

Logic Puzzle Book

Sample pages

Your Pen Name

Contents

How to solve

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Every puzzle in this book has exactly one solution. The Verification report at the back shows how each one was checked.

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How to solve

Sudoku

Fill the grid so that every row, every column and every 3 x 3 box contains each number from 1 to 9 exactly once.

The bold numbers are given. Every puzzle has exactly one solution and can be solved by logic alone.

Killer Sudoku

Every row, every column and every box holds each number once: 1 to 6 on a 6 x 6 grid, 1 to 9 on a 9 x 9 grid. A box is the area inside the thicker lines.

The cells inside each dotted cage add up to the small total in its corner, and no number repeats inside a cage. No numbers are given at the start.

Masyu

Draw one loop through the centres of the cells, moving across or down, that passes through every circle. The loop never crosses itself or visits a cell twice.

At a white circle the loop goes straight through and turns in the cell just before or just after it. At a black circle the loop turns and goes straight through both neighbouring cells. Cells without a circle may be left out.

Slitherlink

Draw one closed loop along the grid lines, with no branches and no crossings.

A number tells how many of the four sides of its cell the loop runs along. Cells without a number can have any count.

Nurikabe

Shade cells to form the sea. Every number belongs to one island of exactly that many unshaded cells, its own cell included, and each island holds one number.

Islands never touch side by side. All shaded cells form one connected sea, and no 2 x 2 block is entirely shaded.

Star Battle

Place two stars in every row, every column and every outlined region.

Stars never touch each other, not side by side and not diagonally.

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Puzzle 1

Sudoku · Easy · 9 x 9

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

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Puzzle 2

Killer Sudoku · Easy · 6 x 6

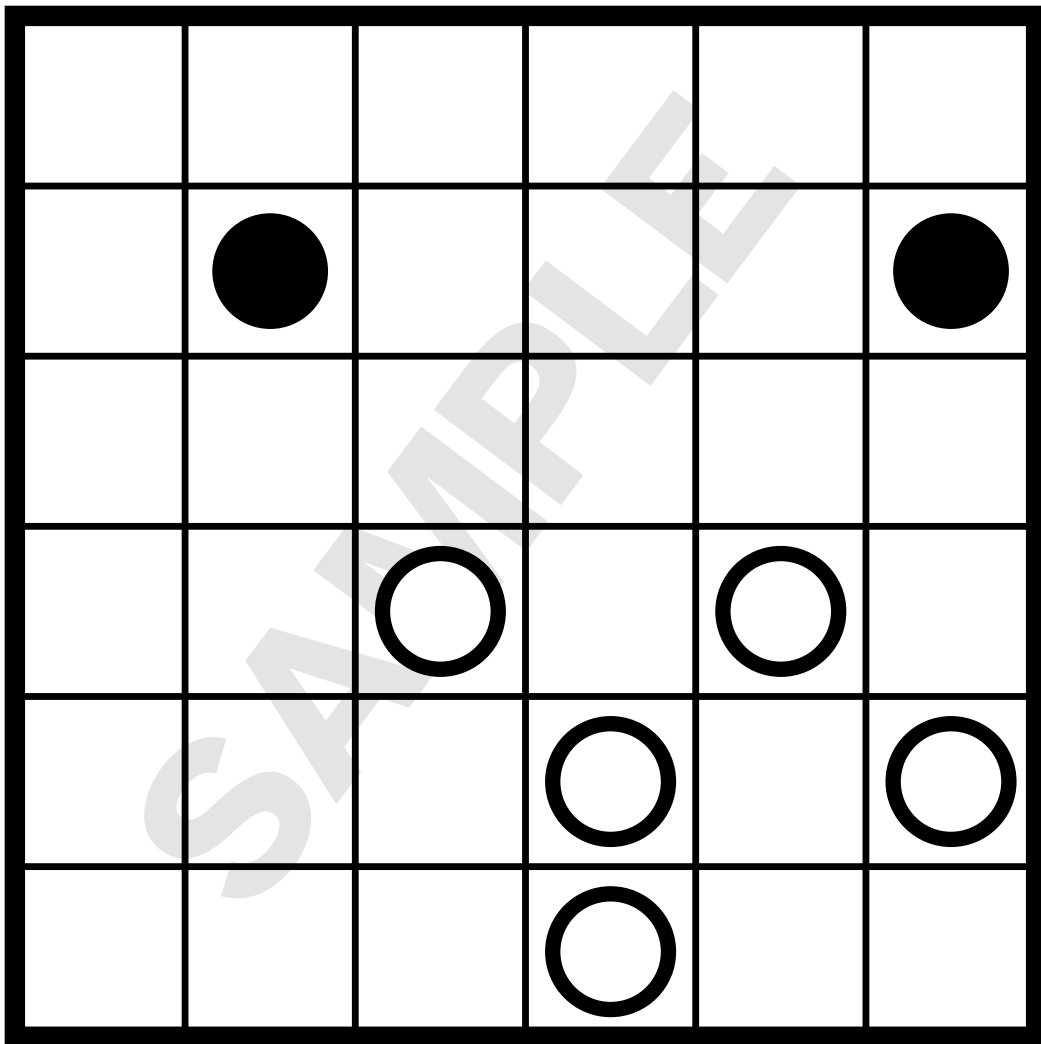
6		18	14		
15					5
	11		8		
		9		6	
10			10		
		14			

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Puzzle 3

Masyu · Easy · 6 x 6

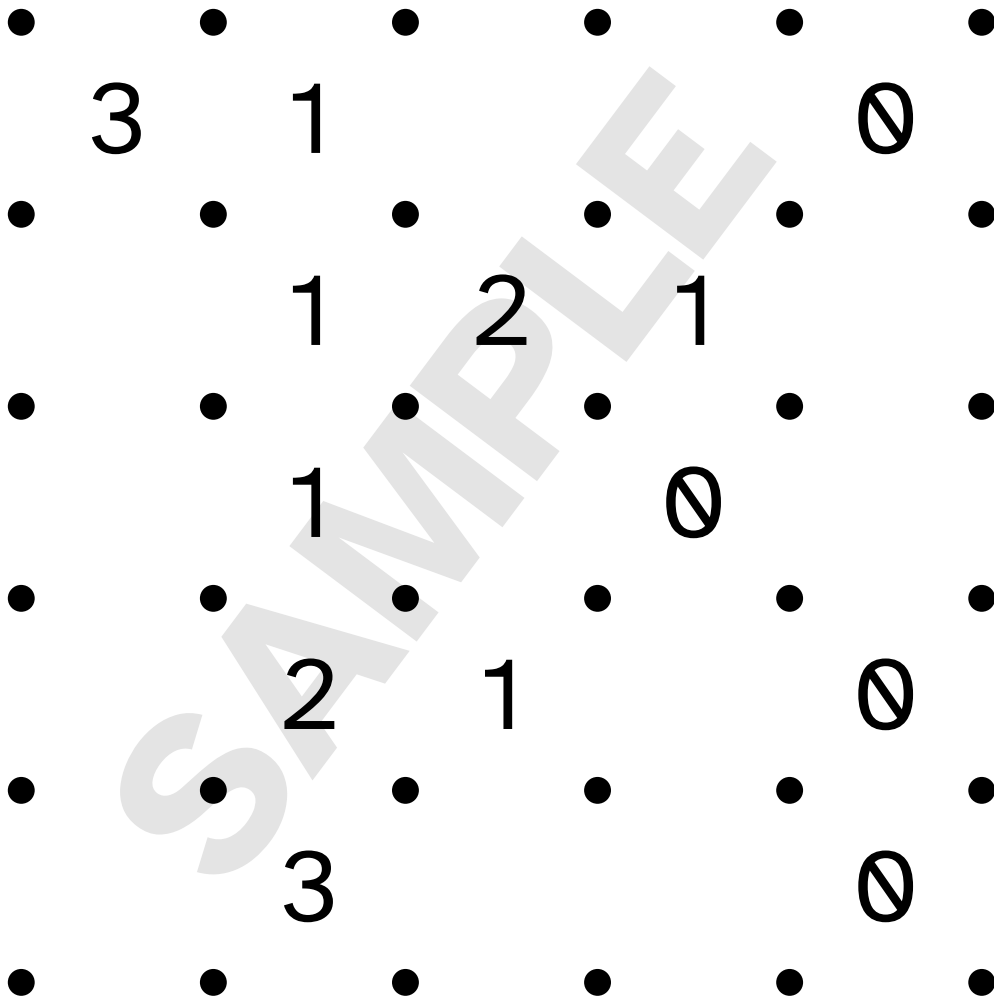
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Puzzle 4

