660. Remove 9

Description HintsSubmissionsDiscussSolution

DiscussPick One

Start from integer 1, remove any integer that contains 9 such as 9, 19, 29...

So now, you will have a new integer sequence: 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, ...

Given a positive integer `n`, you need to return the n-th integer after removing. Note that 1 will be the first integer.

Example 1:

```
Input: 9

Output: 10
```

Hint: n will not exceed `9 x 10^8`.

Seen this question in a real interview before?

Yes

Python

```
class Solution:

    def newInteger(self, n):

        """

        :type n: int

        :rtype: int

        """

        ans = 0;pow1=1

        while n>0:
```

```
        ans = ans + n%9*pow1
        pow1 = pow1*10
        n=int(n/9)
    return ans
```