Problem 1842: Next Palindrome Using Same Digits

Problem Information

Difficulty: Hard
Acceptance Rate: 53.89%
Paid Only: Yes
Tags: Two Pointers, String

Problem Description

You are given a numeric string `num`, representing a very large **palindrome**.

Return _the**smallest palindrome larger than**_`num` _that can be created by rearranging its digits. If no such palindrome exists, return an empty string_`""`.

A **palindrome** is a number that reads the same backward as forward.

Example 1:

Input: num = "1221" **Output:** "2112" **Explanation:** The next palindrome larger than "1221" is "2112".

Example 2:

Input: num = "32123" **Output:** "" **Explanation:** No palindromes larger than "32123" can be made by rearranging the digits.

Example 3:

Input: num = "45544554" **Output:** "54455445" **Explanation:** The next palindrome larger than "45544554" is "54455445".

Constraints:

* `1 <= num.length <= 105` * `num` is a **palindrome**.

Code Snippets

C++:

```
class Solution {
public:
string nextPalindrome(string num) {

}
};
```

Java:

```
class Solution {
public String nextPalindrome(String num) {

}
}
```

Python3:

```
class Solution:
def nextPalindrome(self, num: str) -> str:
```