

Problem 616: Add Bold Tag in String

Problem Information

Difficulty: Medium

Acceptance Rate: 51.26%

Paid Only: Yes

Tags: Array, Hash Table, String, Trie, String Matching

Problem Description

You are given a string `s` and an array of strings `words`.

You should add a closed pair of bold tag `` and `` to wrap the substrings in `s` that exist in `words`.

* If two such substrings overlap, you should wrap them together with only one pair of closed bold-tag.
* If two substrings wrapped by bold tags are consecutive, you should combine them.

Return `s` _after adding the bold tags_.

Example 1:

Input: s = "abcxyz123", words = ["abc", "123"] **Output:** abcxyz123"

Explanation: The two strings of words are substrings of s as following: "_abc_ xyz _123_". We add before each substring and after each substring.

Example 2:

Input: s = "aaabbb", words = ["aa", "b"] **Output:** aaabbb" **Explanation:** "aa" appears as a substring two times: "_aa_ abbb" and "a _aa_ bbb". "b" appears as a substring three times: "aaa _b_ bb", "aaab _b_ b", and "aaabb _b_ ". We add before each substring and after each substring: "aaabbbb". Since the first two 's overlap, we merge them: "aaabbb". Since now the four 's are consecutive, we merge them: "aaabbb".

Constraints:

* `1 <= s.length <= 1000` * `0 <= words.length <= 100` * `1 <= words[i].length <= 1000` * `s` and `words[i]` consist of English letters and digits. * All the values of `words` are **unique**.

****Note:**** This question is the same as [758]. Bold Words in String](<https://leetcode.com/problems/bold-words-in-string/>).description/).

Code Snippets

C++:

```
class Solution {  
public:  
    string addBoldTag(string s, vector<string>& words) {  
  
    }  
};
```

Java:

```
class Solution {  
public String addBoldTag(String s, String[] words) {  
  
}  
}
```

Python3:

```
class Solution:  
    def addBoldTag(self, s: str, words: List[str]) -> str:
```