Slitherlink · Easy · 5 x 5



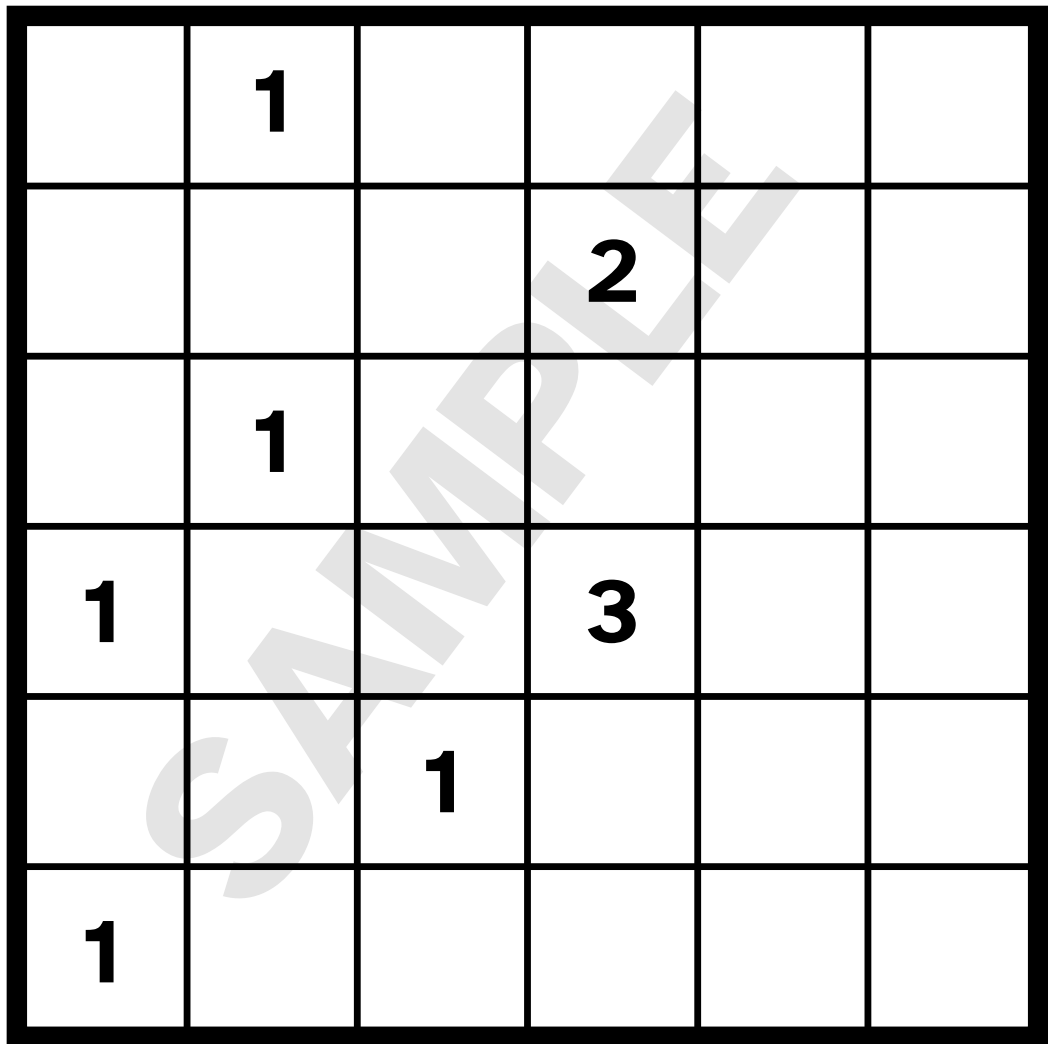
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Puzzle 5

