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Printable PDF Booklet

# XY-Chain Practice Sudoku

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates

Every puzzle in this booklet is filtered to require XY-Chain. It is designed for solvers who want deliberate, targeted practice on paper.

DIFFICULTY  
Custom / Custom

LAYOUT  
4 Puzzles Per Page

TECHNIQUE  
XY-Chain

CANDIDATES  
Included

ANSWER KEY  
Included at the end

GENERATED  
Apr 12, 2026

PAPER  
A4 / US Letter

*You are welcome to share this booklet freely.*

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## HINT SUPPORT

Need a logical hint? Every booklet here uses the same Puzzle IDs as **sudokupuzzle.org**. Open that site, enter your Puzzle ID in the "Start Game" dialog, and launch the solver for a clean step-by-step walkthrough. For more printable layouts and levels, visit **sudokuprintout.com**.

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#1 (ID: #201157)

SCORE: 306

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, XYZ-Wing, 2-String Kite, 3 Strong Links, 4 Strong Links, XY-Chain

#2 (ID: #22605)

SCORE: 262

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, XY-Wing, Skyscraper, Grouped Turbot Crane, XY-Chain

#3 (ID: #265352)

SCORE: 242

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Naked Triples, WXYZ-Wing, 3 Strong Links, XY-Chain

#4 (ID: #24541)

SCORE: 314

STEPS: 73

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XY-Wing, XYZ-Wing, WXYZ-Wing, XY-Chain, Unique Rectangle Type 4

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#5 (ID: #350398)

SCORE: 192

STEPS: 65

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, 2-String Kite, Skyscraper, XY-Chain

#6 (ID: #232827)

SCORE: 169

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Chain

#7 (ID: #243574)

SCORE: 212

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Wing, 2-String Kite, XY-Chain

#8 (ID: #128855)

SCORE: 212

STEPS: 63

Level 7

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

Techs: Naked Single, Hidden Single, Hidden Pairs, XY-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain, Unique Rectangle Type 1

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#9 (ID: #361738)

SCORE: 235

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, WXYZ-Wing, 2-String Kite, Grouped Turbot Crane, XY-Chain, Unique Rectangle Type 2

#10 (ID: #141829)

SCORE: 219

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, X-Wing, Skyscraper, XY-Chain

#11 (ID: #230525)

SCORE: 427

STEPS: 76

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, XY-Chain

#12 (ID: #261980)

SCORE: 356

STEPS: 72

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, X-Wing, XY-Wing, 2-String Kite, Skyscraper, XY-Chain

💡 Stuck? Enter the Puzzle ID at [sudoku-puzzle.org](http://sudoku-puzzle.org) for step-by-step logical hints.

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#13 (ID: #49995)

SCORE: 249

STEPS: 67

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, VWXYZ-Wing, 2-String Kite, Grouped 2-String Kite, Grouped Turbot Crane, XY-Chain, Unique Rectangle Type 4

#14 (ID: #473287)

SCORE: 203

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, Skyscraper, XY-Chain

#15 (ID: #348782)

SCORE: 210

STEPS: 67

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, Hidden Triples, XY-Chain

#16 (ID: #535705)

SCORE: 283

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, XY-Chain

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#17 (ID: #383277)

SCORE: 138

STEPS: 61

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, XY-Chain

#18 (ID: #535708)

SCORE: 300

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, XY-Chain

#19 (ID: #535707)

SCORE: 283

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, XY-Chain

#20 (ID: #438539)

SCORE: 386

STEPS: 76

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XY-Wing, XYZ-Wing, XY-Chain

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#21 (ID: #155590)

SCORE: 162

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Chain

#22 (ID: #236634)

SCORE: 289

STEPS: 69

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, X-Wing, 2-String Kite, Skyscraper, Turbot Fish, XY-Chain

#23 (ID: #158646)

SCORE: 193

STEPS: 63

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, XYZ-Wing, 2-String Kite, Grouped 2-String Kite, XY-Chain

#24 (ID: #206470)

SCORE: 419

STEPS: 73

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, XY-Chain, BUG (Bivalve Universal Grave)

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#1 (ID: #201157)

SCORE: 306

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, XYZ-Wing, 2-String Kite, 3 Strong Links, 4 Strong Links, XY-Chain

