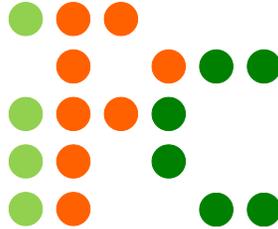


puzzle Ramayan

and



Episode – 3
13th – 19th March 2026

Object Placement & Regions
by
Chiel Beenhakker

Puzzle Ramayan rounds will also serve as qualifiers for Indian Puzzle Championship for year 2026. Please check <http://logicmastersindia.com/PR/2026pr.asp> for details.

Important Links

Submission Page: <http://logicmastersindia.com/live?contest=PR202603>

Discussion Thread: <http://logicmastersindia.com/t/?tid=7424>

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

F. A. Q. (online solving): <https://logicmastersindia.com/live/faq-online-solving.asp>

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

About this Episode

This episode has 22 Puzzles from the following puzzle types:

- 3* Tren
- 3* Arrow Flow
- 3* Regional Polyominoes
- 2* Tren [No Four In a Row]
- 3* Double Choco
- 3* Pentominous
- 3* Voxas
- 2* Pentominous [Radar]

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 13th Mar (but on or before 19th Mar), 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.**

Tren	3, 6, 5
Arrow Flow	3, 5, 5
Regional Polyominoes	1, 4, 7
Tren [No Four In a Row]	7, 7
Double Choco	2, 5, 4
Pentominous	2, 8, 6
Voxas	3, 5, 3
Pentominous [Radar]	3, 6

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

- **Botaku** 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 15 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 Tren

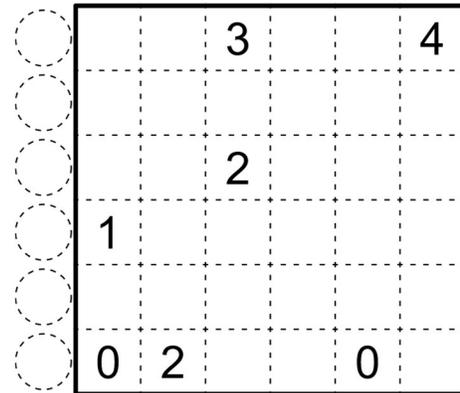
Locate some blocks in the grid having size 1×2 or 1×3 . Each number in the grid should be part of a block, indicating the number of unoccupied cells the block can move to by traveling along its longest axis, stopped only by an edge of the grid or another block. Each block contains exactly one number.

[The puzzles in the contest will be of sizes 8×8 , 9×9 and 10×10 . This example is 6×6 .]

Penpa for example:

<http://logicmastersindia.com/s/nrw-57z-t8x>

3 + 6 + 5 points



4-6 Arrow Flow

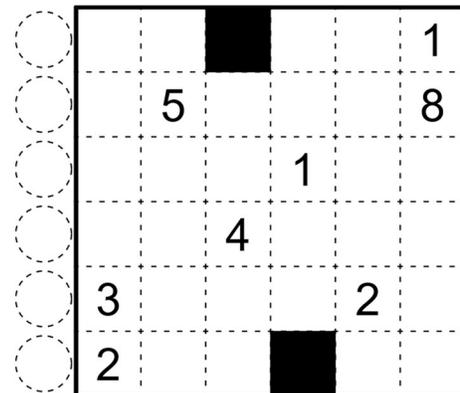
Place an arrow into each empty (white) cell of the grid, pointing in one of the four orthogonal directions. Two arrows pointing in the same direction may not share an edge. Each arrow must point to either another arrow or a number in the adjacent cell. **All arrows lead to a number.** Each number indicates how many arrows lead to it.

[The puzzles in the contest will be of sizes 7×7 , 7×7 and 8×8 . This example is 6×6 .]

