**28. Implement strStr()**

Easy

22052279Add to ListShare

Implement [strStr()](http://www.cplusplus.com/reference/cstring/strstr/).

Return the index of the first occurrence of needle in haystack, or -1 if needle is not part of haystack.

**Clarification:**

What should we return when needle is an empty string? This is a great question to ask during an interview.

For the purpose of this problem, we will return 0 when needle is an empty string. This is consistent to C's [strstr()](http://www.cplusplus.com/reference/cstring/strstr/) and Java's [indexOf()](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html#indexOf(java.lang.String)).

**Example 1:**

**Input:** haystack = "hello", needle = "ll"

**Output:** 2

**Example 2:**

**Input:** haystack = "aaaaa", needle = "bba"

**Output:** -1

**Example 3:**

**Input:** haystack = "", needle = ""

**Output:** 0

**Constraints:**

* 0 <= haystack.length, needle.length <= 5 \* 104
* haystack and needle consist of only lower-case English characters.