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

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

$$0 \le n \le 10^4$$

```
C (gcc 4.8.3) 🗸
                                                                   Compile & Run
    #include<stdio.h>
    #include<stdbool.h>
    //\triangleleft note alternaive approach can be : (5*n2 + 4) or (5*n2 - 4)
 6
    bool isItFiboNum(int fiboArr[], int number){
 7
         // Loopig array and if number is found return true
 8
        int i;
 9
        for(i=0; i < 100; i++)
10
             if(fiboArr[i] == number) return true;
11
        return false;
12
    }
13
    int main(){
14
         int noOfInputs;
15
         scanf("%d",&noOfInputs);
16
17
        // find fibo series of 100 elements
18
         int a = 0,b=1;
19
         int fiboArr[100];
20
        fiboArr[0] = 0;
21
        fiboArr[1] = 1;
22
        int i;
        for(i = 2; i < 100; i++){
23
24
             int c = a+b;
```

Next

Prev

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