

1056. Confusing Number

Easy

61

50

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Given a number *N*, return *true* if and only if it is a *confusing number*, which satisfies the following condition:

We can rotate digits by 180 degrees to form new digits. When 0, 1, 6, 8, 9 are rotated 180 degrees, they become 0, 1, 9, 8, 6 respectively. When 2, 3, 4, 5 and 7 are rotated 180 degrees, they become invalid. A *confusing number* is a number that when rotated 180 degrees becomes a **different** number with each digit valid.

Example 1:

6

→

9

Input: 6

Output: true

Explanation:

We get 9 after rotating 6, 9 is a valid number and 9!=6.

Example 2:

89

→

68

Input: 89

Output: true

Explanation:

We get 68 after rotating 89, 86 is a valid number and 86!=89.

Example 3:

11

→

11

Input: 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.

Example 4:

25

→

72

Input: 25

Output: false

Explanation:

We get an invalid number after rotating 25.

Note:

- 0 <= N <= 10⁹
- After the rotation we can ignore leading zeros, for example if after rotation we have 0008 then this number is considered as just 8.

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```

class Solution(object):
    def
    confusingNumber(self, N):
        """
        :type N: int
        :rtype: bool
        """

```

Console

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