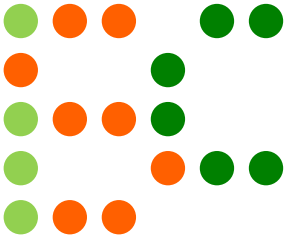
sudoku mahabharat



Episode – 2
03rd – 06th February
Odd Even & Twisted Classics Variations
By Rishi Puri

Sudoku Mahabharat rounds will also serve as qualifiers for Indian Sudoku Championship for year 2017. Please check http://logicmastersindia.com/SM/2016-17.asp **for details.**

Important Links

Submission Page : http://logicmastersindia.com/SM/201702

Discussion Thread : http://logicmastersindia.com/t/?tid=1381

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 the following six variants

- Odd Even Sudoku
- Odd Sum Pair Sudoku
- No Even Neighbours Sudoku
- Disjoint Sudoku
- Linked Sudoku
- Overlapping 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 after 3rd February (but before 6th February), 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
    - After 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

Standard 1-6	1, 1
Standard 1-9	5, 7, 6, 8
Odd Even 1-6, 1-9	1, 9
Odd Sum Pair 1-6, 1-9	1, 5
No Even Neighbours 1-6, 1-9	1, 6
Disjoint 1-6, 1-9	3, 12
Linked 1-6, 1-9	3, 13
Overlapping 1-6, 1-9	2, 16

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. 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.

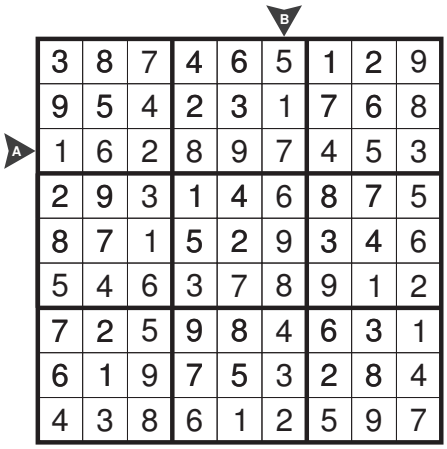
Bonus

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



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

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About the Sudoku Booklet

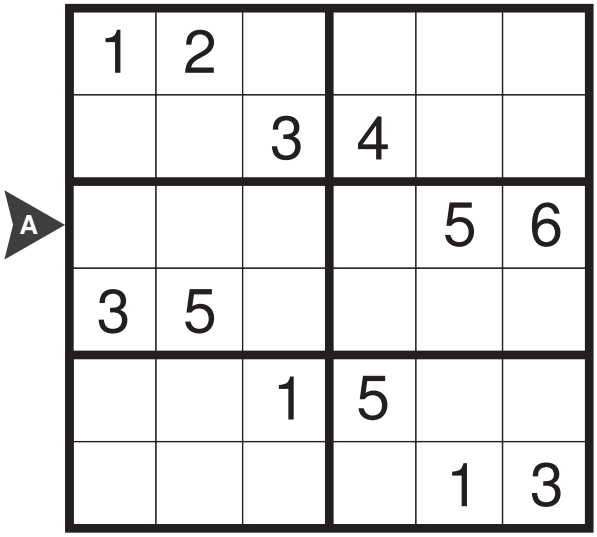
The password protected Sudoku booklet will have 9 pages. If you are planning to solve on paper, we advise you to have a printer accessible with enough paper.

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.

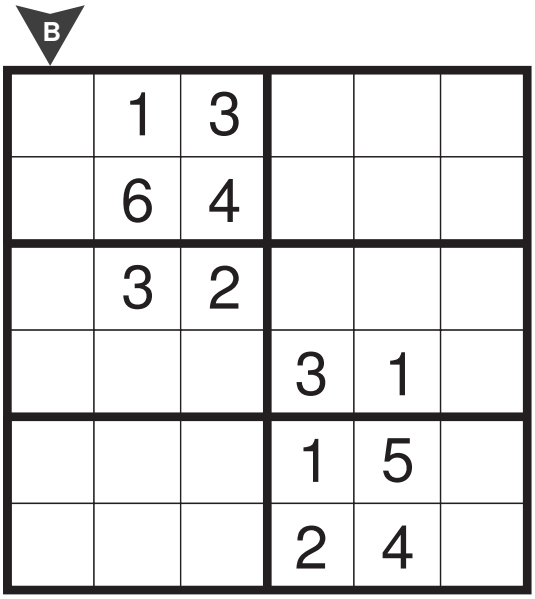
Standard Sudoku

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.

x points



x points



Standard Sudoku

x 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.

