Project Title

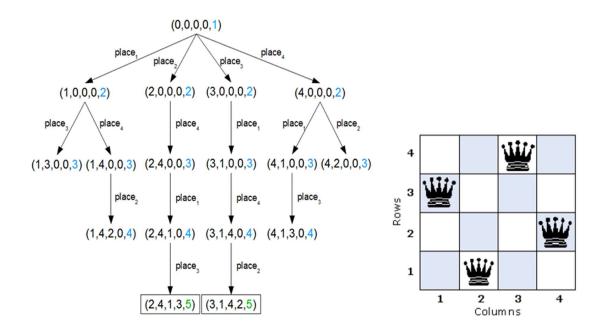
• N-Queen Problem

Project Description

The **N** Queens puzzle is the problem of placing **N** chess queen on an **N** \times **N** chessboard so that no two queens threaten each other. Thus, a solution requires that no two queens share the same row, column, or diagonal. In **N** queens problem there exist solution for all natural numbers **N** with the exception of **n=2** and **n=3**.

Data Structures to be used

Basically this problem can be solved using recursion only. But, it can also be represented using **Tree.** Which is easy to understand. It can help us to visualize that from where we cannot go further and take another path. So internally it also uses **Backtracking.** Below is the example for the same.



So, basically we will use **Recursion**, **Backtracking** and **Tree** to solve this problem.

Reason for Undertaking N-Queen Problem

- To concur Data Structures Like Link List and Trees
- Better understand **Recursion** concept and **Backtracking** process

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