## 1088. Confusing Number II Premium O Hint [ Companies ♥ Topics 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 the number of **confusing numbers** in the inclusive range [1, n]. Example 1: Input: n = 20Output: 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:** n = 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]. Constraints: • 1 <= n <= 10<sup>9</sup> Seen this question in a real interview before? 1/5 Yes No Accepted 37.8K Submissions **80.2K** Acceptance Rate **47.1%** Topics Math Backtracking Companies 0 - 6 months Google (2) Which set of digits have the valid numbers? Only 0, 1, 6, 8, 9 are the valid set of digits, do a backtracking to generate all the numbers containing this digits and check they are valid. **₹** Similar Questions Confusing Number 🚡 Easy Discussion (9) Copyright © 2024 LeetCode All rights reserved