yawnzheng * 320 Last Edit October 19, 2018 10:10 AM 4.5K VIEWS

The solution is also base on strobogrammatic number II, but with a little optimization.

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< Back Python solution 180ms

```
class Solution:
# @param {string} low
# @param {string} high
# @return {integer}
def strobogrammaticInRange(self, low, high):
   a=self.below(high)
   b=self.below(low,include=False)
   return a-b if a>b else 0
get how many strobogrammatic numbers less than n
def below(self,n,include=True):
   res=0
   for i in range(1,len(n)):
       res+=self.number(i)
    l=self.strobogrammatic(len(n))
   filter num larger than n and start with 0
    if include:
       l=[num for num in 1 if (len(num)==1 or num[0]!='0') and numk=n]
       l=[num for num in 1 if (len(num)==1 or num[0]!='0') and num<n]
    return res+len(1)
get strobogrammatic numbers with length 1
number start with 0 would be included
def strobogrammatic(self,1):
    res=[]
   if l==1:
        return ['0','1','8']
    if 1==2:
       return ['00','11','69','96','88']
    for s in self.strobogrammatic(1-2):
        res.append('0'+s+'0')
        res.append('1'+s+'1')
       res.append('6'+s+'9')
       res.append('8'+s+'8')
       res.append('9'+s+'6')
    return res
get number of strobogrammatic numbers of length 1
def number(self,1):
   if 1==0:
   return 0
    If 1 is an even number, the first digit has four choices (1,6,8,9). digits
   at other position have five choices(0,1,6,8,9)
    if 1%2==0:
       return 4*(5**(1/2-1))
    If 1 is an odd number, the first digit has four choices (1,6,8,9) and digit
    at the middle has 3 choices (0,1,8), other digits have 5 choices.
    digit at other position could be 0,1,6,8,9
    elif 1==1:
       return 3
    else:
       return 3*(5**(1/2-1))*4
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