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PL-2022-C-Confusing Number

Problem Submissions Leaderboard Discussions

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:

$$6 \xrightarrow{\text{rotate}} 9$$

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

Example 2:

$$89 \xrightarrow{\text{rotate}} 68$$

Input: 89 Output: true Explanation: We get 68 after rotating 89, 86 is a valid number and 86!=89.

Example 3:

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:

$$25 \xrightarrow{rotate} 97$$

Input: 25 Output: false Explanation: We get an invalid number after rotating 25.

Note: $1.0 \le N \le 10^9 2$. After the rotation we can ignore leading zeros, for example if after rotation we have 0008 then this number is considered as just 8.

Submissions: 612 Max Score: 100 Difficulty: Medium Rate This Challenge: 公公公公公

Run Code

Submit Code

```
More
                                                                                  C
                                                                                                                  \Diamond
 1 ▼#include <stdio.h>
    #include <string.h>
3
    #include <math.h>
 4
   #include <stdlib.h>
 5
 6 vint main() {
 7
       /\star Enter your code here. Read input from STDIN. Print output to STDOUT \star/
8 🔻
9
        int a,d,r;
            scanf("%d",&a);
10
        d=a/10;
11
        r=a%10;
12
         if(d==0 || d==6 ||d==8 ||d==9 || r==0 ||r==6 ||r==8||r==9)
13
14 ▼
             printf("true");
15
         }
16
17
        else
18 •
        {
19
            printf("false");
20
        }
21
22
        return 0;
23
   }
24
                                                                                                           Line: 1 Col: 1
```

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<u>♣ Upload Code as File</u> Test against custom input