



Episode – 6 9th – 11th January 90 minutes

Twisted Classics by Rajesh Kumar

Sudoku Mahabharat rounds will also serve as qualifiers for Indian Sudoku Championship for year 2016. Please check http://logicmastersindia.com/SM/2015-16.asp for details.

Important Links

Submission Page : http://logicmastersindia.com/SM/201601/ Discussion Thread : http://logicmastersindia.com/SM/201601/discuss.asp F. A. Q. : http://logicmastersindia.com/t/?tid=381 Registration, if required : http://logicmastersindia.com/register.asp

About this Episode

Apart from classic Sudokus of different sizes, this episode has five twisted variants of Classic Sudoku, namely Overlapping Sudoku, Linked Sudoku, Disjoint Sudoku, Mirror Sudoku, Twin Givens Sudoku.

How to participate?

- Understand the rules of different Sudokus that will appear in this episode. This Instruction Booklet has rules for each Sudoku.
- Download the password protected Sudoku booklet (will be uploaded before the test starts). The Sudoku booklet contains the actual Sudokus to be solved. It is password protected, so you won't be able to open it.
- Any time during the given weekend, login at the submission page using your LMI userid and password.
- Please check the submission page for exact timing.
- Click on "Start". At this time, password for pdf will be shown and timer will start.
- You can either solve online using flash interface or print the pdf and solve on paper.
- Each Sudoku will be marked with two arrows
- If solving on paper
 - Fill the answer form with digits along the marked arrow(s)
 - Click submit button
- If solving online
 - Ăfter solving the Sudoku, click on "Submit" button below the grid
 - Each Sudoku grid has different submit buttons

If you are participating at LMI for first time, you must check the F.A.Q. at http://logicmastersindia.com/t/?tid=381.

Points Table and Scoring

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.

This test uses instant grading where a solver can submit any individual Sudoku and receive confirmation that the solution is correct or not.

Standard 6X6	1, 1, 1, 1
Standard 8X8	4
Standard 9X9	11, 6, 7
Overapping Sudoku 6X6, 9X9	3, 16
Linked Classics 6X6, 9X9	5, 16
Disjoint Sudoku 6X6, 9X9	1, 9
Mirror Sudoku 6X6, 9X9	1, 7
Twin Givens 6X6, 9X9	2, 8

Each incorrect submission reduces the sudoku's potential score. The first, second, third, and fourth incorrect submission reduces the potential score to 90%, 70%, 40%, and 0% respectively.

Bonus

If you submitted all Sudokus correctly, you can have bonus points 1 point per minute saved, computed upto seconds.

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.

In Twin Givens Sudoku, you need to enter "X" for blank cells.

About the Sudoku Booklet

The password protected Sudoku booklet will have 9 pages. If you are planning to solve on paper, we advise you to have a printer accessible with enough paper.

The Sudoku booklet will look exactly like next 9 pages in this instruction booklet. The font sizes, cell sizes, colors, borders, shading, margin will be identical. We recommend you to print few pages of this instruction booklet. You can avoid any last minute surprise during the test.

Also, we strongly advise you to save the pdf file on your computer, open the pdf (with the password) using Adobe Acrobat Reader and then print. If you print directly from the browser (for example Google Chrome), unintentional printing problems may arise (see this post for details http://logicmastersindia.com/t/?tid=1189).

					B			
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

Standard Sudoku

Place a digit from 1 to 6 in each empty cell so that each digit appears exactly once in each row, column and 2X3 box.



1 point

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

1 point



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Standard Sudoku

4 points

Place a digit from 1 to 8 in each empty cell so that each digit appears exactly once in each row, column and 2X4 box.

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

Standard Sudoku

11 points

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.

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

LI/

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Standard Sudoku

6 points

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.

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

Standard Sudoku

7 points

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.

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

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Overlapping Sudoku

3 points 16 points

Apply standard Sudoku rules to each of the grids.

Two grids are overlapping.





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Linked Sudoku

5 points

Apply standard Sudoku rules to each of the grids.

Two grids are linked to each other. The shaded cells must contain same digit in both the grids.

4			
2	1	5	
		1	
		3	5



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Linked Sudoku

16 points

Apply standard Sudoku rules to each of the grids.

Two grids are linked to each other. The shaded cells must contain same digit in both the grids.

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



Disjoint Sudoku

1 point

Apply standard Sudoku rules.

Additionally, no digit can appear in the same position in different 2X3 boxes.

V					
1		5			
	6		2		
		2		3	
			4		3

Disjoint Sudoku

9 points

Apply standard Sudoku rules.

Additionally, no digit can appear in the same position in different 3X3 boxes.

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

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Mirror Sudoku

1 point

Apply standard Sudoku rules.

The four corner boxes (top left, top right, bottom left, bottom right) all contain the same digit in symmetrical positions with respect to the center of the grid.



Mirror Sudoku

7 points

Apply standard Sudoku rules.

The four corner boxes (top left, top right, bottom left, bottom right) all contain the same digit in symmetrical positions with respect to the center of the grid.

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



Twin Givens Sudoku

2 points

Place digits from 1-4 in each row, column and 2x3 outlined box.

Two cells will remain empty as these are twins and of the same value. No two twins can touch each other in orthogonal directions.

Enter X for blank cells, while entering the answer key.

			2
		3	1
	3	 1	

Twin Givens Sudoku

8 points

Place digits from 1-7 in each row, column and 3x3 outlined box.

Two cells will remain empty as these are twins and of the same value. No two twins can touch each other in orthogonal directions.

Enter X for blank cells, while entering the answer key.

	6				4		1	5	
	2				6	7		3	
0		3							
		5		1		2			
	1		4		3		5		2
				4		5		1	
P								4	
		4		3	5				7
		7	2		1				5

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

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

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

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





Twisted Classics

Disjoint

Mirror

	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
K	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

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

Twin Givens

1		2	4		3
	4	3		1	2
3	1		2	4	
2		4	3		1
	2	1		3	4
4	3		1	2	

Twin Givens

	6		7	2	4	3	1	5	
	2	1	5		6	7		3	4
0	4	3		5		1	7	2	6
		5	6	1	7	2	4		3
	1		4	6	3		5	7	2
	7	2	3	4		5	6	1	
	5	6		7	2		3	4	1
		4	1	3	5	6	2		7
	3	7	2		1	4		6	5

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