

Printable PDF Booklet

XY-Chain Practice Sudoku

1 Puzzle Per Page | 24 Puzzles | With Answers

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

1 Puzzle Per Page

TECHNIQUE

XY-Chain

CANDIDATES

Off

ANSWER KEY

Included at the end

GENERATED

Apr 12, 2026

PAPER

A4 / US Letter

You are welcome to share this booklet freely.

HINT SUPPORT

Need a logical hint? Every booklet here uses the same Puzzle IDs as [sudoku puzzle.org](https://www.sudoku puzzle.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 [sudoku printout.com](https://www.sudoku printout.com).

XY-CHAIN PRACTICE SUDOKU [VOL.9]

1 Puzzle Per Page | 24 Puzzles | With Answers | sudokuprintout.com

#1 (ID: #338203)

SCORE: 344

STEPS: 71

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Hidden Pairs, XY-Wing, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, XY-Chain, Unique Rectangle Type 4**

💡 Stuck? Enter the Puzzle ID at sudoku puzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#2 (ID: #499254)

SCORE: 293

STEPS: 71

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Hidden Pairs, XYZ-Wing, WXYZ-Wing, 2-String Kite, 3 Strong Links, XY-Chain, Unique Rectangle Type 3**

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#3 (ID: #360508)

SCORE: 247

STEPS: 68

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, VWXYZ-Wing, XY-Chain, Chute Remote Pairs**

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#4 (ID: #346872)

SCORE: 298

STEPS: 68

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Hidden Pairs, X-Wing, XY-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain, Unique Rectangle Type 4**

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#5 (ID: #535706)

SCORE: 300

STEPS: 70

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#6 (ID: #363064)

SCORE: 198

STEPS: 67

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Claiming, Hidden Triples, WXYZ-Wing, XY-Chain**

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#7 (ID: #529375)

SCORE: 304

STEPS: 70

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#8 (ID: #358507)

SCORE: 354

STEPS: 73

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Naked Triples, 2-String Kite, Skyscraper, XY-Chain, Unique Rectangle Type 4**

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#9 (ID: #164135)

SCORE: 351

STEPS: 75

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Triples, VWXYZ-Wing, Skyscraper, XY-Chain**

💡 Stuck? Enter the Puzzle ID at sodukupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#10 (ID: #94641)

SCORE: 138

STEPS: 61

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, XY-Chain, Unique Rectangle Type 4

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#11 (ID: #373544)

SCORE: 280

STEPS: 70

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#12 (ID: #513930)

SCORE: 298

STEPS: 72

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#13 (ID: #369635) SCORE: 255 STEPS: 69

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#14 (ID: #249054)

SCORE: 427

STEPS: 80

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#15 (ID: #535661)

SCORE: 299

STEPS: 69

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#16 (ID: #49947)

SCORE: 337

STEPS: 72

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, 2-String Kite, Skyscraper, 3 Strong Links, XY-Chain, Unique Rectangle Type 4**

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#17 (ID: #278035)

SCORE: 201

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, X-Wing, 2-String Kite, Skyscraper, XY-Chain, Unique Rectangle Type 4

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#18 (ID: #33314)

SCORE: 259

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, 2-String Kite, Turbot Fish, 3 Strong Links, XY-Chain, Unique Rectangle Type 4

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#19 (ID: #180744)

SCORE: 258

STEPS: 69

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#20 (ID: #384863)

SCORE: 271

STEPS: 67

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#21 (ID: #22202)

SCORE: 263

STEPS: 66

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, VWXYZ-Wing, Turbot Fish, XY-Chain, BUG (Bivalve Universal Grave)**

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#22 (ID: #384840)

SCORE: 253

STEPS: 66

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

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#23 (ID: #155841)

SCORE: 323

STEPS: 70

Level 7

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

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

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#24 (ID: #222745)

SCORE: 241

STEPS: 66

Level 7

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

Techs: **Naked Single, Hidden Single, Pointing, Naked Pairs, 2-String Kite, Turbot Fish, 3 Strong Links, XY-Chain, Unique Rectangle Type 4**

💡 Stuck? Enter the Puzzle ID at sudokupuzzle.org for step-by-step logical hints.

CLASSIC SUDOKU [VOL.9]

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#1 (ID: #338203)

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

#2 (ID: #499254)

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

#3 (ID: #360508)

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

#4 (ID: #346872)

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

#5 (ID: #535706)

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

#6 (ID: #363064)

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

#7 (ID: #529375)

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

#8 (ID: #358507)

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

CLASSIC SUDOKU [VOL.9]

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#9 (ID: #164135)

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

#10 (ID: #94641)

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

#11 (ID: #373544)

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

#12 (ID: #513930)

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

#13 (ID: #369635)

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

#14 (ID: #249054)

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

#15 (ID: #535661)

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

#16 (ID: #49947)

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

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#17 (ID: #278035)

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

#18 (ID: #33314)

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

#19 (ID: #180744)

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

#20 (ID: #384863)

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

#21 (ID: #22202)

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

#22 (ID: #384840)

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

#23 (ID: #155841)

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

#24 (ID: #222745)

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