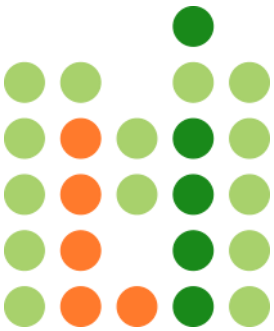
Instructions Booklet
General (Over 18)
Version 1
Individual Rounds only

ASIAN SUDOKU CHAMPIONSHIP 2025 ◆ CHENNAI

Event by Logic Masters India



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Notes:

- **The updates from the earlier version are the points distribution and schedule.**
- **The rules on the online solving links are only meant to serve as reminders, always refer to the document for the most precise and robust versions.**
- **Please use the ASC 2025 forum for all queries: https://logicmastersindia.com/forum/forums/forum-view.asp?fid=65**

Open Category Round Summary			
R1 – Order and Chaos 45 minutes 9:00:00 AM to 9:45:00 AM	**Points**	**R2 – Shades of Symbology 45 minutes 9:55:00 AM to 10:40:00 AM**	**Points**
Classic Sudoku 1	20	Odd Sudoku	20
Classic Sudoku 2	15	Extra Regions Sudoku	95
Classic Sudoku 3	25	Clone Sudoku	40
Classic Sudoku 4	20	Fortress Sudoku	85
Classic Sudoku 5	50	Battenburg Sudoku	55
Classic Sudoku 6	75	Consecutive Pairs Sudoku	30
Irregular Sudoku	70	XV Sudoku	65
Scattered Sudoku	95	Inequality Sudoku	55
Overlapping Sudoku	60	**Total**	**450**
Sudokurve	20		
Total	**450**		

R3 – Inside Out 40 minutes 10:50:00 AM to 11:20:00 AM	**Points**	**Round 4 – Lines of Direction 40 minutes 11:35:00 AM to 12:15:00 PM**	**Points**
Self-Disjoint Sudoku	40	Palindrome Sudoku	75
AntiKnight Sudoku	35	German Whispers Sudoku	50
NonConsecutive Sudoku	60	Renban Sudoku	60
Disjoint Sudoku	25	Sequences Sudoku	35
Skyscrapers Sudoku	60	Search 9 Sudoku	30
Descriptive Pairs Sudoku	45	Elimination Sudoku	50
Frame Sudoku	45	Point to Next Sudoku	25
X-Sums Sudoku	90	Hidden Skyscrapers Sudoku	75
Total	**400**	**Total**	**400**

R5 – Connected Disconnect 40 minutes 2:30:00 PM to 3:10:00 PM	**Points**
CD 6x6	65
	(20+20+15+10)
CD 9x9	235
	(70+70+50+45)
Total	**300**

R6 – Team – Mean Mini Medley 40 minutes 3:40:00 PM to 4:20:00 PM	**Points**
MMM 1	TBA
MMM 2	TBA
Total	**1600**
R7 – Team – Snapshot Jigsaw 60 minutes 4:40:00 PM to 5:40:00 PM	**Points**
SJ 6x6	TBA
SJ 9x9	TBA
Total	**2400**

Round 1 – Order and Chaos

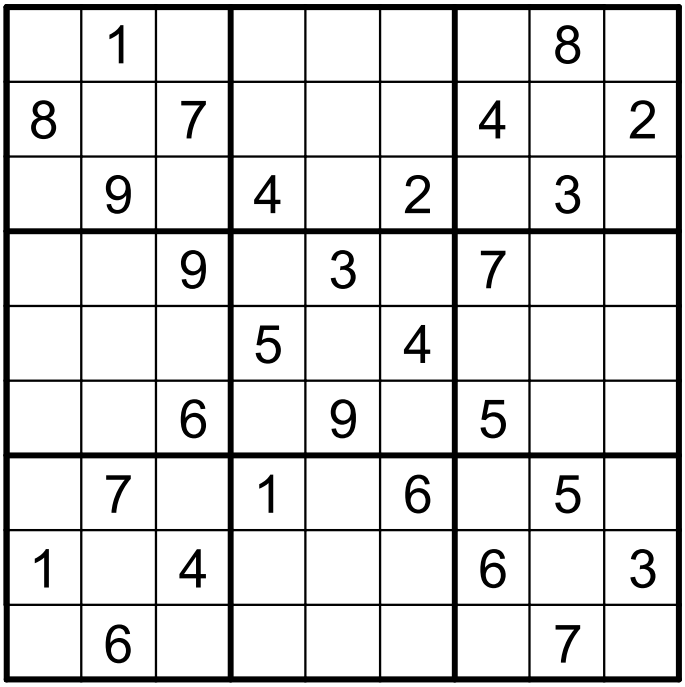
This round has Classic Sudokus followed by Twisted Classic and Irregular grid variants.

1.	**Classic Sudoku 1**	**20 Points**
2.	**Classic Sudoku 2**	**15 Points**
3.	**Classic Sudoku 3**	**25 Points**
4.	**Classic Sudoku 4**	**20 Points**
5.	**Classic Sudoku 5**	**50 Points**
6.	**Classic Sudoku 6**	**75 Points**
7.	**Irregular Sudoku**	**70 Points**
8.	**Scattered Sudoku**	**95 Points**
9.	**Overlapping Sudoku**	**60 Points**
10.	**Sudokurve**	**20 Points**

Classic Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

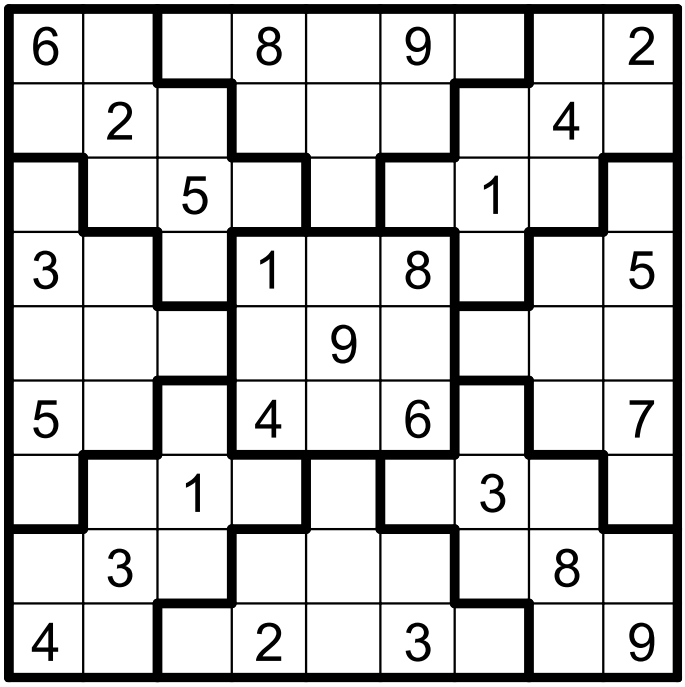
Penpa for example:
https://tinyurl.com/2do3f5tj



