

Unknown Title



Description

Description



Note

Note



Editorial

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Solutions

Solutions



Submissions

Submissions



Code

Code



Testcase

Testcase

>_

Test Result

Test Result



Leet

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290. Word Pattern

Easy



Topics

 Companies

Given a pattern and a string *s*, find if *s* follows the same pattern.

Here **follow** means a full match, such that there is a bijection between a letter in *pattern* and a **non-empty** word in *s*. Specifically:

- Each letter in *pattern* maps to **exactly** one unique word in *s*.
- Each unique word in *s* maps to **exactly** one letter in *pattern*.
- No two letters map to the same word, and no two words map to the same letter.

Example 1:

Input: pattern = "abba", s = "dog cat cat dog"

Output: true

Explanation:

The bijection can be established as:

- 'a' maps to "dog".

- 'b' maps to "cat".

Example 2:

Input: pattern = "abba", s = "dog cat cat fish"

Output: false

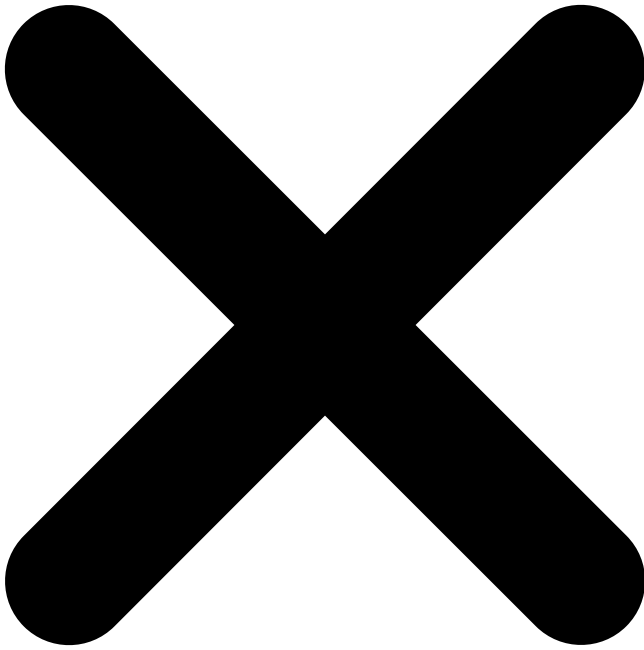
Example 3:

Input: pattern = "aaaa", s = "dog cat cat dog"

Output: false

Constraints:

- $1 \leq \text{pattern.length} \leq 300$
- pattern contains only lower-case English letters.
- $1 \leq \text{s.length} \leq 3000$
- s contains only lowercase English letters and spaces ' '.
- s **does not contain** any leading or trailing spaces.
- All the words in s are separated by a **single space**.



Seen this question in a real interview before?

1/5

Yes

No

Accepted

1,054,391/2.4M

Acceptance Rate

43.7%



Topics





Companies



Discussion (325)



 Discussion Rules



1. Please don't post **any solutions** in this discussion.
2. The problem discussion is for asking questions about the problem or for sharing tips - anything except for solutions.
3. If you'd like to share your solution for feedback and ideas, please head to the solutions tab and post it there.



dkashi

Dec 31, 2022

Poorly worded problem. Here is an attempt to explain it better.

Given a pattern and a string s, find if s follows the same pattern. pattern and s are same if:

1. each character in pattern represents a word in s
2. No two distinct characters in pattern can represent the same word in s
3. No single character in pattern can represent two distinct words in s.

e.g.:

1. pattern = 'abab'; s = 'dog cat dog cat'; return True
'a' represents 'dog' and 'b' represents cat

2. pattern = 'abcb'; s = 'dog cat dog cat'; return False

'a' represents 'dog', 'b' represents 'cat'. Then 'c' cannot represent 'dog' again as 'a' already represents 'dog' (#2 condition is: No two distinct characters in pattern i.e. 'a' and 'c' can represent same word i.e 'dog'.)

3. pattern = 'abcb'; s = 'dog cat hat cat'; return True

'a' represents 'dog'; 'b' represents 'cat'; 'c' represents 'hat'; and last 'cat' is already represented by 'b' and last character in pattern is also 'b'.

Hope this helps!