Penpa for example:

<http://logicmastersindia.com/s/shj-ebg-176>

3 + 5 + 5 points



7-9 Regional Polyominoes

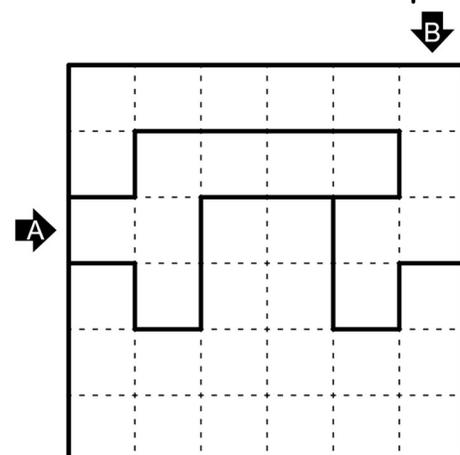
Place each shape from the given shape bank exactly once in the grid, such that each region fully contains one shape. Two shapes cannot touch each other, even at a point. Shapes may be rotated and reflected, but not scaled.

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

Penpa for example:

<http://logicmastersindia.com/s/swz-gdd-np3>

1 + 4 + 7 points



10-11 Tren [No Four In a Row]

7 + 7 points

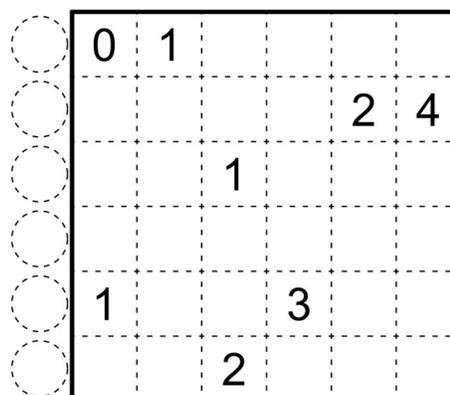
Apply regular 'Tren' rules.

Additionally, there may not exist a horizontal or vertical run of more than three consecutive cells either all belonging to blocks or all remaining empty anywhere in the grid.

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

Penpa for example:

<http://logicmastersindia.com/s/ymz-f21-a68>



12-14 Double Choco

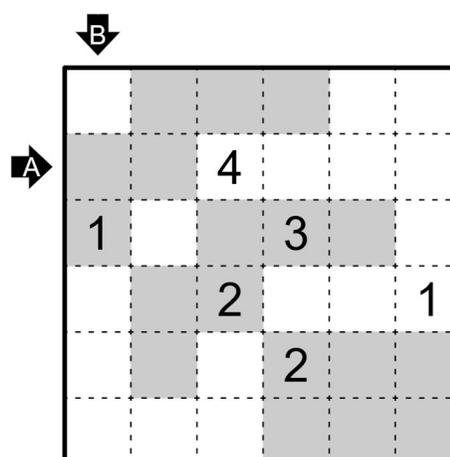
2 + 5 + 4 points

Divide the grid into regions of orthogonally connected cells, each containing a connected group of white cells and a connected group of grey cells, with the property that the shape of the white cells is identical to the shape of the grey cells, allowing rotations and reflections. Clued cells must belong to a region containing the indicated number of white cells and the indicated number of grey cells.

[The puzzles in the contest will be of sizes 8x8, 10x10 and 10x10. This example is 6x6.]

Penpa for example:

<http://logicmastersindia.com/s/kpv-iyf-rt8>



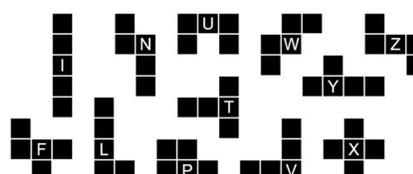
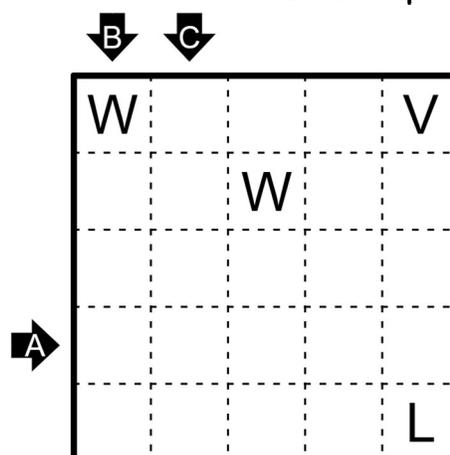
15-17 Pentominous