D

C

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

Standard Sudoku

x 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.

F

E

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

x 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.

H

G

	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	

Standard Sudoku

x 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.

I

J

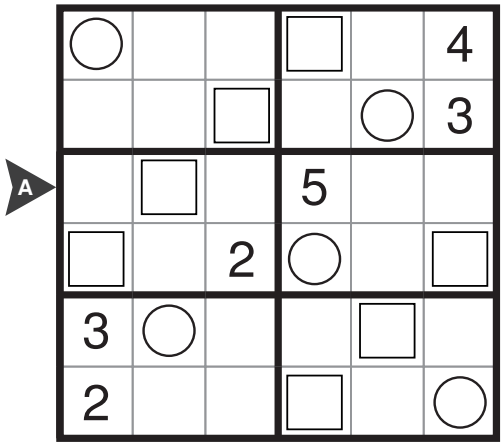
2				6				3
			4		1			
5	1						4	6
		9		5		6		
	7		6		8		1	
		5		3		4		
9	5						6	4
			2		5			
7				9				5

Odd Even Sudoku

x points

Apply standard Sudoku rules.

Additionally, each cell marked with a square must contain an even digit (2/4/6), and each cell marked with a circle must contain an odd digit (1/3/5).

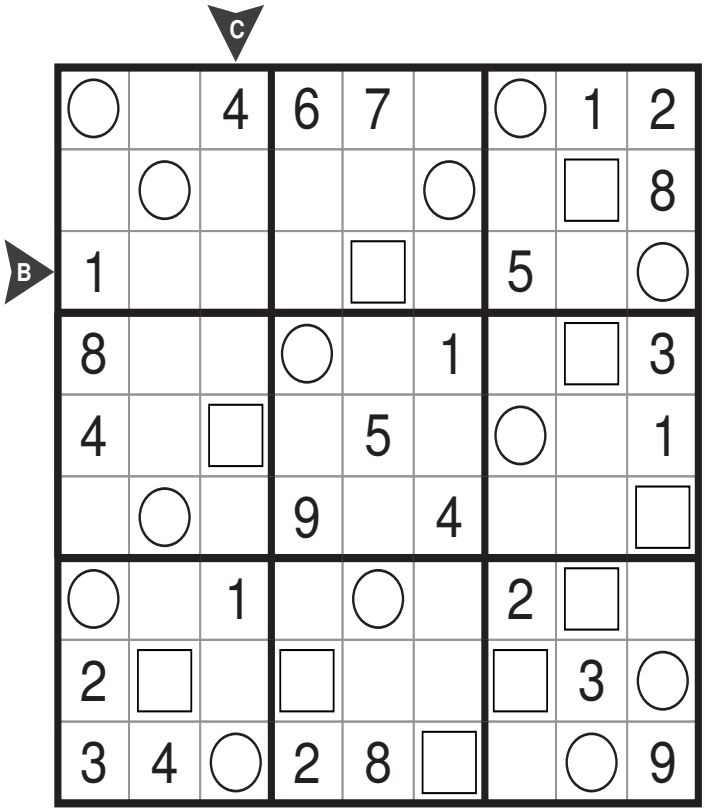


Odd Even Sudoku

x points

Apply standard Sudoku rules.

Additionally, each cell marked with a square must contain an even digit (2/4/6/8), and each cell marked with a circle must contain an odd digit (1/3/5/7/9).

