

Anagram



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Problem Statement

Sid is obsessed about 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 $|len(S1) - len(S2)| \le 1$.

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.

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 |S1| + |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.

Output Format

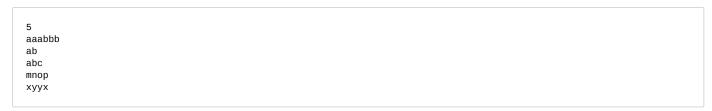
An integer corresponding to each test case is printed in a different line i.e., the number of changes required for each test case. Print -1 if it is not possible.

Constraints

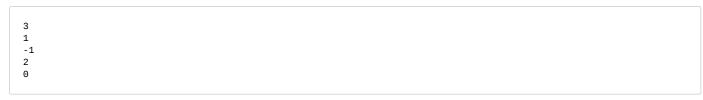
$$1 \le T \le 100$$

 $1 \le |S1| + |S2| \le 10^4$

Sample Input



Sample Output



Explanation

solution are valid.

Test Case #00: We have to replace at least three characters from any of the string to make both of strings anagram. Here, a = "aaa" and b = "bbb". One possible solution is to replace all character 'a' in string a with character 'b'. Test Case #01: Either replace 'a' with 'b', which will generate "bb". Or replace 'b' with 'a' to generate "aa". Both of the

Test Case #02: It is not possible for two strings of unequal length to be anagram for each other.

Test Case #03: We have to replace both the characters of any string to make it anagram of other one.

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