

14TH 24 HOURS PUZZLE CHAMPIONSHIP
21-23, MARCH, 2014
HOTEL AMADEUS,
BUDAPEST



PUZZLES BY
PRASANNA SESHADRI



14TH 24 HOURS PUZZLE CHAMPIONSHIP

FEATURES

24 PUZZLES, ASSORTED MIX, MOSTLY THEMED ON 24 HPC.

HINTS FOR EACH PUZZLE.

SOLUTIONS FOR EACH PUZZLE.

PUZZLES BY

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Nanro	80 Points
Turning Fences	95 Points
Toroidal Skyscrapers	85 Points (50 + 35)
Tents	30 Points (15 + 15)
Araf	20 Points
Renban – Frame Sudoku	85 Points
Fillomino	60 Points (25 + 35)
True-False Snake	50 Points
Star Battle	40 Points
Tapa	30 Points (15 + 15)
Masyu	30 Points
Easy As ABC Untouch	45 Points (20 + 25)
Kurotto	55 Points (25 + 30)
Skyscraper Pentomino	80 Points
Word Nurikabe	40 Points
Snake	35 Points
Cave	50 Points
Shakashaka	90 Points
Total	1000 Points

ACKNOWLEDGEMENTS

Thanks to Bram De Laat, Tiit Vunk and Ivan Adrian Koswara for testing and feedback.



NANRO
 80 POINTS

Place numbers into some of the cells so that no 2x2 area is completely covered by numbers. All numbers in a region must equal to the number of numbers in that region. If two edge-adjacent cells are in different regions, they cannot contain the same number. Finally, the set of all cells containing numbers must occupy a single connected area.

			2		
3					
					5

3		1		1	2
3	1	2	2		2
3		1			5
2	1		1	5	5
2		1		5	
1	2	2	1	5	

TURNING FENCES
 95 POINTS

Draw a single closed loop by connecting dots horizontally and vertically. The numbers in the grid indicate the amount of turns taken on the four dots around it.

2	0				
2				0	
	3		2	2	
1	2		4	4	
			3	2	

2	0				
2				0	
	3		2	2	
1	2		4	4	
			3	2	

TOROIDAL SKYSCRAPERS
 50 + 35 POINTS

Enter a digit from 1 to 5 (1 to 4 in the example) into each **white** cell so that each row and column contains each number exactly once. Each digit in the grid represents the height of a building. Clues with arrows inside the grid indicate how many buildings can be "seen" when looking from that direction. The grid is considered to be "toroidal", i.e. the rows and columns are wrapped around and visibility is assumed. Taller buildings block smaller ones from being seen.

		←4		
			→1	
				→2
←4				

2	1	←4	4	3
1	3	2	→1	4
3	2	4	1	→2
4		1	3	2
←4	4	3	2	1

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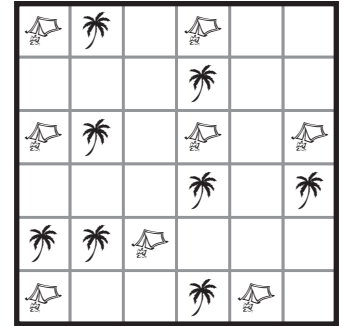
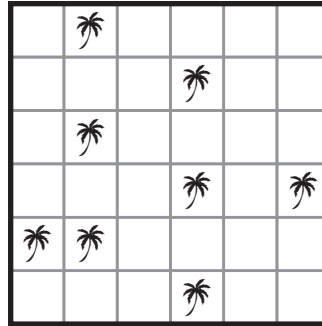


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TENTS

15 + 15 POINTS

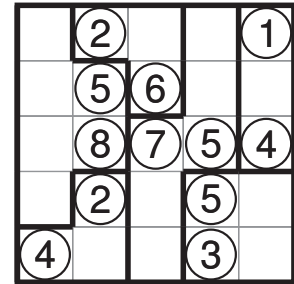
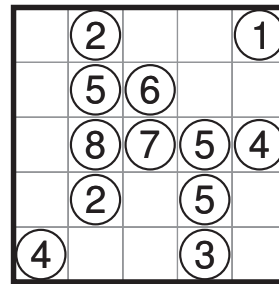
Place a tent horizontally or vertically next to each tree. Tents do not touch each other, not even diagonally.



