14. Longest Common Prefix

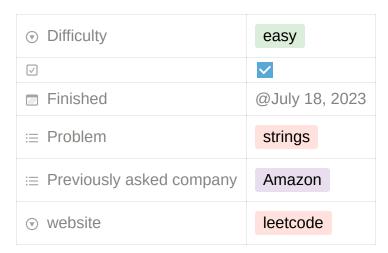| Difficulty	easy
☑	✅
Finished	@July 18, 2023
Problem	strings
Previously asked company	Amazon
website	leetcode

Question:

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.
```

Optimal solution:

Time complexity: O(m*n)

Space complexity: O(1)

```python
class Solution(object):
    def longestCommonPrefix(self, strs):
        res = ''
        for i in range(len(strs[0])):
            for s in strs:
                if i == len(s) or s[i] != strs[0][i]:
                    return res
            res += strs[0][i]
        return res
```