#2 (ID: #22605)

SCORE: 262

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, XY-Wing, Skyscraper, Grouped Turbot Crane, XY-Chain

#3 (ID: #265352)

SCORE: 242

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Naked Triples, WXYZ-Wing, 3 Strong Links, XY-Chain

#4 (ID: #24541)

SCORE: 314

STEPS: 73

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XY-Wing, XYZ-Wing, WXYZ-Wing, XY-Chain, Unique Rectangle Type 4

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#5 (ID: #350398)

SCORE: 192

STEPS: 65

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, 2-String Kite, Skyscraper, XY-Chain

#6 (ID: #232827)

SCORE: 169

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Chain

#7 (ID: #243574)

SCORE: 212

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Wing, 2-String Kite, XY-Chain

#8 (ID: #128855)

SCORE: 212

STEPS: 63

Level 7

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

Techs: Naked Single, Hidden Single, Hidden Pairs, XY-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain, Unique Rectangle Type 1

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

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#9 (ID: #361738)

SCORE: 235

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, WXYZ-Wing, 2-String Kite, Grouped Turbot Crane, XY-Chain, Unique Rectangle Type 2

#10 (ID: #141829)

SCORE: 219

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, X-Wing, Skyscraper, XY-Chain

#11 (ID: #230525)

SCORE: 427

STEPS: 76

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, XY-Chain

#12 (ID: #261980)

SCORE: 356

STEPS: 72

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, X-Wing, XY-Wing, 2-String Kite, Skyscraper, XY-Chain

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#13 (ID: #49995)

SCORE: 249

STEPS: 67

Level 7

2 3	2 3	2 3	1 3	3 1 3	1 2 3	1 2		<b>8</b>
4 5		4 5	4	4 5 6	4 5 6	6		
7 9	9	7 9	9	9	9	7 9	7 9	
5 3	<b>6</b>	<b>1</b>	3	5 3	<b>2</b>	<b>4</b>		3
7 8 9			8 9	8 9		7 9	9	
2 3	2 3	2 3	7	3 1 3	1 2	3		3
4	4	4	4 6 4	6 5	6 5	6		6
8 9	8 9	8 9	8 9	8 9	8 9	9		9
3	<b>4</b>	3	3	5 6	6	6		<b>1</b>
8 9		8 9	8 9	8 9	7 9	7 9		
1 2 3	<b>5</b>	<b>6</b>	4 3	7 4 3	2 3	<b>8</b>	4 3	
9			9	9	9	9	9	
2 3	<b>7</b>	2 3	3	4 6 4	2 3	2		<b>5</b>
8 9		8 9	4 8 9	8 9	6 4 6	9		
1 2 3	1 2 3	2 3	<b>6</b>	3 1 3	1	1	4	
4 5	4 5	4 5	4	4 4	4 5	4 5	4	
7 8 9	7 8 9	7 8 9	7 8 9	7 8 9	9	9	9	
1 3	1 3	3	<b>5</b>	3 1 3	1	1		<b>2</b>
4 6	4		4	4 4	6 4	6		
7 8 9	8 9	7 8 9	8 9	7 8 9	9	9		
1 2	1 2	2	1 2	1	<b>8</b>	<b>3</b>		<b>7</b>
4 5 6	9	4 5	4	4				
9		9	9	9				

Techs: Naked Single, Hidden Single, Pointing, VWXYZ-Wing, 2-String Kite, Grouped 2-String Kite, Grouped Turbot Crane, XY-Chain, Unique Rectangle Type 4

#14 (ID: #473287)

