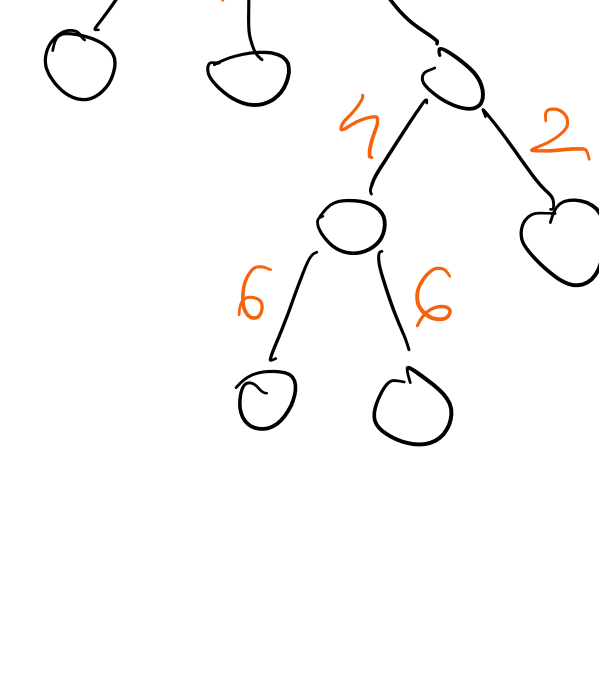
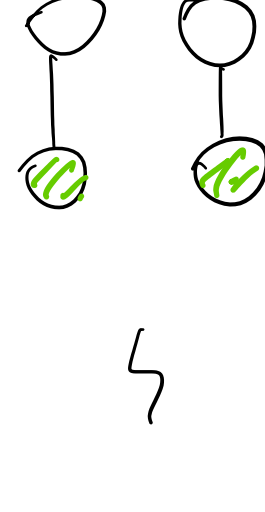