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Tip



743



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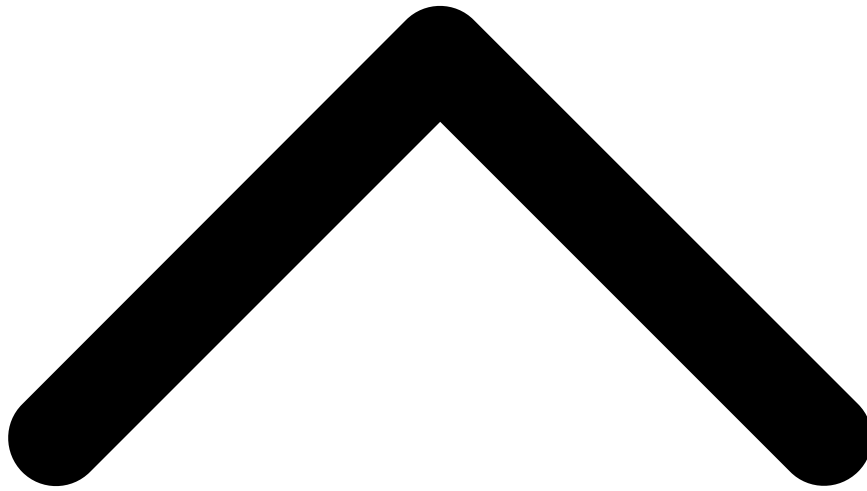
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Rohit Mittal

Oct 06, 2015

Worst problem statement ever! Please explain and re-write the problem statement.



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310



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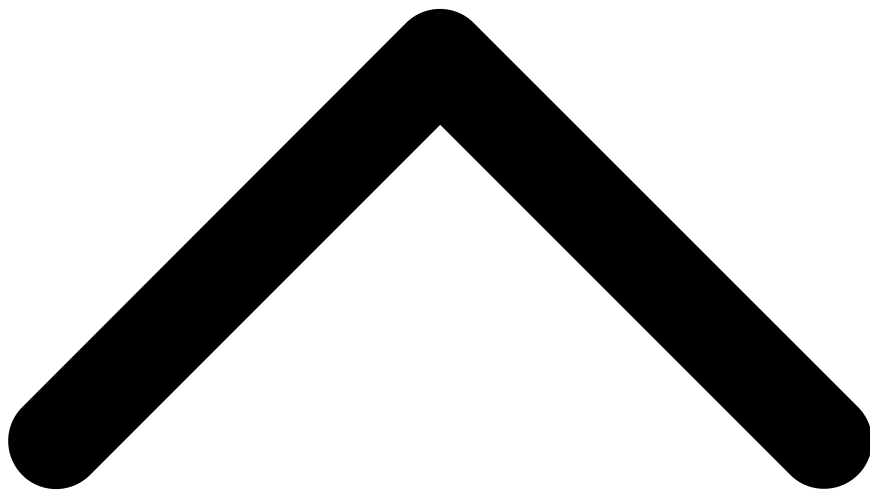


Rohit Ramteke



Jan 01, 2023

This question level needs to medium..
agree or not..



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358



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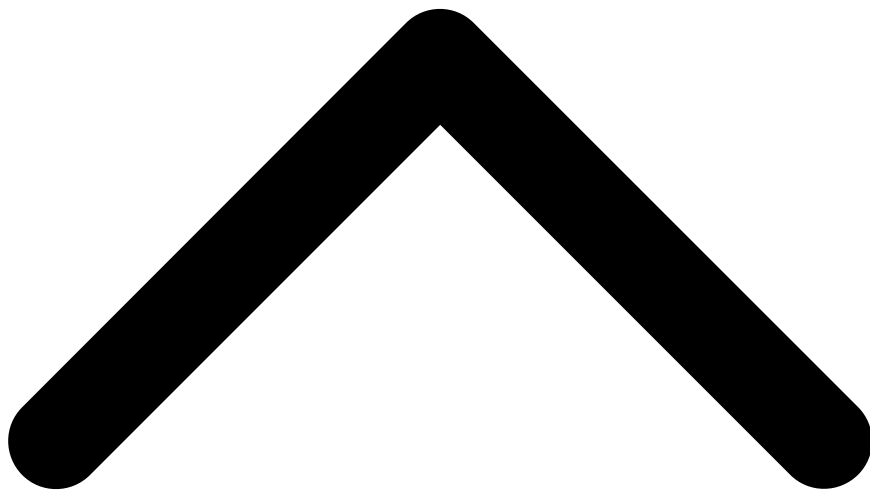


pieceofpie



Dec 31, 2022

Easy-difficulty problem to start out the year 2023! Happy new year and wish you all the best!!!