SCORE: 203

STEPS: 64

Level 7

4 5 6	4 5 6	<b>7</b>	<b>2</b>	1 4 5	1 4 5	3 1 3	1 3	<b>8</b>
	2 3	3		5 4 5	8 5	6	3	
<b>1</b>	4 5	4 5	9	9	8 9	7	4 5	5
4 5 6	4 5 6	4 5 6	1	5	<b>3</b>	<b>7</b>	6	<b>2</b>
8			8	8				<b>9</b>
5 6	1 5 6	<b>8</b>	1 5	1 2 5	<b>3</b>	<b>4</b>	6	2
7	7 9	7 9	7 9	7 9	7 9	7 9	7 9	6
4 3	1 3	1 3	1	6	1 2	<b>5</b>	3	2 3
7	7 9	4	9	7 8 9	9	7 8 9	7 8 9	
<b>2</b>	3 5 6	3 5 6	<b>4</b>	5 7 8	5 9	<b>1</b>	3 6	3 6
7	7 9	7 9	7 9	7 9	7 9	7 9	7 8 9	6 6
<b>9</b>	1 3 4 5 6	1 3 4 5 6	1 3 5 6	1 2 4 5	1 2 4 5	2 3 6	1 3 5 6	<b>7</b>
3 1 3	1 3	1 3	1 3	1 3	9 8	2 3 1 3	1 3	1 2 3
4 5 6	4 5 6	4 5 6	5 6	5 6	<b>9</b>	<b>8</b>	6 5 6	5 6
7	7	7	7	7	7	7	8	5 6
5 6	<b>8</b>	<b>2</b>	1 3 5 6	1 5	1 5	3 1 3	1 3	<b>4</b>
7			7	7	7	9	5 6 9	5 6 9

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, Skyscraper, XY-Chain

#15 (ID: #348782)

SCORE: 210

STEPS: 67

Level 7

2 3	<b>1</b>	<b>6</b>	2 3	7	2 3	3	3	3
4 5			5			4 5		
8 9			9			8 9		8 9
5 3	5 3	5 3	<b>8</b>	1 3	<b>4</b>	1 3	1 3	<b>2</b>
9	9	9	9	9	9	7 9	5 6	9
2 3	2 3	<b>7</b>	1 2 3	1 3	2 3	1 3	1 3	1 3
4 5	4 5		5	6	6	6	4 5 6	6
8 9	8 9	8 9	9	9	9	9	8 9	8 9
1 2 3	2 3	1 2 3	<b>6</b>	<b>4</b>	<b>8</b>	<b>5</b>	1 3	1 3
7 9	7 9	9	9	9	9	9	9	7 9
1 3	3	1 3	1 3	<b>5</b>	<b>9</b>	<b>8</b>	<b>2</b>	<b>4</b>
6			7					
1 2 3	2 3	1 2 3	1 2 3	1 3	2 3	1 3	1 3	1 3
4 5 6	4 5	4 5	7		7	6	6	6
7 8 9	7 8 9	8 9				7 9	9	7 9
1 3	3	1 3	<b>9</b>	<b>2</b>	<b>5</b>	1 3	1 3	1 3
4	4	4				6	6	6
7 8	7 8	8				8	8	8
2 3	<b>6</b>	2 3	3	3	<b>1</b>	4	3	<b>5</b>
7 8 9		8 9	7	8				
1 2 3	2 3	1 2 3	3	3	3	1 2 3	1 3	
4 5	4 5	4 5	4	6	6	6	<b>7</b>	6
8 9	8 9	8 9	8			9		8 9

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, Hidden Triples, XY-Chain

#16 (ID: #535705)

SCORE: 283

STEPS: 70

Level 7

2	4 6	4 6	<b>3</b>	1 5 6	1 4 6	1 4 5 6	<b>9</b>	1 2 5 6	5 6
4	8	8		7	7 8	8		8	7 8
2	6	<b>1</b>	<b>5</b>	3 6	<b>9</b>	3 6	2 3 6	<b>4</b>	6
8				7		8	7 8	7 8	7 8
4 6	<b>7</b>	4		<b>2</b>	1 3 4	1 3 4	1 3 1	5 6	5 6
8 9		8 9		8 9	4 6 4 5 6	8 8	5 6 8	8	8
1 3	3	1 3	1 3	1 3	1 3	<b>7</b>	2	2	4 5 6
4 5 6	4 5 6	4 5 6	4 8 9	5 6 9	4 6	9	4 5 6	5 6	4 5 6
8 9	8 9	8 9	8 9	9			8	8	8 9
1	4 5 6	4 5 6	4	5 6	4 6	1 2 4 5 6	4 5 6	<b>3</b>	4 5 6
4 5 6	8 9	8 9	7 8 9	9			7 8	7 8 9	7 8 9
4 5 6	<b>2</b>	4		<b>8</b>	4 6	4 5 6	4 5 6	5 6	<b>1</b>
9		7 9					7		
<b>7</b>	5 3	1		<b>4</b>	1 3	<b>9</b>	1	1 5 6	<b>2</b>
8	8	8		8	6	8	8	8	8
1 2 3	3	1 2	1 3	1 3	1 3	1	4 6	<b>9</b>	4 6
4	4	4	4	7	6	5	8	8	8
8 9	8 9	8 9	8 9	8 9	8 9	8 9	8 9	8 9	8 9
1	4 5	4 5	<b>6</b>	1	<b>2</b>	1	1	<b>7</b>	<b>3</b>
4 5	8 9	8 9	8 9				4 5 8	4 5 8	4 5 8

