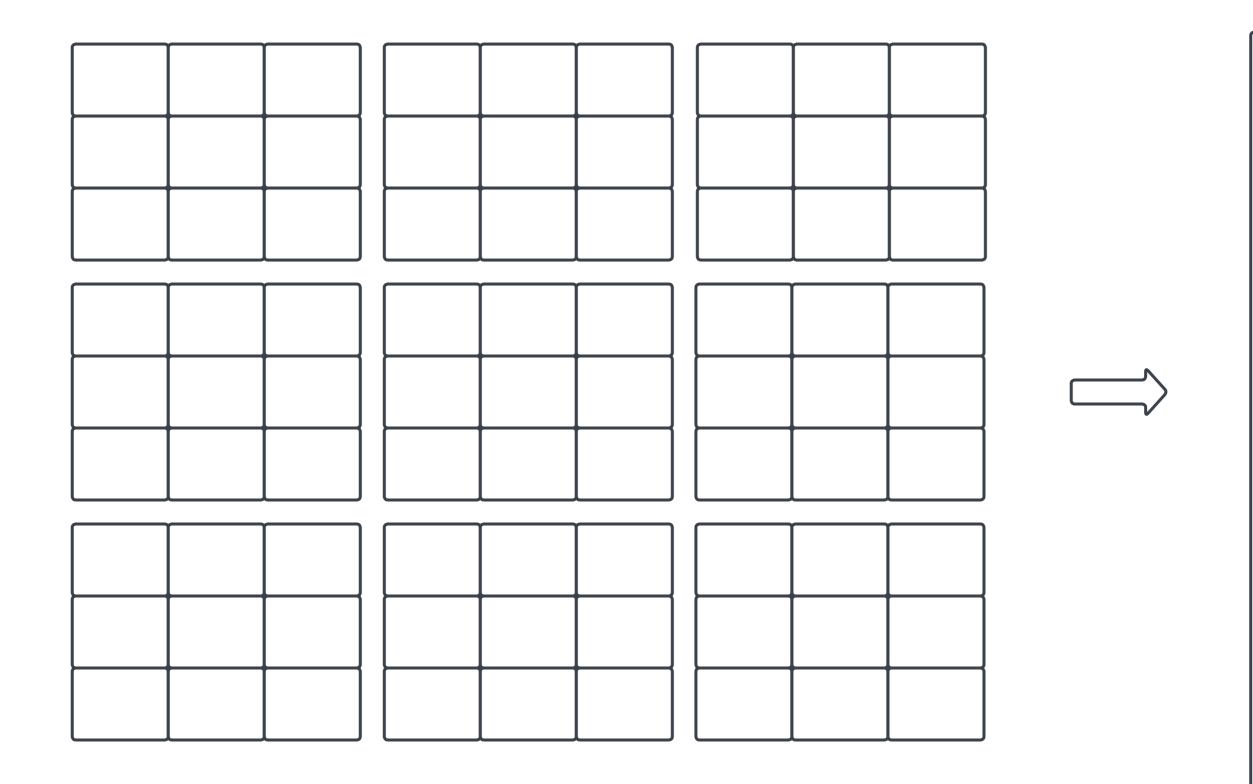
Valid Sudoku



Define Dictionary:

Row
$$\begin{bmatrix} x \end{bmatrix} = \begin{cases} \text{Set of all cell} \\ \text{values in row } x \end{cases}$$

Subgrid
$$[(x//3, y//3)] = {Set of all cell values} in subgrid $(x//3, y//3)$$$

