

# 1922. Count Good Numbers

```
class Solution:
    def pow(self,x,n):
        MOD=1000000007
        ans=1
        while n:
            if not n%2:
                x=((x%MOD)*(x%MOD)%MOD)
                n=n//2
            else:
                ans=((ans%MOD)*(x%MOD)%MOD)
                n=n-1
        return ans%MOD
    def countGoodNumbers(self,n:int)→int:
        import math
        MOD=1000000007
        return ((self.pow(5,int(math.ceil(n/2)))%MOD)*(self.pow(4,n//2)%MOD))%MOD
```