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**SET: ODD**

#include<iostream>

#include<bits/stdc++.h>

#include<unordered\_set>

#include<unordered\_map>

using **namespace** std;

#define ll **long** **long** **int**

#define llmin -1e18

#define ff first

#define ss second

#define pb push\_back

#define vi vector<**int**>

#define take(a,n) vector <**int**> a; for(**int** i=0;i<n;i++){**int** aa; cin>>aa; a.pb(aa);}

#define vll vector<ll>

#define full(a) (a.begin(),a.end())

#define vc vector<**char**>

#define iz(n) **int** n; cin>>n;

#define iz2(n,m) **int** n,m; cin>>n>>m;

#define mii map<**int**,**int**>

#define setbits(x) \_\_builtin\_popcountll(x)

#define zerobits(x) \_\_builtin\_ctzll(x) *//zeros before first 1*

#define com **int** t; cin>>t; while(t--)

#define forn(n) for(**int** i=0;i<n;i++)

#define fo(x,y) for(**int** i=x;i<y;i++)

**int** main(){

ios\_base::sync\_with\_stdio(false);

cin.tie(NULL);

*// #ifndef ONLINE\_JUDGE*

*// freopen("input.txt", "r", stdin);*

*// freopen("output.txt", "w", stdout);*

*// #endif*

vector <**int**> aa;

aa.pb(0);

*// int level=1;*

for (**int** i = 0; i < 10000; i++)

{

*// if(i==level){*

*// aa.pb(-1);*

*// level=level\*level;*

*// }*

if(aa[i]==0){

aa.pb(0);

aa.pb(1);

}

else{

aa.pb(1);

aa.pb(0);

}

}

com{

**int** a,b;

cin>>a>>b;

if(a==1){

cout<<0<<endl;

continue;

}

**int** pos=1;

pos=pow(2,(a-1))-1;

*// int res;*

cout<<aa[pos+b-1]<<endl;

}

return 0;

}

**Graphical user interface, text, application, email

Description automatically generated**

**Question 2:**

import math

import os

import random

import re

import sys

# Complete the fibonacciModified function below.

n1, n2, n = map(**int**, input().split())

seq = [n1, n2]

if n <= 2:

print(seq[n-1])

else:

for i in range(n-2):

seq.append(seq[-2] + seq[-1]**\*\***2)

print(seq[-1])

**Graphical user interface, text, email, website

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