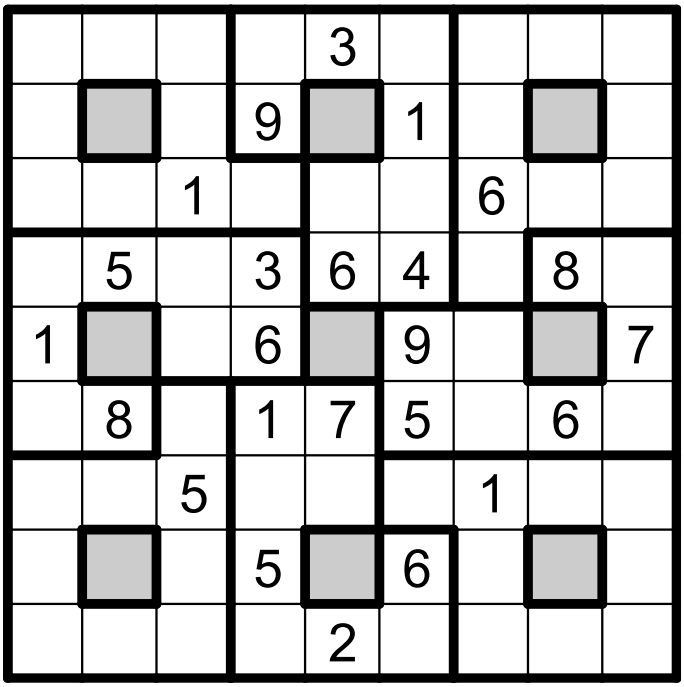
Irregular Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and outlined region.

Penpa for example:
https://tinyurl.com/26ed4pb3



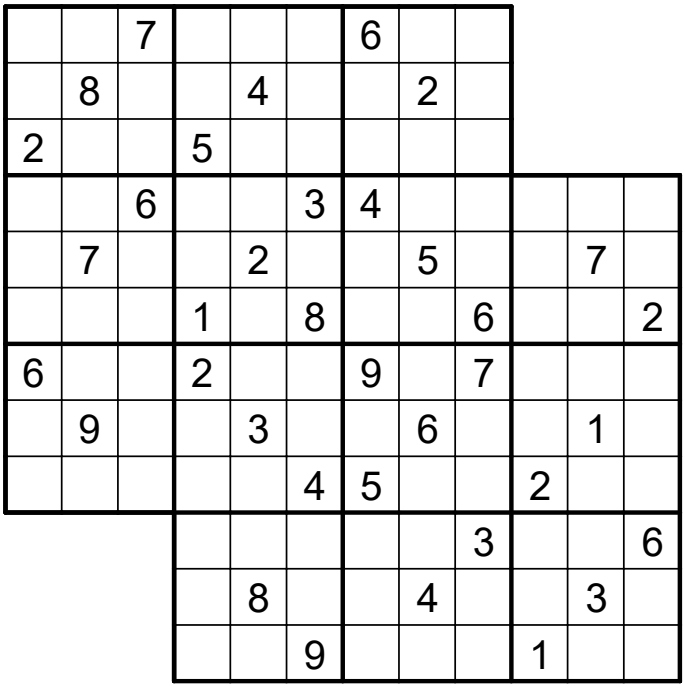
Scattered Sudoku



Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column, outlined region and the set of shaded cells.

Penpa for example:
https://tinyurl.com/27t42fns

Overlapping Sudoku



Two 9x9 Sudokus are overlapping. Separately, they each follow Classic Sudoku rules: Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and 3x3 box.

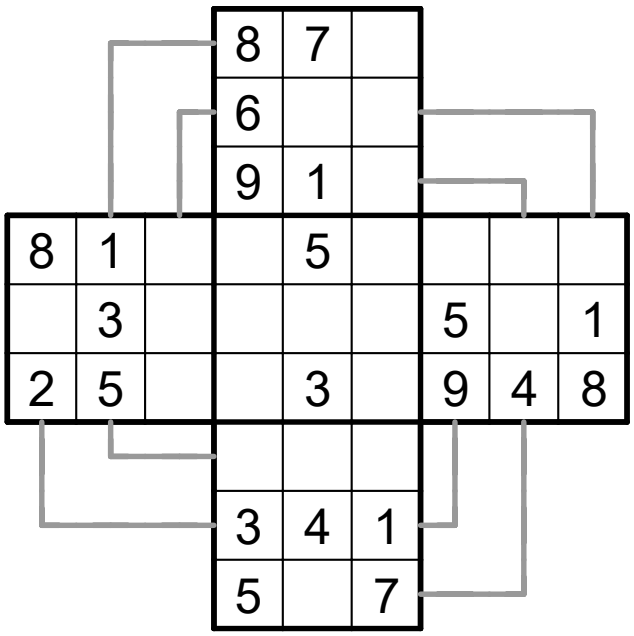
Penpa for example:
https://tinyurl.com/228q35y9

Sudokurve

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Some rows and columns are bent, marked by curved lines.

Penpa for example:
https://tinyurl.com/25jb5xfl



Round 2 – Shades of Symbology

This round has Sudoku variants with shaded clues followed by Sudoku variants with clues in some form of symbols/decorations.

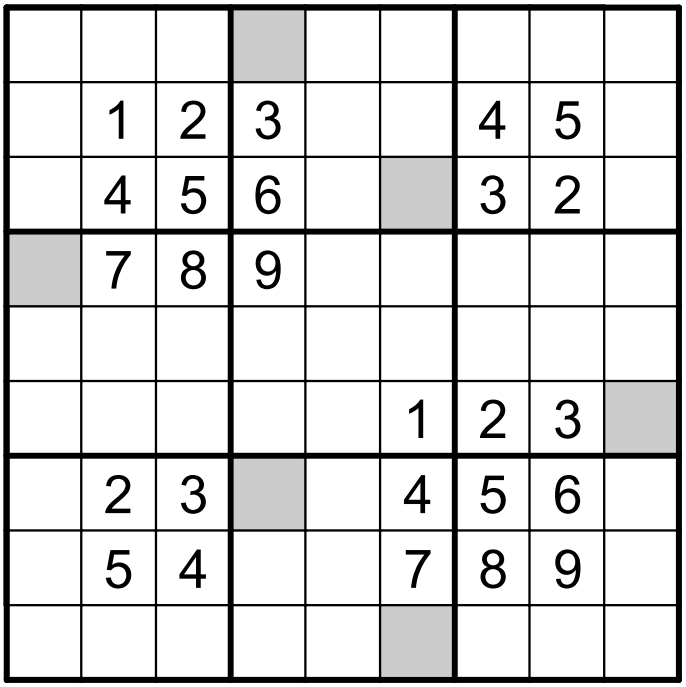
1. Odd Sudoku	**25 Points**
2. Extra Regions Sudoku	**95 Points**
3. Clone Sudoku	**40 Points**
4. Fortress Sudoku	**85 Points**
5. Battenburg Sudoku	**55 Points**
6. Consecutive Pairs Sudoku	**30 Points**
7. XV Sudoku	**65 Points**
8. Inequality Sudoku	**55 Points**

Odd Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Shaded cells contain odd digits.

