Exercise 10

CSE2012 DAA Lab

Slot: L33+L34

Faculty: Dr M Janaki Meena

N-Queen Problem Description

The N Queen is the problem of placing N chess queens on

an N×N chessboard so that no two queens attack each

other. Two queens are said to attack each other if they are

placed on the same row, same column or if they are

diagonally placed

1. Given the value of 'n' as input, write a recursive

procedure to find all solutions to place them on a nxn

board such that they do not attack each other.

2. Given the value of 'n' as input, write a recursive

procedure to find only one solution to place them on a

nxn board such that they do not attack each other.

3. Given the value of 'n' as input, write an iterative

procedure to find only one solution to place them on a

nxn board such that they do not attack each other.

4. Given the value of 'n' as input, write an iterative

procedure to find all solutions to place them on a nxn

board such that they do not attack each other.

5. Given the value of 'n' as input, write an iterative procedure to find out solutions that are not mirror images to place them on a nxn board such that they do not attack each other.