

STANDARD-LAYOUT SUDOKU PACKS START AT
SUDOKUPRINTOUT.COM

Printable PDF Booklet

XY-Chain Practice Sudoku

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates

Every puzzle in this booklet is filtered to require XY-Chain. It is designed for solvers who want deliberate, targeted practice on paper.

DIFFICULTY

Custom / Custom

LAYOUT

4 Puzzles Per Page

TECHNIQUE

XY-Chain

CANDIDATES

Included

ANSWER KEY

Included at the end

GENERATED

Apr 12, 2026

PAPER

A4 / US Letter

You are welcome to share this booklet freely.

HINT SUPPORT

Need a logical hint? Every booklet here uses the same Puzzle IDs as [sudoku-puzzle.org](https://www.sudoku-puzzle.org). Open that site, enter your Puzzle ID in the "Start Game" dialog, and launch the solver for a clean step-by-step walkthrough. For more printable layouts and levels, visit [sudoku-printout.com](https://www.sudoku-printout.com).

XY-CHAIN PRACTICE SUDOKU [VOL.9]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | sudokuprintout.com

#1 (ID: #338203)

SCORE: 344

STEPS: 71

Level 7

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 6 | | | | | 4 | |
| | | | | 4 | | | 2 |
| | | | 6 | 7 | | | 5 |
| | | 5 | | | | | |
| 2 | | 7 | | | | 4 | 9 |
| 9 | | | | | | | |
| 5 | | | | | 2 | | 9 |
| | | | 5 | | | | 8 |
| 4 | | 1 | | | 9 | 6 | |

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XY-Wing, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, XY-Chain, Unique Rectangle Type 4

#2 (ID: #499254)

SCORE: 293

STEPS: 71

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XYZ-Wing, WXYZ-Wing, 2-String Kite, 3 Strong Links, XY-Chain, Unique Rectangle Type 3

#3 (ID: #360508)

SCORE: 247

STEPS: 68

Level 7

| | | | | | | | |
|---|--|---|---|---|---|---|---|
| 8 | | | 5 | 7 | | | |
| 5 | | | 2 | | 9 | | 6 |
| | | | | | 8 | | 3 |
| | | | 6 | | | 2 | |
| | | | 8 | | | 7 | 4 |
| 6 | | | | 4 | | | 8 |
| | | | 7 | | | | |
| | | | | | 2 | 9 | |
| 4 | | 7 | | 6 | | | |

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, VWXYZ-Wing, XY-Chain, Chute Remote Pairs

#4 (ID: #346872)

SCORE: 298

STEPS: 68

Level 7

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | 1 | 9 | | | |
| | | | | 4 | | | 5 |
| | 7 | 9 | | | 8 | | 1 |
| | | | 7 | | | 1 | 4 |
| | 5 | | | | 4 | | 7 |
| 6 | | | | | | 3 | 8 |
| | | 8 | | | 3 | | |
| | | | 5 | | 9 | | |
| | | | | 8 | | | 4 |

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, X-Wing, XY-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain, Unique Rectangle Type 4

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#5 (ID: #535706)

SCORE: 300

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, XY-Chain

#6 (ID: #363064)

SCORE: 198

STEPS: 67

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Triples, WXYZ-Wing, XY-Chain

#7 (ID: #529375)

SCORE: 304

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, WXYZ-Wing, Turbot Fish, XY-Chain, Unique Rectangle Type 4

#8 (ID: #358507)

SCORE: 354

STEPS: 73

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Naked Triples, 2-String Kite, Skyscraper, XY-Chain, Unique Rectangle Type 4

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#9 (ID: #164135)

SCORE: 351

STEPS: 75

Level 7

| | | | | | | | | |
|---|---|--|---|---|---|---|---|---|
| 4 | | | | 1 | | | 2 | |
| | | | 6 | | | | | |
| | 2 | | | | | | 5 | 4 |
| 5 | | | | 6 | | | 7 | |
| | | | | 2 | | 8 | 6 | 9 |
| 1 | | | | | 8 | | | |
| 9 | | | | | | | 8 | |
| | 5 | | 8 | | | 6 | | |
| | | | | 7 | 4 | | 1 | |

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Triples, VWXYZ-Wing, Skyscraper, XY-Chain

#10 (ID: #94641)

SCORE: 138

STEPS: 61

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, XY-Chain, Unique Rectangle Type 4

#11 (ID: #373544)

SCORE: 280

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Grouped Skyscraper, XY-Chain

#12 (ID: #513930)

SCORE: 298

STEPS: 72

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, 2-String Kite, XY-Chain, Unique Rectangle Type 1

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#13 (ID: #369635)

SCORE: 255

STEPS: 69

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain

#14 (ID: #249054)

SCORE: 427

STEPS: 80

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Hidden Triples, Skyscraper, 3 Strong Links, XY-Chain

#15 (ID: #535661)

SCORE: 299

STEPS: 69

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, XY-Chain

#16 (ID: #49947)

SCORE: 337

STEPS: 72

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, 2-String Kite, Skyscraper, 3 Strong Links, XY-Chain, Unique Rectangle Type 4

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#17 (ID: #278035)

SCORE: 201

STEPS: 64

Level 7

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | | 8 | | 2 | | | | 4 |
| | 2 | 7 | 8 | | | 3 | 1 | |
| | 4 | | | 6 | 5 | | | |
| | | 4 | | | | | | |
| | | | 7 | | | | 8 | 3 |
| | 6 | | 4 | 8 | | | | |
| | | | 5 | | | | 6 | |
| 3 | | | | | | 7 | | |
| | | | | | | | | |

Techs: Naked Single, Hidden Single, Pointing, X-Wing, 2-String Kite, Skyscraper, XY-Chain, Unique Rectangle Type 4

#18 (ID: #33314)

SCORE: 259

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, 2-String Kite, Turbot Fish, 3 Strong Links, XY-Chain, Unique Rectangle Type 4

#19 (ID: #180744)

SCORE: 258

STEPS: 69

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, X-Wing, XY-Wing, XYZ-Wing, 2-String Kite, XY-Chain

#20 (ID: #384863)

SCORE: 271

STEPS: 67

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XY-Wing, WXYZ-Wing, Skyscraper, XY-Chain

💡 Stuck? Enter the Puzzle ID at sodukupuzzle.org for step-by-step logical hints.

