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Reverse Shuffle Merge ★

Problem Submissions Leaderboard Editorial 🖰 **Topics** Given a string, $m{A}$, we define some operations on the string as follows: a. reverse(A) denotes the string obtained by reversing string A. Example: reverse("abc") = "cba"b. shuffle(A) denotes any string that's a permutation of string A. Example: shuffle("god") \in ['god', 'gdo', 'ogd', 'ogd', 'dgo', 'dgo', 'dog'] c. merge(A1, A2) denotes any string that's obtained by interspersing the two strings A1 & A2, maintaining the order of characters in both. For example, A1 = "abc" & A2 = "def", one possible result of merge(A1,A2) could be "abcdef", another could be "abdecf", another could be "abdecf" and so on. Given a string s such that $s \in merge(reverse(A), shuffle(A))$ for some string A, find the lexicographically smallest A. For example, s = abab. We can split it into two strings of ab. The reverse is ba and we need to find a string to shuffle in to get abab. The middle two characters match our reverse string, leaving the a and b at the ends. Our shuffle string needs to be ab. Lexicographically ab < ba, so our answer is ab. **Function Description** Complete the reverseShuffleMerge function in the editor below. It must return the lexicographically smallest string fitting the criteria. reverseShuffleMerge has the following parameter(s): • s: a string **Input Format** A single line containing the string 8. Constraints • s contains only lower-case English letters, ascii[a-z] • $1 \le |s| \le 10000$ **Output Format** Find and return the string which is the lexicographically smallest valid $m{A}$. Sample Input 0 eggegg Sample Output 0 egg **Explanation 0** Split "eggegg" into strings of like character counts: "egg", "egg" reverse("egg") = "gge" shuffle("egg") can be "egg" "eggegg" belongs to the merge of ("gge", "egg") The merge is: eggegg. 'egg' < 'gge'

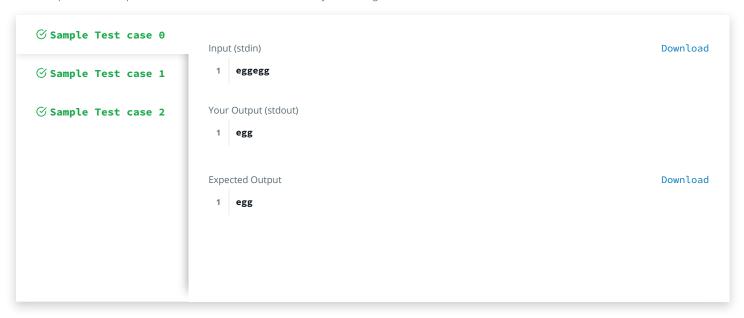
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Sample Input 1
  abcdefgabcdefg
Sample Output 1
  agfedcb
Explanation 1
Split the string into two strings with like characters: abcdefg and abcdefg.
Reverse abcdefg = gfedcba
Shuffle gfedcba can be bcdefga
Merge to abcdefgabcdefg
Sample Input 2
  aeiouuoiea
Sample Output 2
  aeiou
Explanation 2
Split the string into groups of like characters: aeiou
Reverse aeiou = uoiea
These merge to aeiouuoiea
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Change Theme
                                                                                        JavaScript (Node.js)
27
     // Complete the reverseShuffleMerge function below.
28
     function reverseShuffleMerge(s) {
29
         let map={};
         s = s.split('').reverse('').join('')
30
         for(let item of s.split('')){
31
              map[item]=map[item]?map[item]+1:1;
32
33
34
         let ref={}
         for(let key in map){
35
              ref[key] = map[key]/2
36
37
         let solution = [],i=0;
38
39
         while (solution.length<s.length/2){
40
              let min_char_pos = -1
41
42
              while(true){
43
                  let c=s[i];
44
                  if(ref[c]>0&&(min_char_pos<0||c<s[min_char_pos])){</pre>
45
                      min_char_pos = i;
46
47
                  map[c] -= 1;
48
                  if(map[c] < ref[c]){</pre>
49
                      break
                                                                                                               Line: 41 Col: 1
```



Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.



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