28. Find the Index of the First Occurrence in a String

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 <= 10`^{4}
- `haystack` and `needle` consist of only lowercase English characters.