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

			SE	E5 (eas	sy)			
	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	

			SE	10 (ea	sy)			
		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

			SE	15 (ea	sy)			
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

			SE	20 (ea	sy)			
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

			SE	25 (ea	sy)			
				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

			SE	30 (ea	sy)			
	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	

			TG	5 (gen	tle)			
	6		1		9		8	
	1	9				7	4	
2								1
		7	9		2	6		
	3						2	
		1	4		3	15		
1								5
	7	5				2	3	
	9		5		6		7	

			TG	10 (gei	ntle)			
				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				

			TG	15 (ger	ntle)			
			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			

			TG	20 (ger	ntle)			
			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			

			TG_2	25 (ger	ntle)			
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		$\mid 4 \mid$			
				2	3						
	4		1			9					
	1	2				7	9				
		5			7		4				
			3	6							
4		3	2					6			
					9		5	7			

			ST12	226 (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

			ST02	206 (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	o (leve	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)

			SM10) (med	lium)			
		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		

			SM1	5 (med	lium)			
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) (med	lium)			
		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)

	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	(mod	erate)		
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	(mod	erate)			
			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)

		TM50	\pmod{m}	erate)		
		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	(mod	erate)			
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	(mod	erate)			
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)

	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					

			CS	5 (leve	1 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				

			SE	I5 (hai	rd)			
		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		

		SH	10 (ha	rd)		
	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			

			SH	20 (ha	rd)		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											

			SH	25 (ha	rd)			
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)

TT100 (tough)

			TT1	05 (to	ugh)	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											

			TT1	10 (to	ugh)			
	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)

TT120 (tough)

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			

			ST12	07 (3 s	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)

			ST12	21 (3 s	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		

			ST01	26 (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)

	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			

			ST02	09 (4 s	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	easv	so	lution
	CCC.		LCLUICII,

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	/	1	L: \	١
3 E ZU	Leasv	SOIII	EION	1

DL20 (casy 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

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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		
	71	7015	. (ma	tla	aslı)			
				ntle						
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		

	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			

	Γ	G20) (ge	$_{ m ntle}$	solu	ition	ι)	
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

	Γ	G2	δ (ge	ntle	solu	ition	1)	
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

	Т	`G3() (ge	entle	solu	ıtion	1)	
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	SO	lution	١

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

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	S	M5	(mec	lium	sol	ution	n)	
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

	SI	И 10	(me	diun	n sol	utio	n)	
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

	SN	И15	(me	diun	n sol	utio	n)	
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

	SN	Л 20	(me	diun	n sol	utio	n)	
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				

	SI	И30	(me	diun	n sol	utio	n)	
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	١

			\					
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)

		100	(1110)	acra		/I (I (I)	- /	
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

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	S	Γ091	4 (2	sta	r sol	utio	n)	
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

	Sī	Γ020	7(2	sta	r sol	utio	n)	
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	(lev	el 8	solu	tion)	
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	(lev	el 8	solu	tion)	
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				

		SH	í (ha	rd s	olut	ion)		
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)

		3112	0 (11	ara	JOIU	1011)		
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

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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			
TT115 (tough solution)											

	Т	T11	0 (to	ough	sol	ution	1)	
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

	Τ	T11	5 (to	ough	sol	utior	1)	
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

	Т	T12	0 (to	ough	sol	utio	n)	
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

	Sī	Γ113	30 (3	sta	r sol	utio	n)	
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					

0001000	/ ►				1
ST1209	(5	star	SO	lutuor	ı

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

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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)

	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -							
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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