

/E EVENTS

# **Shopee Programming Contest #1**

LIVE INVITE ONLY ACCESS

Jun 27, 2020, 02:00 PM CST - Jun 27, 2020, 03:00 PM CST

INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE

-- Problems / Search Engine

Search Engine

Max. score: 20

Who doesn't like to search and see these unexpected search suggestions floating just below the search bar. Everyone likes it!!! As we all know Shopee, one of the largest E-commerce platforms, also has a search bar where users can search for all kinds of items. Shopee wants to build a new search engine. And you are to help Shopee to implement this new engine.

You are given a data set that contains all the item's names, and an item's name is represented as an ordered sequence of strings separated by a single space and the strings contain only lowercase English alphabets(a-z) and digits(0-9). for example, a valid name could be, "apple iphone se 2". Queries for the new search engine will be a sequence of alphanumeric strings separated by space. For example, "se 2" or "11 pro max" and the search engine has to answer how many different items are there in the data set containing the query sequence in their name in exact order. For example, "se 2" matches the item "apple iphone se 2", however "app" doesn't match this item.

### Input

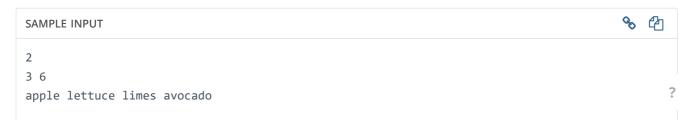
Input starts with an integer T ( $1 \le T \le 15$ ), denoting the number of test cases. The first line of each test case will contain two integers N ( $1 \le N \le 10^4$ ) and Q ( $1 \le Q \le 10^4$ ). Here, N is the number of items in the database and Q is the total number of queries. Each of the next N lines will contain an item's name as described. Each of the next Q lines will contain a search query as described. You can safely assume that each item's name will contain at most 10 spaces and the total length will be between 1 to 50.

## Output

For each case, print the case number in a single line. Then for each query **Q** print the number of different names in the database who contains the query sequence in their name in exact order.

#### **Constraints**

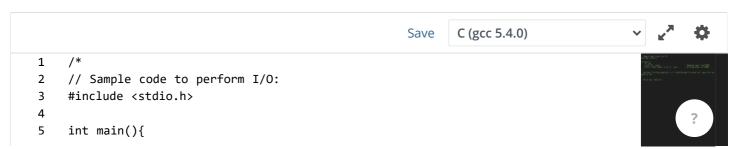
Total number of characters in the dataset will be not more than 7×10<sup>5</sup>



```
Search Engine - Shopee Programming Contest #1 | HackerEarth
    onion cranberries apple limes
    escarole corn28corn apple lettuce limes avocado
    limes avocado
    apple lettuce
    limes
    apple
    app
    apple limes
    3 3
    apple iphone se 2
    iphone 11 max pro
    iphone 11 pro max
    apple iphone
    max pro
    iphone
                                                                                                      % 4
    SAMPLE OUTPUT
    Case 1:
    2
    2
    3
    3
    0
    1
    Case 2:
    1
    1
    3
Explanation
For the first test case, both "limes avocado" and "apple lettuce" match both 1st and 3rd items, "limes" and "apple"
match in all three items, "app" doesn't match any item and "apple limes" matches the second item.
Time Limit:
                   1.0 sec(s) for each input file.
```

**Memory Limit:** 256 MB **Source Limit:** 1024 KB **Marking Scheme:** Score is assigned when all the testcases pass. Allowed Languages: Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift-4.1, Swift, TypeScript, Visual Basic

#### **CODE EDITOR**



```
int num;
scanf("%d", &num);
 6
7
                                                           // Reading input from STDIN
          printf("Input number is %d.\n", num);
                                                        // Writing output to STDOUT
 8
 9
     }
10
     // Warning: Printing unwanted or ill-formatted data to output will cause the test
11
     cases to fail
12
     */
13
14
     // Write your code here
15
                                                                                             12:3 vscode
```

■ Provide custom input

**COMPILE & TEST** 

SUBMIT

Tip: You can submit any number of times you want. Your best submission is considered for computing total score.

Your Rating:

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