# 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.

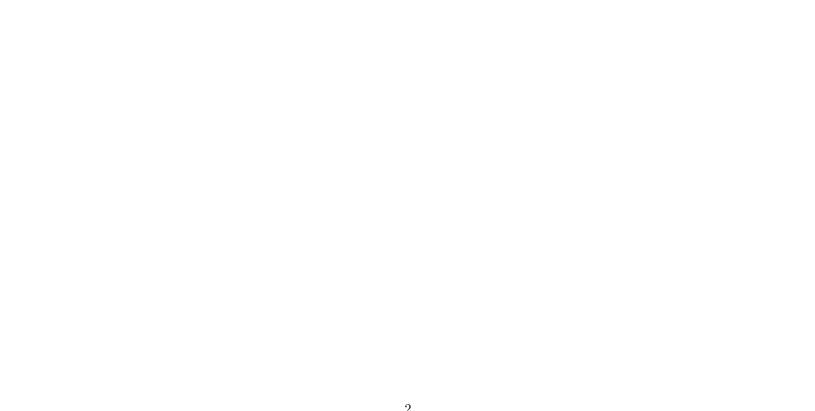
This is a collection of some 54 Sudoku puzzles which I have culled from various places. The sources include, among others: the Sudoku Solver [SSBL] website (labelled SE, SM, SH and SVH), The Daily Telegraph [Mep05] (labelled TG, TM, and TT), The Seattle Times (labelled ST), and some automatically generated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

£ASI

3	6		9	20 (ea	,	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	5		
1								5
	7	5				2	3	
	9		5		6		7	

			TG:	l5 (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			

			TG2	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

			TG:	30 (ger	ntle)			
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

			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

			ST02	213 (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	

			CS	l (leve	12)			
	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	

			CS:	2 (leve	12)			
	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	

			CS:	3 (leve	1 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	

MODERATE

			SM5	med	ium)			
		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	

#### SM10 (medium)

			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		

			SM2	5 (med	lium)			
			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)

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			

MODERATE

			TM45	(mod	erate)			
	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)

MODERATE

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		15		
	5			2				8
	8		15		7			
			7			6	4	
				8				
	7	9			6			
			8		5		2	
6	-			4			8	
		8		3		1	7	4

	ST09	14 (2 s	stars)
6	2	9	

				9				
		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							

			$CS_{4}$	4 (leve	14)			
			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			

MODERALE MODERALE

			CS	6 (leve	l 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	

ARD

#### SH10 (hard)

22 HARD

			SH	15 (ha	rd)			
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)			
	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				

			SH	30 (ha	rd)			
				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				

HAND

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					

2	5		
		6	
7		·	

6

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

TT105 (tough)

5

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		

			TT1	20 (to	ugh)			
		8		1		7		
	4		6	7		8		
		2			4	6	1	
	9					1		8
2		1					9	

#### 

ST1130 (3 stars)

#### ST1209 (5 stars)

20 HARD

			ST12	21 (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					

#### ST0127 (5 stars)

50 HARD

	ı		ST02	04 (6 :	stars)		I	
	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			

IAND

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		

5010110115

SE5 (easy solution
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			, (56	·	Oraro.			
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

# 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

### SE25 (easy solution)

				~~J ^		1011)		
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

### TG5 (gentle solution)

			(0)				,	
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

### 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

# 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

# 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

## 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

50LUTIONS

TG15 (gentle s	solution)
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	1 d 10 (Schele boldelon)							
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

# TG25 (gentle solution)

			(0				/	
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

# 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

### 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

## TG20 (gentle solution)

				(0				/	
	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
Γ	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

# 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
Г	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

# 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

## 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

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CS2	(level	2	SO	lution
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		002	(101	O	DOTE	01011	,	
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

### 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

### SM15 (medium solution)

			(1110				11)	
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

### 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

### CS3 (level 2 solution)

		0.00	(10,			01011	,	
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

# 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

# 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

## 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

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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

1

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TM35 (moderate solution)

CD3 E 4 F	/ 1 .	1
110/145	moderate	solution

9

5

5 7 3

 $6 \mid 3$ 

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

## 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

#### 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

### 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

# 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

# TM60 (moderate solution)

7	7	3	4	1	9	8	5	6	2
1	L	5	6	3	2	4	7	9	8
Ĝ	)	8	2	5	6	7	4	3	1
8	3	1	3	7	5	2	6	4	9
4	Į	6	5	9	8	3	2	1	7
2	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	ó	2	8	6	3	9	1	7	4

## 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

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## CS4 (level 8 solution)

		0 ~ -	(10,			01011	<i>'</i>	
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

# 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

# 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

## 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

### CS5 (level 8 solution)

		0.00	(10,			01011	<i>'</i>	
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

# 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

# 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

# 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

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SH30 (	hard	solution)
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SIISO (Hara Solation)									
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	

# 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)

			9 (0.				-)	
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

### ST1130 (3 star solution)

-			9 (3					
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

## 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

# 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

# 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

## 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

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### 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

### 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

## 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

# 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

## 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

## 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

## 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

# 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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