## SuLite One How to Play Guide

Only a brief introduction to SuLite One SuDoku puzzle solving is given here. A very simplistic approach is presented.

Let's learn by playing an easy level puzzle. Generate one by selecting Game->Easy from the menu.

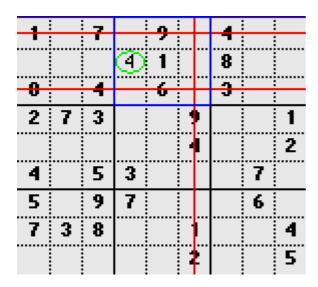
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0	<b>(</b>								
(	<u>?</u> )								

The following shows a Palm generated puzzle.

SuL	ite				05-07-23#1					
	1		7		9		4			
•				•••••	1		8			
	8		4		6		3			
	2	7	3			9			1	
						4			2	
	4		5	3				7		
	5		9	7				6		
lacktriangledown	7	3	8			1			4	
<u>?</u>						2			5	

There are many ways to solve the puzzle but start by noticing that several 3x3 boxes already contain the number 4.

Look at the highlighted box. It must contain a 4, but it is already present in the highlighted rows and columns. The only square it can possibly go is circled. If the 4 were placed in any of the other blank squares it would contradict the rule that each number only appears once in each row and column.



Another 4.

1		7		9		•			
			4	1		ï			
8		4		6		;			
2	7	3			9		<b>4</b> )		
					4				Ë
					•				ī
4		5	3				7		
5		9	7				6		
7	3	8			1				
					2			ŀ	•

There is nothing special about the number 4. The same logic applies with any number. For instance 3.

1		-		9		4		
3			4	1		8		
				6		3		
2	Ī				9		4	1
					4			2
			3				7	
5			7				6	
7	i	i			1			4
					2			5

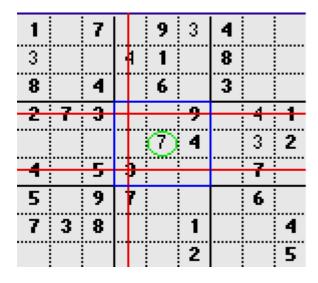
Another 3.

1		7		9		•		
3			4	1		ï		
8		4		6		;		
2		- 7		:	·			
	•			:				
					4		(3)	2
4			-				7	
			,					
5		9	7				6	
7	3	8			1			4
					2			5

Another 3.

1		7			9	(3)	4		
<del>-3</del>			_	H	-	:	0		
8		4			-		3		
	7	3				9	_	4	1
						4		3	2
4		5	•					7	
5		9	-					6	
7	3	8				1			4
			•••			2			5

A 7.



A 1.

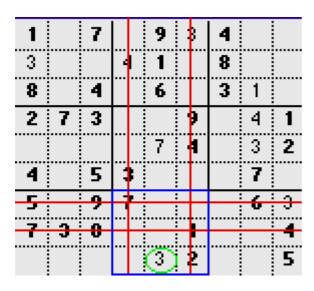
4		_			3			
		•			٧	_		 
<del>-3-</del>		:	4		:	0		H
				<u>-</u>			.,	 
8		4		6		3	$\odot$	
2	7	3			9		4	
				7	4		3	
4		5	3				7	
5		9	7				6	
7	3	8			1			
					2			

Another 3.

1		7		9	3	•		
3			4	1				
8		4		6				
2	7	3			9		4	1
				7	4			2
4		5	3					
5		9	7				ľ	(3)
7	3	8			1			4
					2			5

The last 3.

We have now finished the 3's. There is one and only one in each 3x3 box, each row, and each column.



A 4.

1		7		9		3	4		
3			٠	1			8		
8		4		6			3	1	
2	7	3			•	•		4	1
			l	7		ï		3	2
4		5						7	
5		9		(4)				6	3
7						ш			
•	7	v							7
				3		2			5

The last 4.

1		1		9	3	4		
			4	1		8		
*				6		3	1	
7	7				9		4	1
				7	4		3	2
•		•	3				7	
	:	_	7	- 4	:		-	- 4
		<u> </u>	<b>.</b>				•	٧
	2				1			
		[			•			•
	(1)			3	2			5

Another way to locate numbers is when all others are already present in the same row or column.

1		7		9	:	3	4		
3			4	1			8		
8		4		6			3	1	
2	7	3			•	•		4	1
				7	•	ï		3	2
4		5	3					7	
5	:			4	7	Э,			4
			•	7	N	4		v	7
7	3	8							4
	4			3		2			5

Or same row, column, and 3x3 box.

-			7		9	3	4		
				4	1		8		
1			4		6		3	1	
-		7	3			9		4	1
					7	4		3	2
•			5	3				7	
E			$\odot$	7	4	8		6	3
-		3	8			1			4
Ç	$\supset$	4			3	2			5

The circled squares now have only one possibility.

1		7		9	3	4		$\odot$
3			4	1		8		
8		4		6		3	1	
2	7	3			9		4	1
				7	4		3	2
4		5	3		$\odot$		7	
5		9	7	4	8		6	3
7	3	8		$\odot$	1			4
6	4	$\odot$	$\odot$	3	2			5

Let's fill them in.

1		7		9	3	4		<b>6</b>
3			4	1		8		
8		4		6		3	1	
2	7	3			9		4	1
(9)				7	4		3	2
4		5	3		6		7	
5		9	7	4	8		6	3
7	3	8		(5)	1			4
6	4	(1)	(9)	3	2			5

This has updated the situation so that now the circled squares have only one possibility.

1		7		9	3	4		6
3			4	1		8		
8		4		6		3	1	
2	7	3		$\odot$	9		4	1
9		$\odot$		7	4		3	2
4		5	3		6	$\odot$	7	
5	$\odot$	9	7	4	8		6	3
7	3	8	$\odot$	5	1			4
6	4	1	9	3	2	$\odot$	$\odot$	5

Let's fill them in.

1		7		9	3	4		6
3			4	1		8		
8		4		6		3	1	
2	7	3		(8)	9		4	1
9		◎		7	4		3	2
4		5	3		6	$\odot$	7	
5	2	9	7	4	8		6	3
7	3	8	<b>6</b>	5	1			4
6	4	1	9	3	2	$\bigcirc$	(8)	5

Using the same techniques it's now trivial to complete the puzzle.

