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# 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

**stringList** = ['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 stringList.

matchingStrings has the following parameters:

- string stringList[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 an integer **n**, the size of **stringList**.

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

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

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

## Constraints

$$1 \leq n \leq 1000$$

$$1 \leq q \leq 1000$$

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

## Sample Input 1

aba	baba	aba	xzxb
-----	------	-----	------

Array: stringList

4  
aba  
baba  
aba  
xzxb

Author [ikbalkazar](#)  
Difficulty [Medium](#)  
Max Score 25  
Submitted By [308558](#)

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aba	xzxb	ab
-----	------	----

Array: queries

```
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**[Copy](#) [Download](#)

def	de	fgh
-----	----	-----

Array: stringList

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

de	lmn	fgh
----	-----	-----

Array: queries

**Sample Output 2**

```
1
0
1
```

**Sample Input 3**[Copy](#) [Download](#)

abcde	sdaklfj	asdjf	na	basdn	sdaklfj	asdjf	na	asdjf	na	basdn	sdaklfj	asdjf
-------	---------	-------	----	-------	---------	-------	----	-------	----	-------	---------	-------

Array: strings

abcde	sdaklfj	asdjf	na	basdn
-------	---------	-------	----	-------

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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Language

Haskell



```

1  {-# LANGUAGE DuplicateRecordFields,
   2    FlexibleInstances, UndecidableInstances
   3    #-}
   4
   5  module Main where
   6
   7  import Control.Monad
   8  import Data.Array
   9  import Data.Bits
  10  import Data.List
  11  import Data.List.Split
  12  import Data.Set
  13  import Data.Text
  14  import Debug.Trace
  15  import System.Environment
  16  import System.IO
  17  import System.IO.Unsafe
  18
  19  --
  20  -- Complete the 'matchingStrings'
  21  -- function below.
  22
  23  --
  24  -- The function is expected to return an
  25  -- INTEGER_ARRAY.
  26
  27  -- The function accepts following

```

Line: 60 Col: 1

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