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Printable PDF Booklet

X-Cycle Practice Sudoku

4 Puzzles Per Page | 18 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](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 [sudokuprintout.com](https://www.sudokuprintout.com).

X-CYCLE PRACTICE SUDOKU [VOL.7]

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#1 (ID: #382340)

SCORE: 470

STEPS: 81

Level 10

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

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

#2 (ID: #382356)

SCORE: 471

STEPS: 82

Level 10

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

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

#3 (ID: #382357)

SCORE: 471

STEPS: 82

Level 10

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

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

#4 (ID: #382358)

SCORE: 471

STEPS: 82

Level 10

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

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

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#5 (ID: #382370)

SCORE: 472

STEPS: 83

Level 10

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

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

#6 (ID: #382371)

SCORE: 472

STEPS: 83

Level 10

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

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

#7 (ID: #401011)

SCORE: 908

STEPS: 100

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Naked Triples, XYZ-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain, X-Cycle, Unique Rectangle Type 1

#8 (ID: #428348)

SCORE: 700

STEPS: 92

Level 10

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

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

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#9 (ID: #428398)

SCORE: 1058

STEPS: 100

Level 10

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

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

#10 (ID: #507816)

SCORE: 1158

STEPS: 108

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Hidden Triples, X-Wing, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Skyscraper, XY-Chain, X-Cycle, BUG (Bivalve Universal Grave)

#11 (ID: #507817)

SCORE: 1033

STEPS: 102

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Hidden Triples, X-Wing, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Skyscraper, XY-Chain, X-Cycle, BUG (Bivalve Universal Grave)

#12 (ID: #507967)

SCORE: 1159

STEPS: 109

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Hidden Triples, X-Wing, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Skyscraper, XY-Chain, X-Cycle, BUG (Bivalve Universal Grave)

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#13 (ID: #514098)

SCORE: 932

STEPS: 102

Level 10

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

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

#14 (ID: #528065)

SCORE: 661

STEPS: 89

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Naked Triples, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Grouped Skyscraper, X-Cycle, Chute Remote Pairs

#15 (ID: #528074)

SCORE: 662

STEPS: 90

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Naked Triples, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Grouped Skyscraper, X-Cycle, Chute Remote Pairs

#16 (ID: #554233)

SCORE: 561

STEPS: 82

Level 10

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

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

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#17 (ID: #554243)

SCORE: 561

STEPS: 82

Level 10

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

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

#18 (ID: #554263)

SCORE: 562

STEPS: 83

Level 10

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

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

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#1 (ID: #382340)

SCORE: 470

STEPS: 81

Level 10

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

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

#2 (ID: #382356)

SCORE: 471

STEPS: 82

Level 10

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

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

#3 (ID: #382357)

SCORE: 471

STEPS: 82

Level 10

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

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

#4 (ID: #382358)

SCORE: 471

STEPS: 82

Level 10

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

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

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#5 (ID: #382370)

SCORE: 472

STEPS: 83

Level 10

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

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

#6 (ID: #382371)

SCORE: 472

STEPS: 83

Level 10

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

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

#7 (ID: #401011)

SCORE: 908

STEPS: 100

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Naked Triples, XYZ-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain, X-Cycle, Unique Rectangle Type 1

#8 (ID: #428348)

SCORE: 700

STEPS: 92

Level 10

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

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

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#9 (ID: #428398)

SCORE: 1058

STEPS: 100

Level 10

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

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

#10 (ID: #507816)

SCORE: 1158

STEPS: 108

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Hidden Triples, X-Wing, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Skyscraper, XY-Chain, X-Cycle, BUG (Bivalve Universal Grave)

#11 (ID: #507817)

SCORE: 1033

STEPS: 102

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Hidden Triples, X-Wing, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Skyscraper, XY-Chain, X-Cycle, BUG (Bivalve Universal Grave)

#12 (ID: #507967)

SCORE: 1159

STEPS: 109

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Hidden Triples, X-Wing, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Skyscraper, XY-Chain, X-Cycle, BUG (Bivalve Universal Grave)

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#13 (ID: #514098)

SCORE: 932

STEPS: 102

Level 10

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

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

#14 (ID: #528065)

SCORE: 661

STEPS: 89

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Naked Triples, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Grouped Skyscraper, X-Cycle, Chute Remote Pairs

#15 (ID: #528074)

SCORE: 662

STEPS: 90

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Naked Triples, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Grouped Skyscraper, X-Cycle, Chute Remote Pairs

#16 (ID: #554233)

SCORE: 561

STEPS: 82

Level 10

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

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

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#17 (ID: #554243)

SCORE: 561

STEPS: 82

Level 10

9	4 ² 6	7	4 ^{2 3} 5 6 8	4 ^{2 3} 6 8	1	6 ² 8	8	2 ² 8
3	1 2 ⁶	8	2 ⁶ 7	2 ⁶ 7	2	5	4	9
5	1 2 ⁴ 6 4	1 2 ⁴	2 ⁴ 6 4 7 8 9	2 ⁴ 6 4 7 8	2 ⁴ 6 4 7 8 9	1 ⁶ 7 8	3 ^{1 2} 8	1 2 ⁸
2 ⁴ 7 8	2 ⁴ 5 7 8	9	4 ^{2 3} 8	1 ⁶ 8	6	4 ³ 7 8	5 ⁴ 7 8	4 ⁵ 8 3
4 ⁸	3	1 ⁴ 5	4 ⁸ 9	4 ⁸	7	2 ¹ 5 8 9	6	
2 ⁴ 7 8	1 2 ⁴ 6 7 8	1 2 ⁴ 6 4	2 ³ 4 8 9	5 ⁴ 8 9	2 3 ⁴ 8 9	1 3 ¹ 4 7 8 9	1 ³ 4 8	1 3 ⁶ 8
2 ⁴ 7 8	2 ⁴ 5 7 8	3	1 2 ³ 4 5 6 7 8	9	4 5 ² 8	1 ⁴ 8	1 2 ¹ 5 8	1 2 ⁴ 5 8
4 ⁸	2 ⁴ 5 8 9	6	1 2 ³ 4 5 8	2 3 ⁴ 8	2 3 ⁴ 8	1 3 ¹ 4 8 9	1 2 ⁵ 8 9	7
1	2 ⁴ 5 7 8 9	4 5	2 3 ⁴ 5 7 8	2 3 ⁴ 7 8	2 3 ⁴ 8	3 ⁴ 8 9	6 ⁴ 5 8	2 3 ⁸

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

#18 (ID: #554263)

SCORE: 562

STEPS: 83

Level 10

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

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

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#1 (ID: #382340)

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

#2 (ID: #382356)

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

#3 (ID: #382357)

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

#4 (ID: #382358)

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

#5 (ID: #382370)

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

#6 (ID: #382371)

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

#7 (ID: #401011)

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

#8 (ID: #428348)

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

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#9 (ID: #428398)

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

#10 (ID: #507816)

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

#11 (ID: #507817)

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

#12 (ID: #507967)

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

#13 (ID: #514098)

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

#14 (ID: #528065)

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

#15 (ID: #528074)

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

#16 (ID: #554233)

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

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#17 (ID: #554243)

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

#18 (ID: #554263)

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