

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	<code>initialelimination</code>
CS1	1505263462	<code>\elimcrossandexandnines</code>
CS2	1495929734	<code>\elimcrossandex</code>
CS3	1487762722	<code>\elimcrossandexandnines</code>
CS4	1508763610	<code>\elimcrossandex</code>
CS5	839068723	<code>\elimseventeen</code>
CS6	833235143	<code>\elimcrossandexandnines</code>

SE5 (easy)

SE10 (easy)

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

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