2 + 8 + 6 points

Divide the grid into regions of five orthogonally connected cells so that no two regions of the same shape share an edge, counting rotations and reflections as the same. Clued cells must belong to a region with the pentomino shape associated with that letter. Given black cells are not part of any region.

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

Penpa for example: <https://tinyurl.com/25vzfpu3>



18-20 Voxas

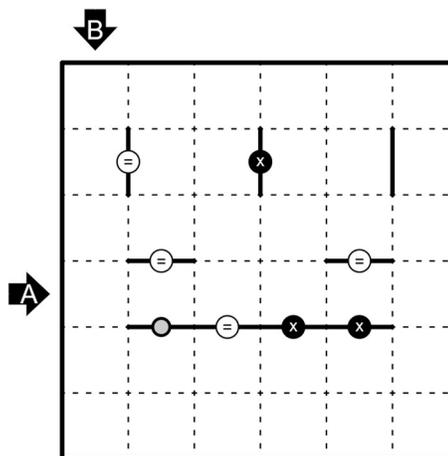
3 + 5 + 3 points

Divide the grid into 1x2 and 1x3 regions. Borders must separate two different regions. Borders with white dots separate regions with the same size and orientation. Borders with black dots separate regions with neither the same size nor the same orientation. Borders with grey dots separate regions with either the same size or the same orientation, but not both.

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

Penpa for example:

<http://logicmastersindia.com/s/0rq-wyd-2js>



21-22 Pentominous [Radar]

3 + 6 points

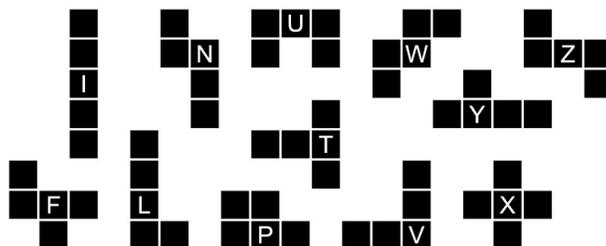
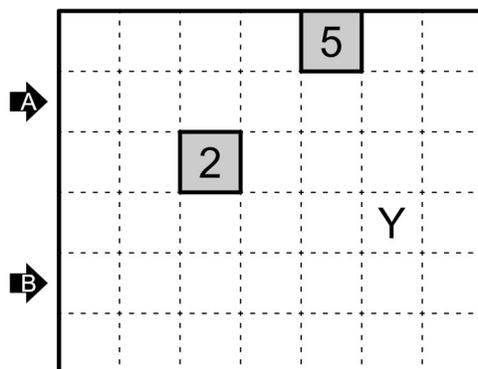
Apply regular 'Pentominous' rules.

Additionally, shaded clued cells must not belong to any region and contain a number indicating how many regions are at least partially in the (up to) eight cells surrounding the clue.

[The puzzles in the contest will be of sizes 9x9 and 10x10. This example is 6x7.]

Penpa for example:

<http://logicmastersindia.com/s/dto-8dq-zmq>



Solutions

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

The keys are given section by section.

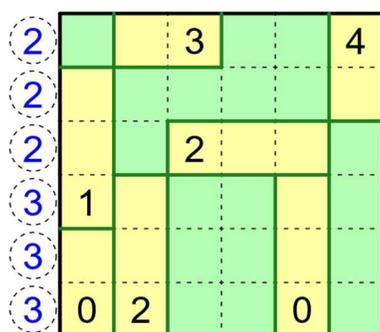
Tren, Tren [No Four In a Row] – For each row from top to bottom, enter the number of blocks occupying at least one cell in that row.

