Description | Editorial | Solutions | Submissions

1056. Confusing Number

Premium

Solved

Easy | Topics | Companies | Hint

A **confusing number** is a number that when rotated `180` degrees becomes a different number with **each digit valid**.

We can rotate digits of a number by `180` degrees to form new digits.

- When `0`, `1`, `6`, `8`, and `9` are rotated `180` degrees, they become `0`, `1`, `9`, `8`, and `6` respectively.
- When `2`, `3`, `4`, `5`, and `7` are rotated `180` degrees, they become **invalid**.

Note that after rotating a number, we can ignore leading zeros.

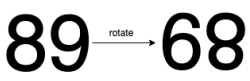
- For example, after rotating `8000`, we have `0008` which is considered as just `8`.

Given an integer `n`, return `true` *if it is a* ***confusing number****, or* `false` *otherwise.*

Example 1:


```
Input: n = 6
Output: true
Explanation: We get 9 after rotating 6, 9 is a valid number, and 9 != 6.
```

Example 2:




```
Input: n = 89
Output: true
Explanation: We get 68 after rotating 89, 68 is a valid number and 68 != 89.
```

Example 3:


```
Input: n = 11
Output: false
Explanation: We get 11 after rotating 11, 11 is a valid number but the value remains the same,
thus 11 is not a confusing number
```

Constraints:

- `0 <= n <= 10^9`

Seen this question in a real interview before? 1/5

Yes | No

Accepted 44.9K | Submissions 92.2K | Acceptance Rate 48.7%

Topics

Companies

Hint 1

Similar Questions

Discussion (11)

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310 | 11

Code

Python3 | Auto

```python
class Solution:
    def confusingNumber(self, n: int) -> bool:

        mapx = {
            "0": "0",
            "1": "1",
            "6": "9",
            "8": "8",
            "9": "6"
        }

        ans = ""

        for each in str(n):
            if each not in mapx:
                return False
            else:
                ans += mapx[each]

        if ans[::-1] != str(n):
            return True
        else:
            return False
```

Saved

Ln 10, Col 10

Testcase | Test Result

Accepted Runtime: 76 ms

Case 1 | Case 2 | Case 3

Input

n =
6

Output

true