Unknown Title

Description

Description

Note

Note

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Code

Code

Testcase

Testcase

Test Result

Test Result

Leet

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×

30. Substring with Concatenation of All Words

Hard

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You are given a string `s` and an array of strings `words`. All the strings of `words` are of **the same length**.

A **concatenated string** is a string that exactly contains all the strings of any permutation of `words` concatenated.

- For example, if `words = ["ab","cd","ef"]`, then `"abcdef"`, `"abefcd"`, `"cdabef"`, `"cdefab"`, `"efabcd"`, and `"efcdab"` are all concatenated strings. `"acdbef"` is not a concatenated string because it is not the concatenation of any permutation of `words`.

Return an array of *the starting indices* of all the concatenated substrings in `s`. You can return the answer in **any order**.

Example 1:

Input: s = "barfoothefoobarman", words = ["foo","bar"]

Output: [0,9]

Explanation:

The substring starting at 0 is `"barfoo"`. It is the concatenation of `["bar","foo"]` which is a permutation of `words`.
The substring starting at 9 is `"foobar"`. It is the concatenation of `["foo","bar"]` which is a permutation of `words`.

Example 2:

Input: s = "wordgoodgoodgoodbestword", words = ["word","good","best","word"]

Output: []

Explanation:

There is no concatenated substring.

Example 3:

Input: s = "barfoofoobarthefoobarman", words = ["bar","foo","the"]

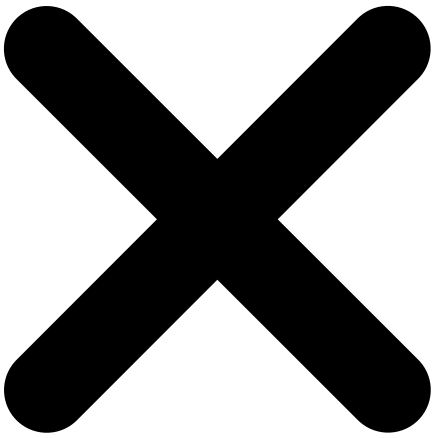
Output: [6,9,12]

Explanation:

The substring starting at 6 is `"foobarthe"`. It is the concatenation of `["foo","bar","the"]`.
The substring starting at 9 is `"barthefoo"`. It is the concatenation of `["bar","the","foo"]`.
The substring starting at 12 is `"thefoobar"`. It is the concatenation of `["the","foo","bar"]`.

Constraints:

- `1 <= s.length <= 10^4`
- `1 <= words.length <= 5000`
- `1 <= words[i].length <= 30`
- `s` and `words[i]` consist of lowercase English letters.



Seen this question in a real interview before?

1/5

Yes

No

Accepted

637,776/1.9M

Acceptance Rate

33.5%

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💡 Discussion Rules

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3. If you'd like to share your solution for feedback and ideas, please head to the solutions tab and post it there.

Daman

Feb 28, 2024

Failing on test case
"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

Me:
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

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Abhishek kumar

Sep 13, 2021

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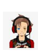

Abdulaziz

Nov 29, 2023

178 / 179 testcases passed 🤣

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cornellouis

Jun 06, 2018

I thought the question assumed all words were the same length?

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zwright8

Dec 14, 2022

Can LeetCode start adding the efficiency requirements to all the Description sections? It would make problem solving much less tedious

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Dany__Guty

Feb 12, 2023

This will save you: you need to increment the window one by one, there's no way to pass the testcases in increments in the window of n = words[0].size()

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leolin479

Dec 23, 2021

For the example case

Input: s = "wordgoodgoodgoodbestword", words = ["word","good","best","word"]
Output: []

The standard answer was "output: [8]", which preventing my code to be submitted.

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darcylmx

Dec 30, 2019

Ignoring the key information(all the words are the SAME length) will cause exponential time complexity.

Otherwise, it is just linear time to check a match.

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Igor

Nov 27, 2023

Additional description point:
The words can overlap, like in this example from the test cases:
s =
"lingmindraboofooowingdingbarrwingmonkeypoundcake"
words =
["fooo","barr","wing","ding","wing"]

Please, add this to the description, it is not clear

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Yash-Dev-Solanki

Aug 16, 2023

There is a problem with the last testcase. The parameters seem to be missing.

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1

2

3

4

5

```
class Solution {
    public List<Integer> findSubstring(String s, String[] words) {


    }
}
```

Saved

Ln 1, Col 1

s =

"barfoothefoobarman"

words =

["foo","bar"]

9

1

2

3

4

5

6

›

"barfoothefoobarman"

["foo","bar"]

"wordgoodgoodgoodbestword"

["word","good","best","word"]

"barfoofoobarthefoobarman"

["bar","foo","the"]
</>
Source

😎

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