

Printable PDF Booklet

X-Cycle Practice Sudoku

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

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

DIFFICULTY
Custom / Custom

LAYOUT
4 Puzzles Per Page

TECHNIQUE
X-Cycle

CANDIDATES
Included

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. 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.

X-CYCLE PRACTICE SUDOKU [VOL.3]

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#1 (ID: #410946)

SCORE: 489

STEPS: 77

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Hidden Triples, 2-String Kite, Skyscraper, Turbot Fish, XY-Chain, X-Cycle, Chute Remote Pairs, Unique Rectangle Type 4

#2 (ID: #451801)

SCORE: 344

STEPS: 73

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, Naked Triples, XY-Wing, 2-String Kite, Skyscraper, 3 Strong Links, X-Cycle, Unique Rectangle Type 3

#3 (ID: #463265)

SCORE: 544

STEPS: 85

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, X-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, Grouped Turbot Crane, XY-Chain, X-Cycle, Chute Remote Pairs, Unique Rectangle Type 4

#4 (ID: #465095)

SCORE: 730

STEPS: 94

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, Skyscraper, 3 Strong Links, 4 Strong Links, Grouped 2-String Kite, X-Cycle

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#5 (ID: #484847)

SCORE: 574

STEPS: 83

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, X-Wing, XY-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, 4 Strong Links, XY-Chain, X-Cycle, Chute Remote Pairs

#6 (ID: #524983)

SCORE: 331

STEPS: 68

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, WXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

#7 (ID: #524990)

SCORE: 332

STEPS: 69

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, WXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

#8 (ID: #524997)

SCORE: 421

STEPS: 75

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, VWXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

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#9 (ID: #540040)

SCORE: 267

STEPS: 66

Level 9

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

Techs: Naked Single, Hidden Single, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, X-Cycle, BUG (Bivalue Universal Grave)

#10 (ID: #540041)

SCORE: 267

STEPS: 66

Level 9

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

Techs: Naked Single, Hidden Single, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, X-Cycle, BUG (Bivalue Universal Grave)

#11 (ID: #540057)

SCORE: 267

STEPS: 66

Level 9

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

Techs: Naked Single, Hidden Single, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, X-Cycle, BUG (Bivalue Universal Grave)

#12 (ID: #15404)

SCORE: 692

STEPS: 85

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, WXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, X-Cycle, Chute Remote Pairs, BUG (Bivalue Universal Grave)

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#13 (ID: #21926)

SCORE: 747

STEPS: 89

Level 10

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

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

#14 (ID: #31084)

SCORE: 656

STEPS: 86

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, 2-String Kite, 4 Strong Links, Grouped Skyscraper, X-Cycle, Unique Rectangle Type 1, Unique Rectangle Type 2

#15 (ID: #32244)

SCORE: 620

STEPS: 79

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, XY-Wing, WXYZ-Wing, Skyscraper, 3 Strong Links, Grouped 2-String Kite, XY-Chain, X-Cycle, Chute Remote Pairs

#16 (ID: #45650)

SCORE: 223

STEPS: 64

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, Turbot Fish, X-Cycle, Chute Remote Pairs

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#17 (ID: #45960)

SCORE: 610

STEPS: 84

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Triples, XY-Wing, WXYZ-Wing, VWXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, Grouped 2-String Kite, X-Cycle

#18 (ID: #49217)

SCORE: 415

STEPS: 73

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, VWXYZ-Wing, 2-String Kite, Skyscraper, Grouped 2-String Kite, X-Cycle, Chute Remote Pairs, Unique Rectangle Type 4

#19 (ID: #54840)

SCORE: 389

STEPS: 70

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, XYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

#20 (ID: #55147)

SCORE: 420

STEPS: 74

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, X-Wing, XY-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, X-Cycle

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#21 (ID: #57045)

SCORE: 860

STEPS: 93

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, XY-Chain, X-Cycle

#22 (ID: #60930)

SCORE: 559

STEPS: 80

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Triples, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Skyscraper, XY-Chain, X-Cycle, Chute Remote Pairs

#23 (ID: #64184)

SCORE: 607

STEPS: 83

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Grouped 2-String Kite, X-Cycle

#24 (ID: #64313)

SCORE: 298

STEPS: 70

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Skyscraper, Turbot Fish, Grouped 2-String Kite, X-Cycle, Unique Rectangle Type 4

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#1 (ID: #410946)

SCORE: 489

STEPS: 77

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Hidden Triples, 2-String Kite, Skyscraper, Turbot Fish, XY-Chain, X-Cycle, Chute Remote Pairs, Unique Rectangle Type 4

#2 (ID: #451801)

