

## LEVEL 2 (Medium)

### Sudoku Challenge

#### Pseudo code:

1. Here you are using a 9by 9 grid, containing a square called a cell.
2. It has 9 columns 9 in a row and columns.
3. It has a block / region which is a 3 by 3 grid (subgrids) that contains 3 columns and 3 rows.
4. We have 3 sets of horizontal blocks, called a rank (top, middle, and bottom).
5. It has 81 cells in total.
6. Fill in the 9\*9 grid so that each column, each row and each boxes (3\*3 subgrids) contain the digit from one to 9 without no repetition.
7. The most basic strategy to find the missing numbers is scanning and it consists of
  - a) Cross-hatching
  - b) Counting
- I. **Cross-hatching**- is when you scan rows and columns to eliminate where the specific number can be in a given region.
- II. **Counting**- You simply count all the different numbers that is in a row, column that connect to one cell.
- III. if there is one number missing, then that's what should be in the cell.