Path length: 2/4

1/3



2/3

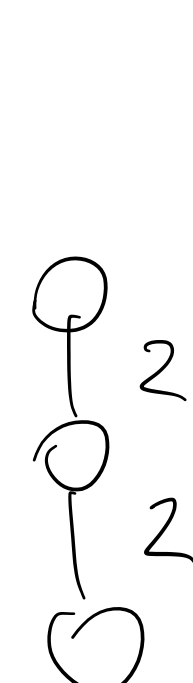
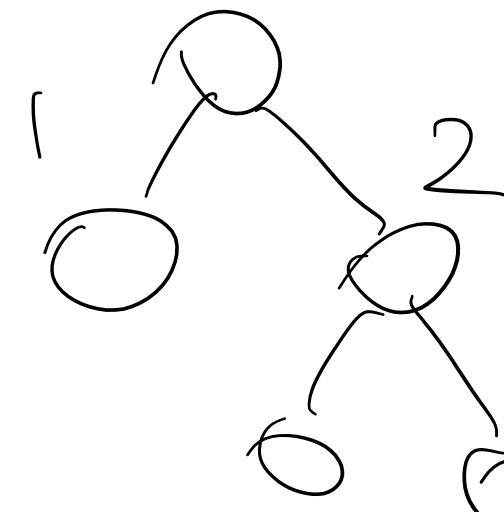
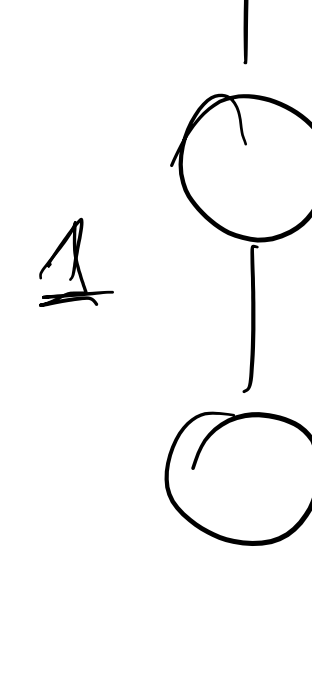
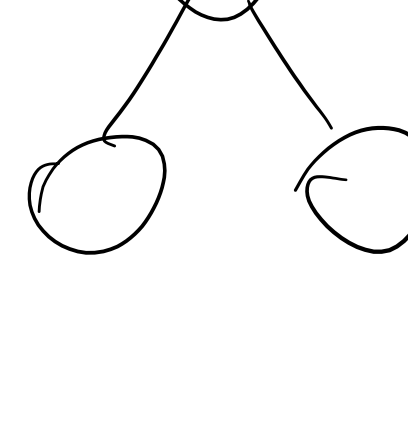
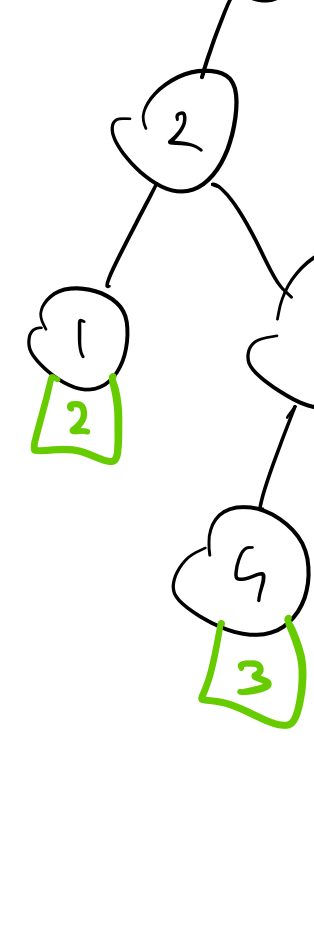
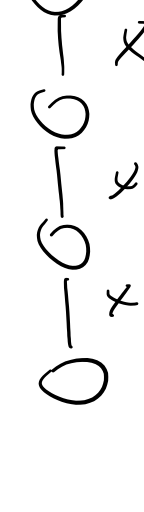
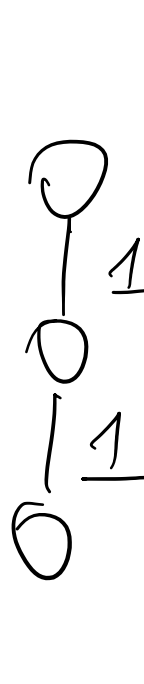
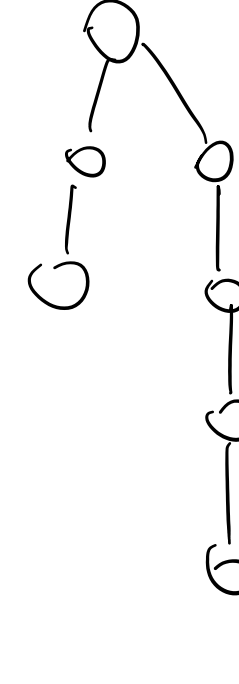
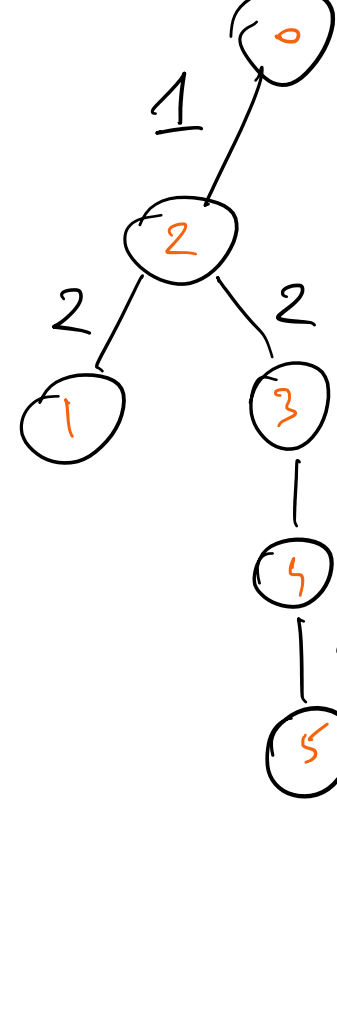
Mini: If all paths even: 1

