**Chef recently visited ShareChat**

Chef recently visited ShareChat Cafe and was highly impressed by the food. Being a food enthusiast, he decided to enquire about the ingredients of each dish.

There are NN dishes represented by strings S1,S2,…,SNS1,S2,…,SN. Each ingredient used for making dishes in ShareChat Cafe is represented by a lowercase English letter. For each valid ii, the ingredients used to make dish ii correspond to characters in the string SiSi (note that ingredients may be used multiple times). A *special ingredient* is an ingredient which is present in each dish at least once.

Chef wants to know the number of special ingredients in ShareChat Cafe. Since Chef is too busy with work, can you help him?

**Input**

* The first line of the input contains a single integer TT denoting the number of test cases. The description of TT test cases follows.
* The first line of each test case contains a single integer NN.
* NN lines follow. For each ii (1≤i≤N1≤i≤N), the ii-th of these lines contains a single string SiSi.

**Output**

For each test case, print a single line containing one integer ― the number of special ingredients in the dishes.

**Constraints**

* 1≤T≤1,0001≤T≤1,000
* 1≤N≤1,0001≤N≤1,000
* 1≤|Si|≤2001≤|Si|≤200 for each valid ii
* S1,S2,…,SNS1,S2,…,SN contain only lowercase English letters
* The sum of length of strings over all test cases ≤≤ 3500000

**Subtasks**

**Subtask #1 (100 points):** original constraints

**Example Input**

2

3

abcaa

bcbd

bgc

3

quick

brown

fox

**Example Output**

2

0

**Explanation**

**Example case 1:** Ingredients 'b' and 'c' are present in all three dishes, so there are two special ingredients.

**Example case 2:** No ingredient is common to all three dishes.

n=int(input())  
if n<1 and n>1000:  
 quite()  
def fun(n):  
 s=[]  
 p=list()  
 c=0  
 q=0  
 a=0  
 o=0  
 while n!=0:  
 n1=int(input())  
 for i in range(n1):  
 si=input()  
 si.lower()  
 s.append(si)  
 for j in s[q]:  
 if o==ord(j):  
 s[q].replace(j,**''**)  
 else:  
 for k in range(1,len(s)):  
 if j in s[k]:  
 c+=1  
 if(c==(len(s)-1)):  
 a+=1  
 c=0  
 o=ord(j)  
 else:  
 c=0  
 s\*=0  
 p.append(a)  
 c=0  
 a=0  
 n-=1  
 for t in range(len(p)):  
 print(p[t])  
if(n>=1 and n<=1000):  
 fun(n)