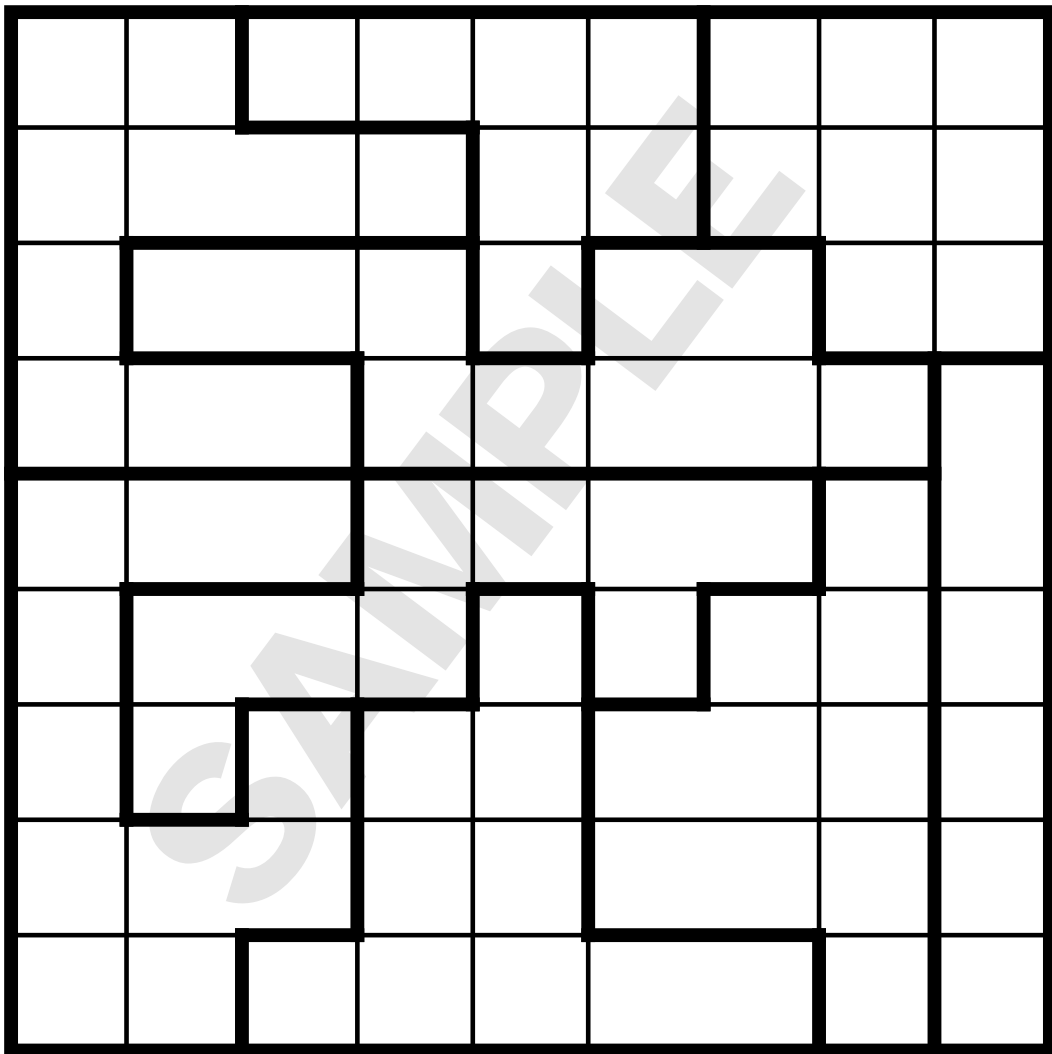
Nurikabe · Easy · 6 x 6

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Puzzle 6

Star Battle · Easy · 9 x 9

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Puzzle 7

Sudoku · Hard · 9 x 9

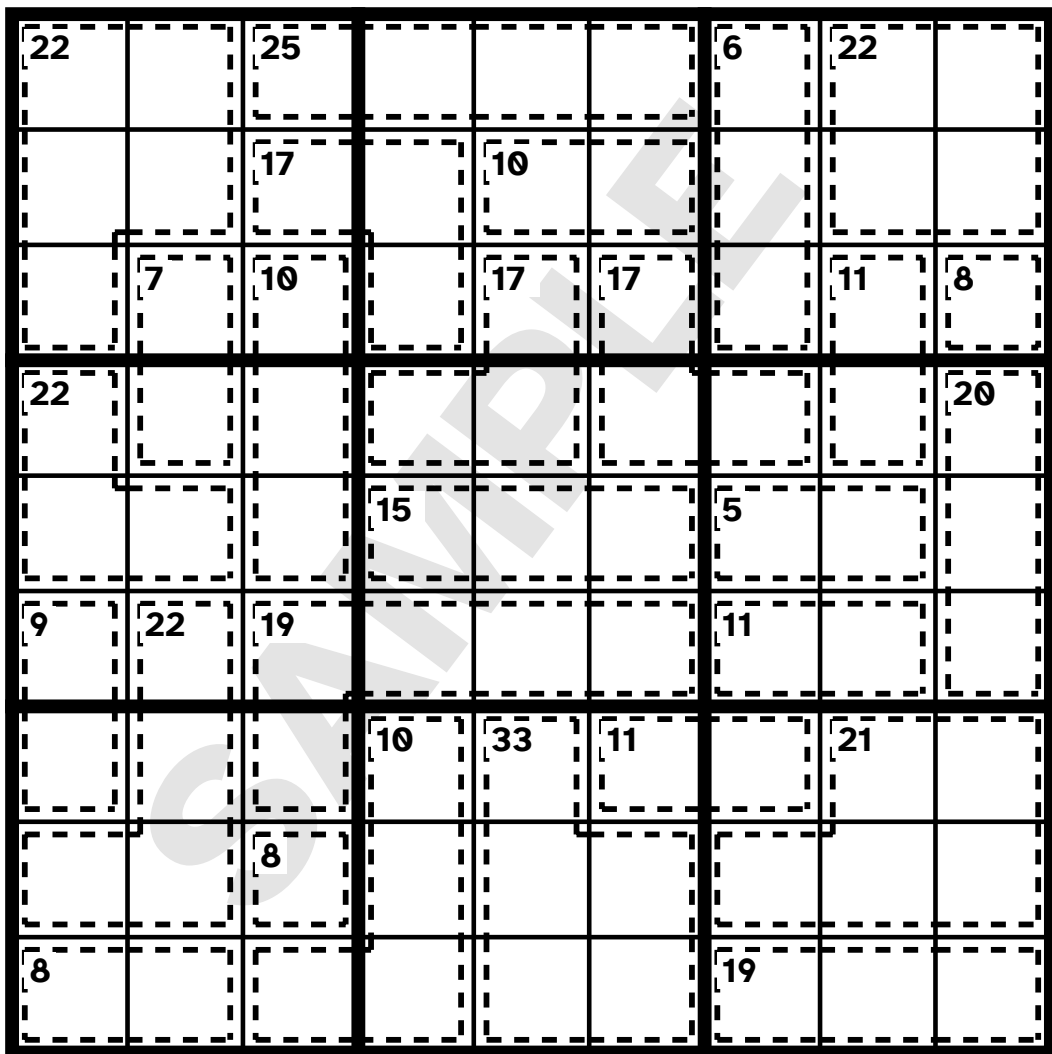
2	9	5						
1				2		5	6	9
			9					
			1	8			3	2
			6	4				
3		1						7
		2		1		4	5	6
				5				
	8	7					2	