Count depths of leaves

Answer: $2n-1$ where n : number of different depths

unless all depths even/odd, then 1

Max

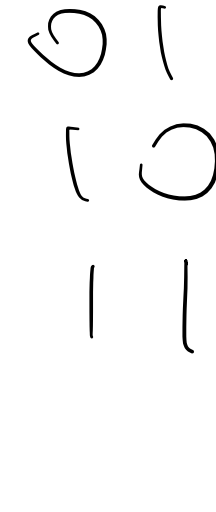
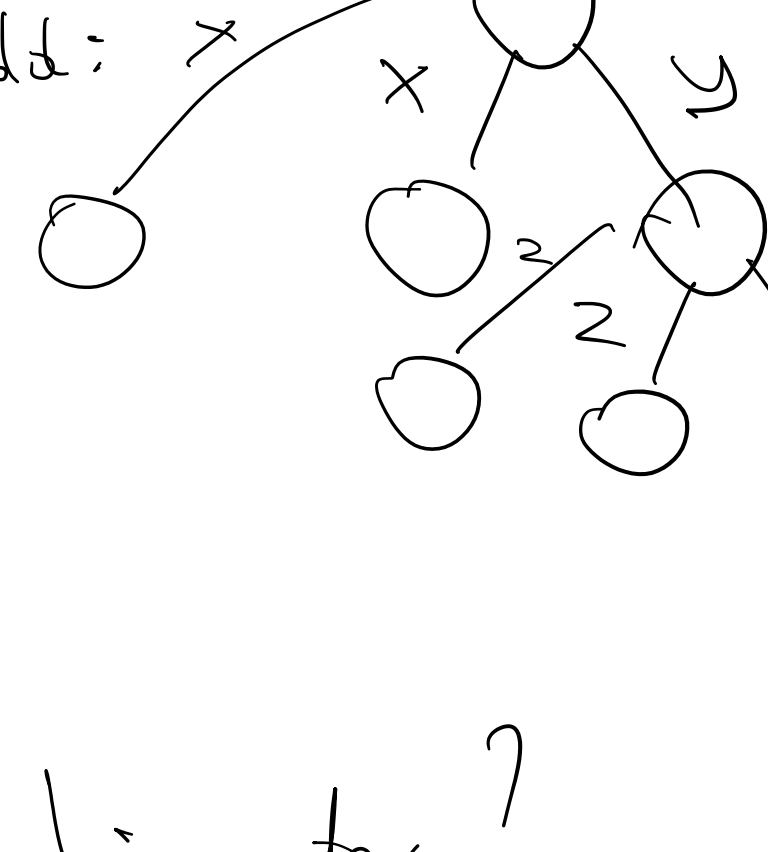


Result: 1

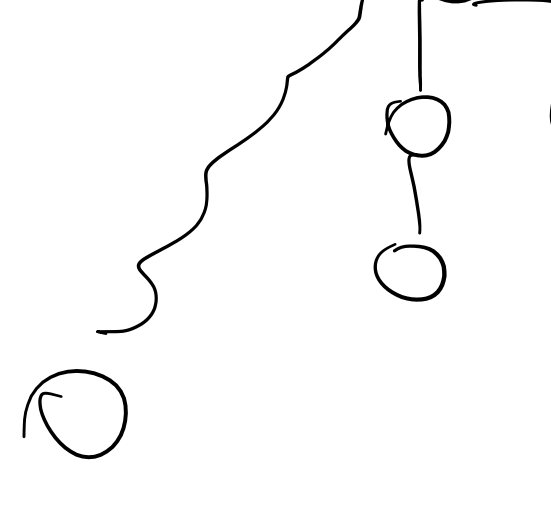
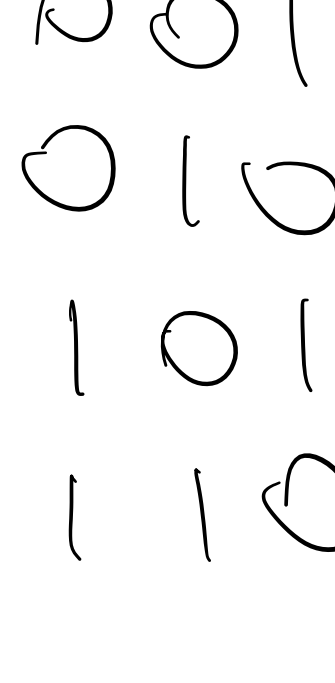
3

4

N odd: x



diameter?