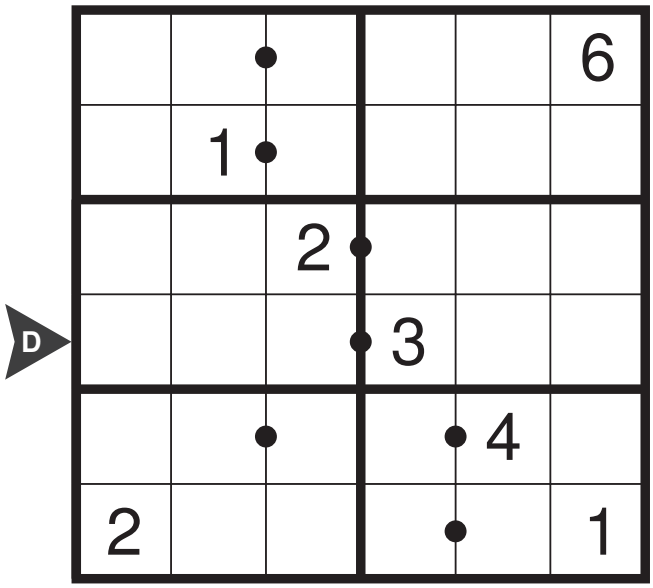


Odd Sum Pair Sudoku

x points

Apply standard Sudoku rules.

A dot between two cells implies the sum of digits in those 2 cells is odd.

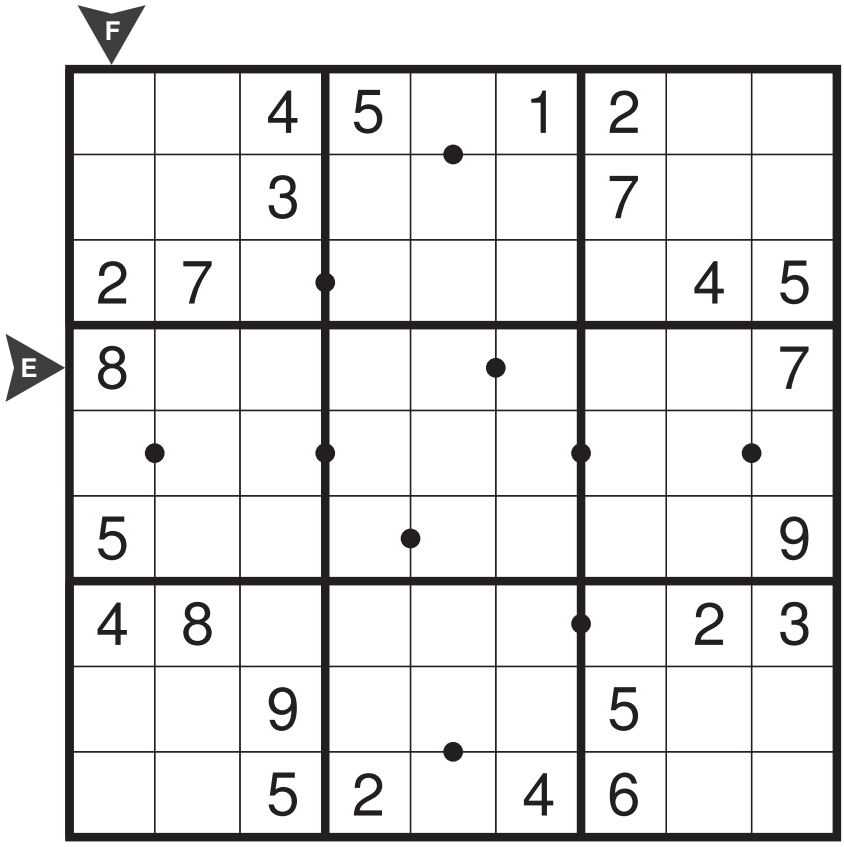


Odd Sum Pair Sudoku

x points

Apply standard Sudoku rules.

A dot between two cells implies the sum of digits in those 2 cells is odd.

