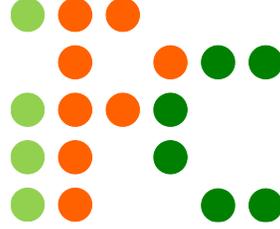


# puzzle Ramayan

and



Episode – 4  
26<sup>th</sup> April – 2<sup>nd</sup> May 2024

Word & Object Placement  
by  
Chandrachud Nanduri & Prasanna Seshadri

Puzzle Ramayan rounds will also serve as qualifiers for Indian Puzzle Championship for year 2024. Please check <http://logicmastersindia.com/PR/2023pr.asp> for details.

## Important Links

Submission Page : <http://logicmastersindia.com/live?contest=PR202404>

Discussion Thread : <http://logicmastersindia.com/t/?tid=3748>

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 22 Puzzles from the following puzzle types:

- 3\* Scrabble
- 3\* Word Labyrinth
- 3\* CrissCross
- 2\* Scrabble [Easy As]
- 3\* Statue Park
- 3\* Star Battle
- 3\* Tents
- 2\* Star Battle [Builder]

## How to participate?

- Understand the rules of different puzzles that will appear in this episode. This Instruction Booklet has rules for each puzzle.
- Any time on or after 26<sup>th</sup> Apr (but on or before 2<sup>nd</sup> May), 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 60 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/fag-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.
- Outside 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

- Each puzzle has some answer keys, as described in the instructions.
  - 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. You may consider submitting a puzzle as soon as you solve it.
  - 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
- Uppercase or lower case does not matter for answer keys where letters must be entered.
- Characters other than the ones explicitly expected by the answer key will cause the red highlight to appear around the submission box.

## 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.**

Scrabble	2, 9, 5
Word Labyrinth	5, 4, 5
CrissCross	1, 2, 5
Scrabble [Easy As]	7, 3
Statue Park	1, 5, 10
Star Battle	3, 4, 3
Tents	4, 4, 2
Star Battle [Builder]	6, 10

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	1111111111
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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 of 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

- **Botaku & Wessel Strijkstra** 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 11 pages. This is relevant only for paper solvers.

*Solutions and keys (including the key explanation) to examples are towards the end of the booklet in the Solutions section.*

## 1-3 Scrabble

Place all the listed words exactly once in the grid going across (left to right) or down (top to bottom). Each word intersects with at least one other word and all words are interconnected. No words of two or more letters can appear anywhere in the grid, except the ones listed. Some letters are given.

[The puzzles in the contest will be of sizes 10x8, 10x10 and 11x11. This example is 5x4.]

Penpa for example: <https://tinyurl.com/2dhnte8x>

2 + 9 + 5 points

		I	
			U

MUM  
RAM  
DORM  
MAIM  
MEME  
MADAM

## 4-6 Word Labyrinth

Write all the given words into the grid. Each word must be readable following the spiral inwards and all letters of a word must appear in consecutive cells. Along the spiral, different words must be separated by at least one empty cell. Letters cannot appear more than once in any row or column. Some letters are already given.

[The puzzles in the contest will be of sizes 8x8, 6x6 and 6x6. This example is 5x5.]

Penpa for example: <https://tinyurl.com/27l23oru>

			E	
		E		

JEDAN  
DVA  
TRI  
CETIRI

## 7-9 CrissCross

Place a letter into each empty cell such that each of the words given outside the grid appears in the grid reading left to right or top to bottom.

[The puzzles in the contest will be of sizes 8x5, 8x9 and 9x9. This example is 5x5.]

Penpa for example: <https://tinyurl.com/26obs6zb>


AGO  
NET  
PIP  
TAP  
SNIPE  
SNOOP

## 10-11 Scrabble [Easy As]

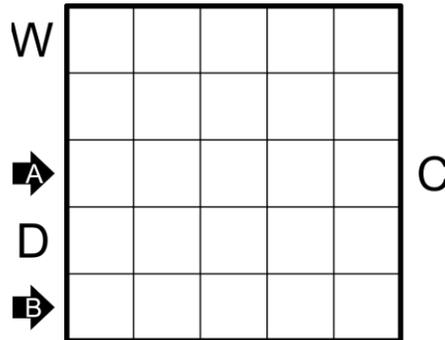
7 + 3 points

Apply Scrabble rules.

Additionally, a letter is given outside some rows/columns of the grid indicating the first seen letter in that direction.

[The puzzles in the contest will be of sizes 7x7 and 9x9. This example is 5x5.]

Penpa for example: <https://tinyurl.com/265qelww>



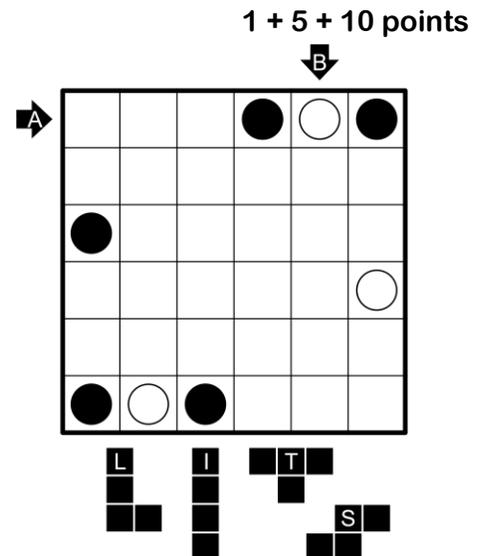
WACKY  
WORDS  
SUPER  
CUP

## 12-14 Statue Park

Place each shape from the bank given outside the grid into the grid so that no two shapes share an edge and all unused cells form one orthogonally connected area. Rotating and reflecting shapes is allowed. Cells with black circles must be used by a shape, and cells with white circles must not be used by a shape.

