

422. Valid Word Square Premium

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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 $0 \leq k < \max(\text{numRows}, \text{numColumns})$.

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:

- $1 \leq \text{words.length} \leq 500$
- $1 \leq \text{words}[i].\text{length} \leq 500$
- `words[i]` consists of only lowercase English letters.

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Yes No

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