LEO'

1E07

DETAILS

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Roll Number

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EXPERIMENT Title

FELLIS FUNCTION

Description

Morris Fellis has come up with a new function called Fellis function Morris defines the function as follows:

f(0) = 1

f(1) = 1

f(N)=f(N-1)+7*f(N-2)+(N/4) modulo 10^9+7

Given an integer N, your task is to help Morris find and return an Integer value of f(N), after performing Fellis Function.

Note: Here the division operator is integer division operator ie, it divides two numbers and returns the integer part of the result

Input Specification:

Input1: An integer value N, representing the Fellis Function value.

Sample Input:

8

Sample Output:

6713

```
Source Code:
 def fel(n,memo={}):
    if n==0 or n==1:
        (fel(n-1,memo)+7*fel(n-2,memo)+n//4)%(10**9+7)
n=int(input())
print(fel(n))
```

RESULT

5 / 5 Test Cases Passed | 100 %