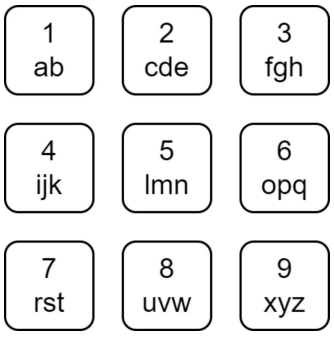
2950. Number of Divisible Substrings Premium

Solved ●

Medium Topics Companies Hint

Each character of the English alphabet has been mapped to a digit as shown below.



A string is **divisible** if the sum of the mapped values of its characters is divisible by its length.

Given a string `s`, return *the number of **divisible substrings** of* `s`.

A **substring** is a contiguous non-empty sequence of characters within a string.

Example 1:

Substring	Mapped	Sum	Length	Divisible?
a	1	1	1	Yes
s	7	7	1	Yes
d	2	2	1	Yes
f	3	3	1	Yes
as	1, 7	8	2	Yes
sd	7, 2	9	2	No
df	2, 3	5	2	No
asd	1, 7, 2	10	3	No
sdf	7, 2, 3	12	3	Yes
asdf	1, 7, 2, 3	13	4	No

> **Input:** word = "asdf"
> **Output:** 6
> **Explanation:** The table above contains the details about every substring of word, and we can see that 6 of them are divisible.

Example 2:

> **Input:** word = "bdh"
> **Output:** 4
> **Explanation:** The 4 divisible substrings are: "b", "d", "h", "bdh".
> It can be shown that there are no other substrings of word that are divisible.

Example 3:

> **Input:** word = "abcd"
> **Output:** 6
> **Explanation:** The 6 divisible substrings are: "a", "b", "c", "d", "ab", "cd".
> It can be shown that there are no other substrings of word that are divisible.

Constraints:

- `1 <= word.length <= 2000`
- `word` consists only of lowercase English letters.

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

Yes No

Accepted 980 Submissions 1.3K Acceptance Rate 77.1%

Topics

Companies

Hint 1

Hint 2

Hint 3

Discussion (0)