# 2168. Unique Substrings With Equal Digit Frequency Premium

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Given a digit string `s`, return *the number of **unique substrings** of `s` where every digit appears the same number of times.*

**Example 1:**

```
Input: s = "1212"
Output: 5
Explanation: The substrings that meet the requirements are "1", "2", "12", "21", "1212".
Note that although the substring "12" appears twice, it is only counted once.
```

**Example 2:**

```
Input: s = "12321"
Output: 9
Explanation: The substrings that meet the requirements are "1", "2", "3", "12", "23", "32", "21", "123", "321".
```

**Constraints:**

- `1 <= s.length <= 1000`
- `s` consists of digits.

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

Yes No

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Hint 1

With the constraints, could we try every substring?

Hint 2

Yes, checking every substring has runtime O(n^2), which will pass.

Hint 3

How can we make sure we only count unique substrings?

Hint 4

Use a set to store previously counted substrings. Hashing a string s of length m takes O(m) time. Is there a fast way to compute the hash of s if we know the hash of s[0..m - 2]?

Hint 5

Use a rolling hash.

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