Problem List | Run | Submit

Description | Editorial | Solutions | Submissions

422. Valid Word Square

Premium

Solved

Easy | Topics | Companies

Given an array of strings `words`, return `true` *if it forms a valid* ***word square***.

A sequence of strings forms a valid **word square** if the k^{th} row and column read the same string, where `0 <= k < max(numRows, numColumns)`.

Example 1:

a	b	c	d
b	n	r	t
c	r	m	y
d	t	y	e

```
Input: words = ["abcd","bnrt","crmy","dtye"]
Output: true
Explanation:
The 1st row and 1st column both read "abcd".
The 2nd row and 2nd column both read "bnrt".
The 3rd row and 3rd column both read "crmy".
The 4th row and 4th column both read "dtye".
Therefore, it is a valid word square.
```

Example 2:

a	b	c	d
b	n	r	t
c	r	m	
d	t		

```
Input: words = ["abcd","bnrt","crm","dt"]
Output: true
Explanation:
The 1st row and 1st column both read "abcd".
The 2nd row and 2nd column both read "bnrt".
The 3rd row and 3rd column both read "crm".
The 4th row and 4th column both read "dt".
Therefore, it is a valid word square.
```

Example 3:

b	a	l	l
a	r	e	a
r	e	a	d
l	a	d	y

```
Input: words = ["ball","area","read","lady"]
Output: false
Explanation:
The 3rd row reads "read" while the 3rd column reads "lead".
Therefore, it is NOT a valid word square.
```

Constraints:

- `1 <= words.length <= 500`
- `1 <= words[i].length <= 500`
- `words[i]` consists of only lowercase English letters.

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

Yes | No

Accepted 56.9K | Submissions 138.8K | Acceptance Rate 41.0%

Topics

Companies

Similar Questions

Discussion (5)

Code

Python3 • Auto

```python
class Solution:
    def validWordSquare(self, words: List[str]) -> bool:

        for i in range(0, len(words)):
            temp = ""
            for j in range(0, len(words)):

                try:
                    temp += words[j][i]
                except:
                    pass

            if temp != words[i]:
                return False

        return True
```

Saved

Ln 5, Col 22

Testcase | Test Result

Accepted Runtime: 49 ms

• Case 1 • Case 2 • Case 3

Input

words =
["abcd","bnrt","crmy","dtye"]

Output

true

Expected

true

414 5

Contribute a testcase