

MORE PRINTABLE SUDOKU WITH ANSWER KEYS AT  
SUDOKUPRINTOUT.COM

Printable PDF Booklet

# VWXYZ-Wing Practice Sudoku

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

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

## DIFFICULTY

Custom / Custom

## LAYOUT

4 Puzzles Per Page

## TECHNIQUE

VWXYZ-Wing

## CANDIDATES

Included

## ANSWER KEY

Included at the end

## GENERATED

Apr 12, 2026

## PAPER

A4 / US Letter

*You are welcome to share this booklet freely.*

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## 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).

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://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: #116402)

SCORE: 326

STEPS: 71

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Naked Triples, XYZ-Wing, VWXYZ-Wing, Turbot Fish, Grouped Skyscraper, Grouped 2-String Kite

#3 (ID: #370972)

SCORE: 210

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, VWXYZ-Wing, Grouped Skyscraper

#4 (ID: #456603)

SCORE: 262

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, VWXYZ-Wing, Skyscraper, Chute Remote Pairs, Unique Rectangle Type 2

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

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#5 (ID: #25882)

SCORE: 98

STEPS: 60

Level 7

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

Techs: Naked Single, Hidden Single, X-Wing, VWXYZ-Wing

#6 (ID: #128832)

SCORE: 366

STEPS: 73

Level 7

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

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

#7 (ID: #200849)

SCORE: 289

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, Chute Remote Pairs

#8 (ID: #500035)

SCORE: 183

STEPS: 64

Level 7

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

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

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#9 (ID: #551406)

SCORE: 166

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, VWXYZ-Wing, Skyscraper

#10 (ID: #551407)

SCORE: 166

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, VWXYZ-Wing, Skyscraper

#11 (ID: #82321)

SCORE: 510

STEPS: 85

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Wing, VWXYZ-Wing, Skyscraper, Turbot Fish, Grouped 2-String Kite, Grouped Turbot Crane, Unique Rectangle Type 2, Unique Rectangle Type 4

#12 (ID: #353768)

SCORE: 252

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, WXYZ-Wing, VWXYZ-Wing, Skyscraper, Turbot Fish, XY-Chain

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#13 (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

#14 (ID: #419592)

SCORE: 170

STEPS: 65

Level 7

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

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

#15 (ID: #422651)

SCORE: 331

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Swordfish, XY-Wing, VWXYZ-Wing, 2-String Kite, Grouped 2-String Kite, BUG (Bivalue Universal Grave)

#16 (ID: #116031)

SCORE: 281

STEPS: 73

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, X-Wing, WXYZ-Wing, VWXYZ-Wing, Skyscraper, Unique Rectangle Type 2

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

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#17 (ID: #498023)

SCORE: 319

STEPS: 75

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, XYZ-Wing, VWXYZ-Wing, Skyscraper, Unique Rectangle Type 2

#18 (ID: #475276)

SCORE: 170

STEPS: 63

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, VWXYZ-Wing, Skyscraper, Grouped 2-String Kite, Chute Remote Pairs

#19 (ID: #262598)

SCORE: 329

STEPS: 76

Level 7

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

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

#20 (ID: #463473)

SCORE: 204

STEPS: 66

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, XYZ-Wing, VWXYZ-Wing, Turbot Fish, 3 Strong Links

💡 Stuck? Enter the Puzzle ID at [sodukupuzzle.org](http://sodukupuzzle.org) for step-by-step logical hints.

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#21 (ID: #44762)

SCORE: 197

STEPS: 63

Level 7

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

Techs: Naked Single, Hidden Single, Naked Pairs, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Unique Rectangle Type 4

#22 (ID: #471842)

SCORE: 357

STEPS: 72

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, VWXYZ-Wing, 2-String Kite, 3 Strong Links, Grouped Skyscraper, XY-Chain

#23 (ID: #260755)

SCORE: 174

STEPS: 65

Level 7

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

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

#24 (ID: #139016)

SCORE: 341

STEPS: 71

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, X-Wing, XY-Wing, VWXYZ-Wing, 2-String Kite, 3 Strong Links, 4 Strong Links, Grouped Skyscraper, XY-Chain

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#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   | 2   |
| 7     | 7 9   | 9   | 8 9   | 8 9   | 8 9   | 7 8 9 | 7 8   | 7   |
| 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     | 8   |
| 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   | 7 6 |
| 7 8 9 | 7 8 9 | 7 8 | 7 8 9 | 7 8   | 7 8   | 7 8   | 7 8   | 7   |
| 2     | 1 3   | 7   | 1 3   | 1 3   | 1 3   | 4     | 1 3   | 9   |
| 8     | 8     | 8   | 8     | 5 6   | 5 6   | 5 6   | 5 6   | 5 6 |
| 9     | 1 3   | 3   | 1 2 3 | 1 2 3 | 1 3   | 1 2 3 | 1 2 3 | 1 3 |
| 4     | 4     | 4   | 4     | 4 5 6 | 4 5 6 | 5     | 5 6   | 6   |
| 8     | 8     | 8   | 7 8   | 7 8   | 7 8   | 7 8   | 7 8   | 7   |
| 5     | 3     | 3   | 1 3   | 1 3   | 2     | 1 3   | 9     | 1 3 |
| 7 8   | 7 8   | 8   | 4     | 4 6   | 4 6   | 7     | 7     | 4   |
| 7 8   | 7 8   | 8   | 7 8   | 7 8   | 7     | 7     | 7     | 7   |
| 3     | 2 3   | 2 3 | 5     | 1 3   | 1 3   | 1 2 3 | 1 2 3 | 8   |
| 7     | 7 9   | 9   | 5     | 4 6   | 4 6   | 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: #116402)