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, XY-Chain

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#17 (ID: #383277)

SCORE: 138

STEPS: 61

Level 7

1 2 5 7	1 4 5 7	1 2 4 5	1 2 3 4	<b>8</b>	<b>9</b>	<b>6</b>	1 2 3 7	2 3 7
<b>8</b>	1 4 5 6	1 2 4 5 9	1 2 3 4 6	<b>7</b>	1 3 4 5 6	1 3 5 9	1 2 3 9	2 3
<b>3</b>	1 5 6 7	1 2 5	1 2 6	1 5	1 5 6	<b>4</b>	1 2 7 9	2 7 8
5	<b>2</b>	<b>7</b>	4 3 8 9	<b>6</b>	4 3 8	3 8 9	4 3 9	<b>1</b>
1 6	<b>9</b>	1 3 8	<b>5</b>	1 3 4	1 3 4 6 7 8	3 7 8	2 3 4 6 7 8	2 3 6
<b>4</b>	1 3 8	1 3 8	1 3 8 9	1 3 9	1 3 9	2 7 8 9	<b>5</b>	3 7 8 6
1 7 9	1 3 4 7	<b>6</b>	1 3 4	<b>2</b>	1 3 4	1 3 7	<b>8</b>	<b>5</b>
1 5	1 3 4 5 8	1 3 4 5 8	<b>7</b>	1 3 4 5	1 3 4 5 6 8	<b>2</b>	1 3 6	<b>9</b>
1 2 5 7 9	1 3 5 7 8	1 2 3 5 8 9	1 3 6 8 9	1 3 5 9	1 3 5 6 8	1 3 7	1 3 6	<b>4</b>

Techs: Naked Single, Hidden Single, Pointing, XY-Chain

#18 (ID: #535708)

SCORE: 300

STEPS: 70

Level 7

2 4 5 7	2 4 5	<b>3</b>	1 5 8 9	1 2 5 8	2 5 8 9	<b>6</b>	4 5 7 8 9	1 4 5 9
4 5 7	<b>8</b>	<b>9</b>	1 3 5	<b>6</b>	3 5	1 3 4 5 7	<b>2</b>	1 4 5
2 5 6	<b>1</b>	2 6	<b>7</b>	<b>4</b>	2 3 5 8 9	3 5 8 9	5 8 9	5 9
2 3 4 5 8 9	2 3 4 5 9	2 4	3 5 8 9	2 3 7 8	<b>1</b>	2 4 5 7 9	4 5 7 9	<b>6</b>
2 4 5 6 8 9	2 4 5 6 9	1 2 4 6	5 6 7 8	2 5 7 8	2 5 7 8 9	1 2 4 5 7 9	<b>3</b>	1 2 4 5 9
2 3 5 6 9	<b>7</b>	1 2 6	<b>4</b>	2 3 5	2 3 5 9	1 2 5 9	5 9	<b>8</b>
<b>1</b>	4 9	3 4 8	<b>2</b>	5 8	<b>6</b>	4 5 8 9	4 5 8 9	<b>7</b>
2 3 4 6 7 8	2 3 4 6 7 8	2 4 6	1 3 5 8	3 9	3 7 8	2 4 5 8	4 5 6 8	2 4 5
2 4 6 7 8 9	2 4 6 9	<b>5</b>			4 7 8	2 4 8 9	<b>1</b>	<b>3</b>

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, XY-Chain

#19 (ID: #535707)

