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.

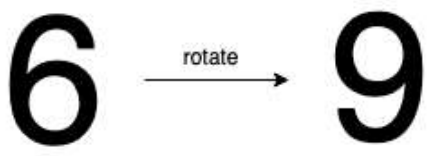
- When `0`, `1`, `6`, `8`, and `9` are rotated `180` degrees, they become `0`, `1`, `9`, `8`, and `6` respectively.
- When `2`, `3`, `4`, `5`, and `7` are rotated `180` degrees, they become **invalid**.

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`.

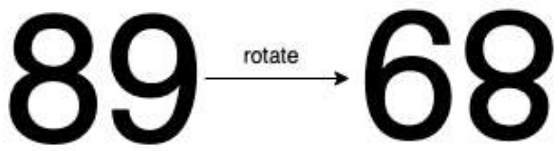
Given an integer `n`, return `true` *if it is a* ***confusing number****, or* `false` *otherwise.*

Example 1:



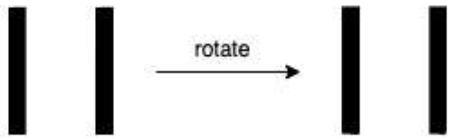
> **Input:** n = 6
> **Output:** true
> **Explanation:** We get 9 after rotating 6, 9 is a valid number, and 9 != 6.

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

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Hint 1

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