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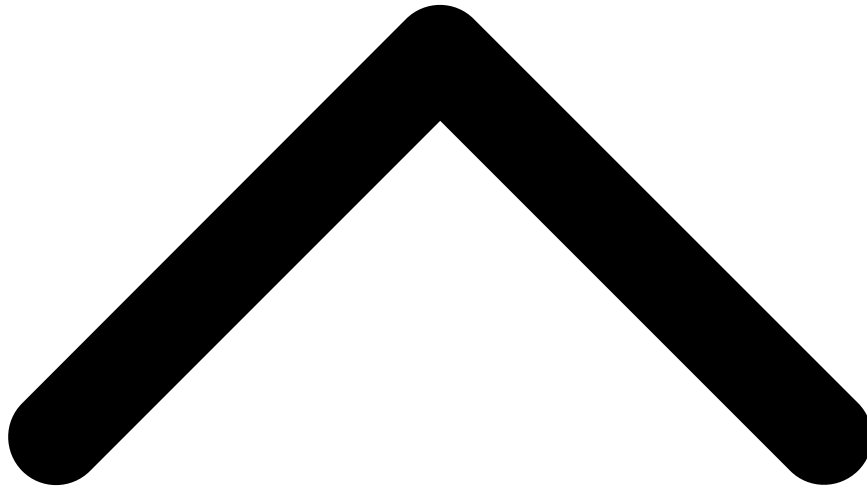
Naman



Jan 01, 2023

A Hard but easy problem to finish the year.
And now An Easy but hard problem to start the year.

Well Played LeetCode 🙌



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Frederic Chen

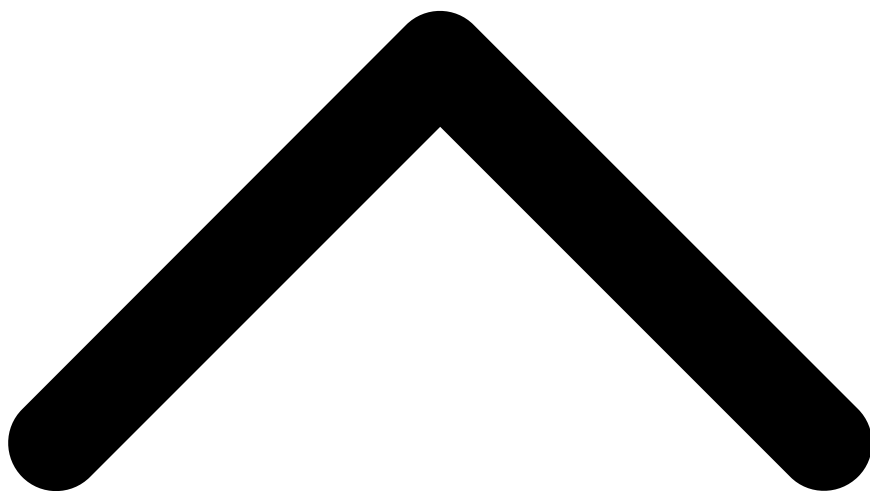
Oct 05, 2015

when input

'aaa'

'aa aa aa aa'

leetcode give true and it should be false I think



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59



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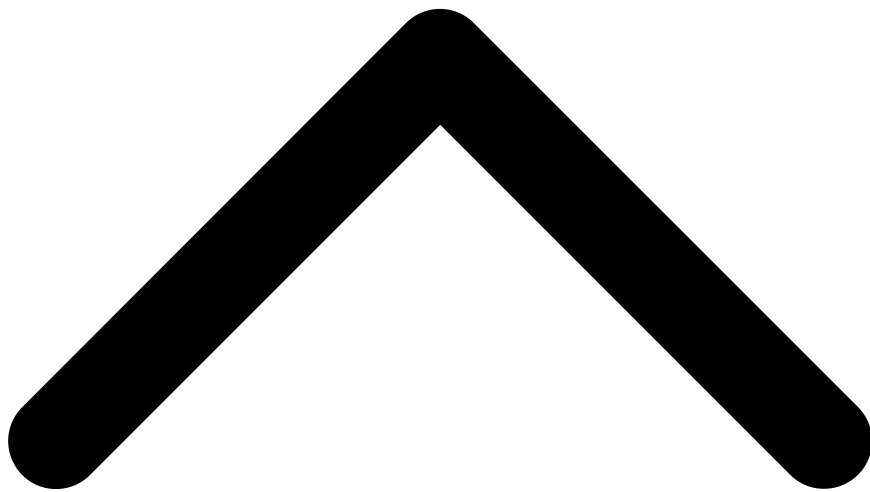


