



Anagram

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Problem

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Sid is obsessed with reading short stories. Being a CS student, he is doing some interesting frequency analysis with the books. He chooses strings $S1$ and $S2$ in such a way that $|\text{len}(S1) - \text{len}(S2)| \leq 1$.

Your task is to help him find the minimum number of characters of the first string he needs to change to enable him to make it an [anagram](#) of the second string.

Note: A word x is an anagram of another word y if we can produce y by rearranging the letters of x .

Input Format

The first line will contain an integer, T , representing the number of test cases. Each test case will contain a string having length $\text{len}(S1) + \text{len}(S2)$, which will be concatenation of both the strings described above in the problem. The given string will contain only characters from a to z .

Constraints

- $1 \leq T \leq 100$
- $1 \leq \text{len}(S1) + \text{len}(S2) \leq 10^4$

Output Format

An integer corresponding to each test case is printed in a different line, i.e. the number of changes required for each test case. Print -1 if it is not possible.

Sample Input

```
6
aaabbb
ab
abc
mnop
xyyx
xaxbbbx
```

Sample Output

```
3
1
-1
2
0
1
```

Explanation

Test Case #01: We have to replace all three characters from the first string to make both of strings anagram. Here, $S1 = "aaa"$ and $S2 = "bbb"$. So the solution is to replace all character 'a' in string a with character 'b'.

Test Case #02: You have to replace 'a' with 'b', which will generate "bb".

Test Case #03: It is not possible for two strings of unequal length to be anagram for each other.

Test Case #04: We have to replace both the characters of first string ("mn") to make it anagram of other one.

Test Case #05: **S1** and **S2** are already anagram to each other.

Test Case #06: Here $S1 = "xaxb"$ and $S2 = "bbxx"$. He had to replace 'a' from $S1$ with 'b' so that $S1 = "xbxb"$ and we can rearrange its letter to "bbxx" in order to get $S2$.

[f](#) [t](#) [in](#)Submissions: [37928](#)


Max Score: 25

Difficulty: Easy

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☆☆☆☆☆

Need Help?

[String Basics](#)[Anagram](#)[More](#)Current Buffer (saved locally, editable)  

Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     static int anagram(String s){
10         // Complete this function
11     }
12
13     public static void main(String[] args) {
14         Scanner in = new Scanner(System.in);
15         int q = in.nextInt();
16         for(int a0 = 0; a0 < q; a0++){
17             String s = in.next();
18             int result = anagram(s);
19             System.out.println(result);
20         }
21     }
22 }
23
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input

Run Code

Submit Code

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