## 2266. Count Number of Texts

My Submissions (/contest/weekly-contest-292/problems/count-number-of-texts/submissions/) Back to Contest (/contest/weekly-contest-292/) Alice is texting Bob using her phone. The mapping of digits to letters is shown in the figure below. User Accepted: 1659 100 2 abc 3 def User Tried: 2159 5 ikl 6 mno Total Accepted: 1761 8 tuv 9 wxyz Total Submissions: 4102 0 -

In order to **add** a letter, Alice has to **press** the key of the corresponding digit i times, where i is the position of the letter in the key.

- For example, to add the letter 's', Alice has to press '7' four times. Similarly, to add the letter 'k', Alice has to press '5' twice.
- Note that the digits '0' and '1' do not map to any letters, so Alice **does not** use them.

However, due to an error in transmission, Bob did not receive Alice's text message but received a string of pressed keys instead.

• For example, when Alice sent the message "bob", Bob received the string "2266622".

Given a string pressedKeys representing the string received by Bob, return the total number of possible text messages Alice could have sent.

Since the answer may be very large, return it  $modulo 10^9 + 7$ .

## Example 1:

```
Input: pressedKeys = "22233"
Output: 8
Explanation:
The possible text messages Alice could have sent are:
"aaadd", "abdd", "cdd", "aaae", "abe", "bae", and "ce".
Since there are 8 possible messages, we return 8.
```

## Example 2:

## Constraints:

- 1 <= pressedKeys.length <= 10<sup>5</sup>
- pressedKeys only consists of digits from '2' '9'.

Discuss (https://leetcode.com/problems/count-number-of-texts/discuss)



(Medium)

Difficulty:

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