Broken Keyboard

Please note that this is a team event, and your submission will be accepted only as a part of a team, even single member teams are allowed. Please click here to register as a team, if you have NOT already registered.

Some keys of Roy's keyboard are broken. Given a word w, you have to tell him the minimum number of broken keys that need to be repaired to type w with this keyboard.

Input Format
The first line contains t, the number of testcases. t testcases follow.
Each testcase consists of two lines:
the first line contains a string b that denotes the broken keys.
the second line contains w, the word to be typed.

Constraints
$1 \leq t \leq 10^5$
$1 \leq |b| \leq 26$
$1 \leq |w| \leq 100$
Both b and w contain lowercase English letters only and all the characters in b are unique.
Note that, if s is a string, then $|s|$ denotes the length of s.

Output Format

For each testcase, print the minimum number of keys needed to be repaired in a new line.

Sample Input

```
3
ab
bidhanroy
xyz
xy
mitef
committee
```

Sample Output

```
2
2
4
```

Explanation

Testcase 1: the letters a and b need to be repaired.
Testcase 2: the letters x and y need to be repaired.