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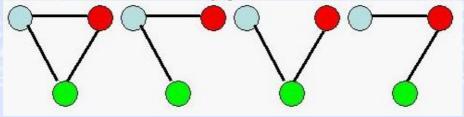
Connected Graph

Time Limit: 1000MS Memory Limit: 30000K **Total Submissions: 4019** Accepted: 1855

Description

An undirected graph is a set V of vertices and a set of $E \in \{V^*V\}$ edges. An undirected graph is connected if and only if for every pair (u,v) of vertices,u is reachable from v.

You are to write a program that tries to calculate the number of different connected undirected graph with n vertices. For example, there are 4 different connected undirected graphs with 3 vertices.



Input

The input contains several test cases. Each test case contains an integer n, denoting the number of vertices. You may assume that $1 \le n \le 50$. The last test case is followed by one zero.

Output

For each test case output the answer on a single line.

Sample Input

Sample Output

1 1

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Source

LouTiancheng@POJ

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