Will Sudoku puzzles
Hard difficulty level
A new variant of Sudoku

Compiled By: Dr. Surendra Jain and Bassey Godwin

100 tough puzzles for sudoku lovers (incredibly simple and challenging)
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PREFACE

Will Sudoku is a newly discovered number puzzle similar to sudoku, but with different grid patterns. It contains 16 horizontal lines, 16 vertical lines and 16 square boxes, each containing 8 triangular cells. Thus, the Will Sudoku puzzle contains total of 128 cells as compared to 81 cells in classical Sudoku.

There are 3 variants of Will sudoku (other than square box) depending upon the box shapes. These variants are horizontal box, rectangular box and triangular box. In addition there is also a variable box shape Will Sudoku, where each of the 4 super cell can have different box shape.

This book contains a total of 100 puzzles of different variants of Will Sudoku puzzles. There are 20 puzzles each of square box, triangular box, horizontal box, vertical box and variable box shapes.

If you love number games and Sudoku, you will love Will Sudoku puzzles. You will have a lot of fun solving these newly discovered puzzles. You may also want to look at our other Will Sudoku book: “Will Sudoku Puzzles : Easy 2 medium level”.

I have written a simple JAVA program (using brute force search) to solve all variants of Will Sudoku puzzles. The program can be downloaded for free from my website: sites.google.com/site/skjgeek

Any comments or feedback on these puzzles are most welcome. You can contact me at: skjain.willsudoku@gmail.com.

Dr. Surendra Jain
and
Bassey Godwin
Will Sudoku

Will Sudoku is a different variant of Sudoku. It has a different grid formation as compared to classical Sudoku. Will Sudoku contains 16 square boxes where each square box contains 8 triangular cells. Thus, the total grid contains 128 cells as compared to 81 cells in classical Sudoku. Will Sudoku contain 16 horizontal and 16 vertical lines, each of which contains 8 triangular cells. The objective is to fill numbers from 1-8 in the triangular cells, such that each horizontal line (rows), vertical line (columns) and square box (or different box shapes like rectangular, horizontal or triangular) contains the numbers (1-8) exactly once.

The diagram below shows a completely filled Will Sudoku grid.
A diagram of Horizontal lines (rows) is shown below. Note each horizontal line (row) contains number 1-8 exactly once.

Horizontal line 1 contain numbers: 2, 3, 1, 4, 5, 7, 6, 8
Horizontal line 2 contain numbers: 1, 5, 2, 3, 8, 6, 4, 7
Horizontal line 3 contain numbers: 4, 8, 6, 7, 1, 3, 2, 5
Horizontal line 4 contain numbers: 6, 7, 5, 8, 2, 4, 1, 3

Each square box also contain numbers from 1-8 exactly once.
A diagram of Vertical lines (columns) is shown below. Note each Vertical line (column) contains number 1-8 exactly once.

Vertical line 1 contain numbers : 1,4,8,3,2,6,5,7
Vertical line 2 contain numbers : 2,6,5,7,1,3,4,8
Vertical line 3 contain numbers : 3,7,1,4,5,8,6,2
Vertical line 4 contain numbers : 5,8,2,6,7,4,1,3

Each square box also contain numbers 1-8 exactly once.
Will Square Box Sudoku

Fill-in the grid in such a way that the numbers 1-8 appear only once in each of the rows and columns as well as the square boxes.

Puzzle 1
Puzzle 2
Puzzle 3
Puzzle 5
Puzzle 6
Puzzle 7
Puzzle 9
Puzzle 10
Puzzle 11
Puzzle 12
Puzzle 13
Puzzle 15
Puzzle 16
Puzzle 17
Puzzle 18
Puzzle 19
Puzzle 20
Will Triangular Box Sudoku

Fill-in the grid in such a way that the numbers 1-8 appear only once in each of the rows and columns as well as the triangular boxes.

Puzzle 1
Puzzle 2
Puzzle 3
Puzzle 4
Puzzle 5
Puzzle 7
Puzzle 8
Puzzle 9
Puzzle 11
Puzzle 13
Puzzle 14
Puzzle 15
Puzzle 16
Puzzle 17
Puzzle 18
Puzzle 19
Puzzle 20
Will Horizontal Bar Sudoku

Fill-in the grid in such a way that the numbers 1-8 appear only once in each of the rows and columns as well as the horizontal rectangular boxes.

