

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:

- $1 \leq \text{haystack.length}, \text{needle.length} \leq 10^4$
- `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;
    }
}
```

```
        found = false;
        break;
    }
}
if (found) {
    return i;
}
}

return -1;
}
```

LeetCode

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Premium

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Description

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Sakib Rahman

Apr 16, 2023 00:14

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```
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        int haystackLength = haystack.length();
        int needleLength = needle.length();

        if (haystackLength < needleLength) {
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        }
    }
}
```

Console

Run

Submit