Arrow Flow – For each row from top to bottom, enter the number of vertical arrows, i.e. arrows pointing up and arrows pointing down.

Regional Polyominoes – For each marked row/column, enter the number of consecutive shaded and unshaded cells in the direction of the arrow. Use unit's digit for double digit values.

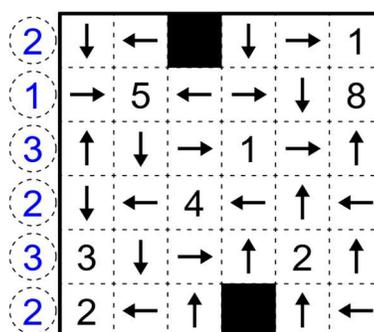
Double Choco, Pentominous, Voxas, Pentominous [Radar] – For each marked row/column, enter the number of consecutive cells belonging to separate regions in the direction of the arrow. Use unit's digit for double digit values.

Tren



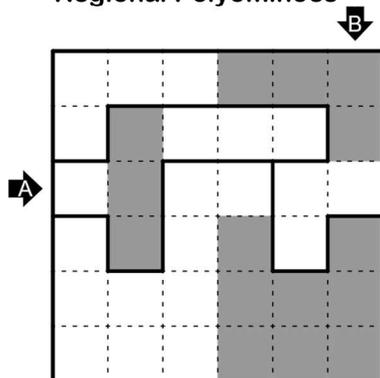
Key: 222333

Arrow Flow



Key: 213232

Regional Polyominoes



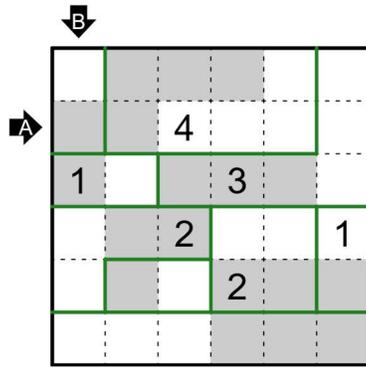
Key: 114, 213

Tren [No Four In a Row]



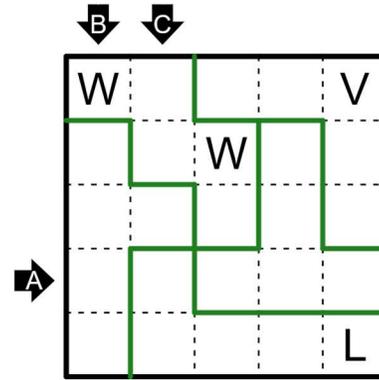
Key: 333122

Double Choco



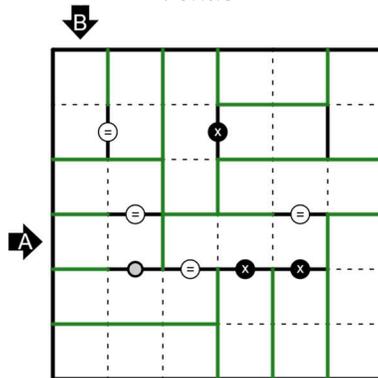
Key: 141, 2121

Pentominous



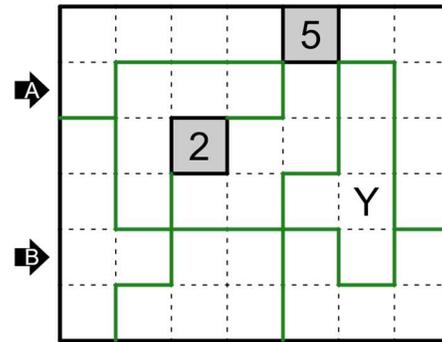
Key: 113, 14, 212

Voxas



Key: 231, 21111

Pentominous [Radar]



Key: 13111, 22111