

# \* Game of Life.

00 → current state ⇒ 00  
01

00 ⇒ { 00 } dead previously  
01 { 01 } live previously  
11 { 11 } live previously  
↑ ↑  
next previous

curr. live → next neighbours 2, 3 lives → next live  
n dead → n 3 lives → next live

0 (n)  
0 (n)  
0 (n)

live &  $c \geq 2$  &  $c \leq 3$   
dead &  $c = 3$

count | board[i][j] = 3

follow up → take each pair & add to a set.  
Iterate & take count of neighbours live.  
(Use a Map). take take

regenerate grid using above condition.

We think # of live cells are finite.  
even grid is infinite.

(pair, equal, pair hist. contain compare pair  
attribute fields.)