SCORE: 326

STEPS: 71

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Naked Triples, XYZ-Wing, VWXYZ-Wing, Turbot Fish, Grouped Skyscraper, Grouped 2-String Kite

#3 (ID: #370972)

SCORE: 210

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, VWXYZ-Wing, Grouped Skyscraper

#4 (ID: #456603)

SCORE: 262

STEPS: 70

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, VWXYZ-Wing, Skyscraper, Chute Remote Pairs, Unique Rectangle Type 2

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#5 (ID: #25882)

SCORE: 98

STEPS: 60

Level 7

|            |            |            |            |            |            |          |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|----------|------------|------------|------------|------------|-----|
| 4 5<br>8 9 | <b>7</b>   | 4<br>8 9   | <b>6</b>   | 1<br>4     | 1<br>4     | 4        | 1 2<br>4   | <b>3</b>   |            |            |     |
| 4 6<br>6 9 | 4 6<br>4 9 | 4 6<br>4 9 | <b>2</b>   | <b>3</b>   | 1<br>4 7   | 9        | 4 6<br>7   | <b>5</b>   | <b>8</b>   |            |     |
| 4 3<br>8   | 4 2<br>8   | 6          | <b>1</b>   | 4          | 4          | <b>5</b> | <b>9</b>   | 4 2<br>7 6 | 4 2<br>4 7 |            |     |
| <b>7</b>   | 4 2<br>4 6 | 4 2<br>4 6 | 2 3<br>4 5 | 3<br>4 5   | 2<br>4 5   | 6<br>9   | <b>8</b>   | <b>1</b>   | 4 3<br>4 5 |            |     |
| 1 3<br>4 8 | 1 2<br>4 6 | 2 3<br>4 6 | 3<br>4 5   | 1 2<br>4 5 | 1 2<br>4 5 | 6<br>7   | 4 5<br>7 8 | <b>9</b>   | 4 5<br>7   |            |     |
| 1 3<br>4   | 4          | <b>5</b>   | 4 3<br>7 9 | 1<br>4     | 1<br>4     | 9        | 7 9        | <b>2</b>   | 4 3<br>7 8 | <b>6</b>   |     |
| 1<br>4 5   | 1<br>4 5   | 6<br>8 9   | 4 6<br>8 9 | 4 5<br>8 9 | 4 5<br>8 9 | 2<br>8 9 | <b>3</b>   | 4 5<br>7 8 | 6<br>7 8   | 1 2<br>4 5 | 7 9 |
| 4 5<br>8 9 | 4 5<br>8 9 | 6<br>8 9   | <b>7</b>   | <b>1</b>   | 4 5<br>8 9 | 4 6<br>9 | 4 5<br>8   | 6<br>8     | 4 5<br>6 8 | 4 5<br>9   |     |
| <b>2</b>   | <b>3</b>   | 4 6<br>8 9 | 4 5<br>8 9 | <b>7</b>   | 4 6<br>9   | 4 5<br>8 | 4 5<br>6 8 | 4 6<br>8   | 4 5<br>9   |            |     |

Techs: Naked Single, Hidden Single, X-Wing, VWXYZ-Wing

#6 (ID: #128832)

