

Problem 681: Next Closest Time

Problem Information

Difficulty: Medium

Acceptance Rate: 46.94%

Paid Only: Yes

Tags: Hash Table, String, Backtracking, Enumeration

Problem Description

Given a `time` represented in the format `"HH:MM"`, form the next closest time by reusing the current digits. There is no limit on how many times a digit can be reused.

You may assume the given input string is always valid. For example, `01:34` , `12:09` are all valid. `1:34` , `12:9` are all invalid.

Example 1:

Input: time = "19:34" **Output:** "19:39" **Explanation:** The next closest time choosing from digits **1** , **9** , **3** , **4** , is **19:39** , which occurs 5 minutes later. It is not **19:33** , because this occurs 23 hours and 59 minutes later.

Example 2:

Input: time = "23:59" **Output:** "22:22" **Explanation:** The next closest time choosing from digits **2** , **3** , **5** , **9** , is **22:22**. It may be assumed that the returned time is next day's time since it is smaller than the input time numerically.

Constraints:

* `time.length == 5` * `time` is a valid time in the form `"HH:MM"`. * `0 <= HH < 24` * `0 <= MM < 60`

Code Snippets

C++:

```
class Solution {  
public:  
    string nextClosestTime(string time) {  
  
    }  
};
```

Java:

```
class Solution {  
public String nextClosestTime(String time) {  
  
}  
}
```

Python3:

```
class Solution:  
    def nextClosestTime(self, time: str) -> str:
```