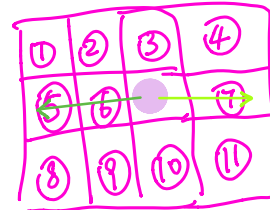
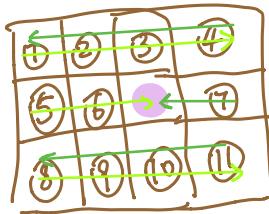
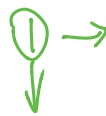


● Wormholes

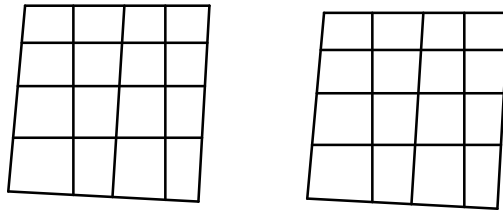


Bulb / stone / wormhole /

Puzzle Creating Logic:

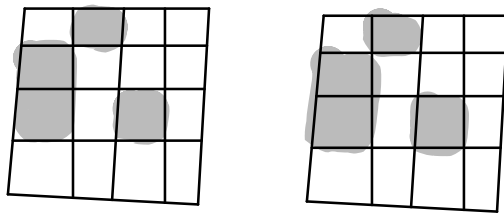
① Initialization:

Given size (eg: 4×4) \rightarrow 2 empty grids.



② Add Walls (Black Square)

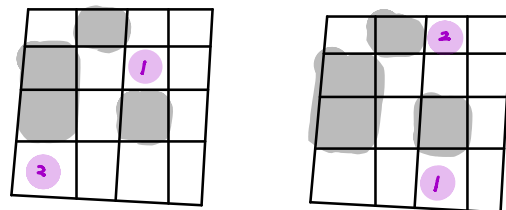
Given percentage of black squares (eg: 25%)



③ Add wormholes in empty cells

is selected by user

1/2 ?



④ Add light bulbs

add in ① until no ① is { empty
not lit by other bulbs.

* priority: { ① empty cells adjacent to walls

② other cells.

easy to use # in black squares
to restrict bulbs' location >



According to , randomly add light

higher probability to be
unique solution

(empty cell = no { wall
light bulb)
wormhole

⑤ Add numbers on walls:

based on Difficulty { easy : Record # on all walls
hard : Remain some walls without #

⑥ Verify whether it is unique solution

if { yes : Print puzzle & solution
no : redo ② ③ ④ ⑤