ARAF

20 POINTS

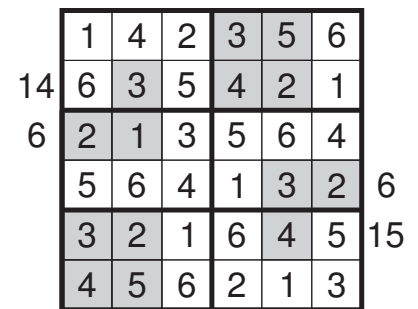
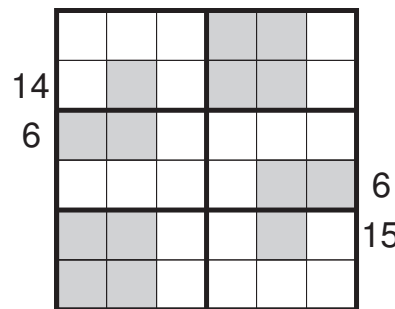
Divide the grid into connected regions so that each of these regions contains exactly two numbers. The area of a region should be strictly between the two values given by the two numbers in that region.



RENBAN-FRAME SUDOKU

85 POINTS

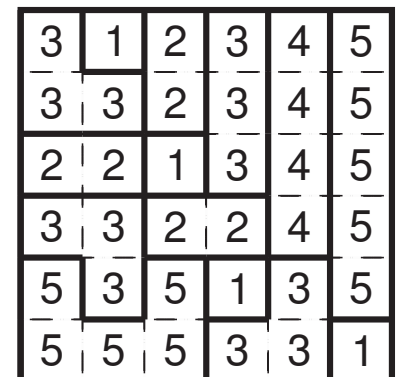
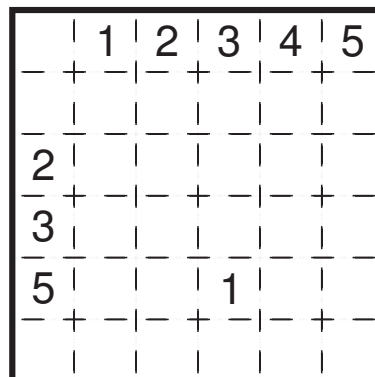
Place digits from 1~9 in each blank cell so that every row, every column, and every outlined region has distinct digits. The shaded groups contain a set of consecutive digits. The number outside gives the sum of the first 3 digits in that direction.



FILLOMINO

25 + 35 POINTS

Divide the grid into different regions along the gridlines. No two regions of the same size can touch each other by a side. Numbers in the grid indicate that this cell is part of a region of that size. A region can contain more than one given number. There can be regions without any given numbers.

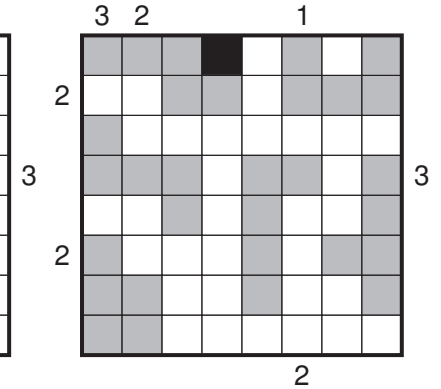
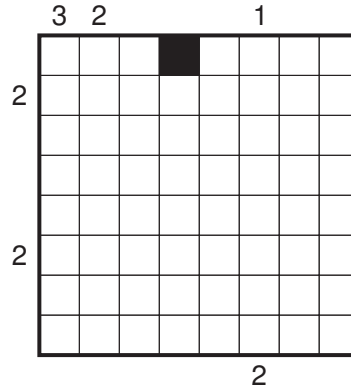




