Step 0: Start

Initial puzzle & candidates.

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Step 1: Hidden Single

R3C1 = 1 (hidden single in its unit).

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Step 2: Hidden Single

R9C7 = 3 (hidden single in its unit).

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7		9	7	8	9	7	8					7	8	9		8		7	8	9		8	9	7	8	
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Step 3: Hidden Single

R7C3 = 5 (hidden single in its unit).

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7			7	8			_	•			9		8	9		8			•	•		8		7	8	
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7			7	8									J			8		7	8			8			_	1
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Step 4: Hidden Single

R6C3 = 8 (hidden single in its unit).

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7			7	_	_				H	_		_	_	_		8		7	8		_	8	_			
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Step 5: Naked Single

R6C7 = 6 (naked single).

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Step 6: Naked Single

R3C7 = 8 (naked single).

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Step 7: Hidden Single

R2C8 = 4 (hidden single in its unit).

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Step 8: Hidden Single

R1C7 = 9 (hidden single in its unit).

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Step 9: X-Wing

X-Wing on digit 6 (rows 4, 7 vs cols 1, 2) \rightarrow eliminate 6 from: R1C2: -{6}, R2C1: -{6}, R2C2: -{6}.

7	8	3	4		2	2 3	2 3	2 3	4 6 2 3 6	2 3 6	4 6 1	4 6 1 2 3 6 8	4 6 1 2 3 6 8	4 6 1 5 2 3 6 8 5	4 6 1 5 2 3 6 8 5	4 6 1 5 4	4 6 1 5 4 5 2 3 6 8 5 5	4 6 1 5 4 5 6 2 3 6 8 5 5 6	4 6 1 5 4 5 6 2 3 6 8 5 5 6	4 6 1 5 4 5 6 9 2 3 6 8 5 5 6 1	4 6 1 5 4 5 6 9 2 3 6 8 5 5 6 1	4 6 1 5 4 5 6 9 7 2 3 6 8 5 5 6 1 4	4 6 1 5 4 5 6 9 7 2 3 6 8 5 5 6 1 4	4 6 1 5 4 5 6 9 7 2 3 6 8 5 5 6 1 4	4 6 1 5 4 5 6 9 7 5
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Step 10: Locked Candidates (Pointing)

In box 3, digit 3 sits only in column 9 \rightarrow remove 3 from column 9 outside the box.

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

Step 11: Locked Candidates (Pointing)

In box 3, digit 5 sits only in column 9 \rightarrow remove 5 from column 9 outside the box.

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7	2	3	7	2	3	7		6		8	,	7	2	3		2	3		1		4			5	3 6
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	5		4	2	3		8	}	4	2		1	2	3		7	,		6	1		3		9	
4		6	1 4 7	8	6		5)		3		1	2	9	1	2		7	2	1	8	9	1	8	
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7		9	1 7	8	9		2)	7	5	9	1 7	5 8	9	1	5			3		6		•	4	ı

Step 12: Locked Candidates (Pointing)

In box 6, digit 1 sits only in column 8 \rightarrow remove 1 from column 8 outside the box.

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Step 13: Locked Candidates (Pointing)

In box 9, digit 5 sits only in row 8 \rightarrow remove 5 from row 8 outside the box.

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7	2	3 6	7	2	3 6		1			2 5	9	,	2 5 8	3		2 5 8	3		4		5	3	7	8	
4		3	4		3		9)	4	5			6		1 4	5	3	7	5	1	5	3		2	
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4		6	1 4 7	8	6		5)		3		1 7	2	9	1	2		7	2		8	9	1	8	
7		9	1	8	9		3			6)		4		1	2		7	2 5		5	9	1	8	
7		9	1 7	8	9		2	1	7	5	9	1	5	9	1	5			3		6		•	4	•

Step 14: Locked Candidates (Claiming)

In column 3, all candidates 4 lie in one box \rightarrow remove 4 from the rest of that box.

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Step 15: Locked Candidates (Claiming)

In column 3, all candidates 7 lie in one box \rightarrow remove 7 from the rest of that box.

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Step 16: Locked Candidates (Claiming)

In column 4, all candidates 2 lie in one box \rightarrow remove 2 from the rest of that box.

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Step 17: Naked Pair

Naked Pair [1, 3] in Unit at cells [R6C5, R6C8] \rightarrow eliminate [1, 3] from: R6C2: -{3}.

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Step 18: Naked Pair

Naked Pair [7, 9] in Unit at cells [R8C1, R9C1] \rightarrow eliminate [7, 9] from: R2C1: -{9}, R4C1: -{7}, R5C1: -{7}, R7C1: -{7,9}.

	8			2	3	4		6		1			2 5	3	4	2 5	3 6		9		7	1		5	3 6
	2	3		2	3			6					2	3		2	3	\vdash	_		<u>′</u> л			5	3
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Step 19: Hidden Single

R2C2 = 9 (hidden single in its unit).

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7	,	\neg	1	8			3			6)		4		1	2		7	2 5		5	9	1	8	
7		\neg	1 7	8			2)	7	5	9	1	5	9	1	5			3		6			4	

Step 20: Locked Candidates (Pointing)

In box 4, digit 7 sits only in column 2 \rightarrow remove 7 from column 2 outside the box.

