

STANDARD-LAYOUT SUDOKU PACKS START AT
SUDOKUPRINTOUT.COM

Printable PDF Booklet

X-Wing Practice Sudoku

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

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

DIFFICULTY

Custom / Custom

LAYOUT

4 Puzzles Per Page

TECHNIQUE

X-Wing

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 [sudoku-printout.com](https://www.sudoku-printout.com).

X-WING PRACTICE SUDOKU [VOL.5]

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#1 (ID: #14224)

SCORE: 176

STEPS: 60

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

#2 (ID: #2991)

SCORE: 125

STEPS: 49

Level 5

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

Techs: Naked Single, Hidden Single, Naked Pairs, Hidden Pairs, X-Wing

#3 (ID: #10824)

SCORE: 145

STEPS: 62

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, Hidden Triples, X-Wing

#4 (ID: #307874)

SCORE: 293

STEPS: 73

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Naked Triples, X-Wing, Unique Rectangle Type 1, Unique Rectangle Type 4

X-WING PRACTICE SUDOKU [VOL.5]

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#5 (ID: #304403)

SCORE: 123

STEPS: 59

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, X-Wing

#6 (ID: #10630)

SCORE: 185

STEPS: 55

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Naked Triples, X-Wing

#7 (ID: #12701)

SCORE: 145

STEPS: 62

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, Hidden Triples, X-Wing

#8 (ID: #3030)

SCORE: 182

STEPS: 52

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

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#9 (ID: #12088)

SCORE: 161

STEPS: 52

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

#10 (ID: #3054)

SCORE: 133

STEPS: 48

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Triples, X-Wing

#11 (ID: #3055)

SCORE: 166

STEPS: 48

Level 5

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

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

#12 (ID: #3062)

SCORE: 174

STEPS: 63

Level 5

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

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

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#13 (ID: #12065)

SCORE: 179

STEPS: 63

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

#14 (ID: #10843)

SCORE: 145

STEPS: 48

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, X-Wing

#15 (ID: #3073)

SCORE: 151

STEPS: 49

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, Naked Triples, X-Wing

#16 (ID: #3074)

SCORE: 182

STEPS: 52

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

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#17 (ID: #529119)

SCORE: 161

STEPS: 64

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

#18 (ID: #3091)

SCORE: 133

STEPS: 43

Level 5

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

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

#19 (ID: #468157)

SCORE: 144

STEPS: 61

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, X-Wing, Unique Rectangle Type 1, Unique Rectangle Type 4

#20 (ID: #529130)

SCORE: 186

STEPS: 68

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

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#21 (ID: #3097)

SCORE: 143

STEPS: 58

Level 5

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

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

#22 (ID: #3099)

SCORE: 166

STEPS: 48

Level 5

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

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

#23 (ID: #3100)

SCORE: 143

STEPS: 58

Level 5

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

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

#24 (ID: #3102)

SCORE: 133

STEPS: 43

Level 5

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

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

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#1 (ID: #14224)

SCORE: 176

STEPS: 60

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

#2 (ID: #2991)

SCORE: 125

STEPS: 49

Level 5

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

Techs: Naked Single, Hidden Single, Naked Pairs, Hidden Pairs, X-Wing

#3 (ID: #10824)

SCORE: 145

STEPS: 62

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, Hidden Triples, X-Wing

#4 (ID: #307874)

SCORE: 293

STEPS: 73

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Naked Triples, X-Wing, Unique Rectangle Type 1, Unique Rectangle Type 4

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#5 (ID: #304403)

SCORE: 123

STEPS: 59

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, X-Wing

#6 (ID: #10630)

SCORE: 185

STEPS: 55

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Naked Triples, X-Wing

#7 (ID: #12701)

SCORE: 145

STEPS: 62

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, Hidden Triples, X-Wing

#8 (ID: #3030)

SCORE: 182

STEPS: 52

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

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#9 (ID: #12088)

SCORE: 161

STEPS: 52

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

#10 (ID: #3054)

SCORE: 133

STEPS: 48

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Triples, X-Wing

#11 (ID: #3055)

SCORE: 166

STEPS: 48

Level 5

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

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

#12 (ID: #3062)

SCORE: 174

STEPS: 63

Level 5

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

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

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#13 (ID: #12065)

SCORE: 179

STEPS: 63

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

#14 (ID: #10843)

SCORE: 145

STEPS: 48

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, X-Wing

#15 (ID: #3073)

SCORE: 151

STEPS: 49

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, Naked Triples, X-Wing

#16 (ID: #3074)

SCORE: 182

STEPS: 52

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

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#17 (ID: #529119)

SCORE: 161

STEPS: 64

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

#18 (ID: #3091)

SCORE: 133

STEPS: 43

Level 5

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

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

#19 (ID: #468157)

SCORE: 144

STEPS: 61

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, X-Wing, Unique Rectangle Type 1, Unique Rectangle Type 4

#20 (ID: #529130)

SCORE: 186

STEPS: 68

Level 5

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, X-Wing

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#21 (ID: #3097)

SCORE: 143

STEPS: 58

Level 5

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

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

#22 (ID: #3099)

SCORE: 166

STEPS: 48

Level 5

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

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

#23 (ID: #3100)

SCORE: 143

STEPS: 58

Level 5

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

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

#24 (ID: #3102)

SCORE: 133

STEPS: 43

Level 5

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

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

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#1 (ID: #14224)

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

#2 (ID: #2991)

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

#3 (ID: #10824)

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

#4 (ID: #307874)

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

#5 (ID: #304403)

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

#6 (ID: #10630)

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

#7 (ID: #12701)

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

#8 (ID: #3030)

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

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#9 (ID: #12088)

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

#10 (ID: #3054)

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

#11 (ID: #3055)

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

#12 (ID: #3062)

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

#13 (ID: #12065)

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

#14 (ID: #10843)

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

#15 (ID: #3073)

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

#16 (ID: #3074)

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

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#17 (ID: #529119)

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

#18 (ID: #3091)

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

#19 (ID: #468157)

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

#20 (ID: #529130)

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

#21 (ID: #3097)

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

#22 (ID: #3099)

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

#23 (ID: #3100)

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

#24 (ID: #3102)

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