

# 1842. Next Palindrome Using Same Digits Premium

Hard Topics Companies Hint

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**.

Seen this question in a real interview before? 1/5

Yes No

Accepted **5.9K** | Submissions **11.1K** | Acceptance Rate **53.5%**

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Hint 1

Is it possible to swap one character in the first half of the palindrome to make the next one?

Hint 2

Are there different cases for when the length is odd and even?

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