SCORE: 366

STEPS: 73

Level 7

|            |            |            |              |                |                |            |            |            |              |              |     |
|------------|------------|------------|--------------|----------------|----------------|------------|------------|------------|--------------|--------------|-----|
| 4 3<br>7 8 | <b>9</b>   | <b>5</b>   | <b>1</b>     | 2 3<br>8       | 3<br>8         | 3<br>7 8   | 4<br>3     | <b>6</b>   |              |              |     |
| 4 3<br>6 8 | 2 3<br>6 8 | 4 3<br>4 8 | 2 3<br>5 8   | <b>7</b>       | <b>9</b>       | <b>1</b>   | 4 3<br>4 5 | 8          |              |              |     |
| 1 3<br>7 8 | 1 3<br>7 8 | 1 3<br>7 8 | 1 3<br>7 8   | <b>4</b>       | <b>6</b>       | 3<br>8     | 5<br>7 8 9 | <b>2</b>   | 5 3<br>7 8 9 |              |     |
| 1 3<br>4   | <b>8</b>   | <b>2</b>   | 3<br>9       | 1 3<br>4       | 9              | <b>5</b>   | <b>6</b>   | <b>7</b>   | 1 3<br>9     |              |     |
| 1 3<br>4   | <b>7</b>   | 1 3<br>9   | 2 3<br>8 9   | 1 2 3<br>6 8 9 | 1 3<br>8       | 6<br>8     | <b>4</b>   | 1 3<br>9   | 1 2 3<br>8 9 |              |     |
| 1 3<br>4   | 1 3<br>9   | 1 3<br>9   | <b>6</b>     | 2 3<br>7 8 9   | 1 2 3<br>4 8 9 | 1 3<br>7 8 | 2 3<br>8 9 | <b>5</b>   | 1 2 3<br>8 9 |              |     |
| 1 3<br>5 6 | 1 3<br>5 6 | 1 3<br>8 9 | 1 3<br>7 8 9 | 3<br>7 8 9     | 1 3<br>4 5     | 8 9        | <b>2</b>   | 5 3<br>7 9 | 1 3<br>4 5   | 1 3<br>7 9   |     |
| <b>2</b>   | 1 3<br>5 6 | 1 3<br>9   | 1 3<br>9     | 3<br>7 9       | 1 3<br>4 5     | 1 3<br>9   | 4 6<br>7   | 5 3<br>7 9 | <b>8</b>     | 1 3<br>4 5   | 7 9 |
| 1 3<br>5 6 | <b>4</b>   | <b>7</b>   | 3<br>8 9     | 1 3<br>5 6     | 1 3<br>8 9     | 3<br>6     | 2 3<br>5 9 | 1 3<br>6 5 | 1 2 3<br>9   | 1 2 3<br>5 9 |     |

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

#7 (ID: #200849)

SCORE: 289

STEPS: 70

Level 7

|            |            |            |            |            |            |            |            |            |            |        |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|
| 1 2<br>4 5 | 4 6<br>7 8 | 1 2<br>4 5 | 2<br>4 5   | 6<br>8     | <b>3</b>   | 4 6<br>7   | 1 2<br>5 6 | 2<br>4 5   | 1 2<br>4 5 | 6<br>8 |
| 1 2<br>4 5 | 1<br>4 6   | <b>9</b>   | <b>8</b>   | 4 5<br>6   | 4 6        | 1 2<br>5 6 | 2 3<br>4 5 | <b>7</b>   |            |        |
| 2<br>4 5   | <b>3</b>   | 2<br>4 5   | <b>9</b>   | 4 5<br>6   | <b>1</b>   | 2<br>5 6   | 2<br>4 5   | 2<br>4 5   | 2<br>4 5   | 6<br>8 |
| 1<br>4 5   | 1<br>4 6   | 1 3<br>4 5 | <b>7</b>   | 4 5<br>6   | 4 6<br>9   | 1 2<br>5 6 | <b>8</b>   | 1 2<br>4 5 | 6          |        |
| 4 5<br>7 8 | <b>2</b>   | 4 5<br>7 8 | 4 5<br>6   | <b>1</b>   | 4 6<br>8 9 | <b>3</b>   | 4 5<br>7   | 4 5<br>6   |            |        |
| 1<br>4 5   | 1<br>4 6   | 1<br>4 5   | 4 5<br>6   | <b>2</b>   | <b>3</b>   | 1<br>7     | 5 6<br>4 5 | 6<br>7     | <b>9</b>   |        |
| 1<br>7 8   | 6<br>5     | 1<br>7 8   | 6<br>8 9   | <b>2</b>   | 4<br>8 9   | 3<br>7     | 6<br>8     | 3<br>8     | 6          |        |
| <b>3</b>   | 4 6<br>7 8 | 4 6<br>7 8 | 4 6<br>8 9 | 4 6<br>8 9 | <b>5</b>   | 2<br>7 8   | 6<br>8     | <b>1</b>   | 2<br>8     | 6      |
| 1 2<br>4 8 | 1<br>6 4   | 1 2<br>6 4 | 1 3<br>4 6 | 1 3<br>4 6 | <b>7</b>   | 4 6<br>8   | 2<br>5 6   | 9<br>8     | 2 3<br>5 6 | 8      |

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, Chute Remote Pairs

#8 (ID: #500035)

