**Reach the Nth point (GFG)**

There are N points on the road ,you can step ahead by 1 or 2 . Find the number of ways you can reach at point N. For example:  for n=4 we have 5 possible ways [1,1,1,1]  [1,1,2]  [1,2,1]  [2,1,1]  [2 2].

**Input:**

The first line of input contains an integer T denoting the number of test cases.Next line of each input contains a single integer N.  
  
**Output:**

Print the output of each test case in a new line.  
  
**Constraints:**

1<=T<=100

1<=N<=90  
  
**Example:**

**Input:**

2  
4  
5

**Output:**

5  
8

Solution :

import java.util.\*;

import java.lang.\*;

import java.io.\*;

class GFG {

public static void main (String[] args) {

Scanner sc = new Scanner(System.in);

int t = sc.nextInt();

for(int i=0;i<t;i++)

{

int n = sc.nextInt();

long m=3,a=0,b=1;

if(n==1 || n==2 || n==3){ m=n;}

else

{

for(int j=4;j<=n;j++)

{

m = m\*2-(a+b);

b=a+b;

a=b-a;

}

}

System.out.println(m);

}

}

}