65 : 46 : 22 Finish test

Learn how your code will be evaluated (https://helpcenter.mymapit.in/?ht_kb=things-to-know-before-attempting-the-test) | Utility codes for quick start (https://helpcenter.mymapit.in/?page_id=871)

Section - 1

Prev Next

Question No. 14 **of** 36 | 50 Marks

Fibonacci Series

Given a number N, figure out if it is a member of the Fibonacci series or not. Return true if the number is a member of the Fibonacci series else false.

Fibonacci Series is defined by the recurrence

F(n) = F(n-1) + F(n-2)

where F(0) = 0 and F(1) = 1

Input Format:

The first line contains an integer 't' which denotes the number of test cases/queries to be run. Every line of the next t lines contains the number N to be checked for membership.

Output Format:

true or false

Constraints:

t > 0

0 <= n <= 10^4

C (gcc 4.8.3) ▶ Compile & Run O/P »

```c
#include<stdio.h>
#include<stdbool.h>

// 🎈 note alternaive approach can be : (5*n2 + 4) or (5*n2 - 4)

bool isItFiboNum(int fiboArr[], int number){
    // loopig array and if number is found return true
    int i;
    for(i=0; i < 100; i++)
        if(fiboArr[i] == number) return true;
    return false;
}
int main(){
    int noOfInputs;
    scanf("%d",&noOfInputs);

    // find fibo series of 100 elements
    int a = 0,b=1;
    int fiboArr[100];
    fiboArr[0] = 0;
    fiboArr[1] = 1;
    int i;
    for(i = 2; i < 100; i++){
        int c = a+b;
```

x