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 \le t \le 10^5

1 \le |b| \le 26

1 \le |w| \le 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.

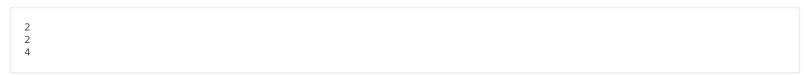
Output Format

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

Sample Input

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

Sample Output



Explanation

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

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