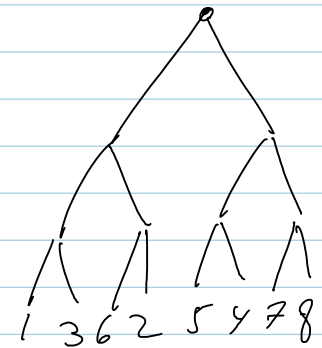


$[n]$ -Tree: Complete binary tree w/ $n=2^h$ leaves,
with leveled leaves. Two are equivalent
if the distance between labels is preserved.

Ising model: Every edge is
"open" w/ probability θ ;
use to make connected
components, then choose



± 1 per component uniformly & independently

Z_ω is the process

$Z_{[n]}$ the marginal on the leaves.

Z_o the value at the node.

The "swap distance" between T & T'
is the minimal number of depth-preserving
swaps to get from T to T' .

Goal: recover T from observations
of $Z_{[n]}$