SCORE: 283

STEPS: 70

Level 7

1 3 4 8	1 4 8	<b>5</b>	2 4 6 7	1 4 6 7	1 2 4 7	<b>9</b>	2 3 4 7 8	2 4 6 8
4 8	<b>7</b>	<b>2</b>	4 5 6 9	4 5 9	4 5 8 6 9	<b>1</b>	4 6 8	6
1 4	<b>6</b>	1 9	<b>3</b>	<b>8</b>	1 2 4 5 7	2 4 5 7	2 4	2 4
1 2 4 5 7 8 9	1 2 4 5 8 9	1 7 8 9	2 4 5 7 9	1 3 4 5 7	1 2 3 4 6 7	1 2 3 4 8 9	2 3 4 8 9	1 2 4 8 9
1 2 4 7 8 9	1 2 4 8 9	1 6 7 8 9	2 4 7 9	1 3 4 7	1 2 3 4 6 7	1 2 3 4 8 9	1 2 4 6 8 9	1 2 6
1 2 4 5 9	<b>3</b>	1 6 9	<b>8</b>	1 4 5	1 2 4 5	1 2 4 6 4	2 4	<b>7</b>
<b>6</b>	2 5 8		<b>1</b>	4 5 7	<b>9</b>	2 4 7 8	2 4 7 8	<b>3</b>
1 3 5 7 8	1 5 8	1 3 7 8	4 5 6 7	<b>2</b>	4 5 7 8	3 7 8	<b>9</b>	1 4 8
1 2 3 7 8 9	1 2 8 9	<b>4</b>	7		3 7 8	3 7 8	1 2 6	<b>5</b>

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, XY-Chain

#20 (ID: #438539)

SCORE: 386

STEPS: 76

Level 7

3 4 5 7 8 9	3 4 5 7	5 7 8 9	2 4 5 7	2 6 7 9	4 5 6 7 9	2 4 9	2 4 5 7 8 9	<b>1</b>
<b>2</b>	<b>6</b>	1 5 7 9	1 4 5 7	1 7 9	<b>8</b>	4 9	4 5 7 9	<b>3</b>
1 4 5 7 8 9	1 4 5 7 8 9	1 5 7 8 9	<b>3</b>	1 2 7 9	1 4 5 9	<b>6</b>	2 4 5 7 8 9	2 4 5 8 9
1 3 7 8	1 3 7	1 3 7 8	1 2 7 8	<b>6</b>	<b>5</b>	1 4 7 9	1 2 3 4 9	1 2 3 4 9
1 3 5 7 8	<b>9</b>	1 5 6 7	1 4	1 7 9	<b>2</b>	<b>8</b>	1 3 4 5 9	<b>7</b>
1 5 7 8	1 5 7	<b>4</b>	1 7 8	<b>3</b>	1 7 9	1 2 9	1 2 5 9	<b>6</b>
<b>6</b>	<b>2</b>	1 5 9	1 5 8	<b>4</b>	1 3 5	<b>7</b>	1 3 8 9	8 9
1 4 5 7 9	1 4 5 7	<b>3</b>	1 2 5 7 8	1 2 6 7 8	1 5 6 7	1 2 4 9	1 2 4 6 8 9	2 4 8 9
1 4 7		<b>8</b>	1 7	<b>9</b>	1 2 6 7	1 3 6	1 2 3 4 6 4	2

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XY-Wing, XYZ-Wing, XY-Chain

# XY-CHAIN PRACTICE SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#21 (ID: #155590)

SCORE: 162

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Chain

#22 (ID: #236634)

SCORE: 289

STEPS: 69

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, X-Wing, 2-String Kite, Skyscraper, Turbot Fish, XY-Chain

#23 (ID: #158646)

SCORE: 193

STEPS: 63

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, XYZ-Wing, 2-String Kite, Grouped 2-String Kite, XY-Chain

#24 (ID: #206470)

SCORE: 419

STEPS: 73

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, XY-Chain, BUG (Bivalue Universal Grave)

