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.