SCORE: 183

STEPS: 64

Level 7

|              |              |          |            |            |            |            |              |              |            |            |
|--------------|--------------|----------|------------|------------|------------|------------|--------------|--------------|------------|------------|
| 1 3<br>7 8   | 1 3<br>7 8   | <b>6</b> | 1<br>7 8   | 1<br>7 8   | <b>5</b>   | <b>2</b>   | 1 3<br>7     | 1 3<br>4 9   |            |            |
| 1 2<br>7 8   | 1 2<br>7 8   | <b>5</b> | 1 2<br>7 8 | 6<br>9     | <b>3</b>   | 1<br>7     | 1<br>4 6     | 1<br>6 4     |            |            |
| 1 2 3<br>7 9 | 1 2 3<br>7   | 1<br>7 9 | <b>4</b>   | 1<br>7     | 2<br>6     | <b>8</b>   | 1 3<br>7     | 1 3<br>5 9   |            |            |
| <b>5</b>     | 2 3<br>7 8   | 7 8 9    | 2<br>7 8   | 4<br>7 8   | <b>1</b>   | 4<br>7     | 2 3<br>7 8   | <b>6</b>     |            |            |
| 1 2 3<br>7 8 | 1 2 3<br>7 8 | 1<br>7 8 | <b>5</b>   | <b>6</b>   | 2<br>4 7 8 | 1<br>4 7   | <b>9</b>     | 1 2 3<br>4 8 |            |            |
| <b>4</b>     | 1 2<br>7 8   | 1<br>7 8 | 2<br>7 8   | 3<br>7 8   | <b>9</b>   | 1<br>7     | 1 2<br>5 7 8 | 1 2<br>5 8   |            |            |
| 1<br>7 8     | 6<br>9       | <b>2</b> | 1 3<br>7 8 | 1<br>7 8   | 5<br>7 8   | 6<br>7 8   | 5 6<br>7 8   | <b>4</b>     | 1<br>5 8   |            |
| 1<br>7 8     | 6<br>8       | 4 5<br>8 | 4<br>8     | 1<br>8 9   | <b>2</b>   | 4 6<br>8   | <b>3</b>     | 1<br>5 6     | 8          | <b>7</b>   |
| 1<br>7 8     | 1<br>7 8     | 4 5<br>8 | <b>3</b>   | 1<br>7 8 9 | 1<br>7 8   | 4 5<br>7 8 | 4 6<br>9     | 5 6<br>8 9   | 1 2<br>5 6 | 1 2<br>5 9 |

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

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#9 (ID: #551406)

SCORE: 166

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, VWXYZ-Wing, Skyscraper

#10 (ID: #551407)

SCORE: 166

STEPS: 64

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, VWXYZ-Wing, Skyscraper

#11 (ID: #82321)

SCORE: 510

STEPS: 85

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Wing, VWXYZ-Wing, Skyscraper, Turbot Fish, Grouped 2-String Kite, Grouped Turbot Crane, Unique Rectangle Type 2, Unique Rectangle Type 4

#12 (ID: #353768)

SCORE: 252

STEPS: 68

Level 7

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, WXYZ-Wing, VWXYZ-Wing, Skyscraper, Turbot Fish, XY-Chain

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#13 (ID: #360508)

SCORE: 247

STEPS: 68

Level 7

|            |                  |                  |          |              |            |                |                |            |
|------------|------------------|------------------|----------|--------------|------------|----------------|----------------|------------|
| 8          | 1 2 3<br>4 6 9   | 1 2 3<br>4 6 9   | 5        | 7            | 1 3<br>4 6 | 1 3<br>4 6     | 1 2<br>4 9     | 1 2<br>9   |
| 5          | 1 3<br>4 7       | 1 3<br>4         | 2        | 1 3<br>9     | 1 3<br>4 8 | 1 3<br>4 8     | 1 2<br>7 8     | 6          |
| 1 2<br>7 9 | 1 2<br>4 6 9     | 1 2<br>4 6 9     | 1<br>4   | 1            | 8          | 1 4 5          | 3              | 1 2<br>5 9 |
| 1 3<br>7 9 | 1 3<br>4 5 8 9   | 1 3<br>4 5 8 9   | 6        | 1 3<br>5 9   | 1 3<br>5 9 | 2              | 1 5<br>9       | 1 3<br>5 9 |
| 1 2 3<br>9 | 1 2 3<br>5 9     | 1 2 3<br>5 9     | 8        | 1 2 3<br>5 9 | 1 3<br>5   | 7              | 1 5 6<br>9     | 4          |
| 6          | 1 2 3<br>5 9     | 1 2 3<br>5 9     | 1 3<br>9 | 4            | 1 3<br>5 7 | 1 3<br>5 9     | 1 3<br>5 9     | 8          |
| 1 2 3<br>9 | 1 2 3<br>5 6 8 9 | 1 2 3<br>5 6 8 9 | 7        | 1 3<br>5 8 9 | 1 3<br>4 5 | 1 3<br>4 5 6 8 | 1 2<br>4 5 6 8 | 1 2 3<br>5 |
| 1 3<br>8   | 1 3<br>5 6 8     | 1 3<br>5 6 8     | 1 3<br>4 | 1 3<br>5 8   | 2          | 9              | 1 4 5 6<br>7 8 | 1 3<br>5 9 |
| 4          | 1 2 3<br>5 8 9   | 7                | 1 3<br>9 | 6            | 1 3<br>5   | 1 3<br>5 8     | 1 2<br>5 8     | 1 2 3<br>5 |

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

#14 (ID: #419592)

