

# 028. Implement strStr()

## 027 Remove Element

- Two pointers+array

### Description

Implement `strStr()`.

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

**Example 1:**

**Input:** haystack = "hello", needle = "ll"  
**Output:** 2

**Example 2:**

**Input:** haystack = "aaaaa", needle = "bba"  
**Output:** -1

### 1. Thought line

1. if haystack is empty, return -1;
2. if needle is empty, return 0;

### 2. Two pointers+string

```
class Solution {
public:
    int strStr(string haystack, string needle) {
        if (needle.empty()) return 0;
        if (haystack.empty()) return -1;

        int n = haystack.size(), m = needle.size();
        for (int i = 0; i <= n - m; ++i) {
            if (haystack[i] == needle[0]) {
                bool find = true;
                for (int j = 0; find && j <= m - 1; ++j) {
                    if (haystack[i + j] != needle[j]) find = false;
                }
                if (find) return i;
            }
        }
        return -1;
    }
};
```