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Puzzle 8

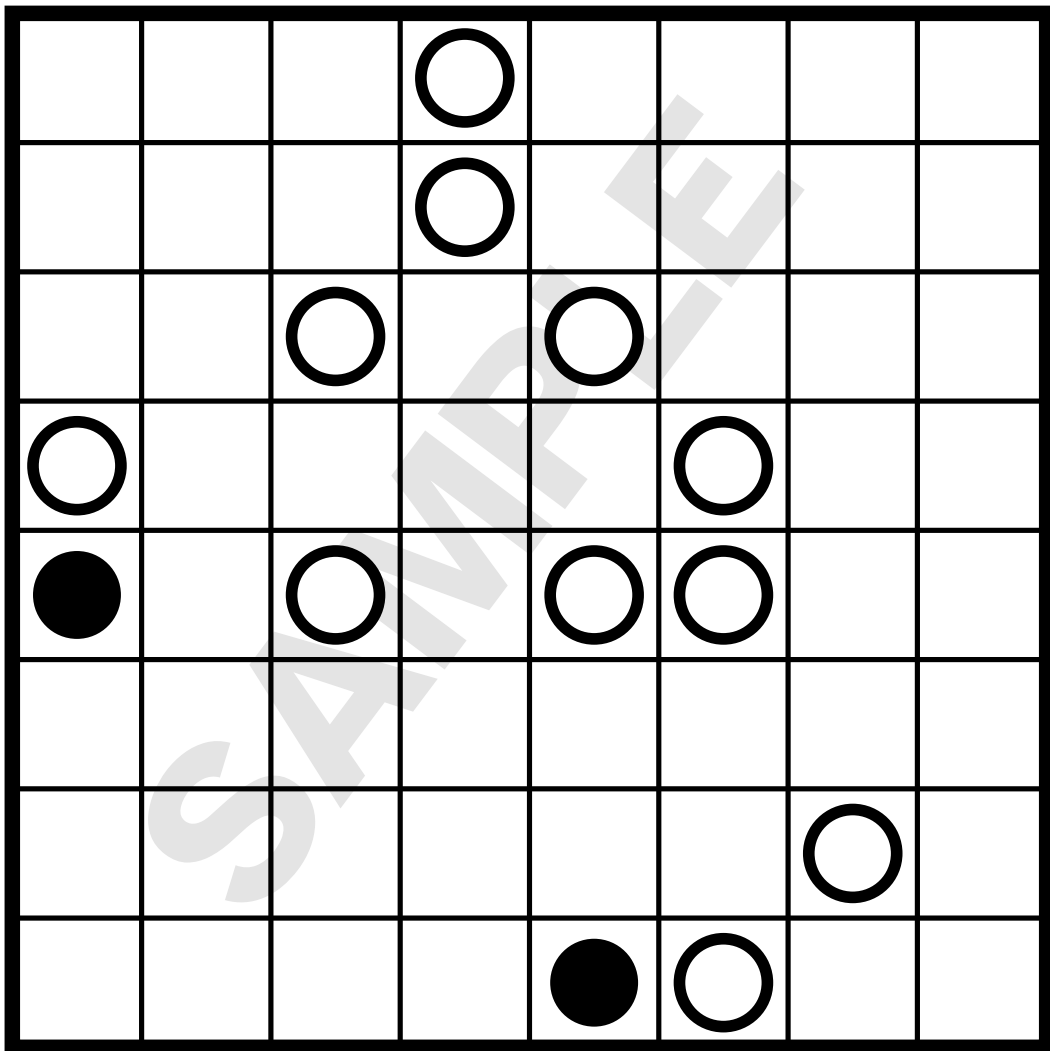
Killer Sudoku · Hard · 9 x 9

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Puzzle 9

Masyu · Hard · 8 x 8

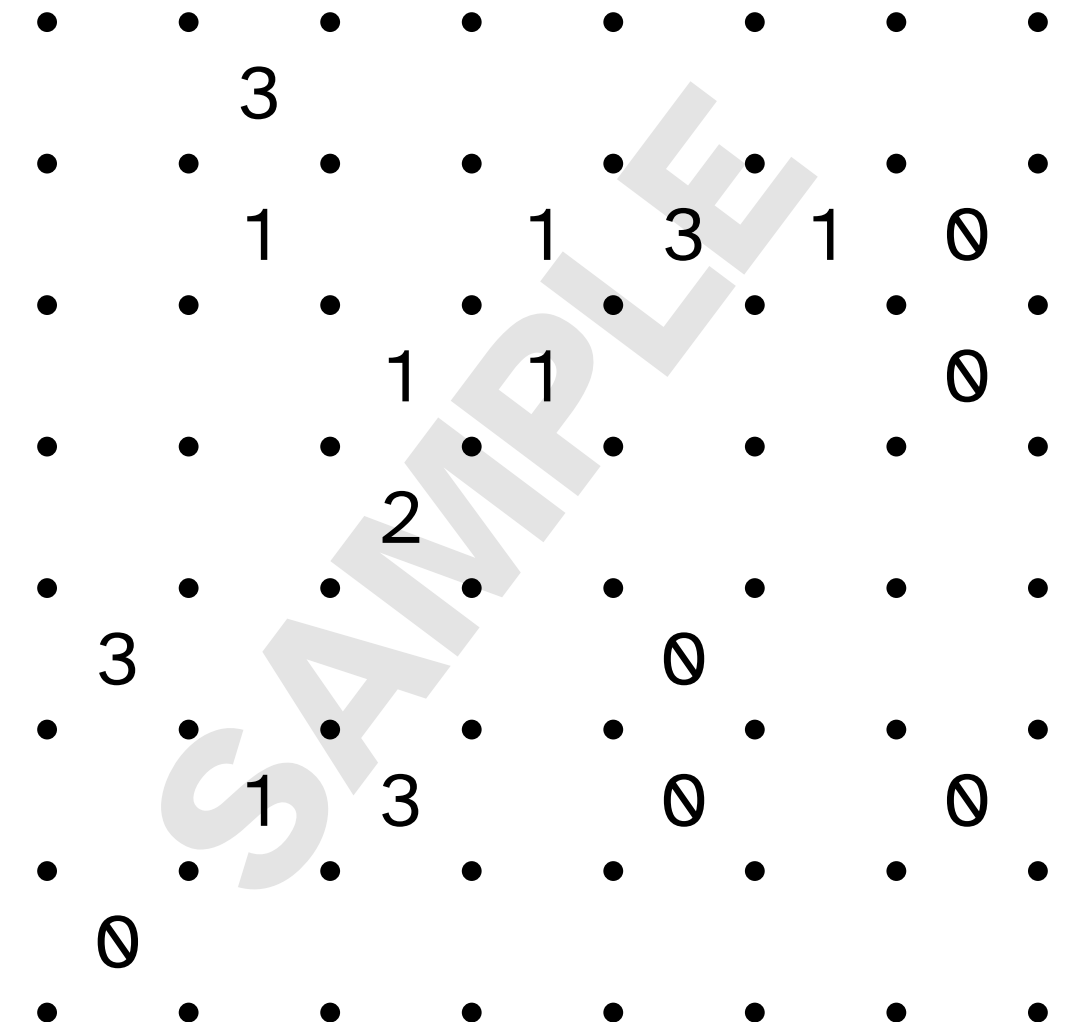
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Puzzle 10

Slitherlink · Hard · 7 x 7



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Puzzle 11

Nurikabe · Hard · 10 x 10

1			2			1			
					1		6		
1			2			1			
					2				
	1		1			1			
	1		1		1		1		
									1
	1		1		1		1		
									1

