Sparse Arrays ⭐

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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. Return an array of the results.

Example

$strings = ['ab', 'ab', 'abc']$

$queries = ['ab', 'abc', 'bc']$

There are 2 instances of 'ab', 1 of 'abc' and 0 of 'bc'. For each query, add an element to the 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:

- *string strings[n]* - an array of strings to search

- *string queries[q]* - an array of query strings

Returns

- *int[q]:* an array of results for each query

Input Format

The first line contains and 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 $queries[i]$.

Constraints

$1 \leq n \leq 1000$
$1 \leq q \leq 1000$
$1 \leq |strings[i]|, |queries[i]| \leq 20$.

Sample Input 1

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aba	baba	aba	xzxb

Array: strings

aba	xzxb	ab

Array: queries

```
4
aba
baba
aba
xzxb
3
aba
xzxb
ab
```
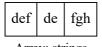
Sample Output 1

```
2
1
0
```

Explanation 1

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.

Sample Input 2

Array: strings

Array: queries

```
3
def
de
fgh
3
de
lmn
fgh
```

Sample Output 2

```
1
0
1
```

Sample Input 3

Array: strings

Array: queries

```
13
abcde
sdaklfj
asdjf
na
basdn
sdaklfj
asdjf
na
asdjf
na
basdn
sdaklfj
asdjf
5
abcde
sdaklfj
asdjf
na
basdn
```

Sample Output 3
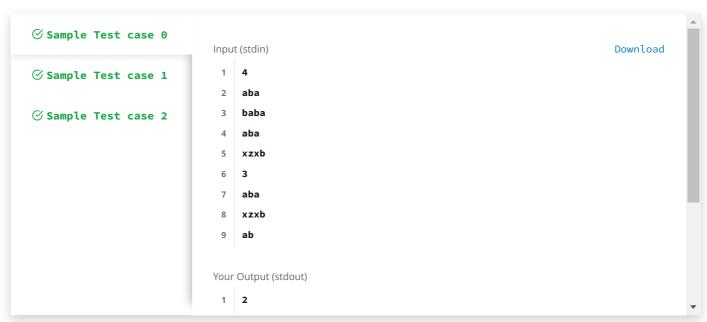
```
1
3
4

3
```

2

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```
 9    import java.util.stream.*;
10    import static java.util.stream.Collectors.joining;
11    import static java.util.stream.Collectors.toList;
12
13    class Result {
14
15        /*
16         * Complete the 'matchingStrings' function below.
17         *
18         * The function is expected to return an INTEGER_ARRAY.
19         * The function accepts following parameters:
20         *  1. STRING_ARRAY strings
21         *  2. STRING_ARRAY queries
22         */
23
24        public static List<Integer> matchingStrings(List<String> strings, List<String>
      queries) {
25
26        List<Integer> result = new ArrayList<Integer>();
27
28        for(int i=0;i<queries.size();i++){
29
30            result.add(Collections.frequency(strings,queries.get(i)));
31        }
32        return result;
33
34    }
```

Line: 35 Col: 2

↑ Upload Code as File   ☐ Test against custom input   **Run Code**   **Submit Code**

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

⊘ **Sample Test case 0**	Input (stdin)	Download
⊘ **Sample Test case 1**		
⊘ **Sample Test case 2**		

```
1    4
2    aba
3    baba
4    aba
5    xzxb
6    3
7    aba
8    xzxb
9    ab
```

Your Output (stdout)

```
1    2
```

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