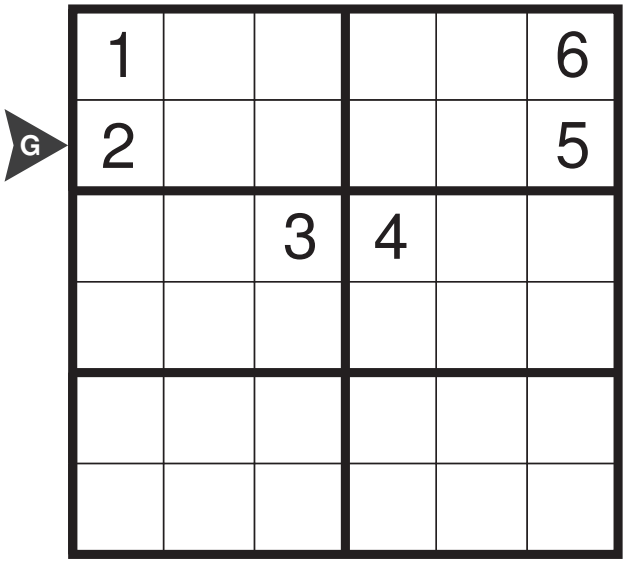


No Even Neighbours Sudoku

x points

Apply standard Sudoku rules.

No two cells containing even digits can share an edge.

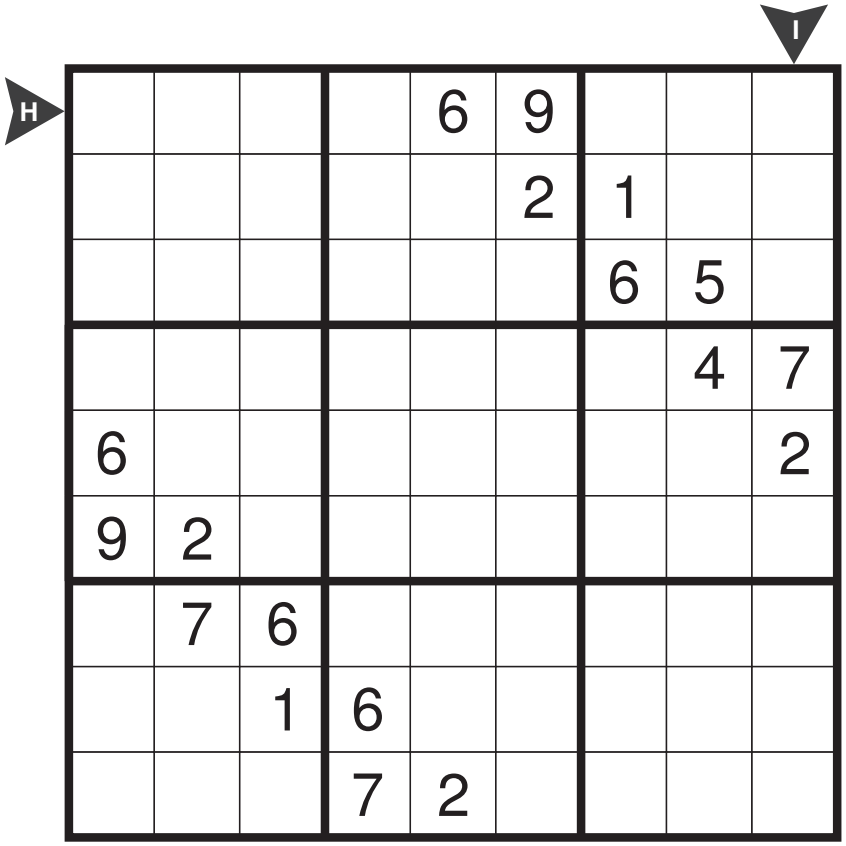


No Even Neighbours Sudoku

x points

Apply standard Sudoku rules.

No two cells containing even digits can share an edge.



Disjoint Sudoku

x points

Apply standard Sudoku rules.

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

J

1		5			
	6		2		
		2		3	
			4		3

Disjoint Sudoku

x points

Apply standard Sudoku rules.