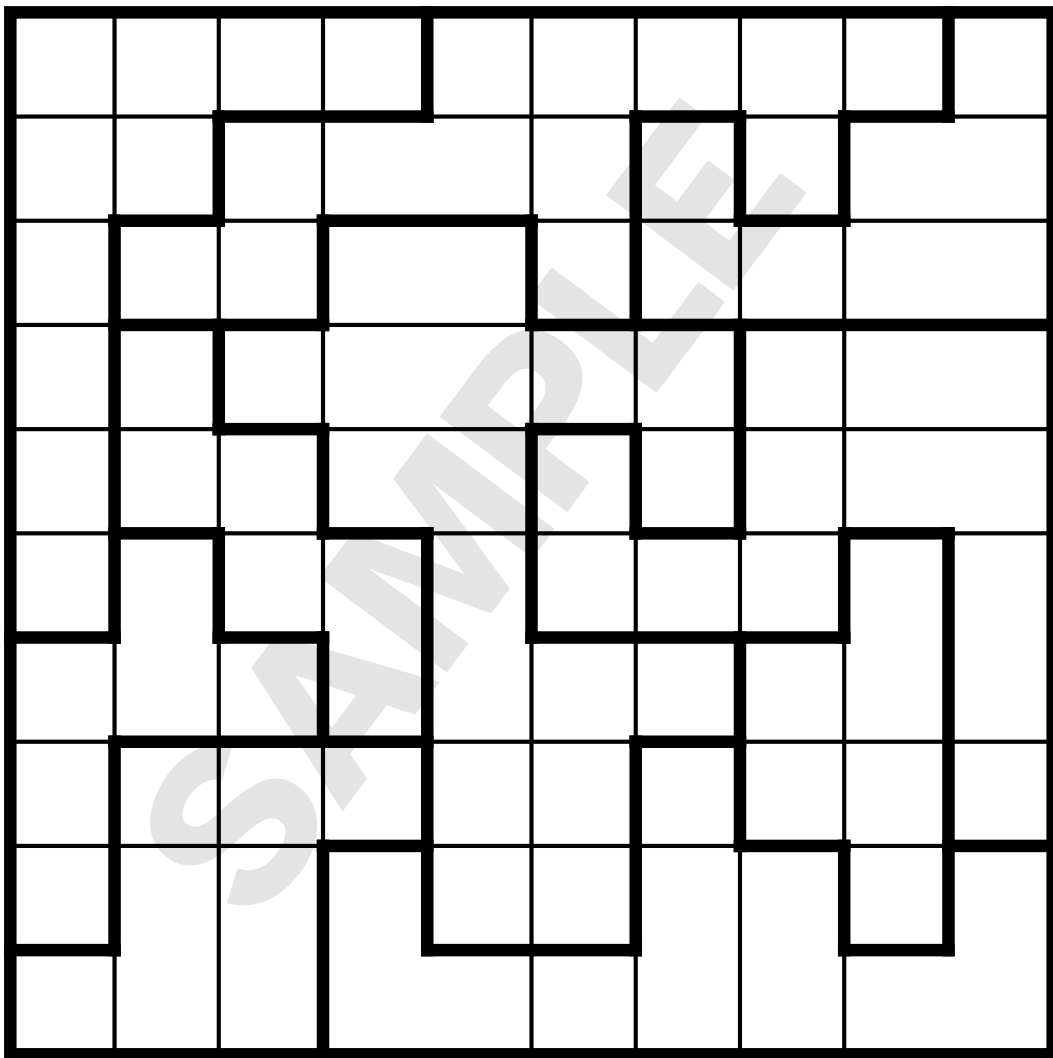
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Puzzle 12

