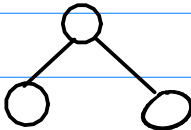
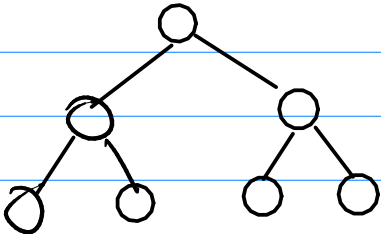


Let  $N = 1$    $2^1 - 1$

Let  $N = 2$    $2^2 - 1$

Let  $N = 3$    $2^3 - 1$

The maximum number of nodes in a BST  
with depth  $N$  is  $2^N - 1$