

Problem 3734: Lexicographically Smallest Palindromic Permutation Greater Than Target

Problem Information

Difficulty: Hard

Acceptance Rate: 23.10%

Paid Only: No

Tags: Two Pointers, String, Enumeration

Problem Description

You are given two strings `s` and `target`, each of length `n`, consisting of lowercase English letters.

Return the **lexicographically smallest string** that is **both** a **palindromic permutation** of `s` and **strictly** greater than `target`. If no such permutation exists, return an empty string.

Example 1:

Input: s = "baba", target = "abba"

Output: "baab"

Explanation:

* The palindromic permutations of `s` (in lexicographical order) are `abba` and `baab`. * The lexicographically smallest permutation that is strictly greater than `target` is `baab`.

Example 2:

Input: s = "baba", target = "bbaa"

Output: ""

****Explanation:****

* The palindromic permutations of `s` (in lexicographical order) are `"abba"` and `"baab"`. * None of them is lexicographically strictly greater than `target`. Therefore, the answer is `""`.

****Example 3:****

****Input:**** s = "abc", target = "abb"

****Output:**** `""`

****Explanation:****

`s` has no palindromic permutations. Therefore, the answer is `""`.

****Example 4:****

****Input:**** s = "aac", target = "abb"

****Output:**** "aca"

****Explanation:****

* The only palindromic permutation of `s` is `"aca"`. * `"aca"` is strictly greater than `target`. Therefore, the answer is `"aca"`.

****Constraints:****

* `1 <= n == s.length == target.length <= 300` * `s` and `target` consist of only lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
    string lexPalindromicPermutation(string s, string target) {
```

```
    }  
};
```

Java:

```
class Solution {  
public String lexPalindromicPermutation(String s, String target) {  
  
}  
}
```

Python3:

```
class Solution:  
def lexPalindromicPermutation(self, s: str, target: str) -> str:
```