Puzzle 1
Puzzle 3

```
1 4 5
2 6 3
5 1 7
8 4 6
7 3 8

8 2 4
7 3 6
5 3 1
4 2 8
```
Puzzle 4
Puzzle 5
Puzzle 6
Puzzle 8
Puzzle 9
Puzzle 10
Puzzle 11
Puzzle 12
Puzzle 13
Puzzle 14
Puzzle 15
Puzzle 16
Puzzle 18

![Puzzle Diagram]
Puzzle 19
Puzzle 20
Will Vertical Bar Sudoku

Fill-in the grid in such a way that the numbers 1-8 appear only once in each of the rows and columns as well as the vertical rectangular boxes.

Puzzle 1
Puzzle 2

![Puzzle Image]
Puzzle 4
Puzzle 7
Puzzle 9
Puzzle 10
Puzzle 11
Puzzle 13
Puzzle 14
Puzzle 16
Puzzle 18
Puzzle 19
Puzzle 20
Will Variable Boxes Sudoku

Fill-in the grid in such a way that the numbers 1-8 appear only once in each of the rows and columns as well as the different shapes of the boxes.

Puzzle 1
Puzzle 2

![Puzzle Image]
Puzzle 3
Puzzle 4
Puzzle 6
Puzzle 7
Puzzle 8
Puzzle 9
Puzzle 10
Puzzle 11
Puzzle 13
Puzzle 14
Puzzle 15

[Image of a puzzle grid with numbers]
Puzzle 16
Puzzle 17
Puzzle 20
Will Square box solutions

Solution 1

Solution 2
### Solution 3

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### Solution 4

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108
Solution 5

Solution 6
Solution 7

Solution 8
Solution 11

Solution 12
Solution 13

Solution 14
Solution 15

Solution 16
Will Triangular box solutions

Solution 1

Solution 2
Solution 7

Solution 8
Solution 11

Solution 12
Solution 13

Solution 14
Solution 15

Solution 16
Solution 19

Solution 20
Will Horizontal box solutions

Solution 1

Solution 2
Solution 3

Solution 4
Solution 5

Solution 6
Solution 7

Solution 8
Solution 9

Solution 10
Solution 13

Solution 14

133
Solution 15

Solution 16
Solution 19

Solution 20
Will Vertical box solutions

Solution 1

Solution 2
Solution 5

Solution 6
Solution 9

Solution 10
Solution 11

Solution 12
Solution 15

Solution 16
Solution 17

```
1  2  3
4  5  6
7  8  9
```

Solution 18

```
1  2  3
4  5  6
7  8  9
```
Solution 19

Solution 20
Will Variable Box Solutions

Solution 1

Solution 2
Solution 5

Solution 6
Solution 7

Solution 8
Solution 9

Solution 10
Solution 11

Solution 12
Solution 13

Solution 14
Solution 15

Solution 16
Solution 17

```
8  1  4  5  8  1  2  4  5  6  7  6
1  2  6  7  2  4  5  6  7  8  7  8
2  3  6  4  8  3  6  4  2  3  1  4
4  2  3  1  5  8  1  8  4  2  3  1
6  4  2  3  1  4  2  6  5  8  4  2
7  5  3  6  4  7  5  1  7  4  8  1
5  6  1  7  2  3  4  7  8  1  6  5
3  8  1  2  5  6  1  2  4  5  8  3
4  1  2  5  6  1  2  4  5  8  3  6
```

Solution 18

```
1  3  5  6  7  8  1  3  5  8  7  6
2  4  5  8  1  3  5  8  7  6  1  3
3  2  8  4  1  7  6  1  2  3  5  4
4  1  7  6  1  2  3  5  4  8  3  2
6  7  1  2  3  5  4  8  3  2  1  6
5  8  3  4  7  1  2  6  5  4  3  2
8  6  4  3  5  7  1  2  3  5  4  6
7  5  2  1  6  8  4  3  2  1  6  8
6  4  3  2  1  7  5  8  6  5  4  3
1  5  2  7  8  4  3  2  1  6  5  4
4  7  1  6  2  5  8  3  2  1  6  5
3  2  5  8  4  6  7  1  6  5  4  3
2  4  8  5  6  1  7  5  8  6  2  4
6  3  7  1  8  2  3  5  4  6  2  5
7  1  6  2  5  4  8  3  6  2  5  4
5  8  4  3  1  7  6  2  5  4  3  2
```
Solution 19

Solution 20