

Travel the World

Problem Code: **CITYTRAV**


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This problem is worth 1 point.

Sandeep and Pali want to go on holiday. Their parents have given them a list of cities they can visit. A list may contain a city more than once. Both of them want to go to places of their parents choice. As they want to travel together, they have to agree upon a common route. No one wants to change the order of the cities on his list or add other cities. Therefore they have no choice but to remove some cities from the list. Of course the common route is to involve as much sight-seeing in cities as possible. There are exactly 26 cities in the region. Therefore they are encoded on the lists as lower case letters from 'a' to 'z'.

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Input

The first line of input contains a number $T \leq 10$ that indicates the number of test cases to follow. Each test case consists of two lines; the first line is the list of Sandeep, the second line is the list of Pali. Each list consists of 1 to 1000 lower case letters.

Output

Output of each testcase should contain the maximum number of cities they can visit together.

Solution Templates

In the solution templates provided, complete the function whose signature is

```
C
int commonCitiesVisited(char sCityVisited[1024], char
pCityVisited[1024])

C++
int commonCitiesVisited(string sCityVisited, string pCityVisited)

Java
static int commonCitiesVisited(char[] sCityVisited, char[]
pCityVisited)
```

sCityVisited is the list of cities in the order Sandeep wants to visit. pCityVisited is the list of cities in the order Pali wants to visit.

Note: You are allowed to edit the code as you please. Add / delete headers. Add / delete methods. And so on.. So long as your final code solves the problem with Input and Output as described above. You may submit your own code, without using the template at all.

Example

Input :
1
abcabcaa
acbacba

Output :
5

Explanation

They can visit "ababa" together. Note that "ababa" appears in the same order in Sandeep's list "abcabcaa", as well as in Pali's list "acbacba".

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