NEAT

ENT

228



STUDENT REPORT

DETAILS

H M Karthik

Roll Number

22B124ME472-T

EXPERIMENT

Title

SPECIAL FIBONACCI

Description

Alex is exploring a series and she came across a special series, in which

ANER

 $f(N)=f(N-1)*f(N-1)+f(N-2)*f(N-2) \mod 47$

where f(0) = 1. f(1)=1

Your task is to help Alex find and return an integer value, representing the Nth number in this special series.

Input Specification:

input1: An integer value N.

Output Specification:

Return an integer value, representing the Nth number in this special fibonacci series.

Sample Input:

4

Sample Output:

29

Source Code:

def fib(n,memo={}): return 1 if n in memo: return memo[n] res=(fib(n-1,memo)**2+fib(n-2,memo)**2)%47memo[n]=res return res n=int(input()) print(fib(n))

RESULT

5 / 5 Test Cases Passed | 100 %

28.

28/1

FUZANE

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LAKA,