

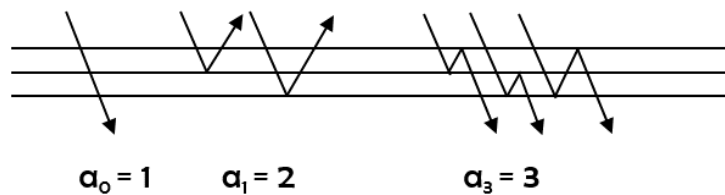
## Ray Through Glasses(Edited)

*Extracted from:*UVA 10334  
*Source file name:* glasses.py  
*Time limit:* 1 second

La solución de este problema debe ser **RECURSIVO**.

Suppose we put two panes of glass back-to-back. How many ways  $a_n$  are there for light rays to pass through or be reflected after changing direction  $n$  times?

The following figure shows the situations when the value of  $n$  is 0, 1 and 2:



### Input

It is a set of lines with an integer  $n$  where  $0 \leq n \leq 30$  in each of them.

*The input must be read from standard input.*

### Output

For every one of these integers a line containing  $a_n$  as described above.

*The output must be written to standard output.*

Sample Input	Sample Output
0	1

Sample Input	Sample Output
1	2

Sample Input	Sample Output
2	3