## Description

A subsequence of a given sequence is just the given sequence with some elements (possibly none) left out. Formally, given a sequence $X=x_{1} x_{2} \ldots x_{m}$, another sequence $Z=z_{1} z_{2} \ldots z_{k}$ is a subsequence of $\boldsymbol{X}$ if there exists a strictly increasing sequence $\left\langle i_{1}, i_{2}, \ldots, \boldsymbol{i}_{k}>\right.$ of indices of $\boldsymbol{X}$ such that for all $j=1,2, \ldots, k$, we have $\boldsymbol{x}_{i j}=z_{j}$. For example, $\boldsymbol{Z}=\boldsymbol{b} \boldsymbol{c} \boldsymbol{d} \boldsymbol{b}$ is a subsequence of $\boldsymbol{X}=\boldsymbol{a b c b d a b}$ with corresponding index sequence $\langle\mathbf{2 , 3 , 5 , 7}\rangle$.
In this problem your job is to write a program that counts the number of occurrences of $\boldsymbol{Z}$ in $\boldsymbol{X}$ as a subsequence such that each has a distinct index sequence.

## Input

The first line of the input contains an integer $\boldsymbol{N}$ indicating the number of test cases to follow. The first line of each test case contains a string $\boldsymbol{X}$, composed entirely of lowercase alphabetic characters and having length no greater than 10,000 . The second line contains another string $\boldsymbol{Z}$ having length no greater than 100 and also composed of only lowercase alphabetic characters. Be assured that neither $\boldsymbol{Z}$ nor any prefix or suffix of $\boldsymbol{Z}$ will have more than $10^{100}$ distinct occurrences in $X$ as a subsequence.

Output

For each test case in the input output the number of distinct occurrences of Z in X as a subsequence. Output for each input set must be on a separate line.

Sample Input

## 2

babgbag
bag
rabbbit
rabbit

Sample Output
5
3

