My LeetCode Submissions - @Besp1le

14 Longest Common Prefix (link)

Description

Write a function to find the longest common prefix string amongst an array of strings.

If there is no common prefix, return an empty string "".

Example 1:

```
Input: strs = ["flower","flow","flight"]
Output: "fl"
```

Example 2:

```
Input: strs = ["dog","racecar","car"]
Output: ""
Explanation: There is no common prefix among the input strings.
```

Constraints:

- `1 <= strs.length <= 200`
- `0 <= strs[i].length <= 200`
- `strs[i]` consists of only lowercase English letters.

(scroll down for solution)

Solution

Language: cpp

Status: Accepted

```cpp
#include <string>
#include <vector>

using namespace std;

class Solution {
public:
    string longestCommonPrefix(vector<string>& strs) {
        if (strs.empty()) return "";

        string prefix = strs[0]; // Начинаем с первой строки как начального префикса

        for (int i = 1; i < strs.size(); ++i) {
            int j = 0;
            while (j < prefix.size() && j < strs[i].size() && prefix[j] == strs[i][j]
                ++j;
            }
            prefix = prefix.substr(0, j); // Обновляем префикс до найденного общего пр

            if (prefix.empty()) break; // Если больше нет общего префикса, сразу возвр
        }

        return prefix;
    }
};
```