



STUDENT REPORT

DETAILS

Name

N Prateeth Bharadwaj

Roll Number

3BR21EC109

EXPERIMENT

Title

SPECIAL FIBONACCI

Description

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

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

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

Source Code:

```
n=int(input())
f=[1,1]
for i in range (2,n+1):
    f.append(int(f[i-1]*f[i-1]+f[i-2]*f[i-2])%(47))
print(f[n])
```

RESULT

5 / 5 Test Cases Passed | 100 %