Penpa for example:
https://tinyurl.com/23bpzh2x

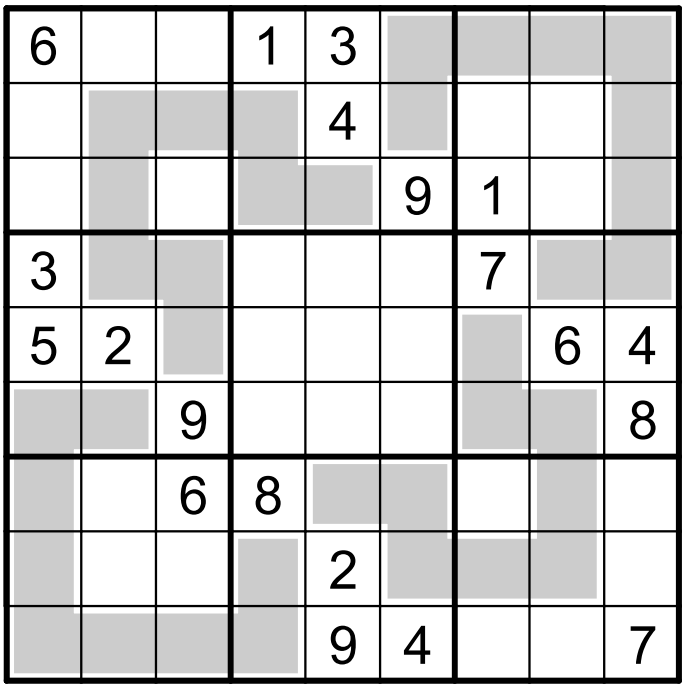


Extra Regions Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each grey shaded region contains each digit from 1 to 9.

Penpa for example:
https://tinyurl.com/25vljs7t

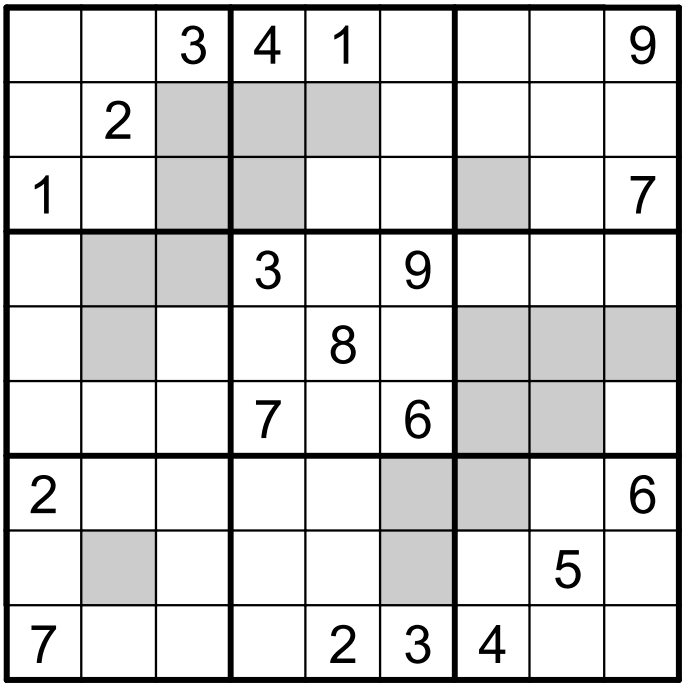


Clone Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Digits in the same corresponding cell in each shaded figure must be identical.

Penpa for example:
https://tinyurl.com/28dl5hgs

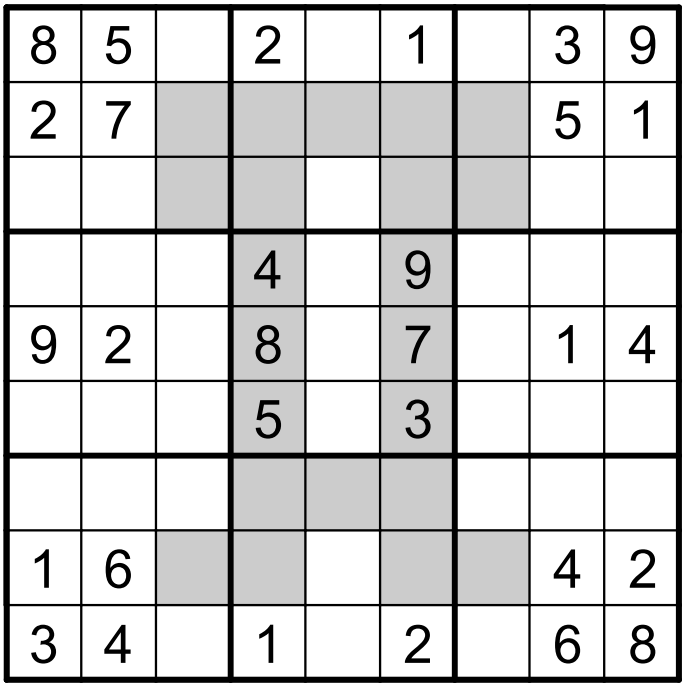


Fortress Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

If a shaded cell and an unshaded cell are adjacent then the digit in the shaded cell is larger.

Penpa for example:
https://tinyurl.com/2a5f9dyn

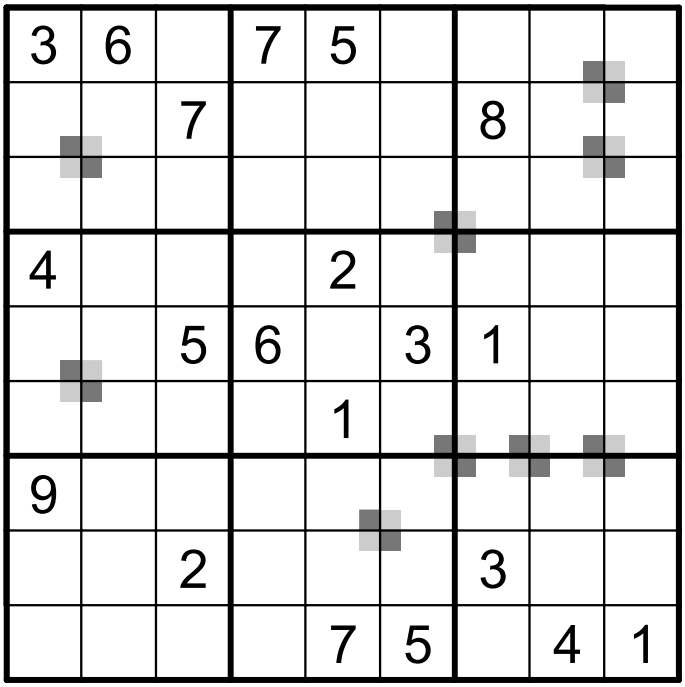


Battenburg Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each 2x2 area with two odd digits and two even digits forming a checkerboard pattern is marked with a Battenburg symbol. All such 2x2 areas are marked.

