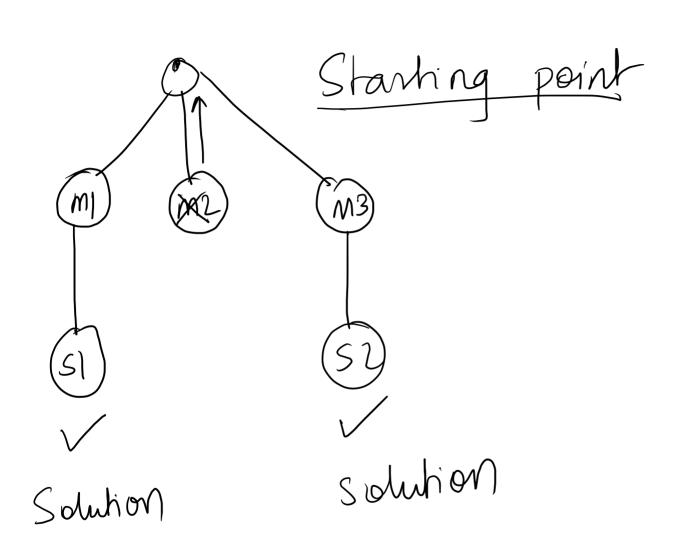
Backtracking Algorithm

Examples of Backtracking



Algorithm

1) Build the solution step by step using recursion.

2) Stan space tree is used to find all the solutions

3) Explore the solutions and check if constraints are satisfied.

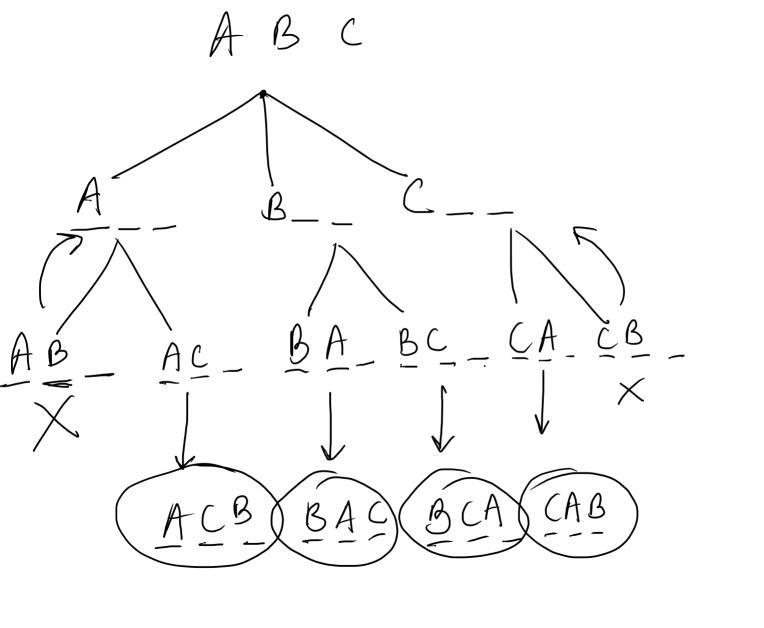
it constraints are satisfied Keep boking for the solution else algorithm returns to the previous Q.) All possible arrangements of A,B,C such that B cannot be in middle BBBCX

Examp.

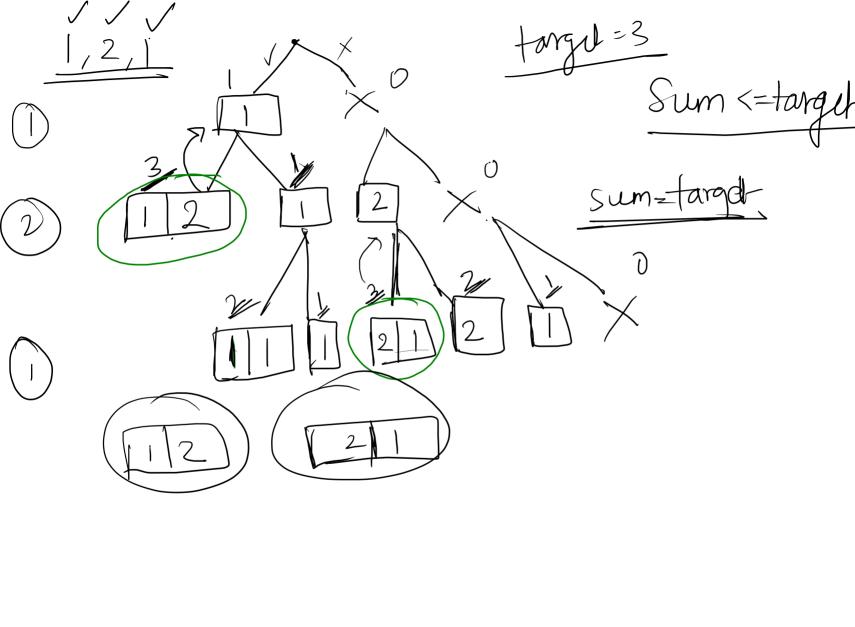
BAC

CAB

ABCX



Q2.) Subset sum. targer = 3



Problems on Backhacking

Desubset Permutations & Combinations

2) Rat m a maze

3 N-Queens Problem

(4) Sudoku Solver