

6454. Lexicographically Smallest Palindrome

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You are given a string `s` consisting of **lowercase English letters**, and you are allowed to perform operations on it. In one operation, you can **replace** a character in `s` with another lowercase English letter.

Your task is to make `s` a **palindrome** with the **minimum number of operations** possible. If there are **multiple palindromes** that can be made using the **minimum** number of operations, make the **lexicographically smallest** one.

A string a is lexicographically smaller than a string b (of the same length) if in the first position where a and b differ, string a has a letter that appears earlier in the alphabet than the corresponding letter in b .

Return the resulting palindrome string.

User Accepted:	2
User Tried:	3
Total Accepted:	2
Total Submissions:	3
Difficulty:	Easy

Example 1:

Input: `s = "eqcfe"`

Output: "efcfe"

Explanation: The minimum number of operations to make "egcfe" a palindrome is 1, and the lexicographically smallest palindrome

Example 2:

Input: s = "abcd"

Output: "abba"

Explanation: The minimum number of operations to make "abcd" a palindrome is 2, and the lexicographically smallest palindrome is "dcbcd".

Example 3:

Input: s = "seven"

Output: "neven"

Explanation: The minimum number of operations to make "seven" a palindrome is 1, and the lexicographically smallest palindrome

Constraints:

- `1 <= s.length <= 1000`
- `s` consists of only lowercase English letters.

JavaScript

```

1 const makeSmallestPalindrome = (s) => {
2   let n = s.length;
3   s = s.split("");
4   for (let i = 0; i < n >> 1; i++) {
5     if (s[i] !== s[n - 1 - i]) {
6       if (s[i] < s[n - 1 - i]) {
7         s[n - 1 - i] = s[i];
8       } else {
9         s[i] = s[n - 1 - i];
10      }
11    }
12  }
13  return s.join("");
14 };

```

☐ Custom Testcase

Use Example Testcases

Run

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Submission Result: **Accepted** (/submissions/detail/954228484/) ⓘ More Details ➤ (/submissions/detail/954228484/)

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