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

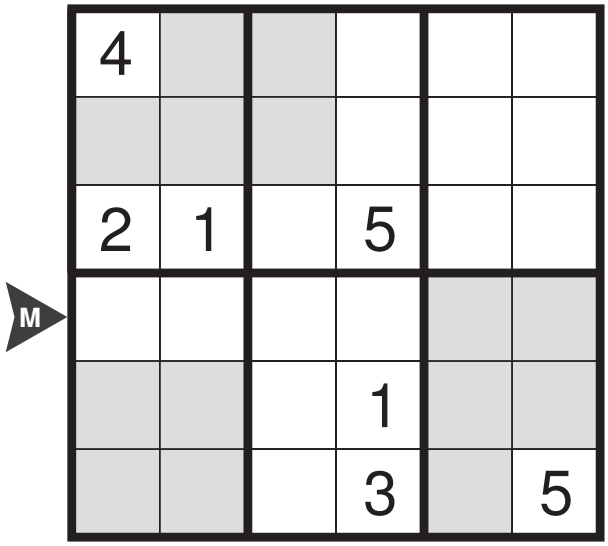
2	3		9	6				1
1	4		8	7				
K								
6	7							
5	8			2	3			
				1	4			
L								
							3	4
3							5	6

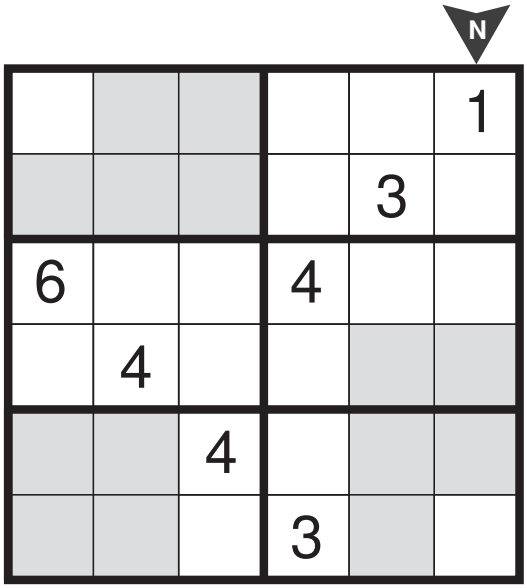
Linked Sudoku

x 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.





Linked Sudoku

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

O

P

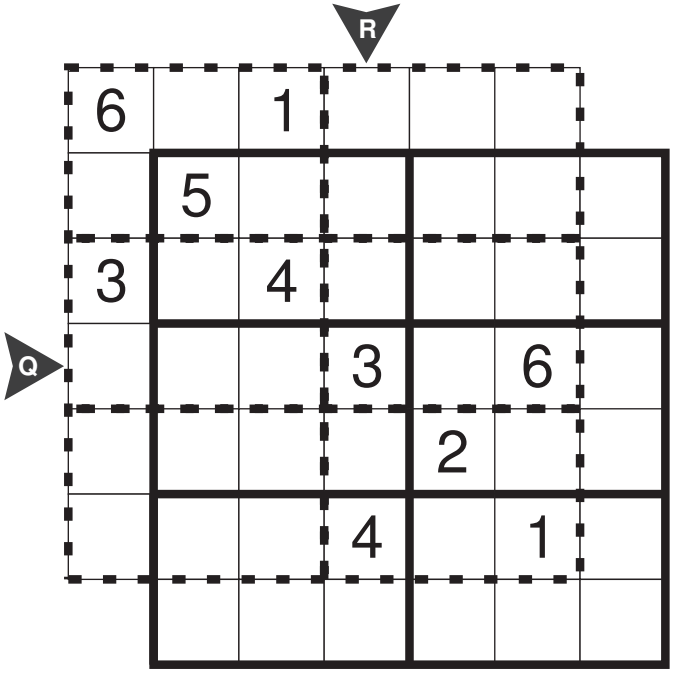
1			5			8		
	2				3		7	
		3				1		6
6			4				3	
				5				
	1				6			8
8		9				7		
	3		9				8	
		2			7			9

Overlapping Sudoku

x points

Apply standard Sudoku rules to each of the grids.

Two grids are overlapping.

