

1842. Next Palindrome Using Same Digits

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:

- $1 \leq \text{num.length} \leq 10^5$
- `num` is a **palindrome**.

