Sudoku Solving Algorithm

1) Start at (0, 0) (row, column)

2) Check the clueSpace value

If 1 and at (8, 8) go to 7

If clueSpace is 0 go to step 3

If clueSpace is 1 and not at (8, 8) move to next(Step 4)

3) increment the puzzle before running any checks, increments iteration counter

If successful and at (8, 8) go to 7

If the check is successful and not at (8, 8), go to Step 4

If the check is unsuccessful and the puzzle value is not 9, repeat 3

If the check is unsuccessful and the puzzle value is 9 go to Step 5

4) Move to next position

If column value is not 8: increment column value, go to Step 2

If the column value is 8, set the column value to zero and increment the row value, return to step 2

5) Moves to previous position

If the column number is not zero and the cluespace value is 1: decrement column number and go to Step 6

If the column number is zero and the cluespace value is 1: set column to 8, decrement row number and go to Step 6

If the column number is not 0 and the cluespace value is 0: set the puzzle value to 0, decrement the column number, go to Step 6

If the column value is 0 and the cluspace value is zero: set the puzzle value to zero, set the column value to 8 and decrement the row number, go to step 6

6) check the clueSpace value of new position

If 0 go to step 3

If 1 go to step 5

7) Puzzle done, finish