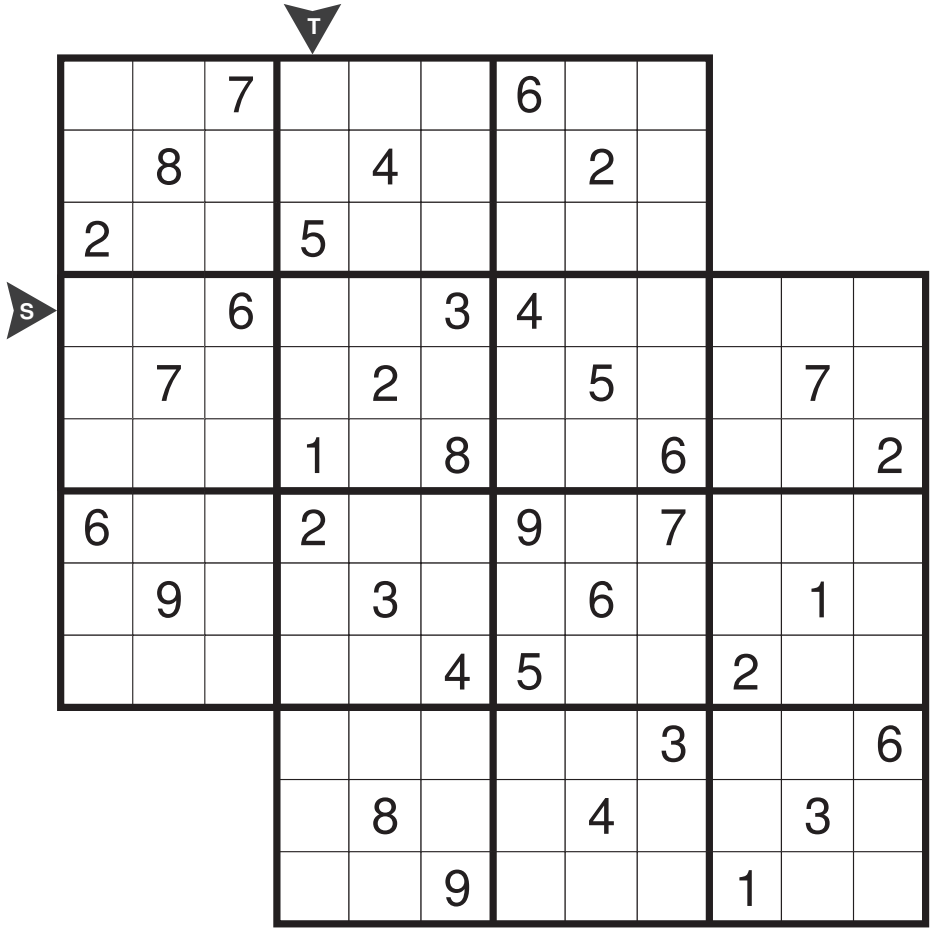


Overlapping Sudoku

x points

Apply standard Sudoku rules to each of the grids.

Two grids are overlapping.



Standard

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

Standard

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

Standard

			D					
	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
C	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

Standard

									F
	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
E	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

