

SUDOKUPLACE.COM PRESENTS

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

100
Medium
Sudoku

Welcome!

Welcome to sudoku! I think you are going to like this. What, you may be asking, is a sudoku? It is a puzzle -- an exceptionally pure and addictive puzzle! To solve it requires no special knowledge of trivia, no particular mathematical ability; merely an ability to think logically and a temperament not given to despair.

Rules

Each puzzle is made of 81 cells, divided into 9 rows, 9 columns, and 9 boxes. The boxes are 3 cells by 3 cells, and are marked off by the thicker lines. Each cell contains a digit, 1 through 9. The object is to fill in the empty cells so that the digits 1 through 9 appear:

- exactly once in each row
- exactly once in each column
- exactly once in each 3 x 3 box

That is all there is to it. Simple, right?

Technique

Look for places where there is only one number possible for a cell. How can you tell? Here is an example. Consider the following (partial) puzzle:

			4	1				
		4					5	
							8	
						4		

The red cell has to be a "4". Why? There are several ways to think of it. Consider the 4s which are already showing -- each eliminates the possibility of another 4 in a particular row, column, and box.

			4	1				
		4					5	
							8	4
						4		

So there is only that one cell left in that box in which a 4 is possible. Since the rightmost box *must* have a 4 in it somewhere, the one possible cell is where it goes.

The reasoning can be more complicated than that. Consider this example:

			3		8	1	2	4
		4					5	
							8	
				4				

For the middle box, we do not know *exactly* where the 4 is, but we know it must be in one of the two red cells. That means the third row is "spoken for" and we can remove it from consideration, leaving just the one cell in the rightmost box.

Believe it or not, there are even more convoluted lines of reasoning that can come into play, but I will let you discover them for yourself.

Strategy

Generally speaking, the more information you have, the easier it is to fill in the remaining unknowns. So look for places where you have a lot of information.

Does one box have 5 cells filled in, where the others have at most 3? Start there.

Does one row have 6 cells filled in, where the others have at most 4? Start there.

Does one column have 8 cells filled in? You know what the last one must be!

One less obvious example of this -- count how many of each digit you have. If you have a lot of "5", the remaining 5's should be comparatively easy to find.

Philosophy

What makes a sudoku puzzle a *good* sudoku puzzle?

Three things are important:

1. The clues are placed symmetrically. Why is this important? A puzzle might have the clues scattered willy-nilly. But the result is an ugly puzzle, a puzzle you don't want to look at. A symmetric puzzle is, to the limited extent possible, a beautiful puzzle. And the world needs beauty everywhere we can get it.

Symmetry also sometimes helps direct you towards your next cell. "I got this one here, I should be able to get that one there because the patterns are alike..." You cannot rely upon this, however.

2. The puzzle can be solved by logic alone. At no point should you be forced to guess, or use trial and error. Such an approach is easy, if you are a computer. But we are human beings, and these puzzles are an exercise for human minds. Guessing does not exercise our minds. It can, however, frustrate us.

On none of my puzzles is a guess ever required. You might decide to guess anyway because you are tired of looking, but there is always a next step to be found by logic.

3. The third feature is the most important, but it cannot be found in the puzzle at all. It has to be found within your own self. Without this, though, no sudoku puzzle can be called good. It is most, most important that you bring this out from within yourself. This third, crucial, feature is joy. Have fun doing the puzzles, even when they are challenging to you -- maybe especially then.

Enjoy the puzzles.

