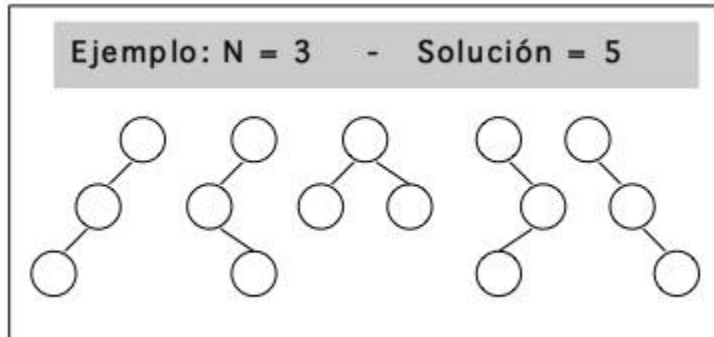


Problem Description

Given n (nodes), we want to know how many binary trees we can make with these amount of nodes.



Input

Comes in a line n ($1 \leq n \leq 30$), nodes

Output

A line with the amount of binary trees

Sample Input

3

Sample Output

5 BTrees