Penpa for example:
https://tinyurl.com/2caktu8v

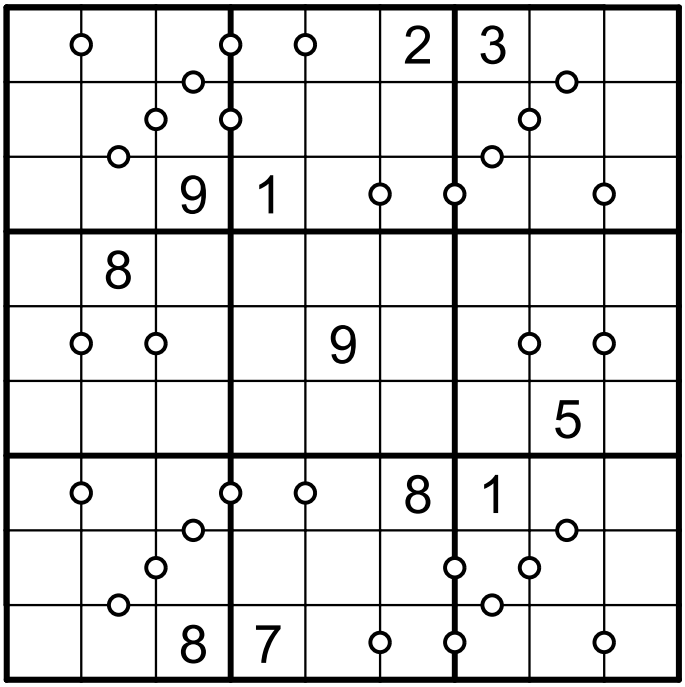


Consecutive Pairs Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Adjacent cells marked by a circle contain consecutive digits. All possible circles are not necessarily marked.

Penpa for example:
https://tinyurl.com/27332eye

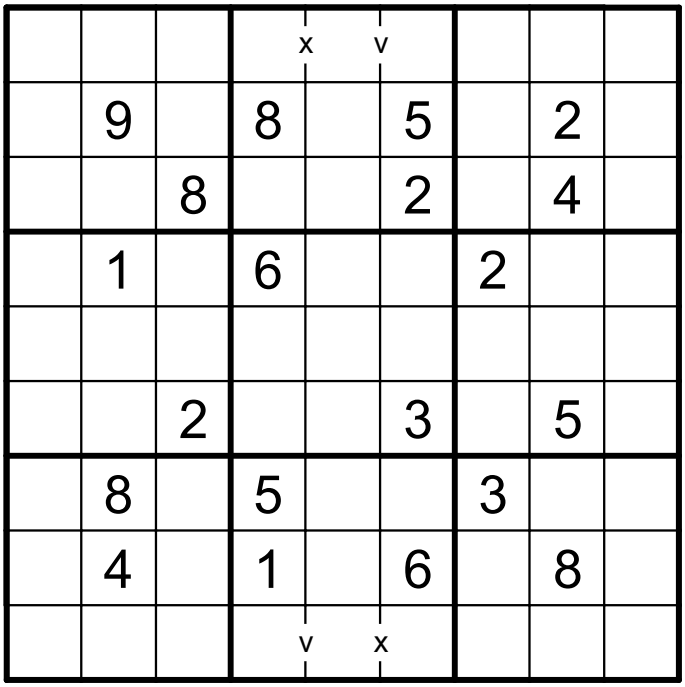


XV Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Adjacent cells with digits summing to 5 are marked by V. Adjacent cells with digits summing to 10 are marked by X. All possible V and X are marked.

Penpa for example:
https://tinyurl.com/2dknbfpy

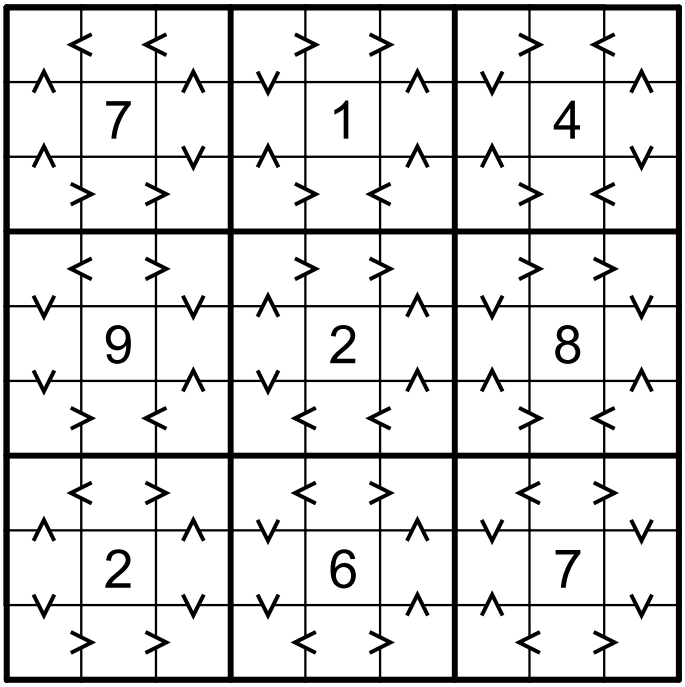


Inequality Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each inequality sign ('<' or '>') between adjacent cells indicates the larger of the two digits is on the open side of the sign.

Penpa for example:
https://tinyurl.com/27y67vdb



Round 3 – Inside Out

This round has Sudoku variants with numbers inside like a Classic, followed by Sudoku variants with numbers outside.

1.	**Self-Disjoint Sudoku**	**40 Points**
2.	**Anti-Knight Sudoku**	**35 Points**
3.	**Non-Consecutive Sudoku**	**60 Points**
4.	**Disjoint Sudoku**	**25 Points**
5.	**Skyscrapers Sudoku**	**60 Points**
6.	**Descriptive Pairs Sudoku**	**45 Points**
7.	**Frame Sudoku**	**45 Points**
8.	**X-Sums Sudoku**	**90 Points**

Self-Disjoint Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Numbering each cell in a box from left to right and top to bottom, a digit N cannot be in position N in any box.

Penpa for example:
https://tinyurl.com/23rff5gh

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

Anti-Knight Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

No cell that is a knight-step away can contain the same digit. A knight's move is 2 in a line and 1 to the side, as in chess.

Penpa for example:
https://tinyurl.com/29395wf3

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

ASIAN SUDOKU CHAMPIONSHIP 2025 ◆ CHENNAI

Non-Consecutive Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Digits in adjacent cells must not be consecutive.

Penpa for example:
https://tinyurl.com/2yp47jos

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

Disjoint Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

No digit can appear in the same cell position in different 3x3 outlined boxes.

Penpa for example:
https://tinyurl.com/25mnr45m

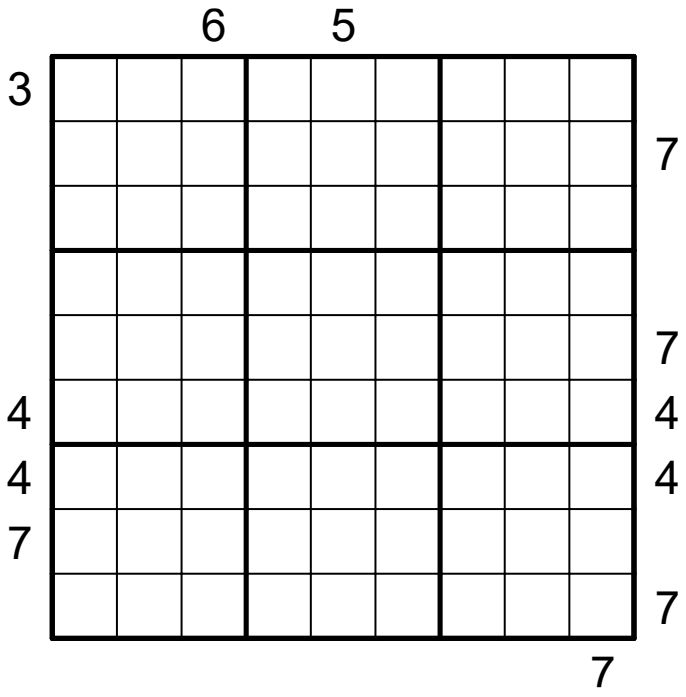
2	3		9	6				1
1	4		8	7				
6	7							
5	8			2	3			
				1	4			
							3	4
3							5	6

Skyscrapers Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each digit inside the grid represents the height of a skyscraper in that cell. Each number outside the grid indicates the number of skyscrapers that can be seen in the corresponding row or column. Taller skyscrapers hide shorter ones.

