


**Problem 5:** Longest Common Prefix

```
def longest_common_prefix(strs):  
    if not strs:  
        return ""  
  
    min_len = min(len(s) for s in strs)  
    low, high = 0, min_len - 1  
  
    while low <= high:  
        mid = (low + high) // 2  
        prefix = strs[0][:mid + 1]  
  
        if all(s.startswith(prefix) for s in strs):  
            low = mid + 1  
        else:  
            high = mid - 1  
  
    return strs[0][:high + 1]  
  
strings = ["apple", "ape", "april"]  
lcp = longest_common_prefix(strings)  
print("Longest Common Prefix:", lcp)
```

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```
19 lcp = longest_common_prefix(strings)
20 print("Longest Common Prefix:", lcp)
21
```

input

Longest Common Prefix: ap

...Program finished with exit code 0  
Press ENTER to exit console.

