2577. Count Palindromic Subsequences

Difficulty : Hard

https://leetcode.com/problems/count-palindromic-subsequences

Given a string of digits `s`, return *the number of* ***palindromic subsequences*** *of* `s` *having length* `5`. Since the answer may be very large, return it **modulo** $10^9 + 7$.

Note:

- A string is **palindromic** if it reads the same forward and backward.
- A **subsequence** is a string that can be derived from another string by deleting some or no characters without changing the order of the remaining characters.

Example 1:

```
Input: s = "103301"
Output: 2
Explanation:
There are 6 possible subsequences of length 5: "10330","10331","10301","10301","13301","03301".
Two of them (both equal to "10301") are palindromic.
```

Example 2:

```
Input: s = "0000000"
Output: 21
Explanation: All 21 subsequences are "00000", which is palindromic.
```

Example 3:

```
Input: s = "9999900000"
Output: 2
Explanation: The only two palindromic subsequences are "99999" and "00000".
```

Constraints:

- $1 <= s.length <= 10^4$
- `s` consists of digits.