diameter

XOR of n numbers

max n different numbers

= 0

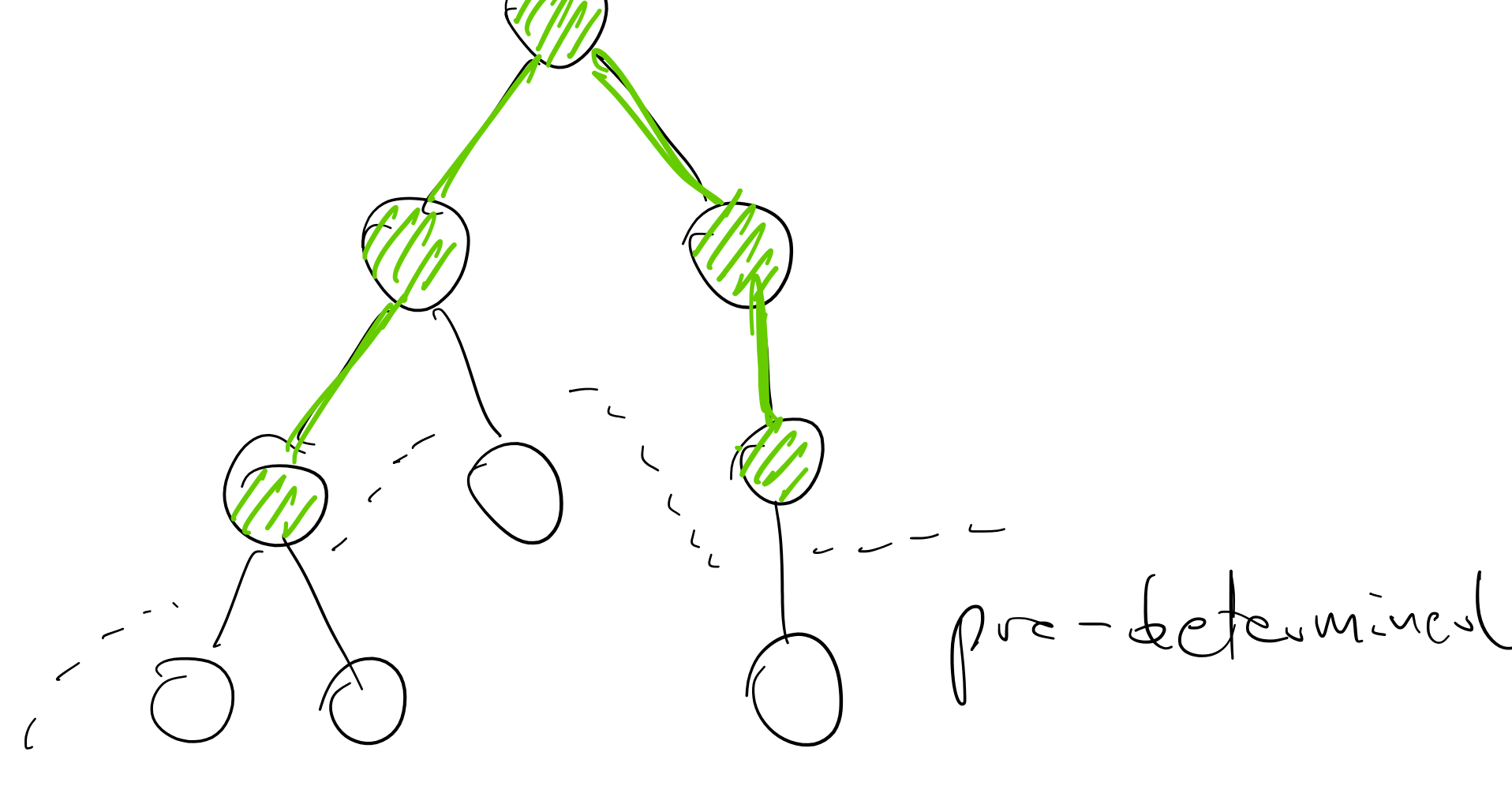
min 1 number if n odd

3 otherwise (we must make all paths equal some x)

Back to tree...

Min is 1 if all depths have the same parity 3 otherwise

Max: number of non-leaves



Answer: number of edges not-involving a leaf

