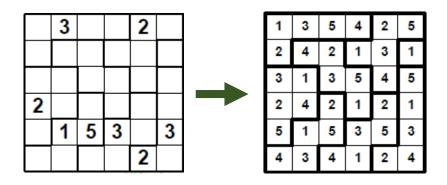
## **CSE 404: Task-4**

## Solving "Suguru Puzzle" using CSP

In this assignment you will have to solve the Suguru Puzzle as constraint satisfaction problem using the open source java library choco-solver.

Suguru, also known as Tectonics or Number Blocks, puzzles are quite different than Sudoku, so you'll want to read these rules carefully: A Grid of  $N \times N$  size. You'll see that the grid is subdivided into containers or cages, each of which is 1 to 5 cells in size. You need to fill each container with unique digits, counting up from 1. So for example a 2-square container contains the numbers 1 and 2. A 5-square container contains the numbers from 1 to 5. Adjacent (touching) cells may never contain the same number, and this includes diagonally adjacent cells. That's it!

## The Problem



**CSP** 

Refer to the slide provided in class

## **The Tasks**

- 1. You have to choose one of the problem from the **suguru book** provided according to the following criteria and write a constraint program (CP) to solve it.
- 2. Problem selection criteria:
  - a. Select book, n = [<Last\_3\_digit\_of\_Student\_ID> mod 6] + 1
  - b. Select problem, p = [<Last\_3\_digit\_of\_Student\_ID> mod 16] +1
  - c. Your problem will be **suguru#** from **suguru\_book\_<n>**