Penpa for example:
https://tinyurl.com/24obt2fn

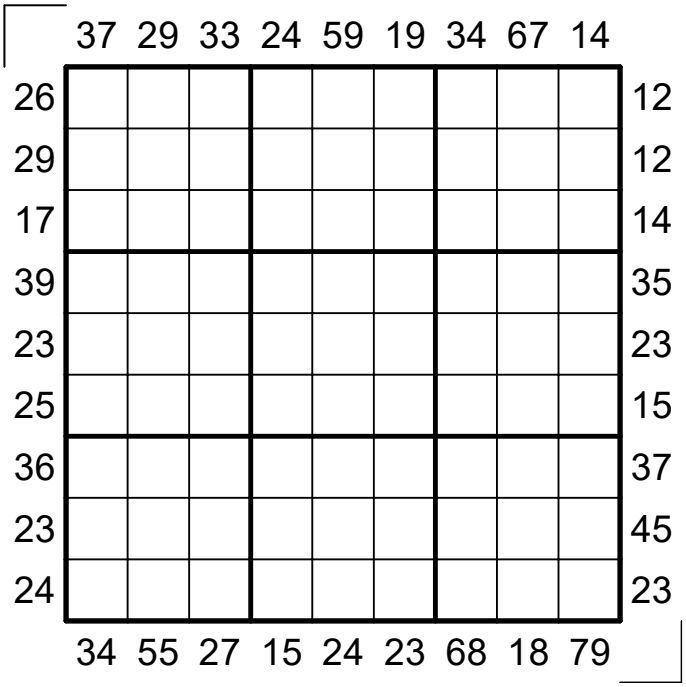


Descriptive Pairs Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

For each pair of digits (X and Y) outside the grid, either X is in the Yth position in the corresponding direction or Y is in the Xth position in the corresponding direction or both.

Penpa for example:
https://tinyurl.com/2948slu8

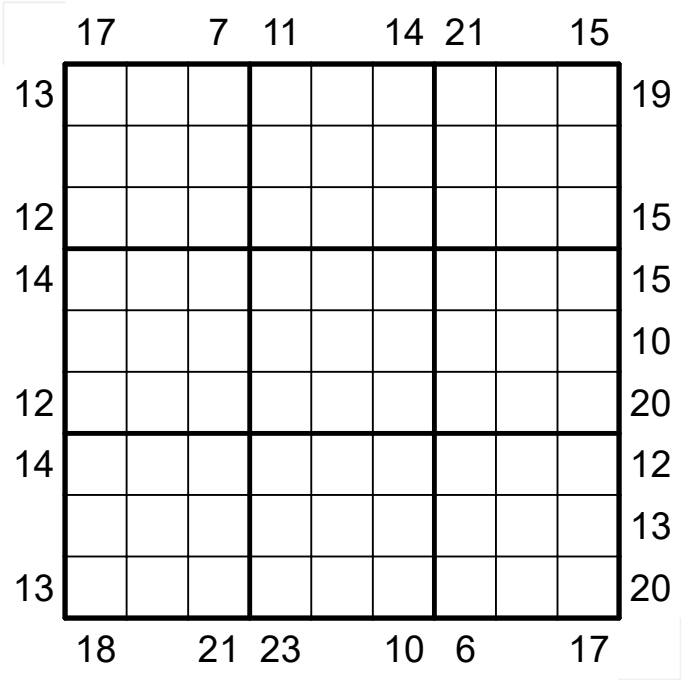


Frame Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each number outside the grid is the sum of digits within the first box in the corresponding direction.

Penpa for example:
https://tinyurl.com/29n6ed29

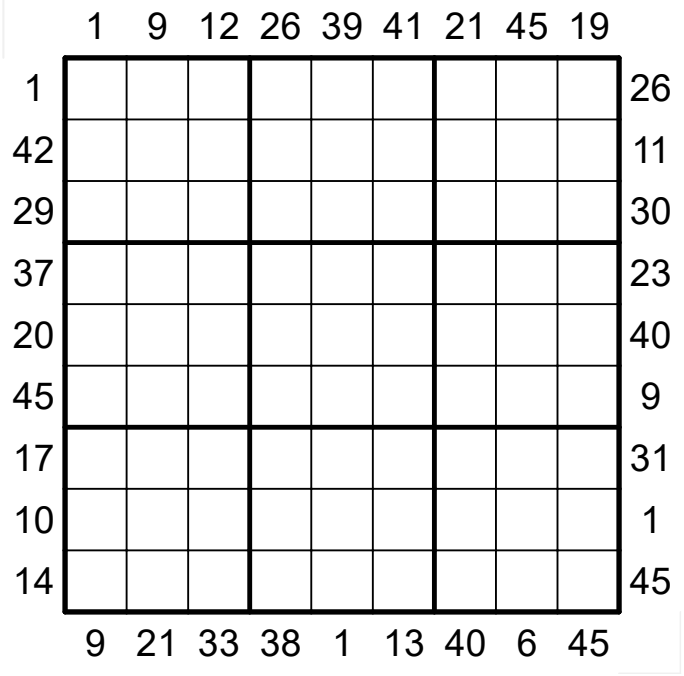


X-Sums Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each number outside the grid is the sum of the first X numbers placed in the corresponding direction, where X is the first digit placed in that direction.

Penpa for example:
https://tinyurl.com/27y4ggo8



Round 4 – Lines of Direction

This round has Sudoku variants with lines followed by Sudoku variants with clues in some form of arrows.