Star Battle · Hard · 10 x 10



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Sudoku · Easy · 9 x 9

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

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Solution 2

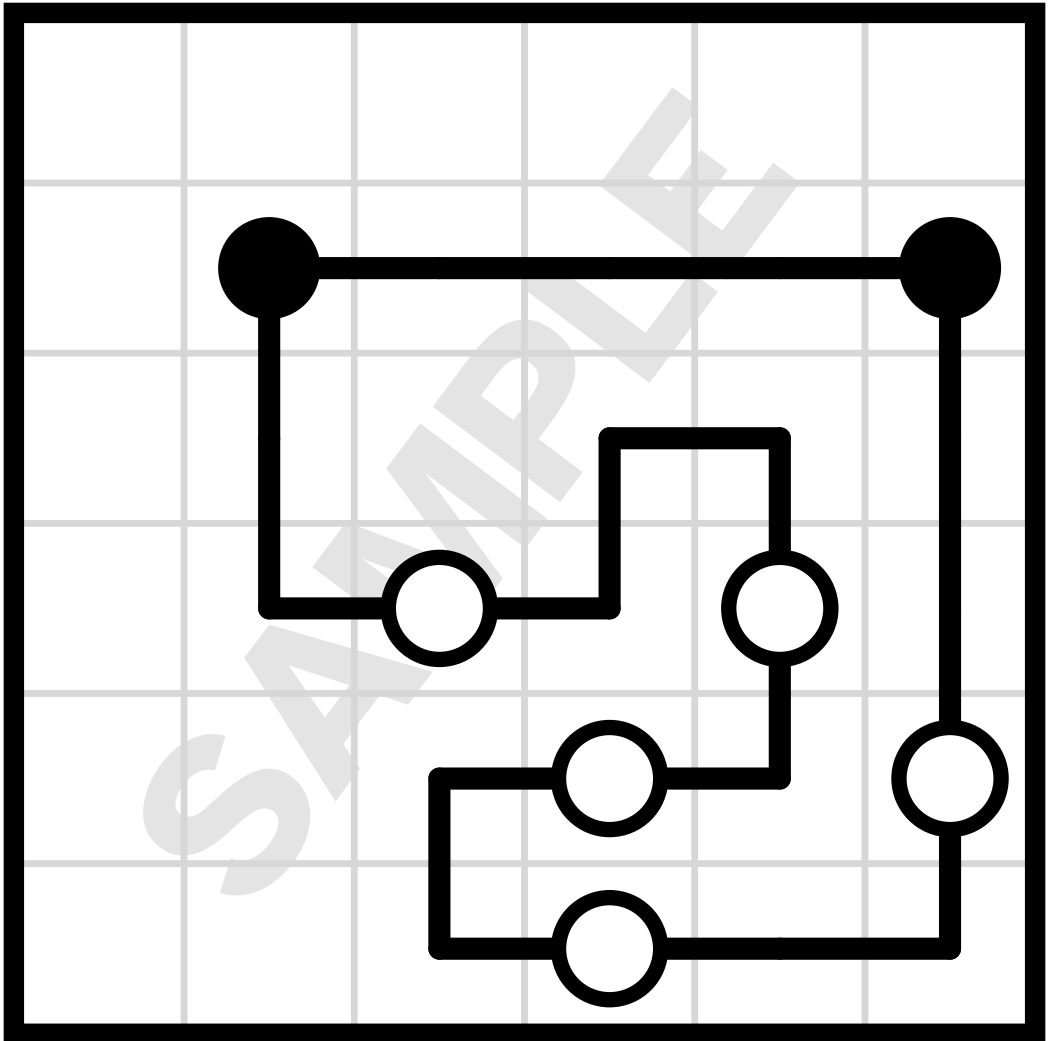
Killer Sudoku · Easy · 6 x 6

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

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Masyu · Easy · 6 x 6

