

Indian Sudoku Championship 2013

11-August-2013

<http://logicmastersindia.com/2013/ISC/>

Important Links

Submission: <http://logicmastersindia.com/2013/ISC/>

Discussion: <http://logicmastersindia.com/t/?tid=712>

F.A.Q: <http://logicmastersindia.com/t/?tid=381>

Registration, if required: <http://logicmastersindia.com/register.asp>

About Indian Sudoku Championship (ISC) 2013

The Indian Sudoku Championship 2013 will be held online on 11th August, 2013. Participation is free of cost and everyone is invited to participate in the event irrespective of age. There are no prerequisites/requirements for participation. All you will need to do is register at Logic Masters India (LMI).

Points Table

Points typically indicate difficulty of the sudokus and time required to solve them. While the organizers have made best efforts to match them, your personal experience and preference may differ.

| Section 1 | | Section 2 | |
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| Classic 1 | 20 | Diagonal | 35 |
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Bonus

Players submitting all sudokus with maximum 4 wrong cells across all Sudokus will get **seven** points per minute saved as bonus. Bonus will be computed upto seconds.

Tie Breaker

Players having same scores will be ranked based on the following tie-breakers.

1. Most points in Section 2
2. Least submission time of last correctly submitted sudoku

General Rules

To make the rules less repetitive, you will see following line “Apply standard Sudoku rules” in most Sudoku rules. This means “Place a digit from 1 to N, where N is the size of the grid, in each empty cell so that each digit appears exactly once in each row, column and outlined region.”

These outlined regions could be 3X3 boxes, or other shapes.

Each Sudoku will be marked with, at max, 2 lettered arrows. If you are solving on paper, you need to submit the digits in these arrows, in order, including the givens. For example, the answer key for the Sudoku at the right is 162897453, 517698432.

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

Acknowledgements

Logic Masters India thanks the following Sudoku solvers and makers for helping us organize Indian Sudoku Championship 2013.

Bastien Vial-Jaime
Bram de Laat
Jakub Hrazdira
Matus Demiger

Nikola Zivanovic
Serkan Yurekli
Thomas Snyder

1

Classic Sudoku

by

Thomas Snyder

(20 points)

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

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

2

Classic Sudoku

by

Thomas Snyder

(30 points)

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

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

6X6 Sudoku by Deb Mohanty

Standard Sudoku rules apply.

5 + 10 +
15 + 25 +
25 + 20

B

| | | | | | |
|----------|---|---|---|---|---|
| | | | | | 4 |
| | 6 | | | 1 | |
| | | 5 | | | |
| | | | 2 | | |
| A | 1 | | | 6 | |
| 6 | | | | | 3 |

D

| | | | | | |
|----------|---|---|---|---|---|
| | | | | | 4 |
| | 6 | | | 1 | |
| | | 4 | | | |
| | | | 2 | | |
| C | 1 | | | 6 | |
| 6 | | | | | 3 |

F

| | | | | | |
|----------|---|---|---|---|--|
| | | 1 | | | |
| | 1 | | | 5 | |
| E | | 2 | | | |
| | | | 3 | | |
| | 5 | | | 4 | |
| | | | 1 | | |

H

| | | | | | |
|----------|---|---|---|---|--|
| | | 1 | | | |
| | 1 | | | 5 | |
| G | | 2 | | | |
| | | | 3 | | |
| | 5 | | | 4 | |
| | | | 1 | | |

J

| | | | | | |
|----------|---|---|---|---|--|
| | | 1 | | | |
| I | 1 | | | 5 | |
| | | 2 | | | |
| | | | 3 | | |
| | 5 | | | 4 | |
| | | | 1 | | |

L

| | | | | | |
|----------|---|---|---|---|--|
| | | 1 | | | |
| K | 1 | | | 5 | |
| | | 2 | | | |
| | | | 3 | | |
| | 5 | | | 4 | |
| | | | 1 | | |

Overlapping Sudoku by Deb Mohanty

(90 points)

Standard Sudoku rules apply to 2 overlapping grids.

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

Grid A is indicated by a triangle pointing to the left of the 5th row of the first grid.

Grid B is indicated by a triangle pointing to the top of the 3rd column of the second grid.

7

Shifted Sudoku

by

Deb Mohanty

(60 points)

Standard Sudoku rules apply.

Some 3X3 boxes are shifted, resulting in some other 3X3 boxes wrapping around the grid.

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

8

Deficit Sudoku

by

Deb Mohanty

(60 points)

Place a digit 1 to 7 in each empty cell such that digits don't repeat in any row, column or outlined regions.

Some of the outlined regions have lesser number of cells

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | 1 | |
| 1 | | | | | | |
| | | 1 | 2 | 3 | | |
| | | 2 | | 4 | | |
| | | 3 | 4 | 5 | | |
| | | | | | | 3 |
| | 6 | | | | | |

9

Pinocchio Sudoku

by

Bastien Vial-Jaime

(55 points)

Standard Sudoku rules apply.

Three digits are marked differently than the rest.

Two of them are correct, while the third (Pinocchio) is incorrect.

