Design & Analysis of Algorithms Monsoon Semester III 2020-21

Lab - 4 Due Date: 28 September 2020

Topics: Backtracking

INTRODUCTION

In the lab, we would be exploring backing tracking algorithm to solve the problems.

EXERCISE

- 1. Implement a backtracking algorithm for solving N Queen problem. Compute all possible solution for N Queen and also compute the number of backtracks. Perform the experiment from N = 2 to 9. LeetCode Problem
- 2. Solve a Suduko problem using backtracking approach and count the number of backtracks. LeetCode Problem

3. Given a set of candidate numbers (candidates) (without duplicates) and a target number (target), find all unique combinations in candidates where the candidate numbers sums to target. eg. W: [5, 10, 12, 13, 15, 18] and target = 30. LeetCode Problem