

76. Minimum Window Substring

Hard

7797

487

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Given two strings s and t of lengths m and n respectively, return the **minimum window substring** of s such that every character in t (**including duplicates**) is included in the window. If there is no such substring, return the empty string $""$.

The testcases will be generated such that the answer is **unique**.

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

Example 1:

Input: $s = \text{"ADOBECODEBANC"}, t = \text{"ABC"}$
Output: "BANC"
Explanation: The minimum window substring "BANC" includes 'A', 'B', and 'C' from string t .

Example 2:

Input: $s = \text{"a"}, t = \text{"a"}$
Output: "a"
Explanation: The entire string s is the minimum window.

Example 3:

Input: $s = \text{"a"}, t = \text{"aa"}$
Output: $""$
Explanation: Both 'a's from t must be included in the window. Since the largest window of s only has one 'a', return empty string.

Constraints:

- $m == s.length$
- $n == t.length$
- $1 \leq m, n \leq 10^5$
- s and t consist of uppercase and lowercase English letters.

Follow up: Could you find an algorithm that runs in $O(m + n)$ time?

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Yes

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```
1 class Solution {
2     public String minWindow(String s, String t) {
3
4     }
5 }
```