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Grokking the Coding Interview: Patterns for Coding Questions

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Longest Subarray with Ones after Replacement (hard) (/courses/grokking-the-codinginterview/B6VypRxPolJ)

Problem Challenge 1 (/courses/grokking-the-coding-interview/N8vB7OVYo2D)

Problem Challenge 4

We'll cover the following

- Words Concatenation (hard)
- Try it yourself

Words Concatenation (hard)

Given a string and a list of words, find all the starting indices of substrings in the given string that are a **concatenation of all the given words** exactly once **without any overlapping** of words. It is given that all words are of the same length.

^

Example 1:

Input: String="catfoxcat", Words=["cat", "fox"]

Output: [0, 3]

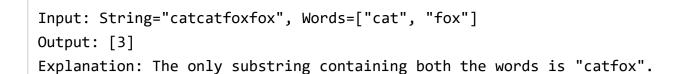
Explanation: The two substring containing both the words are "catfox" & "foxcat".

Example 2:

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Try it yourself

Try solving this question here:

```
G C++
👙 Java
             Python3
                             Js JS
         List<Integer> resultIndices = new ArrayList<Int
                                                                                               \downarrow
 6
         // TODO: Write your code here
         HashMap<String,Integer> map1 = new HashMap<>();
 7
         for(int i=0;i<words.length;i++)</pre>
 8
 9
10
           map1.put(words[i],map1.getOrDefault(words[i],
11
         int wordsCount = words.length, len = words[0].]
12
         int n = str.length();
13
         for(int start =0 ;start< n-wordsCount*len+1;start</pre>
14
15
           HashMap<String,Integer> map2 = new HashMap<>(
16
17
           for(int j=0;j<wordsCount;j++)</pre>
             int nextwordIndex = start+j*len;
18
             String temp = str.substring(nextwordIndex,r
19
             if(!map1.containsKey(temp))
20
21
               break;
22
             map2.put(temp,map2.getOrDefault(temp,0)+1);
23
             if(map2.get(temp)>map1.get(temp)){
24
25
               break;
26
             if(j+1==wordsCount){
27
28
               resultIndices.add(start);
29
30
31
32
         return resultIndices;
```

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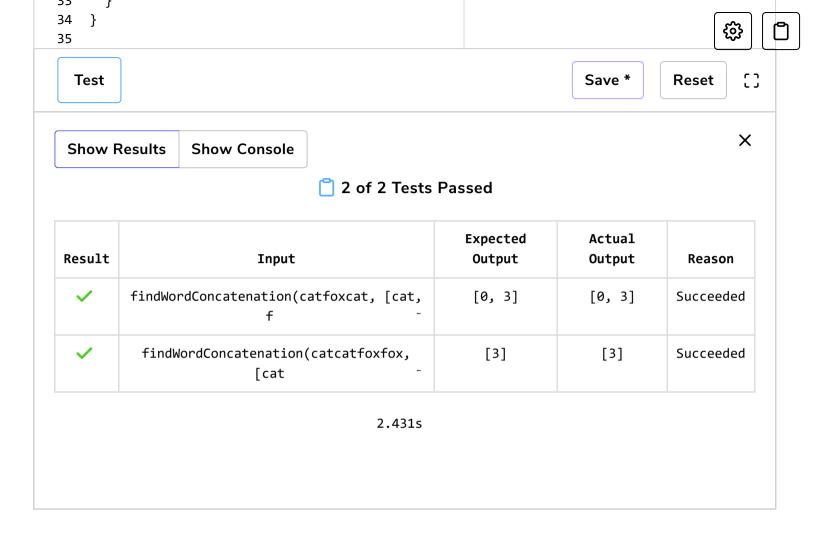
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Solution Review: Problem Challenge 3

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Solution Review: Problem Challenge 4

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