Password Cracker | HackerRank

There are *N* users registered on a website *CuteKittens.com*. Each of them has a unique password represented by *pass[1]*, *pass[2]*, ..., *pass[N]*. As this a very lovely site, many people want to access those awesomely cute pics of the kittens. But the adamant admin does not want the site to be available to the general public, so only those people who have passwords can access it.

Yu, being an awesome hacker finds a loophole in the password verification system. A string which is a *concatenation* of one or more passwords, in any order, is also accepted by the password verification system. Any password can appear **0** or more times in that string. Given access to each of the *n* passwords, and also have a string *loginAttempt*, *determinewhetherthisstringbeacceptedbythepasswordverificationsyst* loginAttempt\$ string can be created by concatenating password strings, it is accepted.

For example, if there are 3 users with passwords = [abra, ka, dabra], then some of the valid combinations are abra (passwords[1]), kaabra

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(passwords[2] + passwords[1]), kadabraka (passwords[2] + passwords[3] + passwords[2]), kadabraabra (passwords[2] + passwords[3] + passwords[1]) and so on. Supplying abra kadabra, concatenated, passes authentication.
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Function Description

Complete the *passwordCracker* function in the editor below. It should return the passwords as a single string in the order required for the password to be accepted, each separated by a space. If it is not possible to form the string, return the string wrong password.

passwordCracker has the following parameters:

- passwords: a list of password strings
- loginAttempt: the string to attempt to create

Input Format

The first line contains an integer t, the total number of test cases.

Each of the next *t* sets of three lines is as follows:

- The first line of each test case contains *n*, the number of users with passwords.
- The second line contains *n* space-separated strings, *passwords[i]*, that represent the passwords of each user.
- The third line contains a string, *loginAttempt*, which Yu must test for acceptance.

Constraints

- $1 \le t \le 10$
- $1 \leq n \leq 10$
- $\bullet \ \ passwords[i] \neq passwords[j], 1 \leq i < j \leq N$

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- $1 \leq |passwords[i]| \leq 10$, where $i \in [1, n]$
- $1 < |loginAttempt| \le 2000$
- *loginAttempt* and *passwords[i]* contain only lowercase latin characters ('a'-'z').

Output Format

For each valid string, *Yu* has to print the actual order of passwords, separated by space, whose concatenation results into *loginAttempt*. If there are multiple solutions, print any of them. If *loginAttempt* can't be accepted by the password verification system, then print wrong password.

Sample Input o

```
3
6
because can do must we what wedowhatwemustbecausewecan 2
hello planet helloworld 3
ab abcd cd abcd
```

Sample Output o

```
we do what we must because we can WRONG PASSWORD ab cd
```

Explanation o

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Sample Case #00: "wedowhatwemustbecausewecan" is the concatenation of passwords {"we", "do", "what", "we", "must", "because", "we", "can"}. That is

loginAttempt = pass[5] + pass[3] + pass[6] + pass[5] + pass[4] + pass[1] + pass[5] +
```

Note that any password can repeat any number of times.

Sample Case #01: We can't create string "helloworld" using the strings {"hello", "planet"}.

Sample Case #02: There are two ways to create loginAttempt ("abcd"). Both pass[2] = "abcd" and pass[1] + pass[3] = "ab cd" are valid answers.

Sample Input 1

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Sample Output 1

zfzahm gurwgrb WRONG PASSWORD

Welcome to the dark side!

We've introduced a new Dark Mode for a better coding experience.

Test against custom input

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