

Applications of Recursion ***

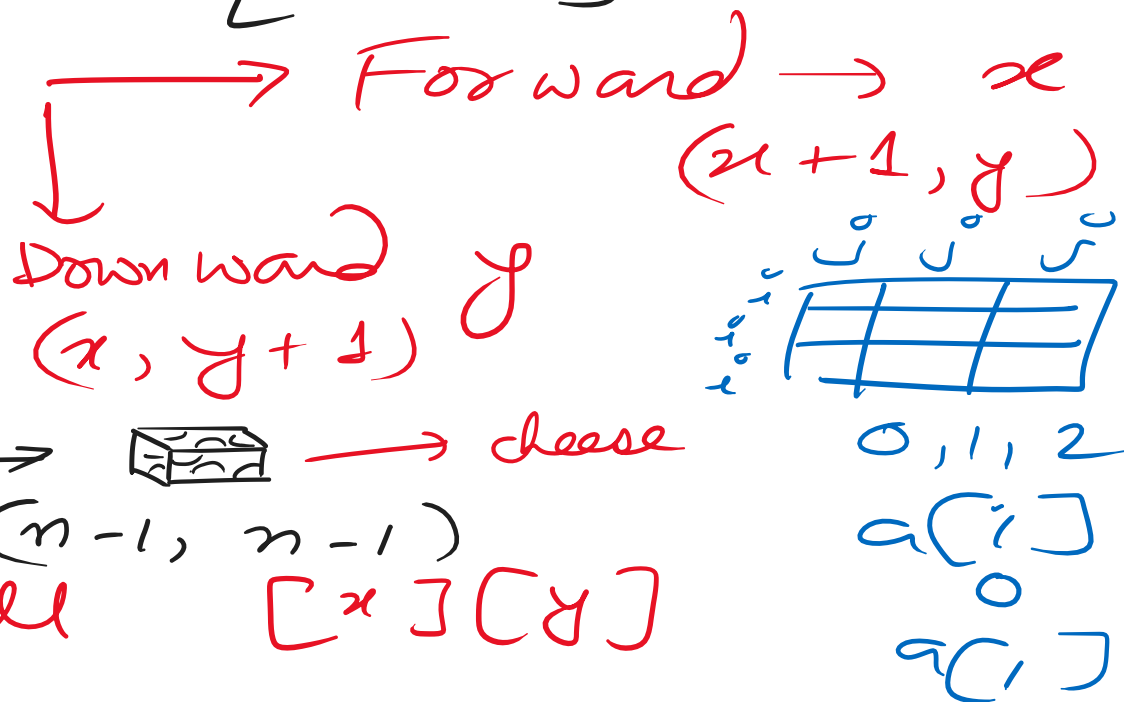
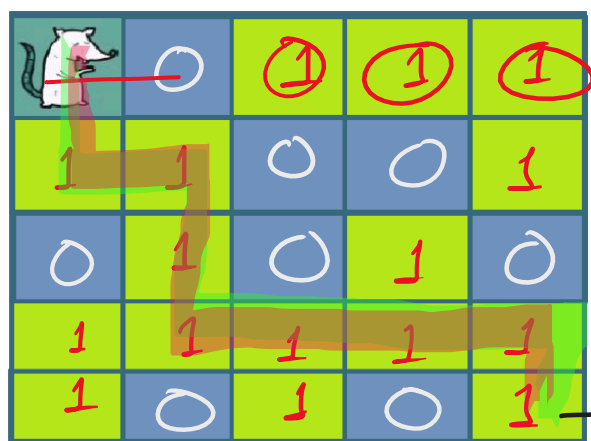
* Back-Tracking \Rightarrow

- ① Rat In A Maze
 - ② Sudoku Solver
 - ③ Subsets of a String / Number
 - ④ N Queens In Chessboard
- (VTV) \rightarrow Confluence

Rat In A Maze \Rightarrow

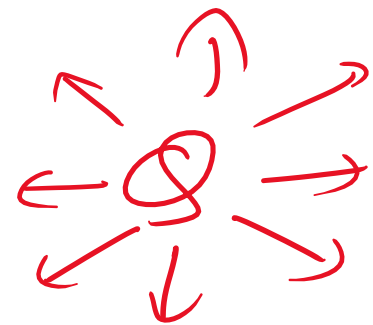
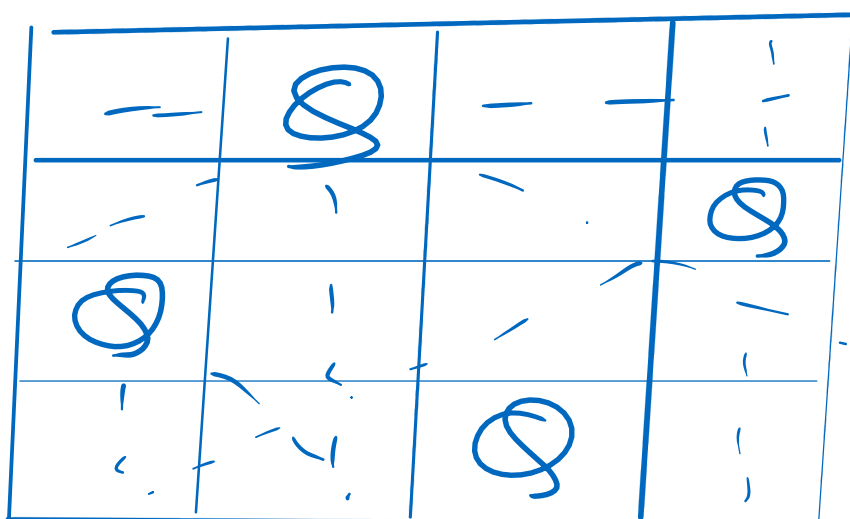
Recursion

$(0,0)$ $n \times n$ matrix [MAZE]



N-Queens Problem Algo

4x4
 Matrix
 4 Queens
 Every
 row
 should
 have 1 Queen



1, 2 Problems
 \Rightarrow Trie Data Structure