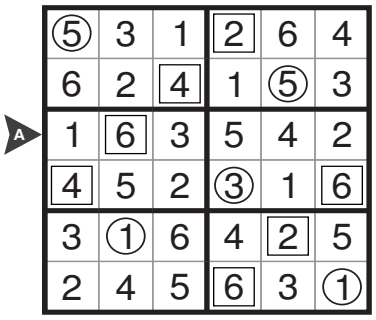
Standard

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

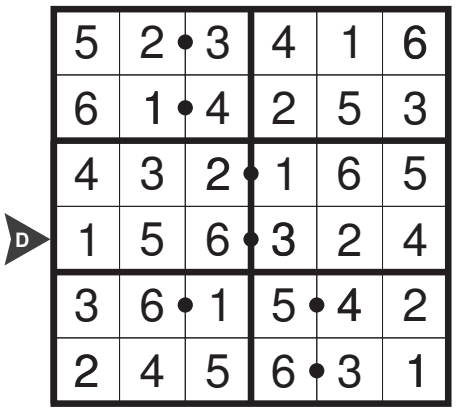
Standard

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

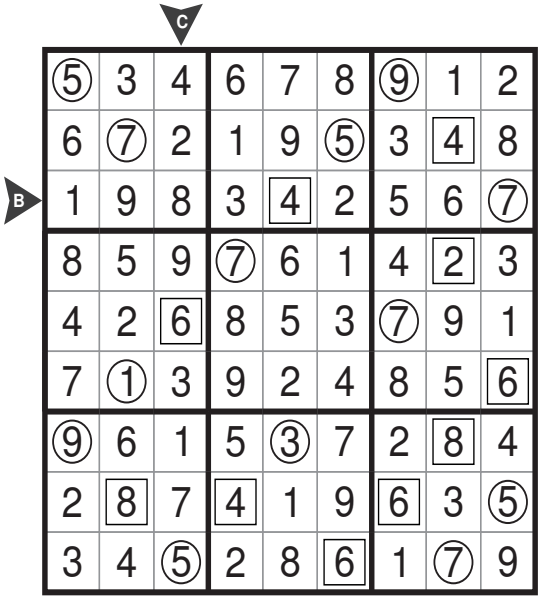
Odd Even



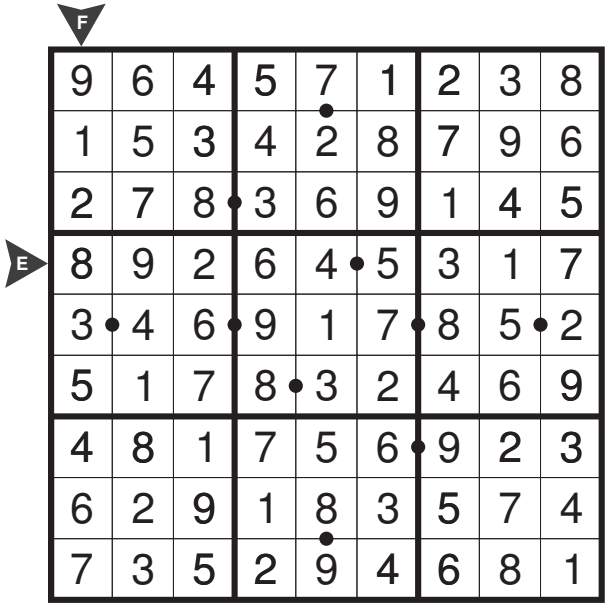
Odd Sum Pair



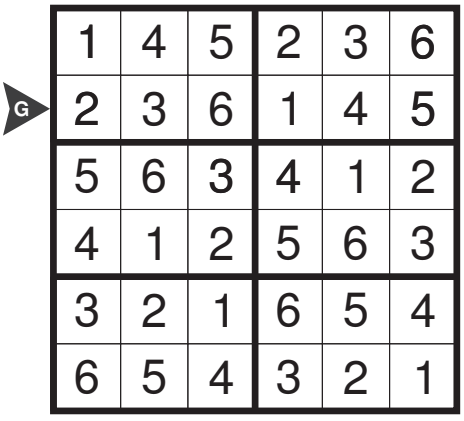
Odd Even



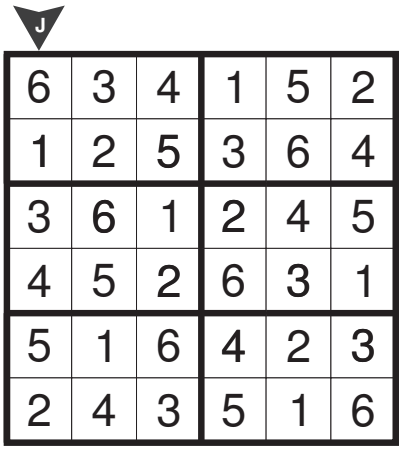
Odd Sum Pair



No Even Neighbours



Disjoint



