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

```
1 class Solution {
 2 public:
      int strStr(string haystack, string needle) {
       if (needle.empty()) return 0;
         if (haystack.empty()) return -1;
 5
 6
 7
          int n = haystack.size(), m = needle.size();
 8
           for (int i = 0; i \le n-m; ++i){
              if (haystack[i] == needle[0]){
10
                  bool find = true;
                  for (int j = 0; find && j \le m-1; ++j){
11
                  if (haystack[i+j]!=needle[j]) find = false;
12
13
                  if (find) return i;
14
15
           return -1;
17
18
19 };
```