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

10

Diagonal Sudoku

by

Bastien Vial-Jaime

(35 points)

Standard Sudoku rules apply.

Additionally, digits do not repeat across main (marked) diagonals.

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

11

Killer Sudoku

by

Bastien Vial-Jaime

(55 points)

Standard Sudoku rules apply.

The sum of digits in cells inside every cage must equal the total given for the cage at the upper left cell.

Digits do not repeat inside a cage.

| | | | | | | | | |
|----|----|--|----|----|----|----|--|----|
| | 29 | | 14 | | | 10 | | 10 |
| | | | | 15 | | 15 | | |
| | | | | | | | | 13 |
| 12 | | | | 29 | | 14 | | |
| | 17 | | | | | | | |
| | | | | | | 12 | | |
| 11 | 13 | | 13 | | 13 | 6 | | |
| | | | | | | | | |
| | 12 | | 14 | | | | | |

12

Renban Groups

by

Bastien Vial-Jaime

(65 points)

Standard Sudoku rules apply.

Each set of (orthogonally or diagonally) connected grey area must contain a series of distinct consecutive digits.

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

13

Thermo Sudoku

by

Thomas Snyder

(35 points)

Standard Sudoku rules apply.

The digits in each "thermometer" shaped region must be strictly increasing from the circular "bulb" to the other end(s).

A 9x9 grid for a Thermo Sudoku puzzle. The grid contains several thermometer-shaped regions, each consisting of a circular bulb and one or more arms. The regions are:

- Top-left: bulb at (1,1), arms at (1,2), (1,3), (2,1), (3,1).
- Top-right: bulb at (1,7), arms at (1,8), (2,7), (3,7).
- Middle-left: bulb at (4,1), arms at (4,2), (4,3), (5,1), (6,1).
- Middle-right: bulb at (4,7), arms at (4,8), (4,9), (5,7), (6,7).
- Bottom-left: bulb at (7,1), arms at (7,2), (7,3), (8,1), (9,1).
- Bottom-right: bulb at (7,7), arms at (7,8), (7,9), (8,7), (9,7).

 The grid contains the following digits:

- (1,2)=6, (1,3)=2, (2,1)=1, (2,7)=1, (2,8)=7, (3,1)=1, (3,7)=4, (3,8)=3, (6,1)=7, (6,2)=6, (7,1)=3, (7,2)=1, (8,7)=3, (8,8)=1, (8,9)=7, (8,8)=2.

 Arrows A and B point to the grid from the left and top respectively.

14

Arrow Sudoku

by

Thomas Snyder

(35 points)

Standard Sudoku rules apply.

The sum of the digits along the path of each arrow must equal the digit in the circled cell.

Digits can repeat within an arrow shape.

A 9x9 grid for an Arrow Sudoku puzzle. The grid contains several arrows pointing in various directions. Each arrow starts from a circled digit cell and moves until it reaches an empty cell. The circled digits are:

- (1,2)=2, (1,7)=4, (2,4)=3, (3,2)=7, (3,7)=5, (5,1)=7, (5,4)=9, (6,2)=8, (6,7)=6, (7,1)=1, (7,3)=9.

 Arrows A and B point to the grid from the left and top respectively.

15

Smashed Sums

by

Serkan Yurekli

(105 points)

Place a digit from 1-7 such that each digit appears exactly once in each row, column and 3x3 box.

There will be 2 blackened cells in each row, column and 3x3 box.

Numbers outside the grid indicate the sum of digits between the blackened cells in the corresponding direction.



| | | | | | | | | | |
|----|---|----|---|---|--|---|---|---|----|
| | 7 | 19 | 8 | 8 | | 6 | 6 | 6 | 12 |
| 9 | | | | | | | | | |
| | | | | | | | | | |
| 11 | | | | | | | | | |
| 8 | | | | 1 | | 2 | | | |
| 7 | | | | | | | | | |
| 8 | | | | 4 | | 3 | | | |
| 9 | | | | | | | | | |
| | | | | | | | | | |
| 6 | | | | | | | | | |

16

Vudoku

by

Serkan Yurekli

(45 points)

Standard Sudoku rules apply.

The digit at the vertex of each marked "V" must either be sum or difference of other two digits on the "V".



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

17

Greater Than Consecutive

by

Deb Mohanty

(60 points)

Standard Sudoku rules apply.
 In all cases where the difference between two neighboring digits is 1, there is a greater or less sign between those digits. Digits must be placed in accordance with the signs.

18

Even Killer Sudoku

by

Deb Mohanty

(50 points)

Standard Sudoku rules apply.
 The sum of digits in cells inside every cage must be even. Digits do not repeat inside a cage.

19

Outside Sudoku

by

Deb Mohanty

(115 points)

Standard Sudoku rules apply.

The digits outside the grid must appear in one of the first three cells seen from that edge of the grid.

