

문자열 S와 T를 입력받아 O(n)에 T의 모든 문자가 포함된 S의 최소 윈도우를 찾아라.

Input: s = "ADOBECODEBANC", t = "ABC"

Output: "BANC"

1.슬라이딩 윈도우, 투포인터, collections.Counter

import collections

class Solution:

```
def minWindow(self, s: str, t: str) -> str:
    need = collections.Counter(t)
    missing = len(t)
    left = start = end = 0
    for right, char in enumerate(s, 1):
        missing -= need[char] > 0
        need[char] -= 1
        if missing == 0:
            while left < right and need[s[left]] < 0:
                need[s[left]] += 1
                left += 1
            if not end or right - left <= end - start:
                start, end = left, right
                need[s[left]] += 1
                missing += 1
                left += 1
    return s[start:end]
```

import collections

class Solution:

```
def minWindow(self, s: str, t: str) -> str:
    t_count = collections.Counter(t)
    current_count = collections.Counter()
    start = float('-inf')
    end = float('inf')
    left = 0
    for right, char in enumerate(s, 1):
        current_count[char] += 1
        while current_count & t_count == t_count:
            if right - left < end - start:
                start, end = left, right
            current_count[s[left]] -= 1
            left += 1
    return s[start:end] if end - start <= len(s) else ''
```