6251. Count Palindromic Subsequences

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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** $10^9 + 7$.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

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.

JavaScript

```
const initialize2DArray = (n, m) => { let d = []; for (let i = 0; i < n; i++) { let t = Array(m).fill(0); d.push(t); }
return d; };

const mod = 1e9 + 7;
const countPalindromes = (s) => {
    let res = 0, n = s.length, cnt = Array(10).fill(0);
    for (let i = 0; i < n; i++) {
        let tot = 0;
        for(let j = n-1; j >i; j--) {
            if(s[i] == s[j]) {
                res += tot * (j-i-1);
                res %= mod;
            }
            tot += cnt[s[j] - '0'];
        }
        cnt[s[i] - '0']++;
    }
    return res;
};

```

Custom Testcase Use Example Testcases

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