

# junior इयतठकय ललhabharat

**Episode – 1**  
**21<sup>st</sup> – 27<sup>th</sup> February 2025**

**Standard & Odd Even**  
**by**  
**Swaroop Guggilam**

## **Important Links**

**Submission Page :** <http://logicmastersindia.com/live?contest=JSM202501>

**Discussion Thread :** <http://logicmastersindia.com/t/?tid=4176>

**F. A. Q. :** <http://logicmastersindia.com/t/?tid=2773>

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

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## About this Episode

This episode has 9 Sudokus with the following breakdown:

- 2\* Classic Sudoku 6x6 and 1 Classic Sudoku 9x9
- 2\* Thermo Sudoku 6x6
- 1 each of Untouch Sudoku 6x6 and Untouch Sudoku 9x9
- 1 each of Odd Even 6x6 and Odd Even 9x9

## How to participate?

- Understand the rules of different variants that will appear in this episode. This Instruction Booklet has rules for each of them.
- Update your date of birth in your LMI profile here: <https://logicmastersindia.com/forum/profile/controlpanel.asp>
- Any time on or after 21<sup>st</sup> Feb (but on or before 27<sup>th</sup> Feb), login at the submission page using your LMI user-id and password. Please check the submission page for exact timing.
- **If you plan to solve on paper:**
  - a) Download the password protected Puzzle booklet (will be uploaded before the test starts). The Puzzle booklet contains the actual Puzzles to be solved. It is password protected, so you won't be able to open it.
  - b) Click on "Start". At this time, password for pdf will be shown and timer will start. **The contest duration is 40 minutes.**
  - c) The puzzle booklet can be downloaded, printed and solved on paper.
  - d) We advise you to have a printer accessible with enough paper.
  - e) You are allowed to use writing implements, eraser, blank paper (including commercial graph paper), ruler, scissors, and tape.
- **If you plan to solve on LMI's Penpa-Integrated Interface:**
  - a) Click on this link and understand the instructions - <https://logicmastersindia.com/live/faq-online-solving.asp>
  - b) It is noted on the link too, but we note it here as well to be clear – the participants must still input the answer keys in the boxes below the puzzle and submit them to receive credit as given below.
- Irregular solving help of any kind is not permitted. This includes but is not limited to: assistance of any kind from any other person; prepared notes, books, calculators, computers, or tools other than items explicitly permitted.
- Participants may use both paper solving and online solving, even interchangeably. Eventually our system will only count anything submitted in the submission boxes in either mode.

If you are participating at LMI for first time, it will be useful to check the F.A.Q. at <http://logicmastersindia.com/t/?tid=2773>.

## About answer keys and Submission

- After solving the puzzle, you need to submit the puzzle using the answer keys.
  - You may submit the answer keys anytime during the test duration.
  - Answer keys are always to be entered from left to right or top to bottom
  - Don't enter any separator unless specified in the answer key
  - If one row and one column is marked, enter the row first and then the column
  - If multiple rows are marked, enter from top to bottom for marked rows
  - If multiple columns are marked, enter from left to right for marked columns
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## Points Table and Scoring

Points typically indicate difficulty of the Puzzles and time required to solve them. You will get full points if you enter the correct answer key. While the organizers have made best efforts to match them, **your personal experience and preference may differ.**

Classic Sudoku 6x6	1, 1
Classic Sudoku 9x9	5
Thermo Sudoku 6x6	4, 10
Untouch Sudoku 6x6 & 9x9	3, 15
Odd Even Sudoku 6x6 & 9x9	2, 9

This test uses instant grading where a solver can submit any individual Puzzle and receive confirmation that the solution is correct or not. Each incorrect submission reduces the puzzle's potential score. The first, second, third, and fourth incorrect submissions reduce the potential score to 90%, 70%, 40%, and 0% respectively. A demonstration for this is shown below.

### Original points

04 Araf	50 points	4A	Sum should be 10
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### Potential points after 1 incorrect submission

04 Araf	45 / 50	4A	1234
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### Potential points after 2 incorrect submissions

04 Araf	35 / 50	4A	23311
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### Potential points after 3 incorrect submissions

04 Araf	20 / 50	4A	111111111
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### Potential points after 4 incorrect submissions

04 Araf	0 / 50	4A	541
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## Bonus and Ranking

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

Ranking will be based on following rules in order:

1. Most total points
2. Earliest final submission time, up to seconds (ignoring incorrect submissions)

### Credits

- **Hemant Malani** for test solving the puzzles and providing invaluable feedback.
- The original creator **opt-pan** for penpa edit - <https://opt-pan.github.io/penpa-edit/>
- **Swaroop Guggilam** for his recent efforts in adding features to Penpa-edit - <https://swaroopg92.github.io/penpa-edit/> and also working to integrate it with our contest engine.