	_			2	3					_			2	3		2	3		_						3
	8					4		6		1			5		4	5	6		9		7			5	6
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Step 21: Naked Pair

Naked Pair [1, 8] in Unit at cells [R8C2, R9C2] \rightarrow eliminate [1, 8] from: R7C2: -{1,8}.

	8			2	3	4		6		1			2 5	3	4	2 5	3 6		9		7			5	3 6
	2	3		9		7		6		8)	7	2 5	3		2 5	3 6		1		4			5	3 6
	1			5	ı	4		6	4			7		3		9)		8		2				3 6
	2	3 6	7	2	3 6		1			2 5	9		5	3		5	3		4		5	3	7	8	
4		3	4		3		9)	4	5			6)	1 4	5	3	7	5	1	5 8	3		2	
	5		4	2			8		4	2		1		3		7	,		6	1		3		9	
4		6	4		6		5)		3	,	1 7	2	9	1	2		7	2		8	9	1	8	
7		9	1	8			3			6)		4		1	2		7	2 5		5	9	1	8	
7		9	1	8			2)	7	5	9	1 7	5 8	9	1	5			3		6			4	•

Step 22: Hidden Pair

Hidden Pair [1, 8] in Unit at cells [R5C6, R5C8] \rightarrow strip other candidates: R5C6: -{3,4,5}, R5C8: -{3,5}.

				2	3								2	3		2	3								3
	8			2	3	4		6		1			5	3	4	5	6		9		7			5	6
	0	1				Ĺ.		_		1	ı				ľ	_			9		_			_	_
	2	3		_						_			2	3		2	3		_		_				3
				9		7		6		8		7	5			5	6		1	۱	4			5	6
														3											3
	1			5)	4		6	4							9			8		2				6
	_	_		_	2	7			7	2		7		2		_	_	-			_				
	2	3 6		2	3 6		1			2 5			5	3		5	3		Л		5	3			
		0	7		٥		1	•		,	9		8	9		8			4		8		7	8	
		3			3	Г			Г		_			_	1					1		ī			
4			4				9)	4	5			6						5					2	
			7						L				_		L	8		7		L	8				
	_			2			_			2		1		3		_			_	1		3		_	
	5		4				8	,	4							/			6					9	
									Н			1	2		1	2			2				1		
4		6	4		6		5			3		-	-		-	-			-				-		
							J	'		<u> </u>		7	8	9		8		7			8	9	7	8	
			1												1	2			2				1		
							3			6			4						5		5				
7		9		8			_		L	_			_			8	_	7			8	9	7	8	
			1				_			_		1	_		1	_			_					"	
7		9		8			2		7	5	9	7	5 8	9		5 8			3		6			4	•
7		9		ŏ					/		9	/	ŏ	9		ŏ									

Step 23: Hidden Single

R1C6 = 4 (hidden single in its unit).

									_																
	8			2	3			6		1			5	3	L	4			9		7	1		5	6
	2	3		9		7		6		8)	7	2 5	3			3 6		1		4	ı		5	3 6
	1			5		4		6	7			7		3		9			8		2				3 6
		3 6	7	2	3 6		1	•		2 5	9		5	3		5	З		4		5 8	3	7	8	
4	;	3	4		3		9)	4	5			6		1	8		7	5	1	8			2	
	5		4	2			8	}	4	2		1		3		7			6	1		3		9	
4		6	4		6		5	•		3	,	1 7	2	9	1	2		7	2		8	9	1 7	8	
7	,	9	1	8			3	}		6)		4		1	2		7	2 5		5	9	1	8	
7		9	1	8			2)	7	5	9	1 7	5 8	9	1	5			3		6			4	ı

Step 24: Naked Single

R1C3 = 6 (naked single).

	8		2	3	6	;		1	ı		2 5	3		4			9		7			5	3
	2 3	3	9	1	7			8	,	7	2 5	3		2 5	3 6		1		4	ı		5	3 6
	1		5)	4		7			7		3		9			8		2				3 6
	2 3	6	2	3 6	1	7		2 5	9		5	3		5	3		4		5 8	3	7	8	
4	3	3 4	4	3	9)	4	5			6		1	8		7	5	1	8			2	
	5		2		8	3	4	2		1		3		7			6	1		3		9	
4	6	5 4	4	6	5	;		3		1	2	9	1	2		7	2		8	9	1	8	
7	ç		1 8		3	3		6)		4		1	2		7	2 5		5 8	9	1	8	
7	g	:	1 8		2)	7	5	9	1	5 8	9	1	5		,	3		6	,	,	4	

Step 25: Naked Single

R2C3 = 7 (naked single).

