422. Valid Word Square

Description

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 kth row and column read the same string, where 0 <= k < max(numRows, numColumns).

Example 1:

а	b	С	d
b	n	r	t
С	r	m	у
d	t	у	е

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

Example 2:

а	b	С	d
b	n	r	t
С	r	m	
d	t		

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

b	a	I	I
а	r	е	а
r	е	а	d
1	а	d	у

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

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