SCORE: 170

STEPS: 65

Level 7

|            |          |                |                    |              |              |              |              |              |
|------------|----------|----------------|--------------------|--------------|--------------|--------------|--------------|--------------|
| 1 3<br>7 9 | 6        | 1 2 3<br>4 7 9 | 1 2 3<br>4 5 7 8 9 | 1 2<br>4 8 9 | 1 2<br>4 5 9 | 2 3<br>4 7   | 2 3<br>4 7 9 | 2 3<br>4 7 9 |
| 5          | 1 2<br>4 | 1 2<br>4       | 3                  | 1 2<br>4 9   | 1 2<br>4 9   | 2<br>4 7 9   | 6            | 8            |
| 8          | 2 3<br>4 | 2 3<br>4       | 4 6 7 9            | 4 6 7 9      | 2<br>4 6 9   | 5            | 1            | 2 3<br>4 7 9 |
| 1 3<br>6   | 1 3<br>8 | 1 3<br>8       | 1 3<br>6 8         | 1 3<br>4 6   | 7            | 2            | 9            | 4 5<br>4 5   |
| 1 3<br>9   | 7        | 1 2 3<br>9     | 1 2 3<br>4         | 1 2 3<br>4 9 | 5            | 8            | 2 3<br>4     | 2 3<br>4 6   |
| 4          | 5        | 1 2 3<br>6 8 9 | 1 2 3<br>6 8 9     | 1 3<br>6 9   | 1 3<br>6 9   | 2 3<br>7 8   | 2 3<br>7     | 1 2 3<br>7   |
| 1 6<br>7   | 1 4<br>8 | 1 4 5 6<br>7 8 | 1 4 5 6<br>7 8 9   | 3            | 4 5<br>7 9   | 2<br>4 6 7 9 | 2<br>4 5 7 9 | 2<br>4 5 7 9 |
| 2          | 4 3<br>7 | 4 5 6<br>7     | 4 5 6<br>7 9       | 4 5<br>7 9   | 4            | 4 5<br>9     | 1            | 8            |
| 1 3<br>7   | 9        | 1 3<br>4 5 7 8 | 2                  | 6            | 1 3<br>4 5 7 | 3<br>4 5 7   | 3<br>4 5 7   | 3<br>4 5 7   |

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

#15 (ID: #422651)

SCORE: 331

STEPS: 70

Level 7

|               |                 |            |            |                |                |                |              |            |
|---------------|-----------------|------------|------------|----------------|----------------|----------------|--------------|------------|
| 1             | 4 5<br>3        | 4 5<br>3   | 2 3<br>6   | 9              | 4 6<br>7 8     | 2 3<br>5       | 8            | 7          |
| 3<br>5<br>7 9 | 3<br>5<br>7 8 9 | 5<br>8     | 2 3<br>7 8 | 1 2 3<br>6 7 8 | 1 2 3<br>6 7 8 | 1 2 3<br>5 6 9 | 3<br>5 6     | 4          |
| 2             | 4 3<br>7 8 9    | 6          | 5          | 1 3<br>4 7 8   | 1 3<br>4 7 8   | 1 3<br>9       | 3<br>1 3     | 1 3<br>9   |
| 4 5<br>3      | 4 5<br>3 8      | 7          | 3<br>8     | 1 3<br>4 8     | 2              | 6              | 4 5<br>3 8 9 | 5 3        |
| 4 5 6<br>3    | 4 5 6<br>3 8    | 1          | 9          | 4 6<br>7 8     | 4 6<br>7 8     | 4 5 6<br>7 8   | 4 5<br>8     | 2 3<br>5 8 |
| 4 6<br>3      | 4 6<br>3 8      | 9          | 3<br>7 8   | 3<br>4 6 7 8   | 5              | 2 3<br>7 8     | 1<br>8       | 2 3        |
| 4 5<br>7 9    | 6               | 4 5<br>7 8 | 7 8        | 5<br>7 8       | 3              | 4 5<br>7 8     | 2<br>8       | 1<br>8     |
| 5<br>7        | 1 2<br>5        | 2<br>5     | 4          | 2<br>7 8       | 5 6<br>7 8     | 6<br>7 8       | 1 3<br>7 8   | 9          |
| 8             | 2<br>4 5 7 9    | 3          | 1          | 2<br>5 6 7 9   | 6<br>7 9       | 4 5<br>7       | 4 5 6<br>7   | 5 6        |

Techs: Naked Single, Hidden Single, Pointing, Claiming, Swordfish, XY-Wing, VWXYZ-Wing, 2-String Kite, Grouped 2-String Kite, BUG (Bivalve Universal Grave)

#16 (ID: #116031)

SCORE: 281

STEPS: 73

Level 7

|                |            |          |              |            |            |              |              |                |
|----------------|------------|----------|--------------|------------|------------|--------------|--------------|----------------|
| 2 3<br>4 8     | 3<br>4     | 7        | 2 3<br>4 8   | 3<br>4 9   | 5          | 1 2<br>4 6 9 | 1 2<br>4 9   | 1 2 3<br>4 6 9 |
| 2 3<br>4       | 1          | 2 3<br>4 | 2 3<br>4 7   | 3<br>4 9   | 2<br>4 6 9 | 8            | 2<br>4 7 9   | 2 3<br>4 6 9   |
| 9              | 6          | 5        | 1            | 4 3<br>7   | 4<br>8     | 2<br>7       | 2<br>4 7     | 2 3<br>4 7     |
| 2 3<br>4 7     | 4<br>7 9   | 3<br>4   | 2 3<br>4 9   | 6          | 1<br>4 7 9 | 1<br>4 8 9   | 1 2<br>4 7 9 | 1 2<br>7 8 9   |
| 4 5<br>7       | 8          | 4<br>9   | 4 5<br>9     | 2          | 3          | 1<br>4 6 7 9 | 1<br>4 7 9   | 1<br>4 6 9     |
| 6              | 4 5<br>7 9 | 1        | 4 5<br>7 8 9 | 4 5<br>7 9 | 4          | 3            | 2<br>4 7 8 9 | 2<br>4 7 8 9   |
| 1 3<br>4 7     | 3<br>4 7 9 | 3<br>4 9 | 2 3<br>4 9   | 8          | 1 2<br>4   | 5            | 6            | 1 2<br>4 7 9   |
| 1 3<br>4 5 7 8 | 2<br>4 8   | 3<br>8   | 9            | 1 3<br>4 5 | 1<br>4     | 1<br>7 8     | 1<br>7 8     | 1<br>7 8       |
| 1<br>4 5 8     | 4 5<br>9   | 4<br>8 9 | 2<br>8 9     | 6          | 7          | 1 2<br>4 9   | 3            | 1 2<br>4 8 9   |

