

The 25<sup>th</sup> Annual  
ACM International Collegiate  
Programming Contest  
ASIA Regional - Taejon



## Practice Problem B

### Cross a Creek

Input: creek.in

There is a creek of  $n$  meters wide. Crossing the creek,  $n+1$  rocks are placed in a straight line (rocks are placed at either sides of the creek). Every two neighboring rocks are 1 meter apart. Chulsoo who is at one side of the creek wants to cross the creek by hopping over the rocks. Chulsoo may jump either to the neighboring rock or to the next to the neighboring rock. That is, Chulsoo may jump either 1 meter or 2 meters in distance. Write a program which computes the number of different jump sequences through which Chulsoo may cross the creek.

If a creek is 4 meters wide, Chulsoo may cross the creek through 5 different jump sequences:

- (1) 1 meter + 1 meter + 1 meter + 1 meter
- (2) 1 meter + 1 meter + 2 meters
- (3) 1 meter + 2 meters + 1 meter
- (4) 2 meters + 1 meter + 1 meter
- (5) 2 meters + 2 meters

### Input

The first line of the input file contains one integer  $t$  representing the number of test cases. For each test case, a single positive integer  $n$  is given per line. The integer  $n$  represents the width of a creek and is less than 100.

### Output

Your program should print  $t$  integers one per line. The  $i$ -th integer is the answer (the number of different jump sequences) that your program has computed for the  $i$ -th test case.

Sample Input	Output for the Sample Input
2 4 5	5 8