# CLASSIC SUDOKU [VOL.3]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#1 (ID: #201157)

6	3	8	1	<b>4</b>	<b>2</b>	5	<b>9</b>	<b>7</b>
2	7	5	9	8	<b>3</b>	<b>4</b>	6	1
4	1	9	6	<b>5</b>	7	2	<b>8</b>	<b>3</b>
8	<b>4</b>	<b>6</b>	3	1	<b>9</b>	<b>7</b>	2	5
1	<b>9</b>	3	2	7	5	8	<b>4</b>	6
5	<b>2</b>	7	<b>8</b>	6	4	1	<b>3</b>	<b>9</b>
7	6	<b>4</b>	5	3	8	9	1	2
9	5	1	4	2	6	3	7	<b>8</b>
<b>3</b>	8	2	<b>7</b>	9	1	<b>6</b>	5	4

#2 (ID: #22605)

2	6	3	9	<b>1</b>	<b>4</b>	8	7	5
<b>9</b>	4	7	5	8	2	1	6	3
<b>5</b>	1	8	7	6	<b>3</b>	2	<b>4</b>	<b>9</b>
4	3	<b>1</b>	8	9	6	7	<b>5</b>	2
7	5	9	3	<b>2</b>	1	<b>4</b>	8	6
6	<b>8</b>	2	4	7	<b>5</b>	3	<b>9</b>	<b>1</b>
3	2	5	<b>6</b>	<b>4</b>	7	9	1	8
8	7	<b>6</b>	<b>1</b>	3	9	5	2	4
1	9	<b>4</b>	2	5	<b>8</b>	<b>6</b>	<b>3</b>	7

#3 (ID: #265352)

8	<b>5</b>	<b>6</b>	<b>1</b>	4	2	3	7	<b>9</b>
9	<b>1</b>	7	3	8	6	2	<b>5</b>	<b>4</b>
2	3	4	<b>7</b>	5	<b>9</b>	1	<b>6</b>	8
1	7	8	<b>5</b>	3	4	<b>9</b>	2	6
6	9	5	2	1	7	4	8	<b>3</b>
3	<b>4</b>	2	<b>6</b>	9	8	5	1	7
4	<b>6</b>	<b>1</b>	9	7	5	8	<b>3</b>	2
5	2	9	8	6	<b>3</b>	<b>7</b>	4	<b>1</b>
<b>7</b>	<b>8</b>	3	4	2	<b>1</b>	6	9	5

#4 (ID: #24541)

4	<b>6</b>	<b>5</b>	8	1	9	2	<b>3</b>	7
<b>1</b>	3	2	7	<b>6</b>	5	8	4	<b>9</b>
8	9	7	<b>2</b>	4	<b>3</b>	<b>5</b>	1	6
<b>2</b>	1	6	<b>5</b>	9	4	3	7	8
3	8	<b>4</b>	<b>1</b>	7	2	6	<b>9</b>	5
7	<b>5</b>	9	<b>3</b>	8	<b>6</b>	<b>4</b>	2	1
6	7	<b>1</b>	4	2	8	9	<b>5</b>	3
5	2	8	9	3	1	<b>7</b>	6	4
<b>9</b>	4	3	6	5	7	1	8	<b>2</b>

#5 (ID: #350398)

5	3	4	1	<b>6</b>	8	2	7	<b>9</b>
<b>6</b>	<b>7</b>	8	<b>4</b>	2	<b>9</b>	5	1	3
2	9	1	3	<b>5</b>	7	4	6	8
<b>9</b>	<b>4</b>	7	6	3	<b>1</b>	8	5	2
1	2	6	<b>9</b>	8	5	<b>7</b>	3	4
3	8	<b>5</b>	<b>7</b>	4	2	<b>6</b>	9	<b>1</b>
8	<b>1</b>	3	<b>2</b>	7	6	9	4	5
7	<b>5</b>	<b>9</b>	8	1	4	3	2	<b>6</b>
<b>4</b>	<b>6</b>	2	5	9	3	1	<b>8</b>	7

#6 (ID: #232827)

4	9	8	2	6	<b>5</b>	1	<b>7</b>	3
6	<b>7</b>	1	<b>9</b>	3	<b>4</b>	2	5	<b>8</b>
3	<b>5</b>	<b>2</b>	1	8	7	9	6	<b>4</b>
2	6	9	5	4	<b>8</b>	3	<b>1</b>	7
5	<b>4</b>	7	3	9	1	8	2	6
1	<b>8</b>	3	6	7	2	<b>5</b>	4	<b>9</b>
<b>7</b>	2	6	<b>8</b>	<b>1</b>	3	4	<b>9</b>	5
8	1	<b>4</b>	7	5	9	6	3	<b>2</b>
9	<b>3</b>	5	4	<b>2</b>	6	7	8	<b>1</b>