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, X-Wing, WXYZ-Wing, VWXYZ-Wing, Skyscraper, Unique Rectangle Type 2

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

4 Puzzles Per Page | 24 Puzzles | With Answers | With Candidates | [sudokuprintout.com](http://sudokuprintout.com)

#17 (ID: #498023)

SCORE: 319

STEPS: 75

Level 7

|            |                 |                   |                   |               |                     |               |               |               |
|------------|-----------------|-------------------|-------------------|---------------|---------------------|---------------|---------------|---------------|
| 1 2<br>4 5 | 2 3<br>4 5 6    | 1 2 3<br>4 5 6    | 1 2 3<br>4 6<br>7 | 3<br>4 6<br>7 | 1 2 3<br>4 6<br>7 9 | <b>8</b>      | 4 5<br>9      | 4 5 6<br>9    |
| 2<br>4     | <b>7</b>        | 2 3<br>4 6<br>8   | 2 3<br>4 6<br>8   | 3<br>4 6<br>8 | <b>5</b>            | <b>1</b>      | 4<br>9        | 4 6<br>9      |
| <b>9</b>   | 3<br>4 5 6<br>8 | 1 3<br>4 5 6<br>8 | 1 3<br>4 6<br>8   | 3<br>4 6<br>8 | 1 3<br>4 6<br>8     | 3<br>5 6      | <b>7</b>      | <b>2</b>      |
| <b>8</b>   | 2 3<br>4 5<br>9 | 1 2 3<br>4 5      | 3<br>4 5<br>7     | 3<br>4 5<br>7 | 3<br>4<br>7         | 2<br>5<br>7 9 | <b>6</b>      | 1<br>4 5<br>9 |
| <b>7</b>   | 2<br>4 5 6<br>9 | 2<br>4 5 6        | <b>8</b>          | <b>1</b>      | 4 6                 | 2<br>5<br>9   | 2<br>4 5<br>9 | <b>3</b>      |
| 1<br>4 5   | 3<br>4 5 6      | 1 3<br>4 5 6      | <b>9</b>          | <b>2</b>      | 4 6<br>7            | 5<br>7        | 1<br>4 5      | <b>8</b>      |
| <b>3</b>   | 2<br>4 5<br>8   | <b>9</b>          | 1 2<br>4 5 6<br>7 | 4 5 6<br>7 8  | 1 2<br>4 6<br>7 8   | 2<br>5 6      | 1 2<br>5<br>8 | 1<br>5 6      |
| <b>6</b>   | <b>1</b>        | 2<br>4 5<br>8     | 2<br>4 5          | 2<br>4 5<br>8 | 2<br>4<br>8         | 2<br>5<br>9   | <b>3</b>      | <b>7</b>      |
| 2<br>5     | 2<br>5          | 2<br>5            | 1 2 3<br>5 6<br>7 | <b>9</b>      | 1 2 3<br>6<br>7 8   | <b>4</b>      | 1 2<br>5<br>8 | 1<br>5 6      |

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, XYZ-Wing, VWXYZ-Wing, Skyscraper, Unique Rectangle Type 2

#18 (ID: #475276)

