



Task on String Counting

Problem Code: **JS2**



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Problem description.

Jeff and Jenny are playing a game of UNO in a condition that whoever loses will need to do a task. In the first game, Jenny loses the game. Jeff is very strong in counting the number of times a given string is present in the sentence. Thus, he decides to trick her by giving a string puzzle and asking her to solve it. He gives Jenny a word and asks her to find the number of times the word is found in a sentence. To complicate things, he says even if the letters are jumbled but they should be continuous it needs to be counted. Your task is to help Jenny to solve this issue. Given a string **W**, calculate the total number of times the **W** occurs in a sentence **S**. In **S**, **W** may be jumbled, but it needs to be continuous.

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Input

First line of the input contains an integer **T** denoting the number of test cases. The description of **T** test cases follows. The first line of each test case contains the string **W** The second line contains a string **S**

Output

For each test case, first line corresponds to the number of times **W** is found in **S**. The subsequent lines, should have the word. Arrange them in alphabetical order. **W**.

Constraints $1 \leq T \leq 100$

Example

Input :

1

Sam

msatmas

Output :

2

mas

msa

Explanation

The word Sam is found twice in the string Msatmas, they are **Msatmas**

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Date Added: 25-02-2018

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH 3.5, PYPY, CS2, RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D, PERL, WSPC, ADA, CAML,

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