No Even Neighbours

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

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

Linked

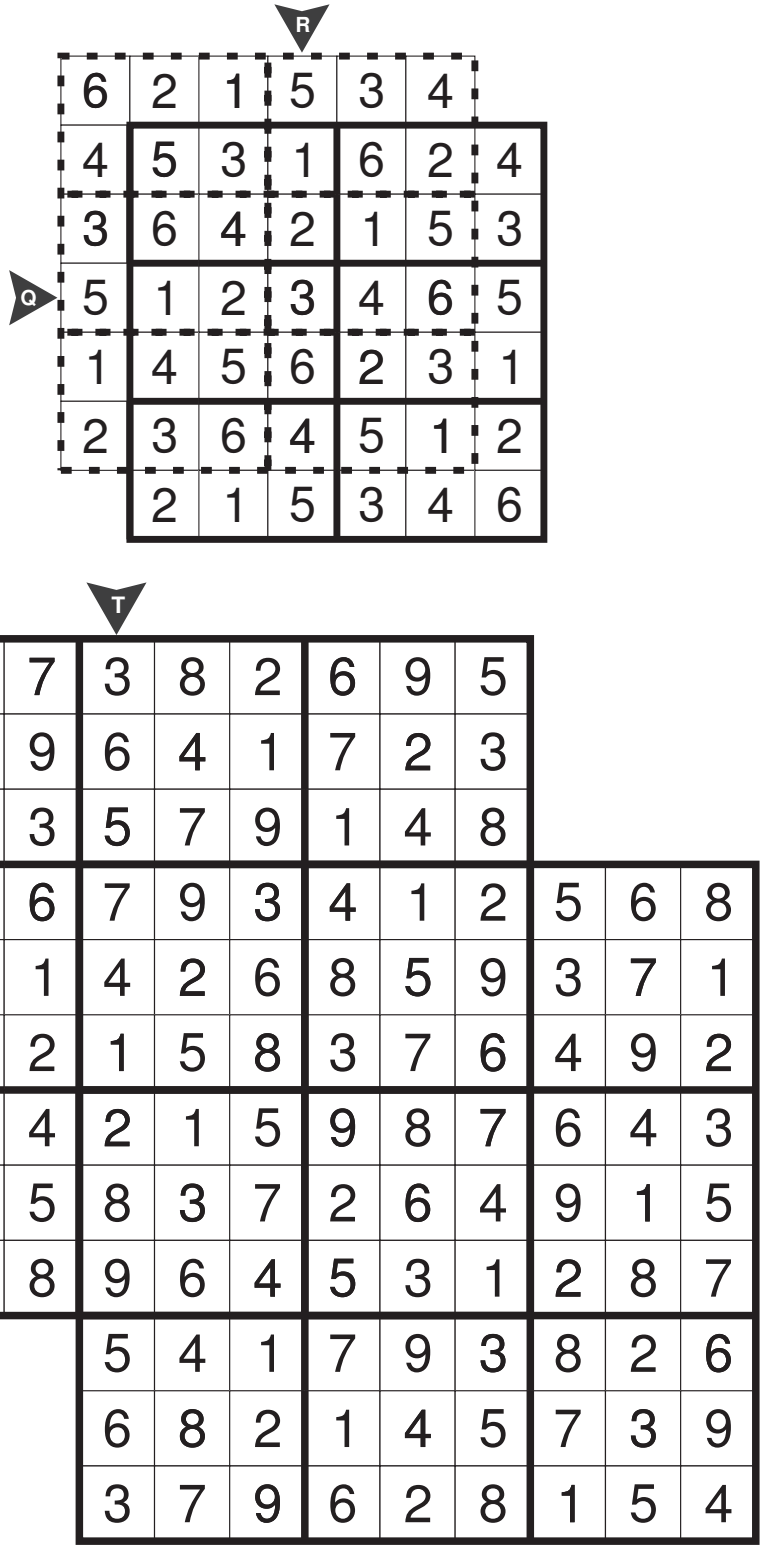
4	3	2	6	5	1
5	6	1	4	3	2
2	1	3	5	6	4
6	4	5	2	1	3
3	5	4	1	2	6
1	2	6	3	4	5

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
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

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

Overlapping



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