

Problem 28: Find the Index of the First Occurrence in a String

Problem Information

Difficulty: Easy

Acceptance Rate: 45.82%

Paid Only: No

Tags: Two Pointers, String, String Matching

Problem Description

Given two strings `needle` and `haystack`, return the index of the first occurrence of `needle` in `haystack`, or `-1` if `needle` is not part of `haystack`.

Example 1:

Input: haystack = "sadbutsad", needle = "sad" **Output:** 0 **Explanation:** "sad" occurs at index 0 and 6. The first occurrence is at index 0, so we return 0.

Example 2:

Input: haystack = "leetcode", needle = "leeto" **Output:** -1 **Explanation:** "leeto" did not occur in "leetcode", so we return -1.

Constraints:

* `1 <= haystack.length, needle.length <= 104` * `haystack` and `needle` consist of only lowercase English characters.

Code Snippets

C++:

```
class Solution {  
public:
```

```
int strStr(string haystack, string needle) {  
}  
};
```

Java:

```
class Solution {  
public int strStr(String haystack, String needle) {  
}  
}
```

Python3:

```
class Solution:  
    def strStr(self, haystack: str, needle: str) -> int:
```