**Nth Fibonacci Number :-**

Easy Accuracy: 22.3% Submissions: 202K+ Points: 2

Given a positive integer **n**, find the nth fibonacci number. Since the answer can be very large, return the answer modulo **1000000007**.  
  
**Example 1:**

**Input**:   
n = 2

**Output:**   
1

**Explanation**:   
1 is the 2nd number of fibonacci series.

**Example 2:**

**Input:**n = 5

**Output:**5

**Explanation**:   
5 is the 5th number of fibonacci series.

**Your Task:**  
You dont need to read input or print anything. Complete the function **nthFibonacci()**which takes n as input parameter and returns nth fibonacci number.

**Expected Time Complexity:** O(n)  
**Expected Auxiliary Space:** O(n)

**Constraints:**  
1<= n <=105

**Code :-**

//{ Driver Code Starts

// Initial Template for C++

#include <bits/stdc++.h>

using namespace std;

// } Driver Code Ends

// User function Template for C++

class Solution {

public:

int mod = 1000000007;

int nthFibonacci(int n){

int count=1, cur=1, prev=0;

while(count<n){

int sum = ((cur % mod) + (prev % mod)) % mod;

prev = cur;

cur = sum;

++count;

}

return cur;

}

};

//{ Driver Code Starts.

int main() {

int t;

cin >> t;

while (t--) {

int n;

cin >> n;

Solution ob;

cout << ob.nthFibonacci(n) << endl;

}

return 0;

}

// } Driver Code Ends

**T.C :- O(N)**

**S.C :- O(1)**