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

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

A B

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

Classic 1

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

Classic 2

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

Classic 3

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

Sudo-Kurve

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

6X6 Sudokus

B

| | | | | | |
|------------|---|---|---|---|---|
| 5 | 3 | 1 | 6 | 2 | 4 |
| 2 | 6 | 4 | 3 | 1 | 5 |
| 1 | 2 | 5 | 4 | 3 | 6 |
| 3 | 4 | 6 | 2 | 5 | 1 |
| A 4 | 1 | 3 | 5 | 6 | 2 |
| 6 | 5 | 2 | 1 | 4 | 3 |

D

| | | | | | |
|------------|---|---|---|---|---|
| 2 | 5 | 1 | 6 | 3 | 4 |
| 4 | 6 | 3 | 5 | 1 | 2 |
| 1 | 2 | 4 | 3 | 5 | 6 |
| 5 | 3 | 6 | 2 | 4 | 1 |
| C 3 | 1 | 2 | 4 | 6 | 5 |
| 6 | 4 | 5 | 1 | 2 | 3 |

F

| | | | | | |
|------------|---|---|---|---|---|
| 5 | 3 | 1 | 4 | 6 | 2 |
| 2 | 1 | 3 | 6 | 5 | 4 |
| E 6 | 4 | 2 | 5 | 3 | 1 |
| 4 | 2 | 5 | 3 | 1 | 6 |
| 1 | 5 | 6 | 2 | 4 | 3 |
| 3 | 6 | 4 | 1 | 2 | 5 |

H

| | | | | | |
|------------|---|---|---|---|---|
| 5 | 3 | 1 | 6 | 2 | 4 |
| G 2 | 1 | 6 | 4 | 5 | 3 |
| 4 | 6 | 2 | 5 | 3 | 1 |
| 6 | 4 | 5 | 3 | 1 | 2 |
| 1 | 5 | 3 | 2 | 4 | 6 |
| 3 | 2 | 4 | 1 | 6 | 5 |

J

| | | | | | |
|------------|---|---|---|---|---|
| 4 | 6 | 1 | 5 | 2 | 3 |
| I 6 | 1 | 3 | 4 | 5 | 2 |
| 5 | 3 | 2 | 6 | 1 | 4 |
| 1 | 2 | 4 | 3 | 6 | 5 |
| 3 | 5 | 6 | 2 | 4 | 1 |
| 2 | 4 | 5 | 1 | 3 | 6 |

L

| | | | | | |
|------------|---|---|---|---|---|
| 5 | 6 | 1 | 4 | 3 | 2 |
| K 2 | 1 | 3 | 6 | 5 | 4 |
| 4 | 3 | 2 | 5 | 1 | 6 |
| 6 | 4 | 5 | 3 | 2 | 1 |
| 1 | 5 | 6 | 2 | 4 | 3 |
| 3 | 2 | 4 | 1 | 6 | 5 |

Overlapping

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

Deficit

| | | | | | | | | |
|---|---|---|---|---|---|---|--|--|
| 5 | 2 | 4 | 3 | 6 | 1 | 7 | | |
| 1 | 3 | 7 | 6 | 2 | 5 | 4 | | |
| 6 | 4 | 1 | 2 | 3 | 7 | 5 | | |
| 7 | 5 | 2 | 1 | 4 | 3 | 6 | | |
| 2 | 7 | 3 | 4 | 5 | 6 | 1 | | |
| 4 | 1 | 6 | 5 | 7 | 2 | 3 | | |
| 3 | 6 | 5 | 7 | 1 | 4 | 2 | | |

Shifted

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

Pinocchio

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

Diagonal

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

Killer

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

Renban

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

Thermo

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

Arrow

B

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

A

Smashed Sums

B

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5 | 4 | | 6 | 2 | 1 | | 3 | 7 |
| 2 | | 7 | | 3 | 5 | 4 | 6 | 1 |
| 3 | 6 | 1 | 7 | | 4 | 2 | 5 | |
| 4 | 3 | | 1 | 5 | 2 | | 7 | 6 |
| | 2 | 5 | | 6 | 7 | 3 | 1 | 4 |
| 1 | 7 | 6 | 4 | | 3 | 5 | | 2 |
| 6 | 1 | 3 | 5 | 4 | | 7 | 2 | |
| | | 2 | 3 | 7 | 6 | 1 | 4 | 5 |
| 7 | 5 | 4 | 2 | 1 | | 6 | | 3 |

A

Vudoku

B

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

A

Greater Than Consecutive

B

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6 | > | 5 | 2 | 4 | 9 | 7 | < | 8 | 3 |
| 3 | 8 | < | 9 | 5 | 1 | 7 | 2 | 4 | 6 | |
| 7 | 2 | 4 | 8 | 6 | 3 | 5 | 9 | 1 | | |
| 2 | 4 | 7 | 3 | 8 | 6 | 9 | 1 | 5 | | |
| 5 | 9 | 1 | 7 | 2 | 4 | 6 | 3 | 8 | | |
| 8 | 3 | 6 | 9 | 5 | 1 | 4 | 7 | 2 | | |
| 4 | 7 | 2 | 6 | 3 | 8 | 1 | 5 | 9 | | |
| 9 | 5 | 3 | 1 | 7 | 2 | 8 | 6 | 4 | | |
| 6 | 1 | 8 | 4 | 9 | 5 | 3 | > | 2 | 7 | |

A

Even Killer

B

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

A

Outside

B

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

A