.

Each of the next  $n$  lines contains a string *strings*[ $i$ ].

The next line contains  $q$ , the size of *queries*.

Each of the next  $q$  lines contains a string *q*[ $i$ ].

## Constraints

$$1 \leq n \leq 1000$$

$$1 \leq q \leq 1000$$

$$1 \leq |\text{strings}[i]|, |\text{queries}[i]| \leq 20.$$

## Output Format

Return an integer array of the results of all queries in order.



Contest ends in an hour

Submissions: 334

Max Score: 15

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C++



```
1 #include <bits/stdc++.h>
```

```
2
```

```
3 using namespace std;
4
5 // Complete the matchingStrings function below.
6
7 int main(){
8     cin.tie(0);
9     ios::sync_with_stdio(false);
10    int N;
11    cin>>N;
12    vector<string> v(N);
13    for(int i=0;i<N;i++)cin>>v[i];
14    sort(v.begin(),v.end());
15    cin>>N;
16    for(int i=0;i<N;i++){
17        string s;
18        cin>>s;
19        auto it1=lower_bound(v.begin(),v.end(),s);
20        auto it2=upper_bound(v.begin(),v.end(),s);
21        printf("%d\n",it2-it1);
22    }
23 }
```

Line: 1 Col: 1

[!\[\]\(cbe80b694ebd74fcfe136a095b608235\_img.jpg\) Upload Code as File](#) ☐ Test against custom input

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