Leetcode Problem 1. (Easy)

Find the Index of the First Occurrence in a String

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.

Link: <https://leetcode.com/problems/find-the-index-of-the-first-occurrence-in-a-string/>

class Solution {

public int strStr(String haystack, String needle) {

if (haystack == null || needle == null) {

return -1;

}

int haystackLength = haystack.length();

int needleLength = needle.length();

if (haystackLength < needleLength) {

return -1;

}

for (int i = 0; i <= haystackLength - needleLength; i++) {

boolean found = true;

for (int j = 0; j < needleLength; j++) {

if (haystack.charAt(i + j) != needle.charAt(j)) {

found = false;

break;

}

}

if (found) {

return i;

}

}

return -1;

}

}

