Problem 949: Largest Time for Given Digits

Problem Information

Difficulty: Medium
Acceptance Rate: 35.72%
Paid Only: No
Tags: Array, String, Backtracking, Enumeration

Problem Description

Given an array `arr` of 4 digits, find the latest 24-hour time that can be made using each digit **exactly once**.

24-hour times are formatted as `"HH:MM"`, where `HH` is between `00` and `23`, and `MM` is between `00` and `59`. The earliest 24-hour time is `00:00`, and the latest is `23:59`.

Return _the latest 24-hour time in`"HH:MM"` format_. If no valid time can be made, return an empty string.

Example 1:

Input: arr = [1,2,3,4] **Output:** "23:41" **Explanation:** The valid 24-hour times are "12:34", "12:43", "13:24", "13:42", "14:23", "14:32", "21:34", "21:43", "23:14", and "23:41". Of these times, "23:41" is the latest.

Example 2:

Input: arr = [5,5,5,5] **Output:** "" **Explanation:** There are no valid 24-hour times as "55:55" is not valid.

Constraints:

* `arr.length == 4` * `0 <= arr[i] <= 9`

Code Snippets

C++:

```
class Solution {
public:
string largestTimeFromDigits(vector<int>& arr) {

}
};
```

Java:

```
class Solution {
public String largestTimeFromDigits(int[] arr) {

}
}
```

Python3:

```
class Solution:
def largestTimeFromDigits(self, arr: List[int]) -> str:
```