

Problem List

Description | Editorial | Solutions | Accepted | Submissions

3571. Find the Shortest Superstring II

Premium

Easy | Topics | Hint

You are given two strings, `s1` and `s2`. Return the **shortest** possible string that contains both `s1` and `s2` as substrings. If there are multiple valid answers, return *any* one of them.

A **substring** is a contiguous sequence of characters within a string.

Example 1:

Input: `s1 = "aba", s2 = "bab"`

Output: `"abab"`

Explanation:

`"abab"` is the shortest string that contains both `"aba"` and `"bab"` as substrings.

Example 2:

Input: `s1 = "aa", s2 = "aaa"`

Output: `"aaa"`

Explanation:

`"aa"` is already contained within `"aaa"`, so the shortest superstring is `"aaa"`.

Constraints:

- `1 <= s1.length <= 100`
- `1 <= s2.length <= 100`
- `s1` and `s2` consist of lowercase English letters only.

Seen this question in a real interview before?

1/5

Yes No

Accepted

638/1.3K

Acceptance Rate

50.0%

Topics

Hint 1

Similar Questions

Discussion (3)

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8 3 0 Online

Code

Python3 | Auto

```
1 class Solution:
2     def shortestSuperstring(self, s1: str, s2: str) -> str:
3
4         n, m = len(s1), len(s2)
5
6         if n > m:
7             s1, s2, n = s2, s1, m
8
9         if s1 in s2: return s2
10
11         for i in range(1, n):
12             if s1[i:] == s2[:n-i]:
13                 return s1[i:] + s2
14             if s2[-i:] == s1[:i]:
15                 return s2 + s1[i:]
16
17         return s1 + s2
18
```

Ln 18, Col 9

Testcase | Test Result

Accepted Runtime: 0 ms

Case 1 Case 2

Input

s1 =
"aba"

s2 =
"bab"

Output