Regards,
Mark

SUDOKUPLACE.COM Medium #1

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

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SUDOKUPLACE.COM Medium #2

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

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SUDOKUPLACE.COM Medium #3

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

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SUDOKUPLACE.COM Medium #4

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

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SUDOKUPLACE.COM Medium #5

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

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SUDOKUPLACE.COM Medium #6

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

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SUDOKUPLACE.COM Medium #7

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

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SUDOKUPLACE.COM Medium #8

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

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SUDOKUPLACE.COM Medium #9

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

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SUDOKUPLACE.COM Medium #10

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

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SUDOKUPLACE.COM Medium #11

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

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SUDOKUPLACE.COM Medium #12

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

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SUDOKUPLACE.COM Medium #13

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

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SUDOKUPLACE.COM Medium #14

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

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SUDOKUPLACE.COM Medium #15

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

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SUDOKUPLACE.COM Medium #16

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

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SUDOKUPLACE.COM Medium #17

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

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SUDOKUPLACE.COM Medium #18

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

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SUDOKUPLACE.COM Medium #19

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

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SUDOKUPLACE.COM Medium #20

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

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SUDOKUPLACE.COM Medium #21

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

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SUDOKUPLACE.COM Medium #22

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

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SUDOKUPLACE.COM Medium #23

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

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SUDOKUPLACE.COM Medium #24

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

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SUDOKUPLACE.COM Medium #25

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

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SUDOKUPLACE.COM Medium #26

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

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SUDOKUPLACE.COM Medium #27

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

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SUDOKUPLACE.COM Medium #28

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

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SUDOKUPLACE.COM Medium #29

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

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SUDOKUPLACE.COM Medium #30

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

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SUDOKUPLACE.COM Medium #31

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

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SUDOKUPLACE.COM Medium #32

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

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SUDOKUPLACE.COM Medium #33

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

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SUDOKUPLACE.COM Medium #34

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

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SUDOKUPLACE.COM Medium #35

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

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SUDOKUPLACE.COM Medium #36

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

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SUDOKUPLACE.COM Medium #37

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

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SUDOKUPLACE.COM Medium #38

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

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SUDOKUPLACE.COM Medium #39

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

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SUDOKUPLACE.COM Medium #40

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

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SUDOKUPLACE.COM Medium #41

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

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SUDOKUPLACE.COM Medium #42

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

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SUDOKUPLACE.COM Medium #43

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

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SUDOKUPLACE.COM Medium #44

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

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SUDOKUPLACE.COM Medium #45

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

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SUDOKUPLACE.COM Medium #46

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

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SUDOKUPLACE.COM Medium #47

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

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SUDOKUPLACE.COM Medium #48

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

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SUDOKUPLACE.COM Medium #49

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

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SUDOKUPLACE.COM Medium #50

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

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SUDOKUPLACE.COM Medium #51

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

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SUDOKUPLACE.COM Medium #52

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

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SUDOKUPLACE.COM Medium #53

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

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SUDOKUPLACE.COM Medium #54

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

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SUDOKUPLACE.COM Medium #55

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

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SUDOKUPLACE.COM Medium #56

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

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SUDOKUPLACE.COM Medium #57

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

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SUDOKUPLACE.COM Medium #58

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

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SUDOKUPLACE.COM Medium #59

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

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SUDOKUPLACE.COM Medium #60

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

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SUDOKUPLACE.COM Medium #61

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

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SUDOKUPLACE.COM Medium #62

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

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SUDOKUPLACE.COM Medium #63

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

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SUDOKUPLACE.COM Medium #64

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

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SUDOKUPLACE.COM Medium #65

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

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SUDOKUPLACE.COM Medium #66

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

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SUDOKUPLACE.COM Medium #67

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

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SUDOKUPLACE.COM Medium #68

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

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SUDOKUPLACE.COM Medium #69

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

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SUDOKUPLACE.COM Medium #70

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

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SUDOKUPLACE.COM Medium #71

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

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SUDOKUPLACE.COM Medium #72

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

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SUDOKUPLACE.COM Medium #73

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

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SUDOKUPLACE.COM Medium #74

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

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SUDOKUPLACE.COM Medium #75

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

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SUDOKUPLACE.COM Medium #76

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

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SUDOKUPLACE.COM Medium #77

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

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SUDOKUPLACE.COM Medium #78

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

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SUDOKUPLACE.COM Medium #79

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

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SUDOKUPLACE.COM Medium #80

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

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SUDOKUPLACE.COM Medium #81

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

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SUDOKUPLACE.COM Medium #82

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

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SUDOKUPLACE.COM Medium #83

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

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SUDOKUPLACE.COM Medium #84

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

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SUDOKUPLACE.COM Medium #85

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

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SUDOKUPLACE.COM Medium #86

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

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SUDOKUPLACE.COM Medium #87

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

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SUDOKUPLACE.COM Medium #88

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

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SUDOKUPLACE.COM Medium #89

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

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SUDOKUPLACE.COM Medium #90

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

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SUDOKUPLACE.COM Medium #91

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

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SUDOKUPLACE.COM Medium #92

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

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SUDOKUPLACE.COM Medium #93

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

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SUDOKUPLACE.COM Medium #94

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

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SUDOKUPLACE.COM Medium #95

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

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SUDOKUPLACE.COM Medium #96

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

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SUDOKUPLACE.COM Medium #97

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

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SUDOKUPLACE.COM Medium #98

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

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SUDOKUPLACE.COM Medium #99

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

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SUDOKUPLACE.COM Medium #100

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

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