#7 (ID: #243574)

3	5	8	4	<b>9</b>	7	6	1	2
4	<b>7</b>	9	1	<b>2</b>	6	8	5	3
1	6	2	<b>3</b>	8	<b>5</b>	4	9	7
<b>5</b>	9	1	<b>8</b>	4	<b>3</b>	<b>7</b>	2	6
<b>6</b>	8	<b>3</b>	<b>9</b>	7	2	5	4	1
7	2	4	6	5	<b>1</b>	3	8	9
2	<b>3</b>	5	<b>7</b>	1	8	<b>9</b>	<b>6</b>	4
<b>9</b>	1	<b>6</b>	5	3	4	<b>2</b>	7	<b>8</b>
<b>8</b>	4	7	2	6	9	1	<b>3</b>	<b>5</b>

#8 (ID: #128855)

5	<b>9</b>	<b>4</b>	2	1	7	6	3	8
6	3	1	<b>9</b>	4	<b>8</b>	7	<b>5</b>	2
2	8	7	<b>6</b>	<b>5</b>	3	4	9	<b>1</b>
<b>4</b>	<b>2</b>	8	7	<b>6</b>	9	3	1	5
3	7	6	1	8	<b>5</b>	2	4	9
1	5	<b>9</b>	<b>4</b>	<b>3</b>	<b>2</b>	8	6	7
8	4	<b>3</b>	5	2	1	<b>9</b>	7	<b>6</b>
7	<b>6</b>	5	<b>8</b>	9	4	1	2	3
<b>9</b>	<b>1</b>	<b>2</b>	3	7	6	5	8	4

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4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#9 (ID: #361738)

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

#10 (ID: #141829)

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

#11 (ID: #230525)

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

#12 (ID: #261980)

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

#13 (ID: #49995)

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

#14 (ID: #473287)

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

#15 (ID: #348782)

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

#16 (ID: #535705)

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

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#17 (ID: #383277)

2	1	5	4	<b>8</b>	<b>9</b>	<b>6</b>	3	7
<b>8</b>	6	4	3	<b>7</b>	1	5	9	2
<b>3</b>	7	9	2	5	6	<b>4</b>	1	8
5	<b>2</b>	<b>7</b>	8	<b>6</b>	3	9	4	<b>1</b>
6	<b>9</b>	1	<b>5</b>	4	7	8	2	3
<b>4</b>	8	3	1	9	<b>2</b>	7	<b>5</b>	6
7	3	<b>6</b>	9	<b>2</b>	4	1	<b>8</b>	<b>5</b>
1	4	8	<b>7</b>	3	5	<b>2</b>	6	<b>9</b>
9	5	2	6	1	8	3	7	<b>4</b>

#18 (ID: #535708)

2	4	<b>3</b>	9	1	8	<b>6</b>	7	5
7	<b>8</b>	<b>9</b>	3	<b>6</b>	5	4	<b>2</b>	1
5	<b>1</b>	6	<b>7</b>	<b>4</b>	2	3	8	9
3	9	8	5	2	<b>1</b>	7	4	<b>6</b>
4	5	1	6	8	7	9	<b>3</b>	2
6	<b>7</b>	2	<b>4</b>	3	9	1	5	<b>8</b>
<b>1</b>	3	4	<b>2</b>	5	<b>6</b>	8	9	<b>7</b>
8	2	7	1	<b>9</b>	3	5	6	4
9	6	<b>5</b>	8	7	4	2	<b>1</b>	<b>3</b>

#19 (ID: #535707)

1	8	<b>5</b>	2	6	7	<b>9</b>	3	4
3	<b>7</b>	<b>2</b>	5	<b>9</b>	4	8	<b>1</b>	6
4	<b>6</b>	9	<b>3</b>	<b>8</b>	1	5	7	2
5	2	7	4	1	<b>6</b>	3	8	9
8	4	6	9	7	3	2	<b>5</b>	1
9	<b>3</b>	1	<b>8</b>	5	2	6	4	<b>7</b>
<b>6</b>	5	8	<b>1</b>	4	<b>9</b>	7	2	<b>3</b>
7	1	3	6	<b>2</b>	5	4	<b>9</b>	8
2	9	<b>4</b>	7	3	8	1	<b>6</b>	<b>5</b>