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luofun

Oct 26, 2017



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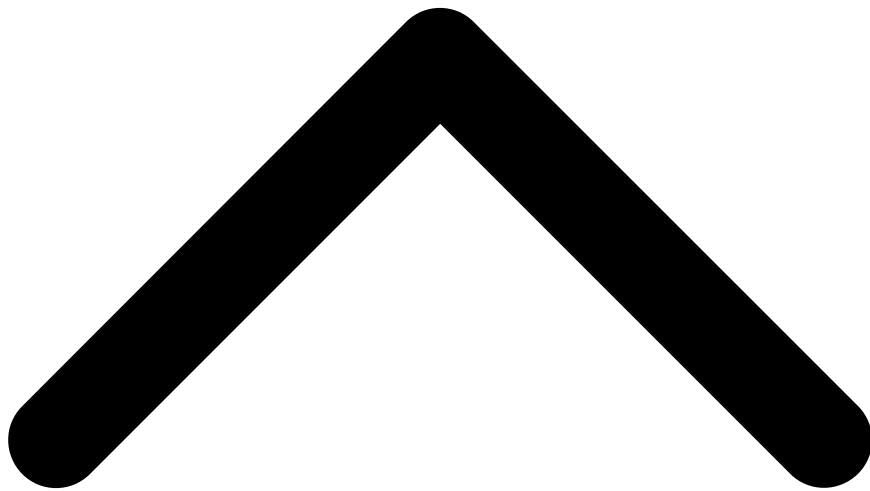


devhindo



Jan 01, 2023

this should be a medium problem



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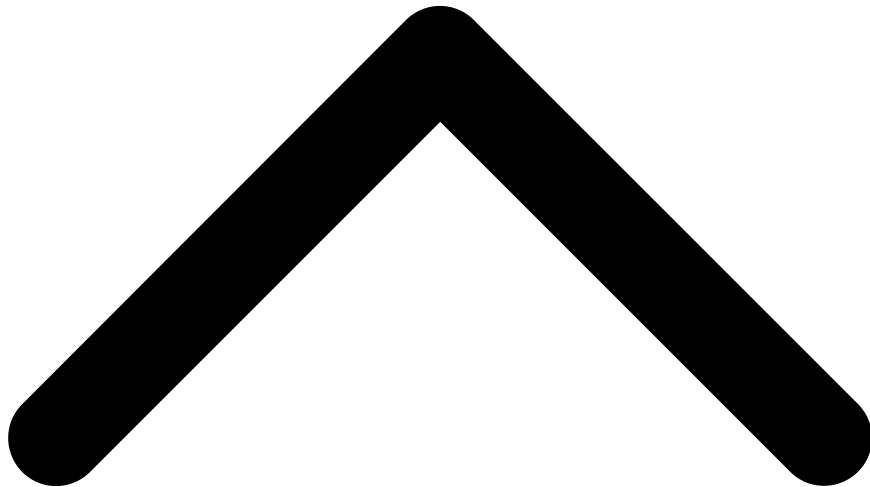


microshadow



Dec 31, 2022

Thanks God, 2023 begins with an easy problem, this would mean all of the people in LeetCode community would have an easy 2023! Happy new year to Everyone!



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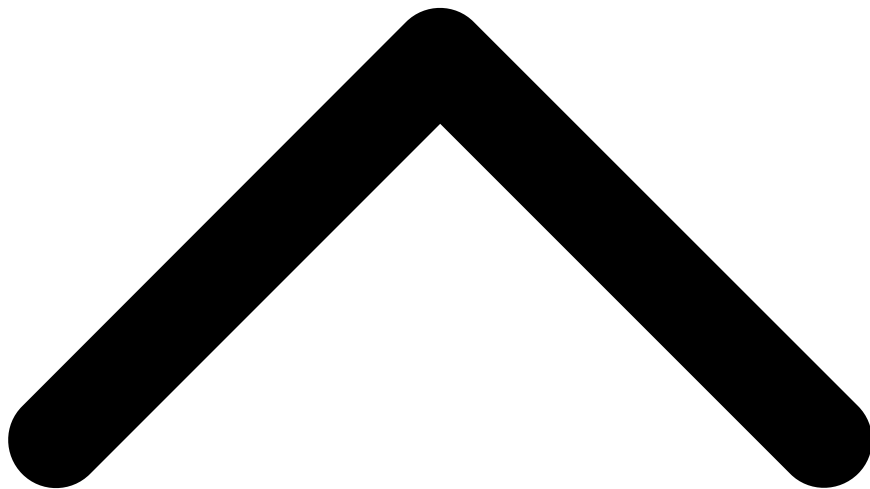


[webguru77777](#)



Jun 30, 2023

For javascript/typescript leetcoders. Watch out "constructor" for when using plain object (`{}`). Test case 40 has "constructor" to fail the codes using plain objects. Use Map instead of plain objects.



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31 Online

1

2

3

4

5

```
class Solution {  
    public boolean wordPattern(String pattern, String s) {  
  
    }  
}
```



Saved

Ln 1, Col 1

You must run your code first



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