[The puzzles in the contest will be of sizes 7x7, 10x10 and 12x12. This example is 6x6.]

Penpa for example: <https://tinyurl.com/2dft4qd4>



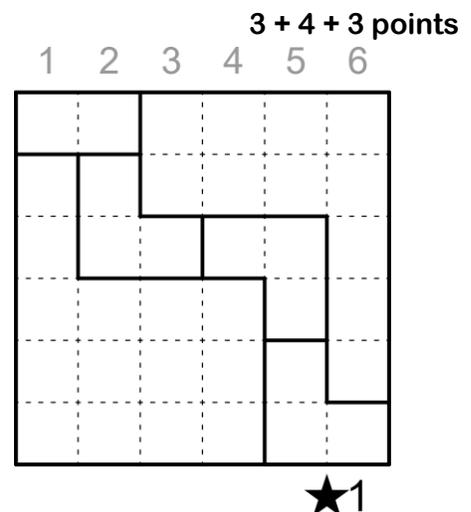
1 + 5 + 10 points

## 15-17 Star Battle

Place a star in some empty cells so that each row, column, and bold region contains the indicated number of stars. Stars cannot be placed in adjacent cells that share an edge or corner.

[The puzzles in the contest will be of sizes 10x10, 10x10 and 10x10 respectively. This example is 6x6.]

Penpa for example: <https://tinyurl.com/za55cj4s>



3 + 4 + 3 points

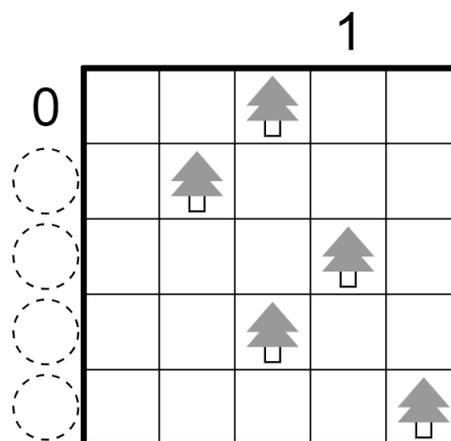
## 18-20 Tents

4 + 4 + 2 points

For each tree in the grid, place a tent in an empty orthogonally adjacent cell, connecting to it. Tents may not touch one another, not even diagonally. A clue given outside the grid represents the number of tents in the corresponding row or column.

[The puzzles in the contest will be of sizes 8x8, 9x9 and 10x10. This example is 5x5.]

Penpa for example: <https://tinyurl.com/25jrt3ky>



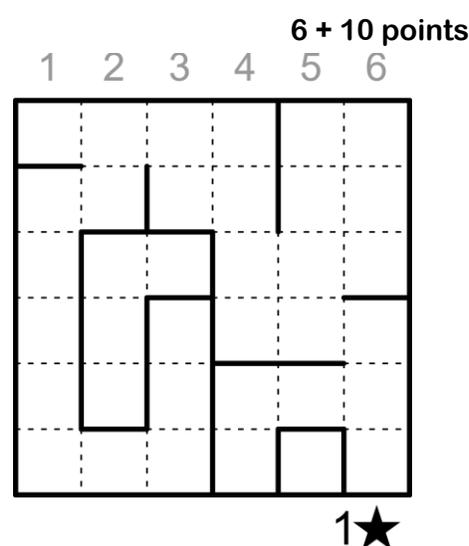
## 21-22 Star Battle [Builder]

Apply Star Battle rules.

Also, some region boundaries are missing, but all given borders must separate cells in different regions.

[The puzzles in the contest will be of sizes 9x9 and 10x10. This example is 6x6.]

Penpa for example: <https://tinyurl.com/26fyp8d4>



## Solutions

For this round, all answer keys will NOT be the same for all puzzles.

The keys are given section by section.

**Scrabble, Word Labyrinth, CrissCross, Scrabble [Easy As]** – For each marked row/column, enter the letters in order, ignoring empty/black cells.

**Statue Park** – For each marked row/column, enter the labeling of each shape that appears, one letter per shape. Ignore empty cells. Enter 0 if there are no shapes. **If two shapes with the same label appear in the same row, enter the label letter twice.**

**Star Battle, Star Battle [Builder]** – For each row from top to bottom, enter the column number of the first star from the left.

**Tents** – For each row from top to bottom, enter the number of tents.

**Scrabble**

MUM  
RAM  
DORM  
MAIM  
MEME  
MADAM

Key: AA, IRAM

**Word Labyrinth**

JEDAN  
DVA  
TRI  
CETIRI

Key: NRITA, RIE

**CrissCross**

EI  
IAGO

Key: EI, IAGO

**Scrabble [Easy As]**

RC  
SUPER

Key: RC, SUPER

**Statue Park**

L  
I  
T  
S

Key: TL, LS

**Star Battle**

Key: 142536

**Tents**

Key: 02111

**Star Battle [Builder]**

Key: 314625