SCORE: 344

STEPS: 73

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, Naked Triples, XY-Wing, 2-String Kite, Skyscraper, 3 Strong Links, X-Cycle, Unique Rectangle Type 3

#3 (ID: #463265)

SCORE: 544

STEPS: 85

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, X-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, Grouped Turbot Crane, XY-Chain, X-Cycle, Chute Remote Pairs, Unique Rectangle Type 4

#4 (ID: #465095)

SCORE: 730

STEPS: 94

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, Skyscraper, 3 Strong Links, 4 Strong Links, Grouped 2-String Kite, X-Cycle

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#5 (ID: #484847)

SCORE: 574

STEPS: 83

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, X-Wing, XY-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, 4 Strong Links, XY-Chain, X-Cycle, Chute Remote Pairs

#6 (ID: #524983)

SCORE: 331

STEPS: 68

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, WXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

#7 (ID: #524990)

SCORE: 332

STEPS: 69

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, WXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

#8 (ID: #524997)

SCORE: 421

STEPS: 75

Level 9

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, VWXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

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#9 (ID: #540040)

SCORE: 267

STEPS: 66

Level 9

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

Techs: Naked Single, Hidden Single, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, X-Cycle, BUG (Bivalue Universal Grave)

#10 (ID: #540041)

SCORE: 267

STEPS: 66

Level 9

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

Techs: Naked Single, Hidden Single, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, X-Cycle, BUG (Bivalue Universal Grave)

#11 (ID: #540057)

SCORE: 267

STEPS: 66

Level 9

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

Techs: Naked Single, Hidden Single, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Skyscraper, X-Cycle, BUG (Bivalue Universal Grave)

#12 (ID: #15404)

SCORE: 692

STEPS: 85

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, WXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, X-Cycle, Chute Remote Pairs, BUG (Bivalue Universal Grave)

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#13 (ID: #21926)

SCORE: 747

STEPS: 89

Level 10

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

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

#14 (ID: #31084)

SCORE: 656

STEPS: 86

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, 2-String Kite, 4 Strong Links, Grouped Skyscraper, X-Cycle, Unique Rectangle Type 1, Unique Rectangle Type 2

#15 (ID: #32244)

SCORE: 620

STEPS: 79

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, XY-Wing, WXYZ-Wing, Skyscraper, 3 Strong Links, Grouped 2-String Kite, XY-Chain, X-Cycle, Chute Remote Pairs

#16 (ID: #45650)

SCORE: 223

STEPS: 64

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, Turbot Fish, X-Cycle, Chute Remote Pairs

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#17 (ID: #45960)

SCORE: 610

STEPS: 84

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Triples, XY-Wing, WXYZ-Wing, VWXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, Grouped 2-String Kite, X-Cycle

#18 (ID: #49217)

SCORE: 415

STEPS: 73

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, VWXYZ-Wing, 2-String Kite, Skyscraper, Grouped 2-String Kite, X-Cycle, Chute Remote Pairs, Unique Rectangle Type 4

#19 (ID: #54840)

SCORE: 389

STEPS: 70

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, XY-Wing, 2-String Kite, Skyscraper, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

#20 (ID: #55147)

SCORE: 420

STEPS: 74

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, X-Wing, XY-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, X-Cycle

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#21 (ID: #57045)

SCORE: 860

STEPS: 93

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, XY-Chain, X-Cycle

#22 (ID: #60930)

SCORE: 559

STEPS: 80

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Triples, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Skyscraper, XY-Chain, X-Cycle, Chute Remote Pairs

#23 (ID: #64184)

SCORE: 607

STEPS: 83

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Grouped 2-String Kite, X-Cycle

#24 (ID: #64313)

SCORE: 298

STEPS: 70

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Skyscraper, Turbot Fish, Grouped 2-String Kite, X-Cycle, Unique Rectangle Type 4

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#1 (ID: #410946)

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

#2 (ID: #451801)

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

#3 (ID: #463265)

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

#4 (ID: #465095)

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

#5 (ID: #484847)

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

#6 (ID: #524983)

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

#7 (ID: #524990)

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

#8 (ID: #524997)

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

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#9 (ID: #540040)

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

#10 (ID: #540041)

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

#11 (ID: #540057)

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

#12 (ID: #15404)

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

#13 (ID: #21926)

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

#14 (ID: #31084)

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

#15 (ID: #32244)

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

#16 (ID: #45650)

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

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#17 (ID: #45960)

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

#18 (ID: #49217)

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

#19 (ID: #54840)

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

#20 (ID: #55147)

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

#21 (ID: #57045)

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

#22 (ID: #60930)

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

#23 (ID: #64184)

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

#24 (ID: #64313)

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