1088. Confusing Number II

Hard 138 49 Add to List Share

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.(Note that the rotated number can be greater than the original number.)

Given a positive integer `N`, return the number of confusing numbers between `1` and `N` inclusive.

Example 1:

```
Input: 20
Output: 6
Explanation:
The confusing numbers are [6,9,10,16,18,19].
6 converts to 9.
9 converts to 6.
10 converts to 01 which is just 1.
16 converts to 91.
18 converts to 81.
19 converts to 61.
```

Example 2:

```
Input: 100
Output: 19
Explanation:
The confusing numbers are [6,9,10,16,18,19,60,61,66,68,80,81,86,89,90,91,98,99,100].
```

Python Autocomplete

```python
class Solution(object):
    def confusingNumberII(self, N):
        """
        :type N: int
        :rtype: int
        """

```