

<u>Problem</u>

Submissions

Discussion

Coming Soon

Everyone in the camp have a buddy, we know our buddy, but unfortunately we don't know whose buddy we are. Ömer wants to find out who his buddy is, and Gul gave him a string as a clue. He has to reorder that string's letters and turn it into a palindrome. If he can, Gul will give him the name of his buddy. Reorder the given string and print the smallest palindrome lexicographically. If it's not possible, print " $NO\ SOLUTION$ " without quotes.

Input Format

1 string, the clue. It consists of only the uppercase English letters from A to Z.

Output Format

1 string, the lexicographically smallest reordered clue.

Constraints

 $1 \le length(clue) \le 10^5$

Sample Input 1 🔲

JZZYJYA

Sample Output 1 🔲

JYZAZYJ

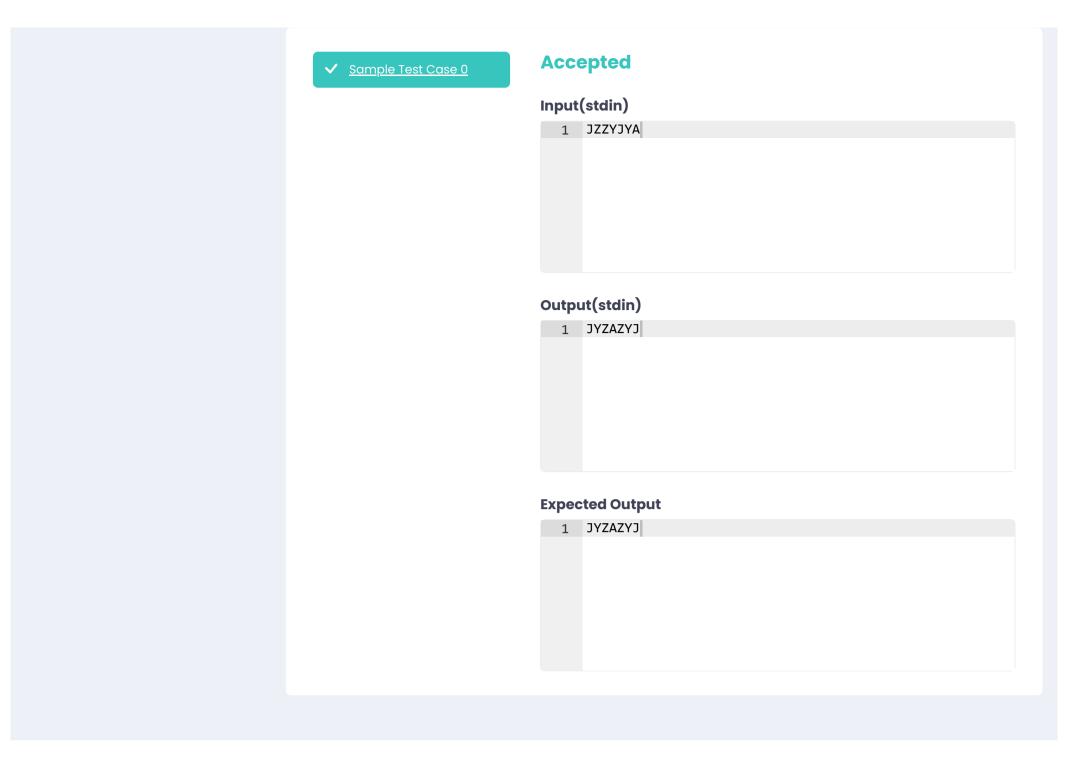
```
C++ (GCC 9.2.0)
                             Bright
                                                          Memory Limit (kB): 256000 Time Limit (s):1
 1 #include <iostream>
 2 #include <vector>
 3 #include <algorithm>
 4
   using namespace std;
 5
 6
 7 * string findSmallestPalindrome(string clue) {
        vector<int> freq(26, 0);
 8
 9
10 -
        for (char ch : clue) {
            freq[ch - 'A']++;
11
12
13
        int oddCount = 0;
14
15 🔻
        for (int i = 0; i < 26; i++) {
            if (freq[i] % 2 != 0) {
16 🔻
                oddCount++;
17
18
19
20
        if (oddCount > 1) {
21 *
            return "NO SOLUTION";
22
23
24
        string firstHalf = "", secondHalf = "", mid = "";
25
        for (int i = 0; i < 26; i++) {
26 -
            if (freq[i] % 2 != 0) {
27 -
                mid = std::string(1, i + 'A');
28
29
                freq[i]--;
30
            firstHalf += string(freq[i] / 2, i + 'A');
31
```

1 Upload File

Test against custom test case

Run Code

Submit



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