SKYSCRAPER PENTOMINO

80 POINTS

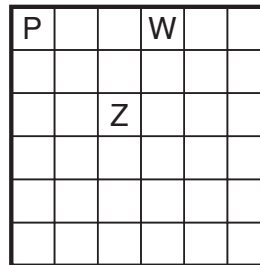
Place all 12 pentominos into the grid, they can be rotated and/or reflected but they cannot touch each other, not even diagonally. No pentomino can be placed onto black cells. For any row/column, a contiguous segment of N cells containing pentomino parts is considered to be a building of height N. Numbers outside the grid indicate the number of segments that are visible from that direction given that height definition. Buildings (segments) of length N block visibility of all other buildings (segments) of length N or below that are behind them.



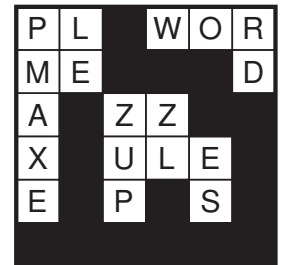
WORD NURIKABE

40 POINTS

Place the given words into the grid so that they are readable in horizontally and vertically consecutive cells. Different words do not touch each other by side but they can touch diagonally. The remaining cells form a single connected shape that cannot have any 2x2 area anywhere. One letter from each word is given.



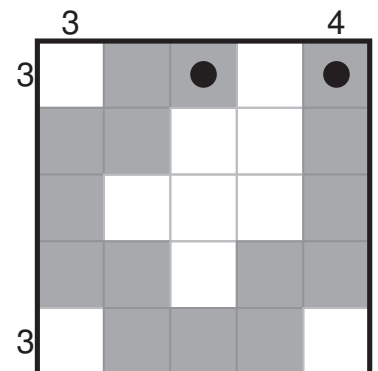
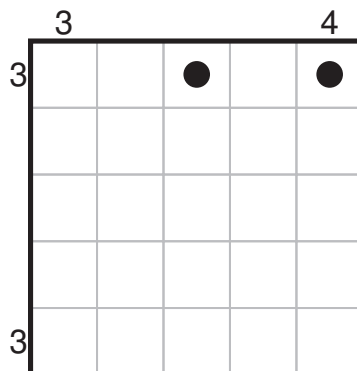
Word
 Puzzles
 Example



SNAKE

35 POINTS

Locate a snake in the grid, whose head and tail are given. The snake does not touch itself even at a point. Numbers outside the grid indicate lengths of snake segments in the corresponding direction.



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CAVE
 50 POINTS

Draw a closed loop over the grid lines. The loop goes around all numbers. The numbers in the grid indicate how many cells inside the loop can be seen horizontally and vertically from that cell, including the cell itself.

	4				7
4				5	
		13			
			3		5
	3				
				8	

	4				7
4				5	
		13			
			3		5
	3				
				8	

SHAKASHAKA
 90 POINTS

Colour triangles in some squares so that the remaining white spaces are all shaped like rectangles. The triangles have to split a square into two equal size right angled triangles. The numbers in the black squares indicate how many of the four adjacent squares are to be coloured with a triangle.

⬆	⬆	⬆	⬆	2	⬆
1	⬆	⬆	⬆	⬆	2
⬆	⬆	⬆	⬆	⬆	⬆
⬆	⬆	⬆	⬆	⬆	⬆
⬆	⬆	⬆	⬆	⬆	0

⬆	⬆	⬆	⬆	2	⬆
1	⬆	⬆	⬆	⬆	2
⬆	⬆	⬆	⬆	⬆	⬆
⬆	⬆	⬆	⬆	⬆	⬆
⬆	⬆	⬆	⬆	⬆	0