Computational Logic: CS 6374
HW 8

This assignment can only be done on SICStus Prolog.

Problem 1: Program the N-Queen problem in CLP(FD). Follow the structure of the 8 queens problem whose code is given to you.

Problem 2: Write a CLP(FD) program to solve cryptarithmetic addition problems.

Problem 3: Program the Zebra puzzle in CLP(FD).

Problem 4: Program the Sudoku Puzzle in CLF(FD). You should read input from the user which consists of a series of terms of the form:

f(X,Y,Z).

in a file called "input". The term f(X,Y,Z) states that the square at position (X, Y) has value Z (Z $\in$ 1..9). The input file is used to indicates the values given at the various squares in the puzzle. Your program should print the solution on the screen using write statements.