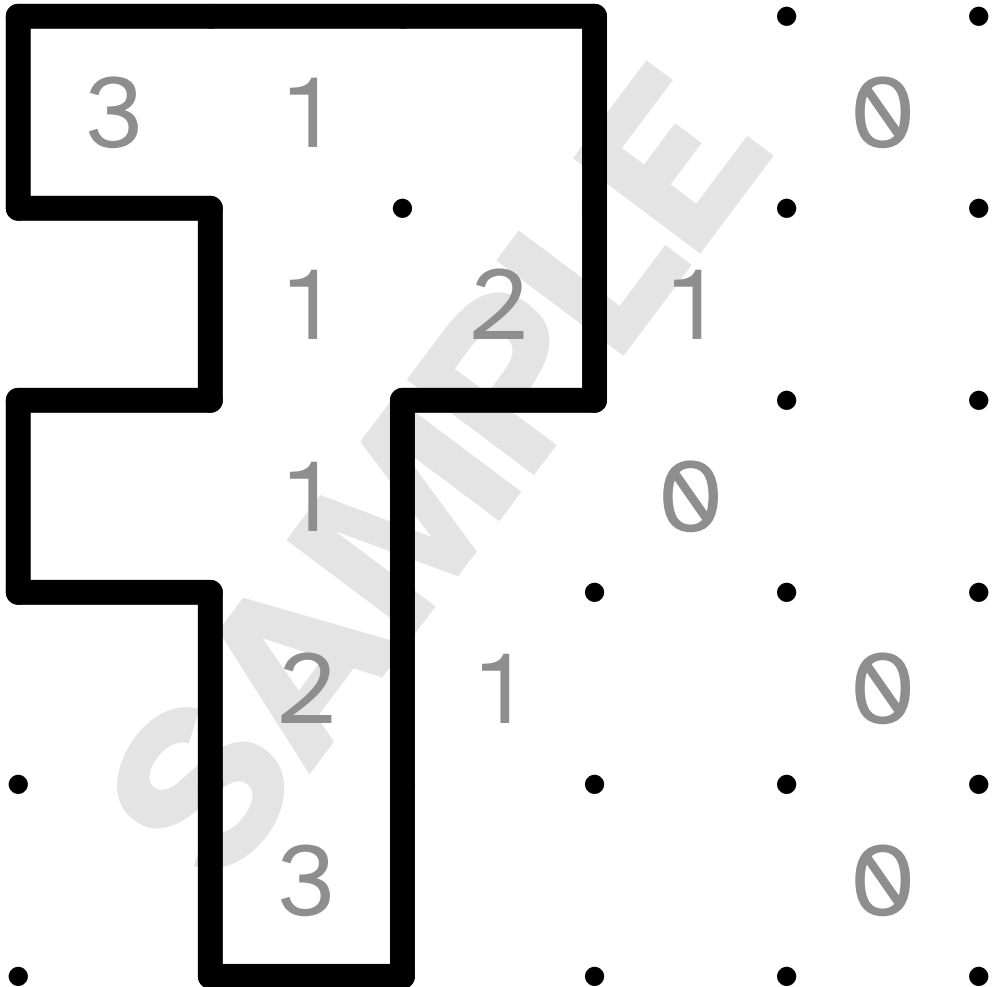
Masyu · Easy · 6 x 6



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Solution 4

Slitherlink · Easy · 5 x 5

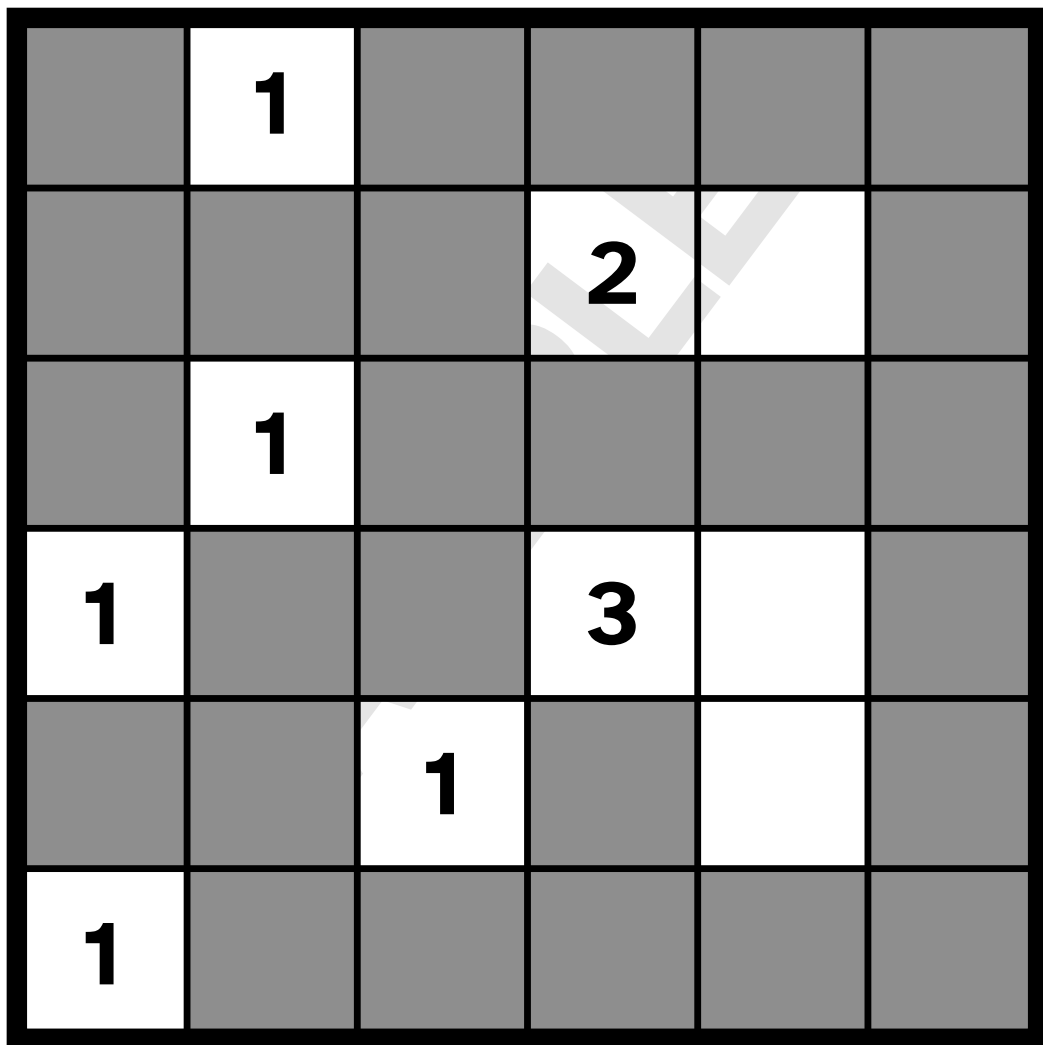


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Solution 5

Nurikabe · Easy · 6 x 6



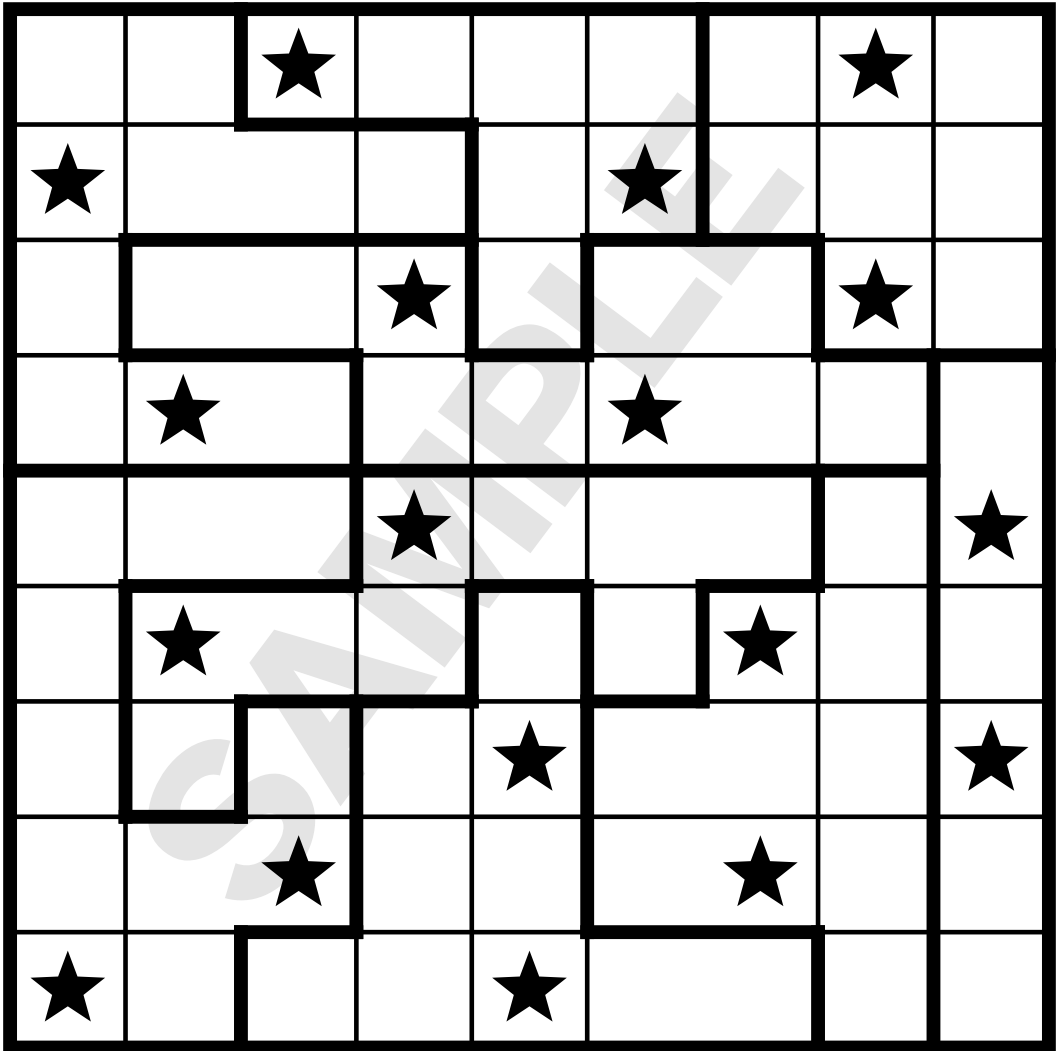
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Star Battle · Easy · 9 x 9