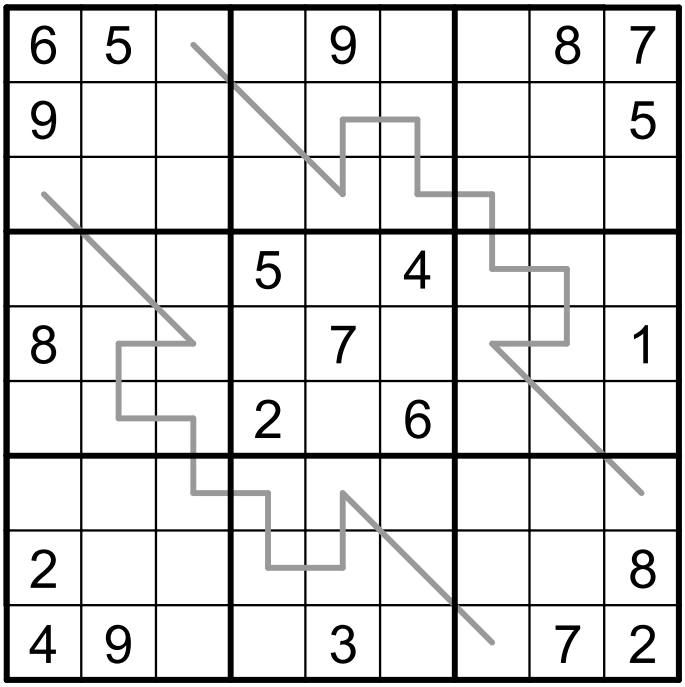
1.	**Palindrome Sudoku**	**75 Points**
2.	**German Whispers Sudoku**	**50 Points**
3.	**Renban Sudoku**	**60 Points**
4.	**Sequence Sudoku**	**35 Points**
5.	**Search 9 Sudoku**	**30 Points**
6.	**Elimination Sudoku**	**50 Points**
7.	**Point To Next Sudoku**	**25 Points**
8.	**Hidden Skyscrapers Sudoku**	**75 Points**

Palindrome Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Digits along each line are a palindrome, they read the same from both directions.

Penpa for example:
https://tinyurl.com/2b9cwv94

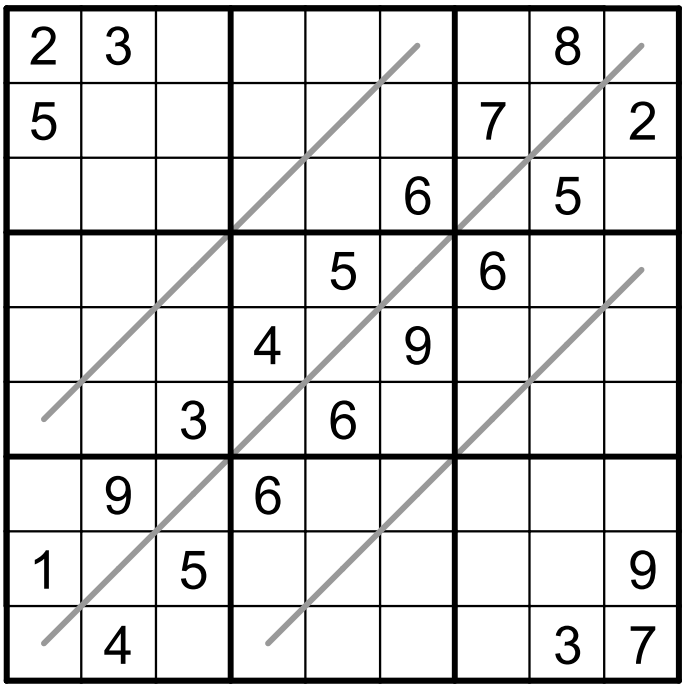


German Whispers Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Adjacent digits along the marked grey lines have a difference of at least 5.

Penpa for example:
https://tinyurl.com/2yhp3gug



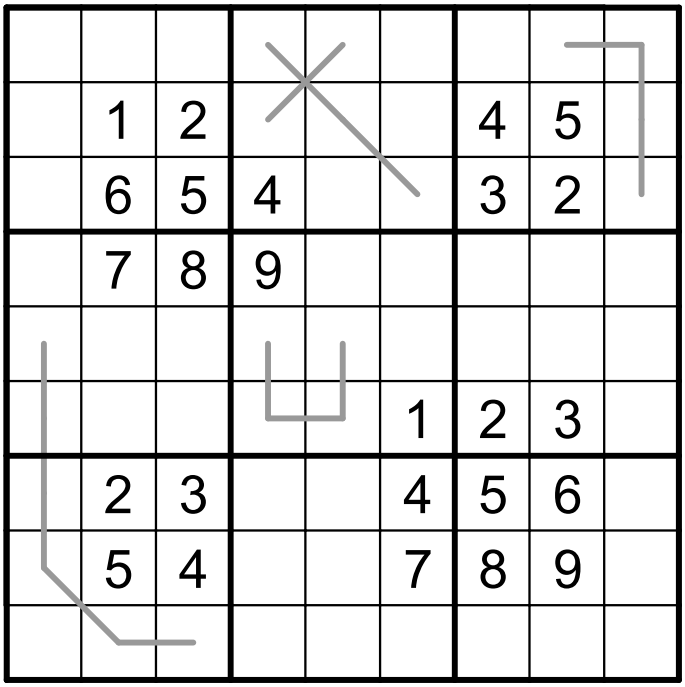
Renban Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each marked line contains a set of consecutive digits, in any order. Digits do not repeat within a line.

Note: Lines intersecting at a point go straight and cannot turn.

Penpa for example:
https://tinyurl.com/22te8r3p

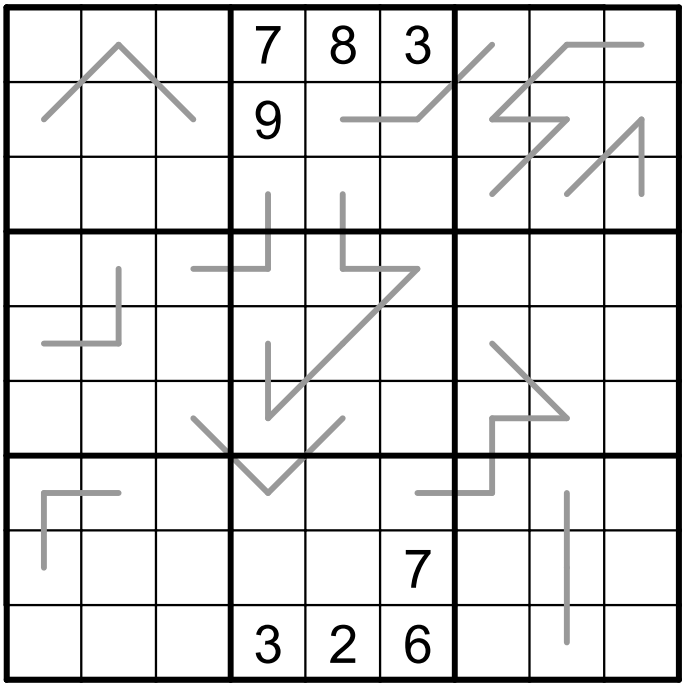


Sequence Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Digits along each line are in arithmetic progression, i.e. the difference between adjacent digits along the line is the same and the digits constantly increase or decrease along the line.

