

Name:

Submit Time:

# INDIAN SUDOKU CHAMPIONSHIP 2010

24<sup>th</sup> January 2010

## Round 1 Linked Classics

35 minutes

	Points	Check1	Check2
Linked Row Classics 1	45		
Linked Row Classics 2	60		
Linked Row Classics 3	75		
Linked Row Bonus	20		
Linked Column Classics 1	30		
Linked Column Classics 2	40		
Linked Column Classics 3	60		
Linked Column Bonus	20		
Total	350		
Time Bonus			
Grand Total			

Conducted by TechFest, IIT Bombay

in association with [www.logicmastersindia.com](http://www.logicmastersindia.com)

**Linked Row Classics (45 + 60 + 75 + 20 bonus) 200 points**

Fill in the grids so that every row, every column and every 3x3 box contains the digits 1 through 9.

Exactly **one row** in each grid has identical digits at identical positions.

The individual Classics have their own points and points will be awarded only if the answer matches the final answer satisfying the 3 sudokus.

20 bonus points for solving all of them.

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

45 points ↑

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

60 points ↑

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

75 points ↑

**Linked Column Classics (30 + 40 + 60 + 20 bonus) 150 points**

Fill in the grids so that every row, every column and every 3x3 box contains the digits 1 through 9.

Exactly **one column** in each grid has identical digits at identical positions.

The individual Classics have their own points and points will be awarded only if the answer matches the final answer satisfying the 3 sudokus.

20 bonus points for solving all of them.

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

30 points ↑

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

40 points ↑

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

60 points ↑

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## Round 2

### Samurai Sudoku

45 minutes

	Points	Check1	Check2
Odd Sudoku	30		
Diagonal Sudoku	45		
Irregular Sudoku	55		
Extra Region Sudoku	65		
Classic Sudoku	50		
Correct Regions X 5	205		
Total	450		
Time Bonus			
Grand Total			

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## Samurai Sudoku

Four Sudoku variations are overlapping on a classic Sudoku. In each of the 5 Sudokus, every row, every column and 3X3 box contains digits from 1 through 9. Additional rules for variations:

In Odd Sudoku, the shaded cells can contain odd digits only.

In Diagonal, the marked diagonals contain 1 through 9.

In Irregular, the outlined shapes contain 1 through 9.

In Extra Region, every shaded region of 9 cells contains 1 through 9.

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

Odd

Extra Region

Diagonal

Irregular

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

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## Round 3 Mixed Bag

45 minutes

	Points	Check1	Check2
Extra Region Sudoku	70		
Roman Sudoku	70		
Fortress Sudoku	90		
Distance Sudoku	100		
Palindrome Sudoku	100		
Inequality Sudoku	120		
Total	550		

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**Extra Region Sudoku**  
70 points

Fill in the grid so that every row, every column, every 3x3 box, and every shaded region of 9 cells contains the digits 1 through 9.

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

I	I	I	II		II			IV
I		I						
I	I	I	II		II	III		III
			V		V	VI		
VI				V			VI	
I	I	X	V		V			VI
VII		VII		V	I	I	II	III
		II	V			IV	V	VI
		III				VII	VIII	IX

**Roman Sudoku**  
70 points

Complete the grid such that each row, column and 3x3 box contain numbers 1 to 9 as shown in Roman numbers. Some lines are already given, which cannot be removed. (Both Roman and English digits will be accepted)

- I – 1      IV – 4      VII – 7
- II – 2     V – 5      VIII – 8
- III – 3    VI – 6     IX – 9

**Fortress**  
90 points

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. If a grey and a white cell are orthogonally adjacent then the grey cell has the greater value.

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

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


1-5:4

5-8:4

4-2:3

1-6:6

7-3:7

5-2:5

8-1:6

7-5:5

6-7:3

**Distance Sudoku**  
100 points

Fill in the grid so that every row, every column and every outlined region of nine cells contains the digits 1 through 9. The distance between two digits in each row and column is specified. The order of these digits is from left to right or from top to bottom.



**Palindrome Sudoku**  
100 points

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. The digits in the squares connected with the grey line form palindromes i.e. they read the same from both directions e.g. 56765.

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

			5					
			6					

**Inequality Sudoku**  
120 points

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. Digits must be placed according to the given inequality symbols (< or >).

