

2) Backtracking.

→ An optimization technique usually used when recursion is already there.

→ Term backtracking implies → if the current solution is not suitable, eliminate it and it's children and go back / backtrack to previous state to check for other solutions.

Eg:- N-Queens Problem, Rat maze, Sudoku problem.

→ * Though backtracking can be implied in many constraint satisfaction problems, other algo like dynamic prog & greedy can also be applied there, all better than brute force.

But some problems require (N-Queens)^{like} only backtracking sol.