#20 (ID: #438539)

7	3	5	2	6	4	9	8	<b>1</b>
<b>2</b>	<b>6</b>	1	5	9	<b>8</b>	4	7	<b>3</b>
9	4	8	<b>3</b>	7	1	<b>6</b>	2	5
8	1	2	<b>6</b>	<b>5</b>	7	3	4	9
3	<b>9</b>	6	4	1	<b>2</b>	<b>8</b>	5	<b>7</b>
5	7	<b>4</b>	8	<b>3</b>	9	2	1	<b>6</b>
<b>6</b>	<b>2</b>	9	1	<b>4</b>	5	<b>7</b>	3	8
4	5	<b>3</b>	7	8	6	1	9	2
1	<b>8</b>	7	<b>9</b>	2	3	<b>5</b>	6	4

#21 (ID: #155590)

4	5	1	6	9	7	3	<b>8</b>	<b>2</b>
2	9	<b>6</b>	1	<b>3</b>	8	7	4	5
3	7	<b>8</b>	5	2	<b>4</b>	6	1	<b>9</b>
9	1	2	8	7	<b>6</b>	5	3	<b>4</b>
7	6	<b>5</b>	4	1	3	9	2	<b>8</b>
<b>8</b>	<b>3</b>	<b>4</b>	9	<b>5</b>	<b>2</b>	1	<b>6</b>	7
5	2	<b>3</b>	<b>7</b>	<b>4</b>	1	8	9	6
6	<b>4</b>	9	3	8	<b>5</b>	<b>2</b>	7	1
1	8	7	2	6	9	4	<b>5</b>	3

#22 (ID: #236634)

2	5	1	<b>4</b>	6	3	<b>9</b>	8	7
7	<b>8</b>	6	<b>9</b>	<b>1</b>	2	<b>3</b>	5	<b>4</b>
4	9	3	8	5	<b>7</b>	<b>2</b>	<b>6</b>	1
8	<b>1</b>	7	2	9	<b>6</b>	4	3	5
5	3	4	1	7	<b>8</b>	6	9	2
<b>9</b>	6	2	3	4	5	<b>7</b>	1	8
<b>6</b>	<b>2</b>	<b>9</b>	5	<b>8</b>	4	1	7	<b>3</b>
1	4	5	<b>7</b>	3	9	8	<b>2</b>	6
3	7	<b>8</b>	6	2	1	5	4	<b>9</b>

#23 (ID: #158646)

9	8	<b>5</b>	3	4	2	6	7	<b>1</b>
<b>7</b>	3	6	<b>1</b>	<b>8</b>	9	5	<b>4</b>	2
<b>4</b>	1	2	6	<b>7</b>	5	<b>3</b>	9	8
3	5	8	9	1	6	<b>7</b>	2	4
6	4	<b>9</b>	<b>5</b>	2	7	1	8	<b>3</b>
<b>1</b>	2	<b>7</b>	<b>4</b>	3	8	9	<b>6</b>	5
8	<b>9</b>	4	7	5	3	2	<b>1</b>	6
2	6	<b>3</b>	8	<b>9</b>	1	4	5	<b>7</b>
5	7	1	2	6	<b>4</b>	<b>8</b>	3	9

#24 (ID: #206470)

<b>3</b>	1	8	9	6	<b>5</b>	2	4	7
9	6	<b>4</b>	2	8	7	<b>5</b>	3	<b>1</b>
5	2	<b>7</b>	<b>4</b>	<b>3</b>	1	<b>8</b>	9	6
4	<b>5</b>	3	<b>1</b>	9	<b>2</b>	6	7	8
8	9	2	7	5	6	4	1	<b>3</b>
6	<b>7</b>	1	8	<b>4</b>	3	9	5	<b>2</b>
1	<b>8</b>	<b>5</b>	<b>6</b>	<b>7</b>	4	3	2	9
2	3	6	5	1	9	7	8	<b>4</b>
7	4	9	3	2	<b>8</b>	<b>1</b>	6	5