Ass 5

Instructions

Finish src/sudoku/Sudoku, src/sudoku/SudokuTest

DELIVERABLES:

- 1. Submit the full source.
- 2. Sample output
- 3. Provide a text document title README that tells me for each of the methods, if they: work, or do not work.

The classic **Sudoku** game involves a grid of 81 squares. The grid is divided into nine blocks, each containing nine squares. The of the nine blocks has to contain all the numbers 1-9 within its squares. Each number can only appear once in a row, column

We generalize to a version of dimension n, which yields puzzles on squares of size n^2 . The rules of the game are that each blocks of size n = 1, n = 2, and n = 3 (which is the classic S

Deliverables.

- 1. Submit the full src directory, so that I can compile and run.
- 2. Add a README text file, that documents for each of the following methods, if they work correctly or not.
- (i) public Sudoku(int dim)
- (ii)public Sudoku(int dim, int[][] square)
- (III) public static Sudoku from File (int dim, String filename)
- (iv)public static class ParseException extends Exception
- (V)public String toString()
- (vi)public Formula getProblem():
 - \\ page 32 of lec 13 from MIT notes
- (VII)public Sudoku interpretSolutioN()
 - \\ page 33 of lec 13 from MIT notes
- 3. Your tests should include the generation of formulas for the following configurations:

```
1x1: *
1x1: 1
```

2x2: 1 * * * * 2 * * * * 3 * * * * 4

3x3:

```
4 . . | . . . | 8 . 5

. 3 . | . . . | . . .

. . . | 7 . . | . . .

. 2 . | . . . | . 6 .

. . . | . 8 . | 4 . .

. . . | . 1 . | . . .

. . . | 6 . 3 | . 7 .

5 . . | 2 . . | . .
```

Please include screen shots of your program producing output for these examples