SCORE: 170

STEPS: 63

Level 7

|            |               |                   |                     |                     |                     |                     |                   |                   |                 |
|------------|---------------|-------------------|---------------------|---------------------|---------------------|---------------------|-------------------|-------------------|-----------------|
| 4<br>8 9   | 6<br>4 6      | 1<br>4 6          | 1<br>4 6            | 7<br>8 9            | 1<br>4 6            | 5<br>8 9            | 2<br>8            | 1<br>8            | 1 3<br>8 6      |
| 5 6<br>8   | <b>3</b>      | 1 2<br>5 6<br>7 8 | 1 2<br>5 6<br>7 8   | 1<br>6<br>8         | 1<br>6<br>8         | 1<br>6              | 1<br>6<br>7 8     | <b>9</b>          | <b>4</b>        |
| 4<br>8 9   | 1<br>4 6<br>7 | 1<br>4 6<br>7     | 1 3<br>6<br>8       | 1 3<br>6<br>8       | 2<br>4 6<br>9       | 1 3<br>6<br>8       | 1 3<br>6<br>8     | <b>5</b>          | 1 3<br>6<br>8   |
| <b>2</b>   | 1<br>4 5 6    | 1<br>4 5 6        | 1 5 6<br>4 5 6<br>8 | 1 5 6<br>4 5 6<br>8 | 1 5 6<br>4 5 6<br>8 | 1 5 6<br>4 5 6<br>8 | 1 3<br>4 6<br>7 8 | 1 3<br>4 6<br>7 8 | 1 3<br>5 6<br>8 |
| <b>7</b>   | <b>9</b>      | <b>3</b>          | 1<br>5 6            | 1<br>4 5 6          | <b>8</b>            | 1<br>4 6<br>8       | 1 2<br>4          | 1 2<br>5 6        |                 |
| 4 5 6<br>8 | 1<br>4 5 6    | 1<br>4 5 6        | <b>2</b>            | <b>3</b>            | 1<br>4 6<br>7       | 1<br>4 6<br>7 8     | 1<br>4 6<br>7 8   | <b>9</b>          |                 |
| 4 5 6      | <b>8</b>      | 2<br>4 5 6<br>7   | <b>9</b>            | 1 5 6<br>7          | 1 2<br>6<br>7       | 1<br>4              | <b>3</b>          | 1 2               |                 |
| <b>1</b>   | 2<br>4 6<br>7 | 2<br>4 6<br>7     | 3<br>6<br>8         | 6<br>7 8            | 2 3<br>6<br>7       | 2 3<br>6<br>7       | <b>5</b>          | 2<br>4<br>8       |                 |
| 3<br>5 9   | 2<br>5        | 2<br>5            | <b>4</b>            | 1<br>5 9            | 1 2 3<br>8          | 1<br>5 6            | 1<br>8 9          | <b>6</b>          | <b>7</b>        |

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, VWXYZ-Wing, Skyscraper, Grouped 2-String Kite, Chute Remote Pairs

#19 (ID: #262598)

SCORE: 329

STEPS: 76

Level 7

|                |              |              |                   |          |                   |            |            |                   |          |
|----------------|--------------|--------------|-------------------|----------|-------------------|------------|------------|-------------------|----------|
| <b>4</b>       | 1 2<br>7 8 9 | 7 8 9        | 7 8 9             | 7 8 9    | 6<br>7 8          | 6<br>7 8   | <b>5</b>   | <b>3</b>          | 1 2<br>7 |
| 1<br>7 8 9     | 1<br>7 8 9   | 5<br>7 8 9   | 3<br>4 5<br>7 8 9 | <b>2</b> | 4 5<br>7 8        | 3<br>7 8 9 | 1<br>7 8 9 | <b>6</b>          | 1<br>7   |
| <b>6</b>       | 2<br>7 8 9   | <b>3</b>     | 5<br>7 8 9        | 7 9      | <b>1</b>          | 4<br>7 8 9 | 7          | 2<br>7            |          |
| 7 8            | <b>3</b>     | <b>2</b>     | 1<br>4<br>7       | <b>5</b> | 4 6<br>7          | 1<br>7 8   | 1<br>7 8   | <b>9</b>          |          |
| <b>5</b>       | 4 6<br>7 9   | <b>1</b>     | 4<br>7 9          | <b>8</b> | 4 6<br>7          | 3<br>7 8   | <b>2</b>   | 4 6<br>7          |          |
| 7 8 9          | 4 6<br>7 8 9 | 4 6<br>7 8 9 | 1 2 3<br>7 8 9    | 3<br>7 9 | 2 3<br>4 6<br>7 8 | 1<br>7 8   | 1<br>7 8   | 1<br>4 5 6        |          |
| 1 2 3<br>7 8 9 | 1 2<br>7 8 9 | 4 6<br>7 8 9 | 2 3<br>7 8        | 3<br>7   | 2 3<br>4 5<br>7 8 | 1 2<br>7 9 | 1<br>7 9   | 1 2 3<br>5 6<br>7 |          |
| 1 2 3<br>7 9   | 1 2<br>7 9   | 7 9          | <b>6</b>          | 3<br>7   | 2 3<br>5<br>7     | 1 2<br>7 9 | <b>4</b>   | <b>8</b>          |          |
| 2 3<br>7 8     | <b>5</b>     | 4 6<br>7 8   | 2 3<br>7 8        | <b>1</b> | <b>9</b>          | 2<br>7     | 2 3<br>7   | 2 3<br>6          |          |

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

#20 (ID: #463473)

