

Problem Challenge 3

Smallest Window containing Substring (hard)

Given a string and a pattern, find the **smallest substring** in the given string which has **all the characters of the given pattern**.

Example 1:

Input: String="aabdec", Pattern="abc"

Output: "abdec"

Explanation: The smallest substring having all characters of the pattern is "abdec"

Example 2:

Input: String="abdabca", Pattern="abc"

Output: "abc"

Explanation: The smallest substring having all characters of the pattern is "abc".

Example 3:

Input: String="adcad", Pattern="abc"

Output: ""

Explanation: No substring in the given string has all characters of the pattern.

Try it yourself

Try solving this question here:

Java

Python3

JS JS

C++

```
1 using namespace std;
2
3 #include <iostream>
4 #include <string>
5 #include <unordered_map>
6
7 class MinimumWindowSubstring {
8 public:
9     static string findSubstring(const string &str, const string &pattern) {
10         // TODO: Write your code here
11         return "";
12     }
13 };
14
```

Save

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Fullscreen

1 of 3 Tests Passed

Result	Input	Expected Output	Actual Output	Reason
✗	findSubstring(aabdec, abc)	abdec		Incorrect Output
✗	findSubstring(abdabca, abc)	abc		Incorrect Output
✓	findSubstring(adcad, abc)			Succeeded

3.392s