Penpa for example:
https://tinyurl.com/2b92kent

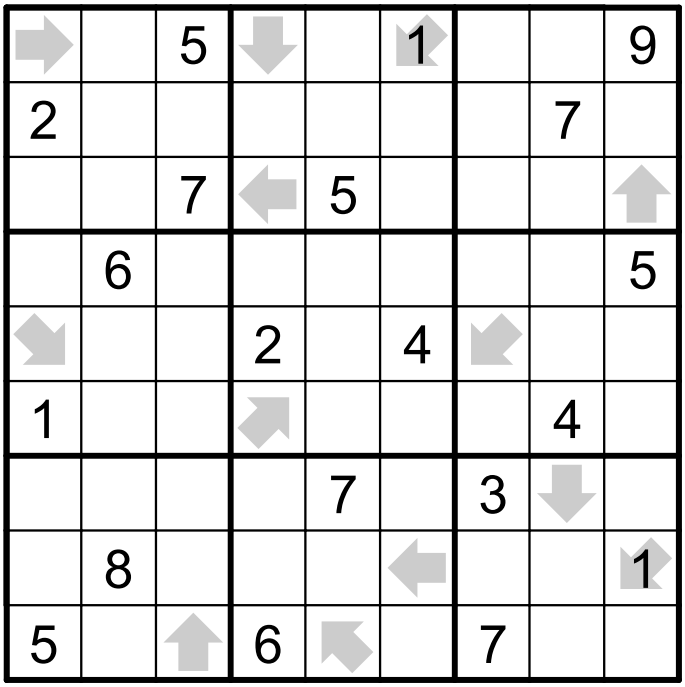


Search 9 Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each arrow points to at least one 9 in the corresponding direction. Each digit in a cell with an arrow is the distance from that cell to the nearest cell containing a 9.

Penpa for example:
https://tinyurl.com/29a622tz

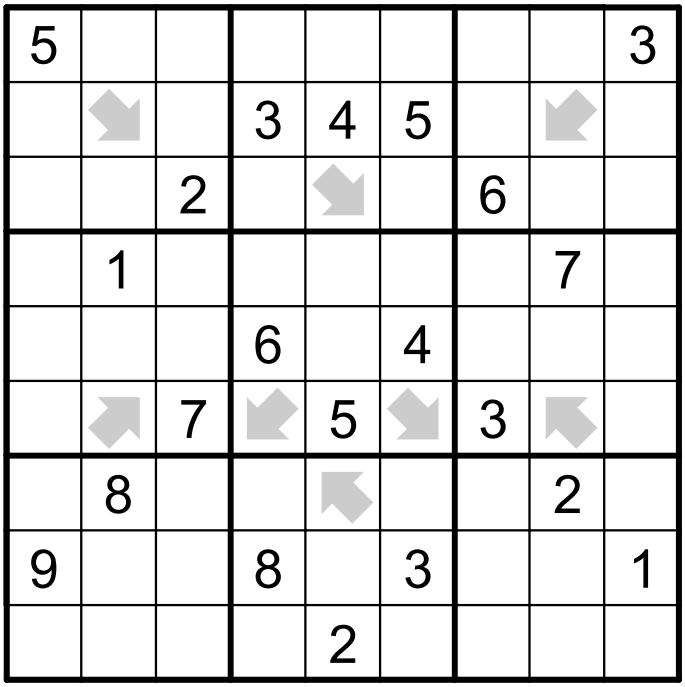


Elimination Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each digit in a cell with an arrow does not appear in any of the cells pointed by its arrow.

Penpa for example:
https://tinyurl.com/274nqb8t

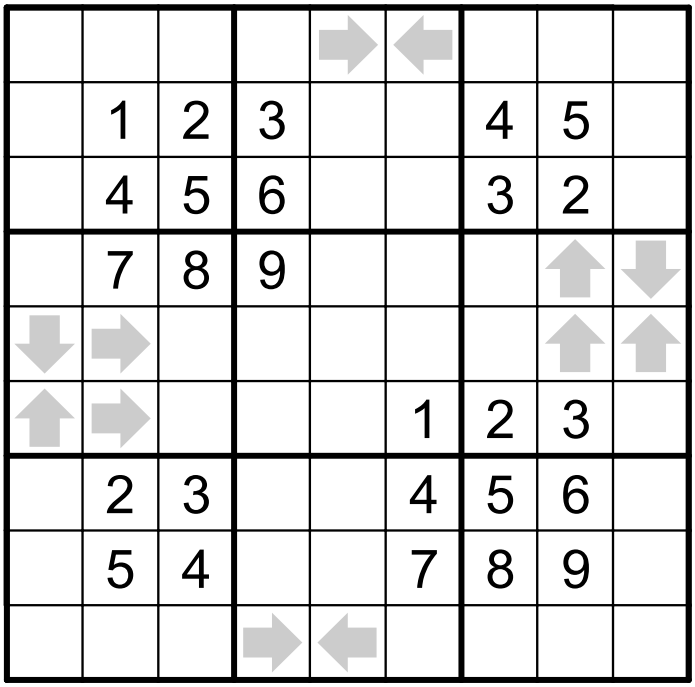


Point to Next Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

If digit 'X' is placed in a cell with an arrow, digit 'X+1' must be placed in one of the cells pointed by the arrow.

Penpa for example:
https://tinyurl.com/2xusmq9p

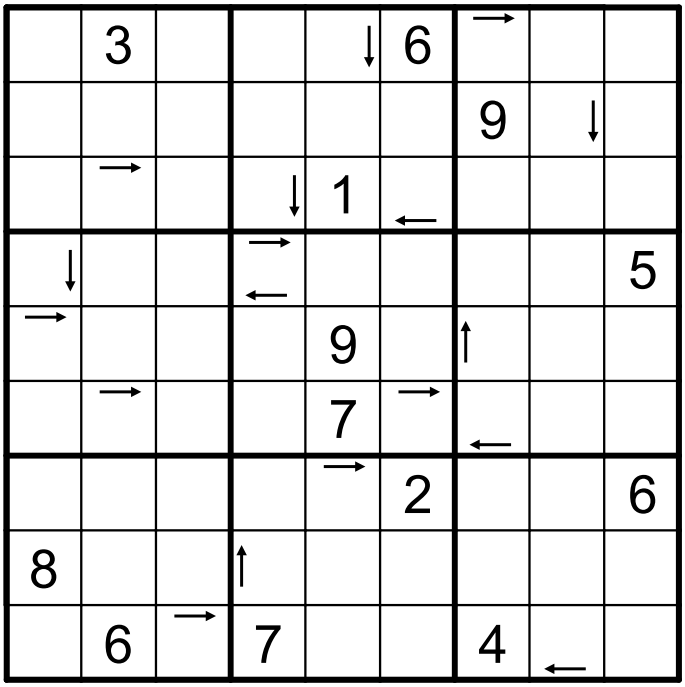


Hidden Skyscrapers Sudoku

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each digit represents the height of a skyscraper in that cell. Each number in a cell with an arrow indicates the number of skyscrapers that can be seen in the direction of the arrow. Taller skyscrapers hide shorter ones.

Penpa for example:
https://tinyurl.com/2ansfxq6



Round 5 – Connected Disconnect

This round has two groups of interconnected Classic Sudokus, one 6x6 group and one 9x9 group. The rules are given on this page. There is a 6x6 example on the next page. There is no 9x9 example. The solution at the end has the pairings highlighted.

1.	**Connected Disconnect 6x6**	**20+20+15+10 Points**
2.	**Connected Disconnect 9x9**	**70+70+50+45 Points**

Rules:

There are four grids that each follow Classic Sudoku rules: Place a digit from 1 to 6 (1 to 9) into each empty cell in the grid so that each digit appears exactly once in each row, column and 2x3 (3x3) outlined box.

