Example Sudoku Puzzles

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A Sudoku puzzle consists of a 9 by 9 array of squares, some of which have numbers in them, the numbers ranging from 1 through 9. The problem is to fill in all the squares such that each row, column, and 3 by 3 box includes the numbers 1 through 9 with no repetitions.

This is a collection of some 54 Sudoku puzzles which I have culled from various places. The sources include, among others: the *Sudoku Solver* [SSBL] website (labelled SE, SM, SH and SVH), *The Daily Telegraph* [Mep05] (labelled TG, TM, and TT), *The Seattle Times* (labelled ST), and some automatically generated by the createsudoku package [Wil06] (labelled CS).

You can try solving them yourself and/or get LaTeX to do it for you. The solvesudoku package [Wil06] is able to solve most, but not all of the puzzles. Other LaTeX packages may do better or worse.

The puzzles are presented in approximately increasing order of difficulty. Each source, though, has its own set of categories which don't necessarily agree with each other (and sometimes not within one source). I have included an indication of the difficulty as stated by the relevant source.

The parameters for the puzzles created via createsudoku are given in the table.

Number	Seed	initialelimination
CS1	1505263462	\elimcrossandexandnines
CS2	1495929734	\elimcrossandex
CS3	1487762722	\elimcrossandexandnines
CS4	1508763610	\elimcrossandex
CS5	839068723	\elimseventeen
CS6	833235143	\elimcrossandexandnines

SE5 (easy)

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

SE10 (easy)

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

SE15 (easy)

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

SE20 (easy)

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

SE25 (easy)

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

SE30 (easy)

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

TG5 (gentle)

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

TG10 (gentle)

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

TG15 (gentle)

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

TG20 (gentle)

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

TG25 (gentle)

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

TG30 (gentle)

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

ST1226 (1 star)

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

ST0206 (1 star)

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

ST0213 (1 star)

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

CS1 (level 2)

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

CS2 (level 2)

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

CS3 (level 2)

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

SM5 (medium)

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

SM10 (medium)

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

SM15 (medium)

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

SM20 (medium)

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

SM25 (medium)

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

SM30 (medium)

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

TM35 (moderate)

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

TM40 (moderate)

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

TM45 (moderate)

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

TM50 (moderate)

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

TM55 (moderate)

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

TM60 (moderate)

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

ST0914 (2 stars)

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

ST0207 (2 stars)

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

CS4 (level 4)

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

CS5 (level 4)

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

CS6 (level 4)

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

SH5 (hard)

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

SH10 (hard)

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

SH15 (hard)

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

SH20 (hard)

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

SH25 (hard)

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

SH30 (hard)

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

TT100 (tough)

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

TT105 (tough)

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

TT110 (tough)

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

TT115 (tough)

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

TT120 (tough)

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

ST1130 (3 stars)

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

ST1207 (3 stars)

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

ST1209 (5 stars)

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

ST1221 (3 stars)

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

ST1228 (3 stars)

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

ST0126 (4 stars)

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

ST0127 (5 stars)

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

ST0204 (6 stars)

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

ST0208 (3 stars)

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

ST0209 (4 stars)

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

SE5 (easy solution)

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

SE10 (easy solution)

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

SE15 (easy solution)

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

SE20 (easy solution)

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

SE25 (easy solution)

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

SE30 (easy solution)

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

TG5 (gentle solution)

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

TG10 (gentle solution)

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

TG15 (gentle solution)

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

TG20 (gentle solution)

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

TG25 (gentle solution)

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

TG30 (gentle solution)

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

ST1226 (1 star solution)

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

ST0206 (1 star solution)

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

ST0123 (1 star solution)

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

CS1 (level 2 solution)

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

CS2 (level 2 solution)

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

CS3 (level 2 solution)

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

SM5 (medium solution)

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

SM10 (medium solution)

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

SM15 (medium solution)

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

SM20 (medium solution)

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

SM25 (medium solution)

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

SM30 (medium solution)

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

TM35 (moderate solution)

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

TM40 (moderate solution)

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

TM45 (moderate solution)

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

TM50 (moderate solution)

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

TM55 (moderate solution)

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

TM60 (moderate solution)

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

ST0914 (2 star solution)

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

ST0207 (2 star solution)

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

CS4 (level 8 solution)

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

CS5 (level 8 solution)

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

CS6 (level 4 solution)

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

SH5 (hard solution)

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

SH10 (hard solution)

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

SH15 (hard solution)

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

SH20 (hard solution)

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

SH25 (hard solution)

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

SH30 (hard solution)

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

TT100 (tough solution)

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

TT105 (tough solution)

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

TT110 (tough solution)

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

TT115 (tough solution)

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

TT120 (tough solution)

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

ST1130 (3 star solution)

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

ST1207 (3 star solution)

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

ST1209 (5 star solution)

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

ST1221 (3 star solution)

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

ST1228 (3 star solution)

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

ST0126 (4 star solution)

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

ST0127 (5 star solution)

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

ST0204 (6 star solution)

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

ST0208 (3 star solution)

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

ST0209 (4 star solution)

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

References

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