

LeetCode

Explore

Problems

Interview

Contest

Discuss

Store

LeetCode is hiring! Apply NOW.

🔔

🔥 0

👤

Description

Solution

Discuss (209)

Submissions

i

Java

Autocomplete

i

{ }

↺

🔄

🗉

2437. Number of Valid Clock Times

Easy

👍 62

👎 75

🔖 Add to List

🔖 Share

You are given a string of length 5 called `time`, representing the current time on a digital clock in the format `"hh:mm"`. The **earliest** possible time is `"00:00"` and the **latest** possible time is `"23:59"`.

In the string `time`, the digits represented by the `?` symbol are **unknown**, and must be **replaced** with a digit from 0 to 9.

Return an integer answer, the number of valid clock times that can be created by replacing every `?` with a digit from 0 to 9.

Example 1:

Input: `time = "?5:00"`

Output: 2

Explanation: We can replace the `?` with either a 0 or 1, producing `"05:00"` or `"15:00"`. Note that we cannot replace it with a 2, since the time `"25:00"` is invalid. In total, we have two choices.

Example 2:

Input: `time = "0?:0?"`

Output: 100

Explanation: Each `?` can be replaced by any digit from 0 to 9, so we have 100 total choices.

Example 3:

Input: `time = "??:??"`

Output: 1440

Explanation: There are 24 possible choices for the hours, and 60 possible choices for the minutes. In total, we have $24 * 60 = 1440$ choices.

Constraints:

- `time` is a valid string of length 5 in the format `"hh:mm"`.
- `"00" <= hh <= "23"`
- `"00" <= mm <= "59"`
- Some of the digits might be replaced with `'?'` and need to be replaced with digits from 0 to 9.

Accepted 10,544 Submissions 27,567

Seen this question in a real interview before?

Yes

No

Similar Questions

▼

Show Hint 1

▼

Show Hint 2

▼

1

2

3

4

5

```
class Solution {
    public int countTime(String time) {
    }
}
```

Problems

Pick One

< Prev

2437/2440

Next >

Console

Contribute i

Run Code ^

Submit