There are two distinct pairs of grids among the four, that share a box that has the same digits in the same positions. Each pair must share a different box.

Once a pairing is established, the two grids in the other pairing also interact with it, but conversely: No digit can be in the same position in the corresponding box as the digits in the paired grids.

Example: In a set of grids A, B, C and D, if A and C are paired and have a cloned top right box, B and D must not have digits in the same position as A and C in the top right box, and B and D will also have a different cloned box that A and C won't match.

Scoring: The points given above are for first, second, third, and fourth Sudoku solved respectively, regardless of which ones were solved within the set. As an example if three Sudokus are correctly solved in the 9x9 set, the solver will be awarded 70+70+50=190 points. Note that this is all only if the individual solutions match the single overall solution considering connection rules.

Penpa for example: https://tinyurl.com/229majht

4				5	
			3		4
		6			
	1				
2					
	3				

2				5	
			2		4
		1			
	5			1	
3			1		
	1				2

1				4	
			1		5
		2			
	3				
6					
	2				1

4				1	
			6		4
		1			
	2			3	
6			1		
	5				

January 18th to 20th
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Classic

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

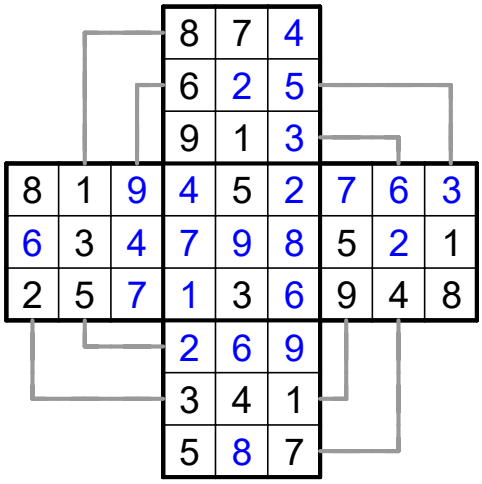
Irregular

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

Scattered

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

Sudokurve



Overlapping

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

Open Category

January 18th to 20th
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ASIAN SUDOKU CHAMPIONSHIP 2025 • CHENNAI

Odd

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

Extra Regions

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

Clone

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

Fortress

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

Battenburg

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

Consecutive Pairs

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

Open Category

January 18th to 20th
Sudokus by Logic Masters India
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ASIAN SUDOKU CHAMPIONSHIP 2025 • CHENNAI

XV

5	2	7	9 x	1 v	4	8	6	3
6	9	4	8	3	5	7	2	1
1	3	8	7	6	2	9	4	5
3	1	5	6	8	7	2	9	4
4	7	9	2	5	1	6	3	8
8	6	2	4	9	3	1	5	7
7	8	6	5	4	9	3	1	2
2	4	3	1	7	6	5	8	9
9	5	1	3 v	2 x	8	4	7	6

Inequality

1 <	4 <	6	9 >	5 >	3	8 >	2 <	7
∧ 5	7	∧ 8	∨ 2	1	∧ 6	∨ 3	4	∧ 9
9 >	3 >	2	8 >	4 <	7	5 >	1 <	6
6 <	8 >	7	4 >	3 >	1	9 >	5 >	2
∨ 4	9	∨ 3	∧ 7	2	∧ 5	∨ 6	8	∨ 1
2 >	1 <	5	6 <	8 <	9	7 >	3 <	4
3 <	6 >	1	5 <	7 >	2	4 <	9 >	8
∧ 8	2	∧ 9	∨ 3	6	∧ 4	∨ 1	7	∧ 5
7 >	5 >	4	1 <	9 >	8	2 <	6 >	3

Self-Disjoint

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

Anti-Knight

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

Non-Consecutive

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

Disjoint

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

Open Category

January 18th to 20th
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ASIAN SUDOKU CHAMPIONSHIP 2025 ◆ CHENNAI

Skyscrapers

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

Descriptive Pairs

	37	29	33	24	59	19	34	67	14	
26	4	6	5	2	8	9	3	1	7	12
29	1	9	8	4	7	3	5	6	2	12
17	7	2	3	6	5	1	4	9	8	14
39	6	7	9	5	3	4	8	2	1	35
23	8	5	2	1	9	7	6	3	4	23
25	3	1	4	8	2	6	9	7	5	15
36	5	8	6	3	1	2	7	4	9	37
23	2	3	7	9	4	8	1	5	6	45
24	9	4	1	7	6	5	2	8	3	23
	34	55	27	15	24	23	68	18	79	

Frame

	17		7	11		14	21		15	
13	5	6	2	4	8	1	9	3	7	19
	9	7	4	5	3	6	8	1	2	
12	3	8	1	2	9	7	4	5	6	15
14	2	9	3	7	5	4	6	8	1	15
	7	4	8	1	6	9	5	2	3	10
12	1	5	6	3	2	8	7	4	9	20
14	8	1	5	9	7	3	2	6	4	12
	6	3	9	8	4	2	1	7	5	13
13	4	2	7	6	1	5	3	9	8	20
	18		21	23		10	6		17	

X-Sums

	1	9	12	26	39	41	21	45	19	
1	1	2	3	6	7	8	5	9	4	26
42	8	7	4	1	9	5	2	6	3	11
29	6	9	5	2	4	3	1	8	7	30
37	7	6	1	8	2	9	4	3	5	23
20	5	3	2	4	6	7	9	1	8	40
45	9	4	8	5	3	1	6	7	2	9
17	4	1	9	3	8	2	7	5	6	31
10	2	8	7	9	5	6	3	4	1	1
14	3	5	6	7	1	4	8	2	9	45
	9	21	33	38	1	13	40	6	45	

Palindrome

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

German Whispers

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

Open Category

January 18th to 20th
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ASIAN SUDOKU CHAMPIONSHIP 2025 • CHENNAI

Renban

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

Sequence

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

Search 9

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

Elimination

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

Point to Next

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

Hidden Skyscrapers

7	3	8	9	2↓	6	1→	5	4
4	1	6	8	5	7	9	3↓	2
9	5→	2	3↓	1	4←	7	6	8
3↓	9	7	2→	4	8	6	1	5
2→	8	1	6	9	3	↑3	4	7
6	4→	5	1	7	3→	2←	8	9
1	7	4	5	3→	2	8	9	6
8	2	9	↑4	6	1	5	7	3
5	6	3→	7	8	9	4	2←	1

Open Category

Connected Disconnect

4	6	3	1	5	2
1	5	2	3	6	4
5	2	6	4	1	3
3	1	4	5	2	6
2	4	5	6	3	1
6	3	1	2	4	5

2	4	3	6	5	1
1	6	5	2	3	4
4	3	1	5	2	6
6	5	2	4	1	3
3	2	6	1	4	5
5	1	4	3	6	2

1	5	6	3	4	2
2	4	3	1	6	5
5	6	2	4	1	3
4	3	1	5	2	6
6	1	5	2	3	4
3	2	4	6	5	1

4	6	5	2	1	3
2	1	3	6	5	4
3	4	1	5	2	6
5	2	6	4	3	1
6	3	2	1	4	5
1	5	4	3	6	2