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 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 $q[i]$.

Constraints

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

Output Format

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