



STUDENT REPORT

DETAILS

Name

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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:

$$f(0)=1$$

$$f(1)=1$$

$$f(N)=f(N-1)+7*f(N-2)+(N/4) \text{ modulo } 10^9+7$$

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:

```
n=int(input())
l=[1,1]
for oh in range(2,n+1):
    l.append(int(l[oh-1]+l[oh-2]*7+oh/4)*(10**9+7))
print(l[n])
```

RESULT

5 / 5 Test Cases Passed | 100 %