	8			2 3		6			1	ı		2 5	3		4	1		9		7			5	3
	2	3	•	9		7			8			2 5	3		2 5	3 6		1		4	ı		5	3 6
	1		ļ	5	4			7			7		3		9			8		2				3 6
		3 6	7	2 3 6		1			2 5	9		5	3		5 8	3		4		5 8	3	7	8	
4		3	4	3		9		4	5			6		1	8		7	5	1	8			2	
	5			2		8		4	2		1		3		7			6	1		3		9	
4		6	4	6		5			3		1	2	9	1	2		7	2		8	9	1	8	
7	,	9	1	8		3	1		6	ı		4		1	2		7	2		5 8	9	7	8	
7		\neg	1	8		2		7	5	9	1	5 8	9	1	5		,	3		6	,	,	4	

Step 26: Naked Single

R3C3 = 4 (naked single).

	8		2	3		6		1	ı		2 5	3		4			9		7	ı		5	3
	2 3		9		•	7		8			2 5	3		2 5	3 6		1		4	ı		5	3 6
	1		5	1	4	4	7			7		3		9			8		2				3 6
	2 3	- 1	2	3 6	•	1		2 5	9		5	3		5	3		4		5 8	3	7	8	
4	3	$\overline{}$	ļ	3	•	9	4	5			6		1	8		7	5	1	8			2	
	5	4	2		8	8	4	2		1		3		7			6	1		3		9	
4	6	4		6	ļ	5		3		1	2	9	1	2		7	2		8	9	1	8	
7	9	1	. 8			3		6)		4	ı	1	2		7	2 5		5 8	9	1	8	
7	9	1				2	7	5	9	1	5 8	9	1	5		•	3		6	J		4	1

Step 27: Naked Single

R3C4 = 7 (naked single).

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

Step 28: Naked Single

R3C5 = 3 (naked single).

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

Step 29: Naked Single

R3C9 = 6 (naked single).

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

Step 30: Naked Single

R6C5 = 1 (naked single).

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

Step 31: Naked Single

R5C6 = 8 (naked single).

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

Step 32: Naked Single

R5C8 = 1 (naked single).

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

Step 33: Naked Single

R6C8 = 3 (naked single).

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

Step 34: Hidden Single

R2C6 = 6 (hidden single in its unit).

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

Step 35: Hidden Single

R4C6 = 3 (hidden single in its unit).

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

Step 36: Hidden Single

R9C6 = 5 (hidden single in its unit).

8	2 3	6	1	2 5	4	9	7	3 5
2 3	9	7	8	2 5	6	1	4	3 5
1	5	4	7	M	9	8	2	6
2 6	2 6 7	1	2 5 9	5 9	3	4	5 8	7 8
3	3 4 7	9	4 5	6	8	5 7	1	2
5	2	8	2 4	1	7	6	3	9
4 6	4 6	5	3	2 7 8 9	1 2	2 7	8 9	1 7 8
7 9	1 8	3	6	4	1 2	2 5 7	5 8 9	1 7 8
7 9	1 8	2	9	789	5	3	6	4

Step 37: Naked Single

R9C4 = 9 (naked single).

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

Step 38: Naked Single

R9C1 = 7 (naked single).

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

Step 39: Naked Single

R8C1 = 9 (naked single).

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

Step 40: Naked Single

R9C5 = 8 (naked single).

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

Step 41: Naked Single

R9C2 = 1 (naked single).

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

Step 42: Naked Single

R8C2 = 8 (naked single).

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

Step 43: Naked Single

R8C8 = 5 (naked single).

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

Step 44: Naked Single

R4C8 = 8 (naked single).

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

Step 45: Naked Single

R4C9 = 7 (naked single).

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

Step 46: Naked Single

R5C7 = 5 (naked single).

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

Step 47: Naked Single

R5C4 = 4 (naked single).

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

Step 48: Naked Single

R5C1 = 3 (naked single).

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

Step 49: Naked Single

R2C1 = 2 (naked single).

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

Step 50: Naked Single

R1C2 = 3 (naked single).

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

Step 51: Naked Single

R1C9 = 5 (naked single).

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

Step 52: Naked Single

R1C5 = 2 (naked single).

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

Step 53: Naked Single

R2C5 = 5 (naked single).

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

Step 54: Naked Single

R2C9 = 3 (naked single).

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

Step 55: Naked Single

R4C1 = 6 (naked single).

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

Step 56: Naked Single

R4C2 = 2 (naked single).

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

Step 57: Naked Single

R4C4 = 5 (naked single).

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

Step 58: Naked Single

R4C5 = 9 (naked single).

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

Step 59: Naked Single

R5C2 = 7 (naked single).

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

Step 60: Naked Single

R6C2 = 4 (naked single).

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

Step 61: Naked Single

R6C4 = 2 (naked single).

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

Step 62: Naked Single

R7C1 = 4 (naked single).

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

Step 63: Naked Single

R7C2 = 6 (naked single).

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

Step 64: Naked Single

R7C5 = 7 (naked single).

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

Step 65: Naked Single

R7C7 = 2 (naked single).

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

Step 66: Naked Single

R7C6 = 1 (naked single).

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

Step 67: Naked Single

R7C8 = 9 (naked single).

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

Step 68: Naked Single

R7C9 = 8 (naked single).

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

Step 69: Naked Single

R8C6 = 2 (naked single).

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

Step 70: Naked Single

R8C7 = 7 (naked single).

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

Step 71: Naked Single

R8C9 = 1 (naked single).

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