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#21 (ID: #22202)

SCORE: 263

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, VWXYZ-Wing, Turbot Fish, XY-Chain, BUG (Bivalve Universal Grave)

#22 (ID: #384840)

SCORE: 253

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XY-Wing, WXYZ-Wing, Skyscraper, XY-Chain

#23 (ID: #155841)

SCORE: 323

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, Naked Triples, WXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, XY-Chain

#24 (ID: #222745)

SCORE: 241

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, 2-String Kite, Turbot Fish, 3 Strong Links, XY-Chain, Unique Rectangle Type 4

XY-CHAIN PRACTICE SUDOKU [VOL.9]

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#1 (ID: #338203)

SCORE: 344

STEPS: 71

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XY-Wing, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, XY-Chain, Unique Rectangle Type 4

#2 (ID: #499254)

SCORE: 293

STEPS: 71

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XYZ-Wing, WXYZ-Wing, 2-String Kite, 3 Strong Links, XY-Chain, Unique Rectangle Type 3

#3 (ID: #360508)

SCORE: 247

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, VWXYZ-Wing, XY-Chain, Chute Remote Pairs

#4 (ID: #346872)

SCORE: 298

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, X-Wing, XY-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain, Unique Rectangle Type 4

XY-CHAIN PRACTICE SUDOKU [VOL.9]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | sudokuprintout.com

#5 (ID: #535706)

SCORE: 300

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, XY-Chain

#6 (ID: #363064)

SCORE: 198

STEPS: 67

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Triples, WXYZ-Wing, XY-Chain

#7 (ID: #529375)

SCORE: 304

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, WXYZ-Wing, Turbot Fish, XY-Chain, Unique Rectangle Type 4

#8 (ID: #358507)

SCORE: 354

STEPS: 73

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Naked Triples, 2-String Kite, Skyscraper, XY-Chain, Unique Rectangle Type 4

XY-CHAIN PRACTICE SUDOKU [VOL.9]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | sudokuprintout.com

#9 (ID: #164135)

SCORE: 351

STEPS: 75

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Triples, VWXYZ-Wing, Skyscraper, XY-Chain

#10 (ID: #94641)

SCORE: 138

STEPS: 61

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, XY-Chain, Unique Rectangle Type 4

#11 (ID: #373544)

SCORE: 280

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Grouped Skyscraper, XY-Chain

#12 (ID: #513930)

SCORE: 298

STEPS: 72

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, 2-String Kite, XY-Chain, Unique Rectangle Type 1

XY-CHAIN PRACTICE SUDOKU [VOL.9]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | sudokuprintout.com

#17 (ID: #278035)

SCORE: 201

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, X-Wing, 2-String Kite, Skyscraper, XY-Chain, Unique Rectangle Type 4

#18 (ID: #33314)

SCORE: 259

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, 2-String Kite, Turbot Fish, 3 Strong Links, XY-Chain, Unique Rectangle Type 4

#19 (ID: #180744)

SCORE: 258

STEPS: 69

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, X-Wing, XY-Wing, XYZ-Wing, 2-String Kite, XY-Chain

#20 (ID: #384863)

SCORE: 271

STEPS: 67

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XY-Wing, WXYZ-Wing, Skyscraper, XY-Chain

XY-CHAIN PRACTICE SUDOKU [VOL.9]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | sudokuprintout.com

#21 (ID: #22202)

SCORE: 263

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, VWXYZ-Wing, Turbot Fish, XY-Chain, BUG (Bivalve Universal Grave)

#22 (ID: #384840)

SCORE: 253

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XY-Wing, WXYZ-Wing, Skyscraper, XY-Chain

#23 (ID: #155841)

SCORE: 323

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, Naked Triples, WXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, XY-Chain

#24 (ID: #222745)

SCORE: 241

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, 2-String Kite, Turbot Fish, 3 Strong Links, XY-Chain, Unique Rectangle Type 4

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#1 (ID: #338203)

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

#2 (ID: #499254)

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

#3 (ID: #360508)

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

#4 (ID: #346872)

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

#5 (ID: #535706)

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

#6 (ID: #363064)

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

#7 (ID: #529375)

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

#8 (ID: #358507)

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

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#9 (ID: #164135)

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

#10 (ID: #94641)

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

#11 (ID: #373544)

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

#12 (ID: #513930)

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

#13 (ID: #369635)

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

#14 (ID: #249054)

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

#15 (ID: #535661)

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

#16 (ID: #49947)

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

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#17 (ID: #278035)

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

#18 (ID: #33314)

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

#19 (ID: #180744)

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

#20 (ID: #384863)

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

#21 (ID: #22202)

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

#22 (ID: #384840)

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

#23 (ID: #155841)

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

#24 (ID: #222745)

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