### About the Puzzle Booklet

The password protected Puzzle booklet will have 4 pages. This is relevant only for paper solvers.

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*Solutions to examples are towards the end of the booklet in the Solutions section.*

*Rules Powered by Sudokuib - <https://github.com/vopani/sudokuib>*

*All answer keys are the same for all puzzles – enter the contents of the marked rows/columns, including given digits, along the direction of the arrow.*

## 1-2 Classic Sudoku 6x6

1 + 1 points

Place a digit from 1 to 6 into each empty cell in the grid so that each digit appears exactly once in each row, column and 2x3 outlined box.

Penpa for example:

<https://tinyurl.com/2nvezsrr>

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

## 3 Classic Sudoku 9x9

5 points

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/333ntt48>

	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	

### 4-5 Thermo Sudoku 6x6

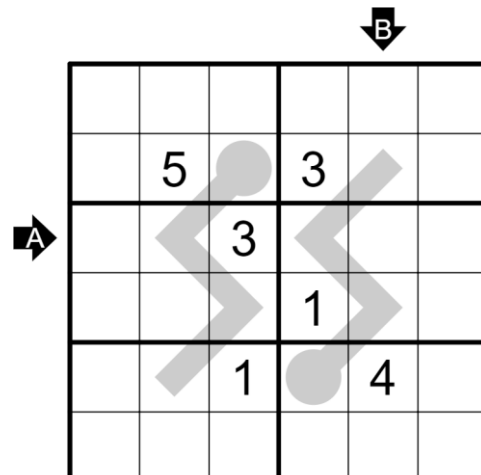
4 + 10 points

Place a digit from 1 to 6 into each empty cell in the grid so that each digit appears exactly once in each row, column and 2x3 outlined box.

Digits along each thermometer are strictly increasing from its bulb to each of its ends.

Penpa for example:

<https://tinyurl.com/vajncdnz>



### 6 Untouch Sudoku 6x6

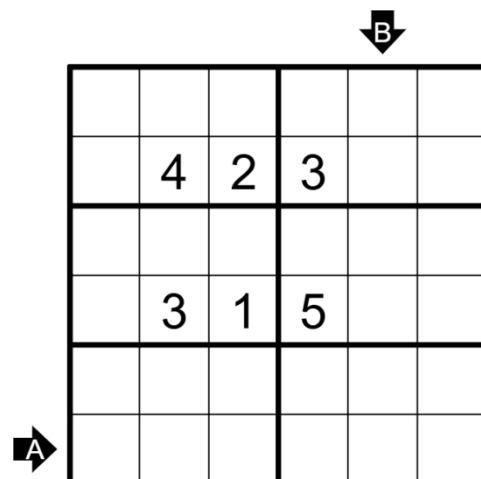
3 points

Place a digit from 1 to 6 into each empty cell in the grid so that each digit appears exactly once in each row, column and 2x3 outlined box.

Diagonally touching cells must not contain the same digit.

Penpa for example:

<https://tinyurl.com/28d4tc56>



## 7 Untouch Sudoku 9x9

15 points

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.

Diagonally touching cells must not contain the same digit.

Penpa for example:

<https://tinyurl.com/5n8ucf23>



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



## 8 Odd Even Sudoku 6x6

2 points

Place a digit from 1 to 6 into each empty cell in the grid so that each digit appears exactly once in each row, column and 2x3 outlined box.

Cells with shaded squares contain even digits. Cells with shaded circles contain odd digits.

Penpa for example:

<https://tinyurl.com/3p4jn7av>



4	■			●	1
●		■			■
		6	4	■	
	■	5	3		
■			●		●
5	●			■	2



## 9 Odd Even Sudoku 9x9

7 points

Place a digit from 1 to 6 into each empty cell in the grid so that each digit appears exactly once in each row, column and 2x3 outlined box.

Cells with shaded squares contain even digits. Cells with shaded circles contain odd digits.

Penpa for example:

<https://tinyurl.com/2kwfsx9p>

A →

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

→ B

## Solutions

Classic Sudoku 6x6

↓ B

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

→ A

Key: 412356,325461

↓ B

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

→ A

Key: 143526,562341

Untouch Sudoku 6x6

↓ B

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

→ A

Key: 613254,461235

Classic Sudoku 9x9

↓ B

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

→ A

Key: 781564329,718369254

Untouch Sudoku 9x9

↓ B

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

→ A

Key: 829731654,295784163



Odd Even Sudoku 6x6

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

Key: 152634,532146

Odd Even Sudoku 9x9

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

Key: 729615384,514387962