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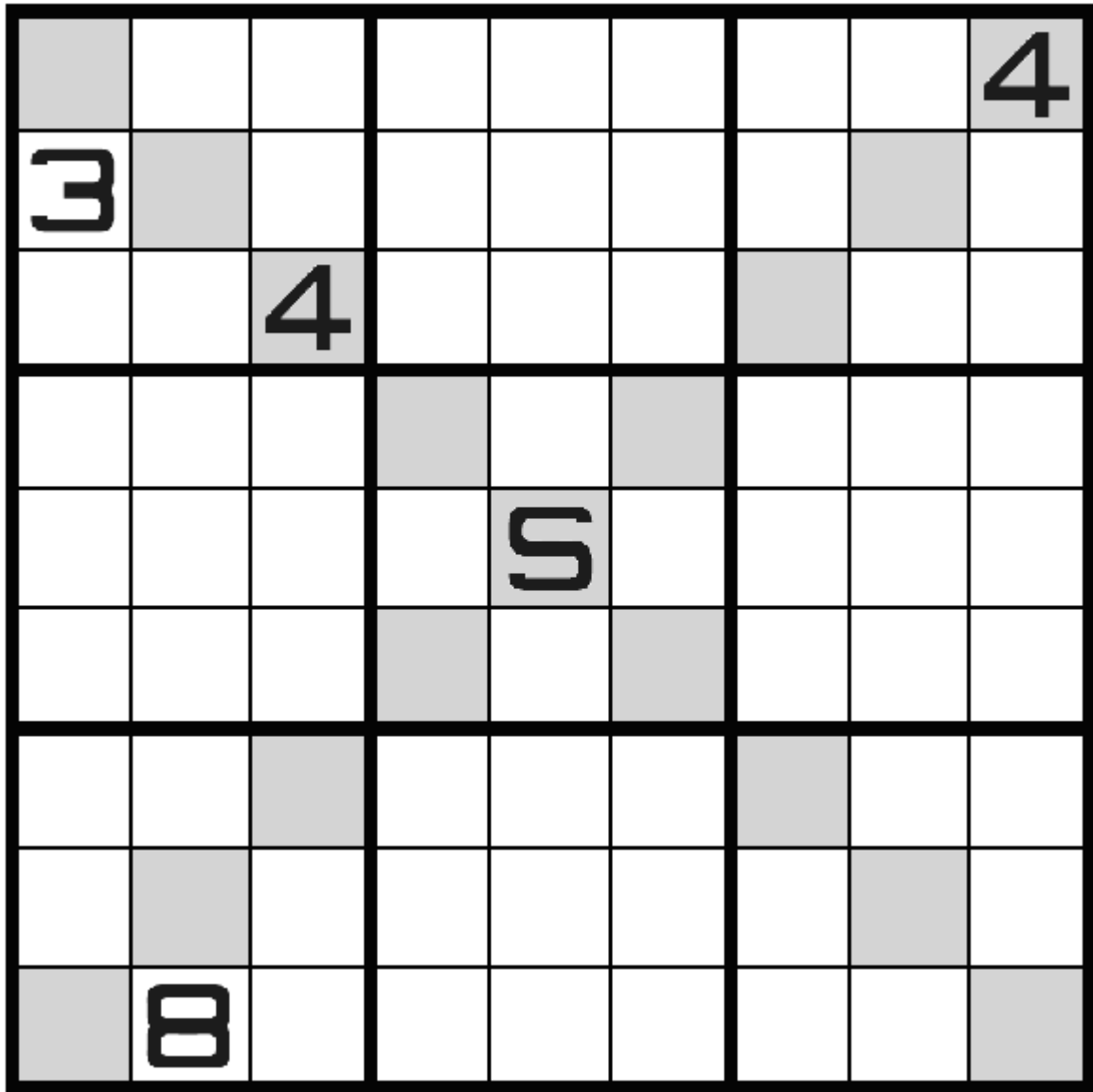
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## Round 4 Mechanical Sudoku 25 minutes

	Points	Check1	Check2
# of tiles correctly placed	150		
Complete Solution	50		
Total	200		
Time Bonus			
Grand Total			

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	6	

	1	

		1
		3

5	0	
		8

	6	8
		1

	7	

2	5	1

















	1	
4		

		8
	2	

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### Diagonal Sudoku

Fill in the grid so that each row / column / 3x3 box / diagonal contains the digits 1-9 exactly once.

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