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Solution 7

Sudoku · Hard · 9 x 9

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

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Solution 8

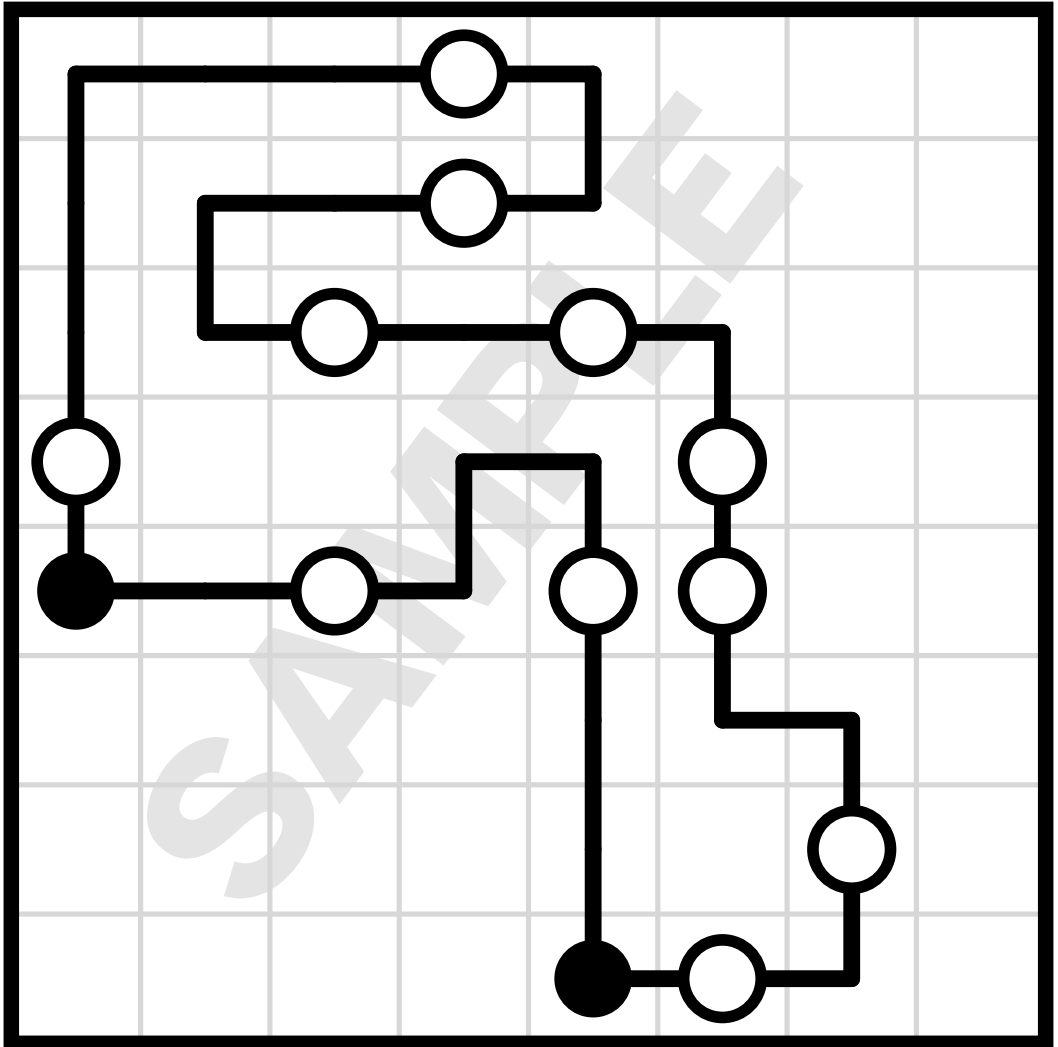
Killer Sudoku · Hard · 9 x 9

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

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Solution 9

Masyu · Hard · 8 x 8

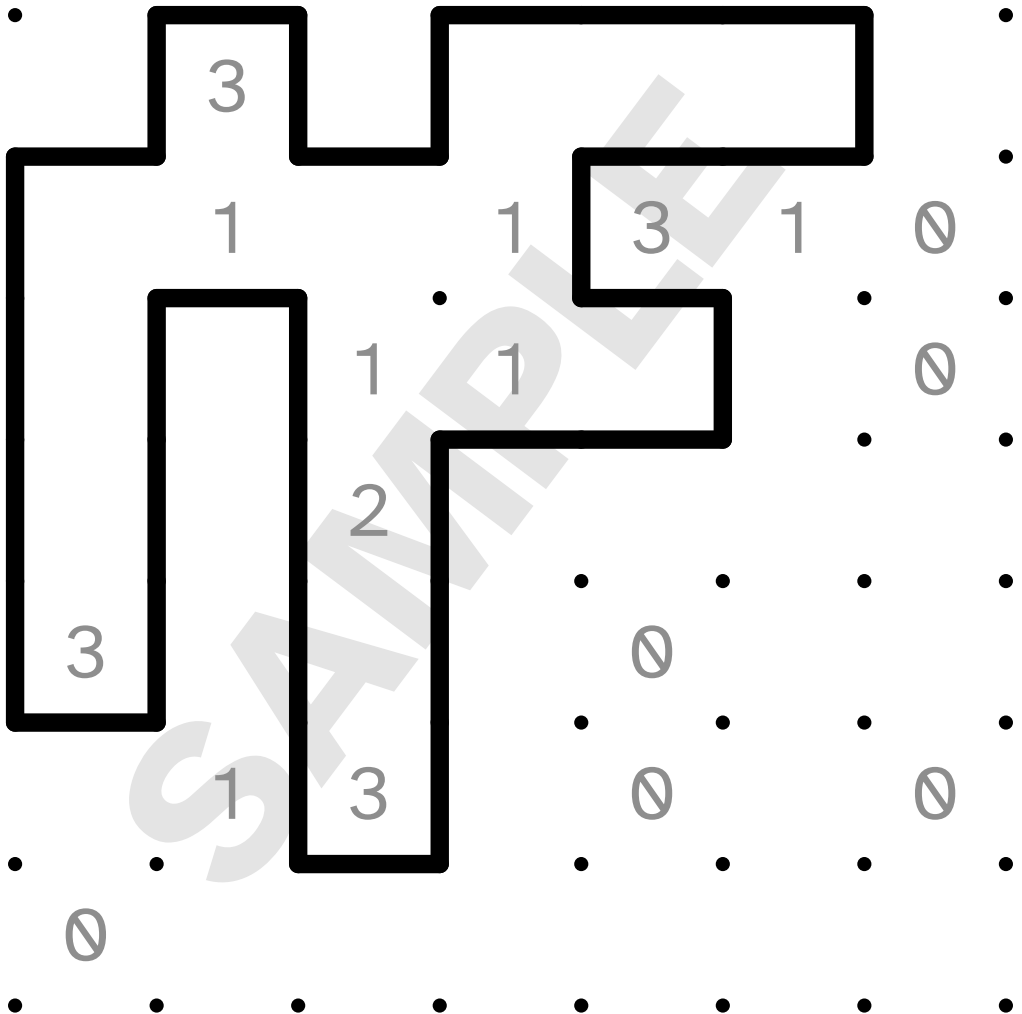


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Solution 10

Slitherlink · Hard · 7 x 7



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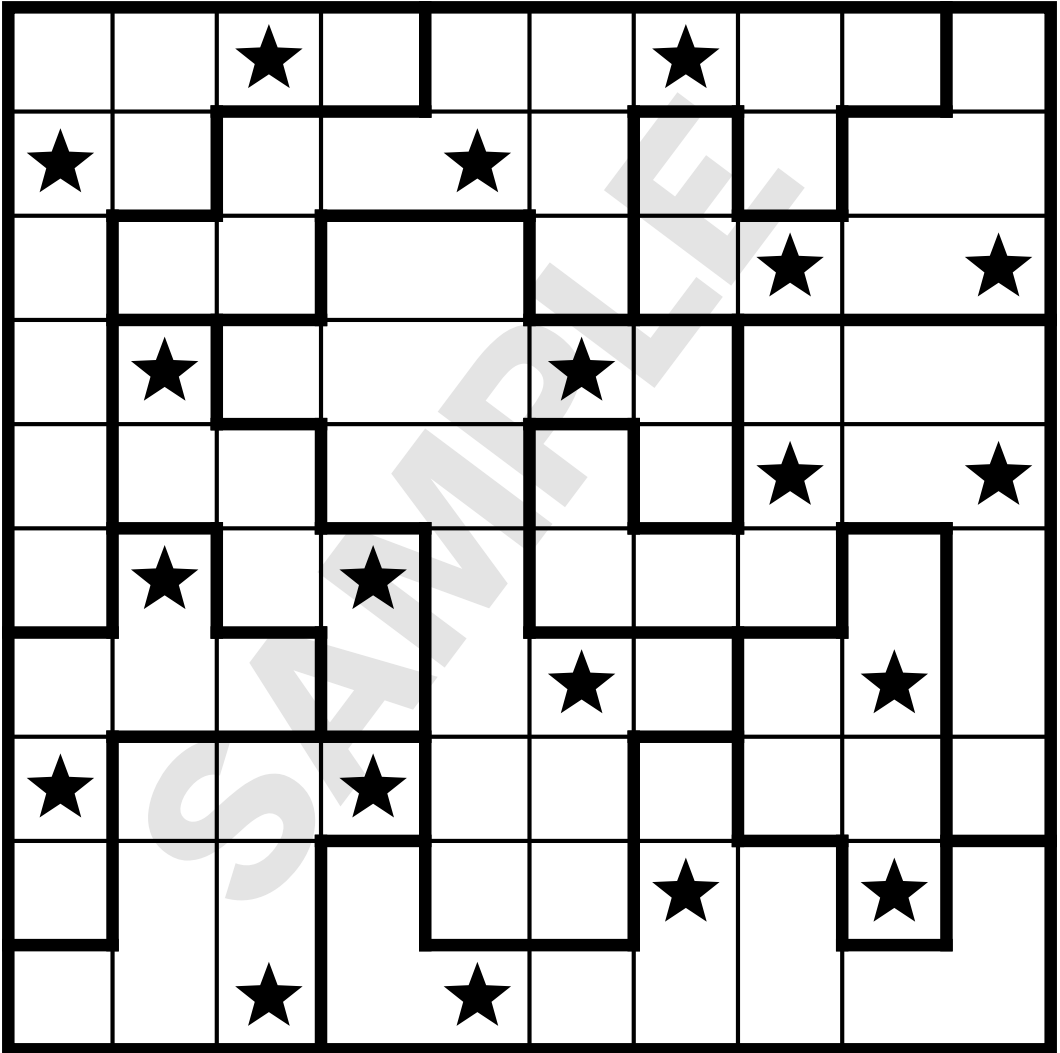
Solution 11

Nurikabe · Hard · 10 x 10

1			2			1			
					1			6	
1			2				1		
					2				
	1		1				1		
	1		1		1		1		
									1
	1		1		1		1		
									1

Solution 12

Star Battle · Hard · 10 x 10



Verification report

Every puzzle in this book was checked by a computer solver before it was printed. Solutions: what a complete search found. It stops as soon as it finds a second solution, so 1 means exactly one. Solver: how a step-by-step solver that uses only rules a person can apply finished the puzzle, and in how many steps. A what-if is a check that tries one value and reaches a contradiction straight away, never a blind guess. Two-star Star Battle has no step-by-step solver yet, so for those puzzles the complete search is the proof (search only).

No.	Puzzle	Solutions	Solver
1	Sudoku, Easy, 9 x 9	1	logic, 43 steps
2	Killer Sudoku, Easy, 6 x 6	1	logic, 36 steps
3	Masyu, Easy, 6 x 6	1	logic, 40 steps
4	Slitherlink, Easy, 5 x 5	1	logic, 43 steps
5	Nurikabe, Easy, 6 x 6	1	logic, 13 steps
6	Star Battle, Easy, 9 x 9	1	search only
7	Sudoku, Hard, 9 x 9	1	logic, 54 steps
8	Killer Sudoku, Hard, 9 x 9	1	logic, 81 steps, 7 what-if
9	Masyu, Hard, 8 x 8	1	logic, 54 steps, 4 what-if
10	Slitherlink, Hard, 7 x 7	1	logic, 91 steps, 14 what-if
11	Nurikabe, Hard, 10 x 10	1	logic, 35 steps, 2 what-if
12	Star Battle, Hard, 10 x 10	1	search only