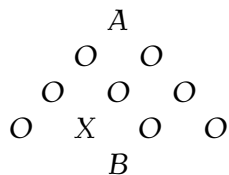


12 Days of ChrisMATH — Day 9

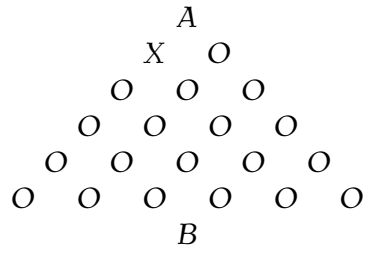
A squirrel is making its way down a tree, starting at A , the angel at the top of the tree and ending at B , the bottom of the tree. Each time it moves down a level, it can either go left or right, provided that it moves to an open spot represented by O , or finishes its path by moving to B . It is not allowed to move to the spots marked with X . How many different ways can the squirrel make its way from A to B ?

For example, consider the following tree:

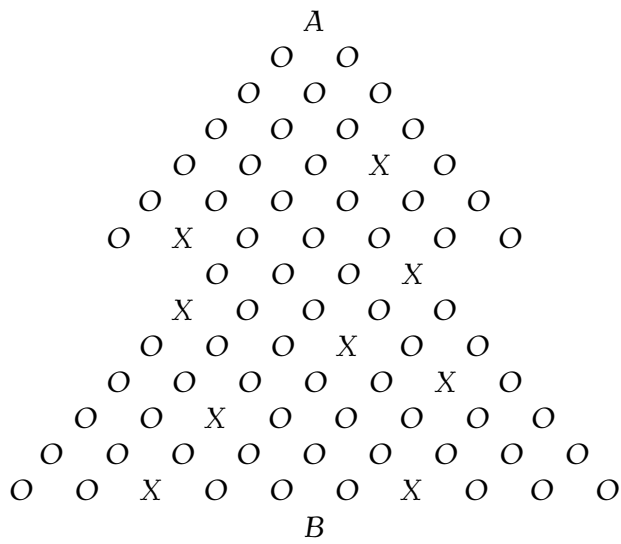


Then the squirrel could have travelled LRRL, RLRL, or RRL, so 3 ways.

Level 1:

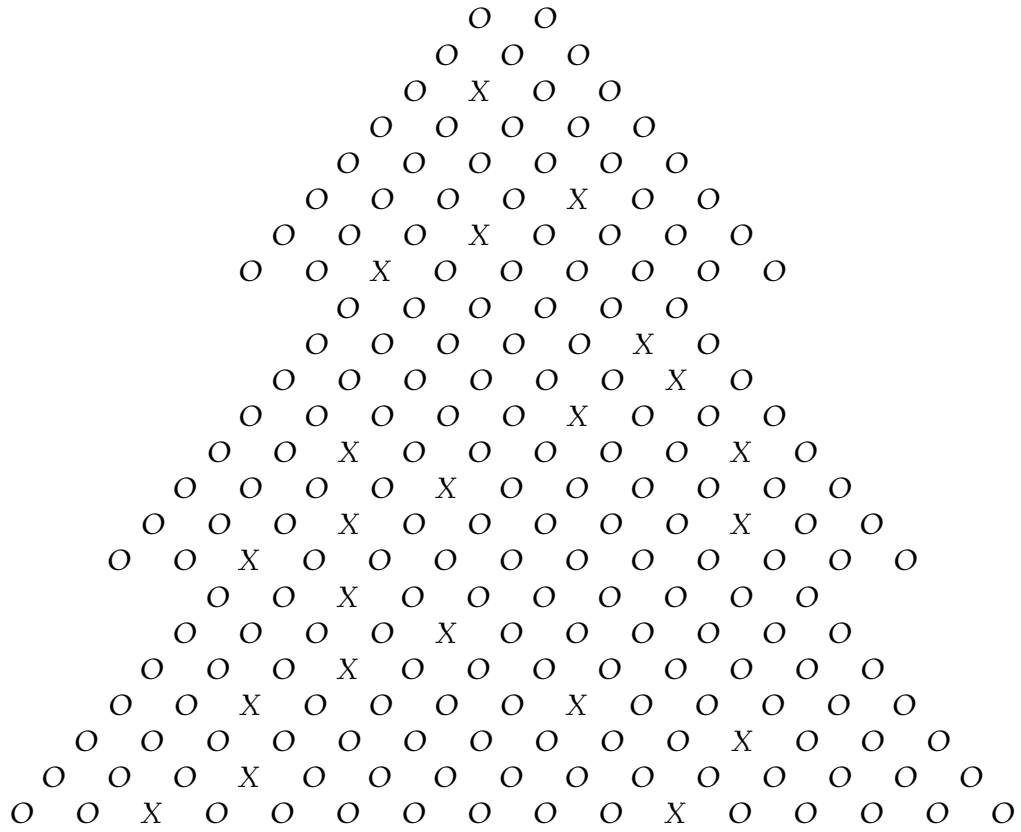


Level 2:



Level 3:

A



B