SCORE: 204

STEPS: 66

Level 7

|             |                 |                 |          |                   |                 |                 |                   |                   |
|-------------|-----------------|-----------------|----------|-------------------|-----------------|-----------------|-------------------|-------------------|
| 2<br>7      | 2 3<br>5<br>7 9 | 3<br>5<br>7     | 5<br>7   | <b>6</b>          | 1 2<br>5<br>7 9 | 1 2<br>8 9      | <b>4</b>          | 1 2 3<br>5<br>8 9 |
| <b>1</b>    | 2 3<br>5<br>9   | 3<br>4 5<br>7 8 | 3<br>4 5 | <b>8</b>          | 2<br>5<br>9     | <b>7</b>        | 2<br>5 6<br>9     | 2 3<br>5 6<br>9   |
| 2<br>4<br>7 | <b>8</b>        | <b>6</b>        | <b>3</b> | 1 2<br>4 5<br>7 9 | 1 2<br>5<br>7 9 | 1 2<br>5<br>9   | 1 2<br>5<br>9     | 1 2<br>5<br>9     |
| 4 6<br>7    | 3<br>6<br>7     | <b>9</b>        | <b>2</b> | 5 3<br>7          | <b>8</b>        | 1<br>4 6<br>7   | 1<br>5 6<br>7     | 1<br>4 5 6        |
| 2<br>7 8    | 2 3<br>6<br>7   | <b>1</b>        | 5 6<br>7 | 5 3<br>7 9        | <b>4</b>        | 2<br>6<br>8 9   | 2<br>5 6<br>7 8 9 | 2<br>5 6<br>8 9   |
| <b>5</b>    | 2<br>7          | 6 4<br>7 8      | <b>1</b> | 7 9               | 7 9             | 6 4<br>8 9      | <b>3</b>          | 2<br>4 6<br>8 9   |
| <b>3</b>    | <b>4</b>        | 8               | <b>9</b> | 1 2<br>7          | 1 2<br>6        | <b>5</b>        | 1 2<br>6<br>8     | <b>7</b>          |
| <b>9</b>    | 1<br>7          | 5 6<br>7 8      | 5<br>7 8 | 4 5 6<br>7 8      | 4 5<br>7        | 5 6<br>7        | <b>3</b>          | 1 2<br>6 4<br>8   |
| 6<br>7 8    | 1<br>7          | 5 6<br>7 8      | <b>2</b> | 4 5 6<br>7 8      | 1 3<br>4 5<br>7 | 1 3<br>5 6<br>7 | 1<br>4 6<br>8 9   | 1<br>6 4<br>8 9   |

Techs: Naked Single, Hidden Single, Pointing, Claiming, XYZ-Wing, VWXYZ-Wing, Turbot Fish, 3 Strong Links

💡 Stuck? Enter the Puzzle ID at [sodukupuzzle.org](http://sodukupuzzle.org) for step-by-step logical hints.

# VWXYZ-WING PRACTICE SUDOKU [VOL.2]

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#21 (ID: #44762)

SCORE: 197

STEPS: 63

Level 7

|                   |               |                 |            |                   |                     |                 |               |                 |
|-------------------|---------------|-----------------|------------|-------------------|---------------------|-----------------|---------------|-----------------|
| 1 2<br>5 6<br>7 9 | 3<br>5 6<br>9 | 8               | 1 3<br>6 9 | 1 3<br>4 5<br>7 9 | 1 3<br>4 5 6<br>7 9 | 2<br>6<br>7 9   | 1<br>6<br>7 9 | 1 2<br>4<br>7 9 |
| 1<br>7 9          | 6<br>4        | 1 3<br>9        | 2          | 1 3<br>7 9        | 1 3<br>6 8 9        | 6<br>7 8 9      | 6<br>7 8 9    | 5               |
| 1 2<br>5 6<br>7 9 | 5 6<br>9      | 1 2<br>5<br>9   | 1<br>6 8 9 | 1<br>4 5<br>7 9   | 1<br>4 5 6<br>7 8 9 | 2<br>6<br>7 8 9 | 3<br>4<br>7 9 | 1 2<br>4<br>7 9 |
| 3                 | 5<br>8 9      | 1<br>5<br>9     | 4          | 6                 | 1<br>7 9            | 5<br>7 8 9      | 2<br>7 9      |                 |
| 1<br>4 5 6<br>9   | 7             | 1<br>4 5<br>9   | 1 3<br>9   | 1 2 3<br>5<br>9   | 1 2 3<br>5<br>9     | 3<br>8 9        | 5<br>8 9      | 9               |
| 5<br>9            | 2             | 5<br>9          | 3<br>9     | 8                 | 3<br>7 9            | 1<br>7 9        | 4<br>7 9      | 6               |
| 2<br>5<br>9       | 1             | 7               | 3<br>8 9   | 2 3<br>6<br>9     | 2 3<br>6<br>8 9     | 4<br>7 9        | 5 6<br>9      | 2<br>9          |
| 8                 |               | 6               | 5          | 1 2<br>4<br>9     | 1 2<br>4<br>9       | 2<br>7 9        | 1<br>7 9      | 3               |
| 2<br>4 5<br>9     | 3<br>5        | 2 3<br>4 5<br>9 | 7          | 1 2 3<br>4<br>9   | 1 2 3<br>4 6<br>9   | 2<br>5 6<br>9   | 1<br>5 6<br>9 | 8               |

Techs: Naked Single, Hidden Single, Naked Pairs, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Unique Rectangle Type 4

#22 (ID: #471842)

SCORE: 357

STEPS: 72

Level 7

|                 |                 |                 |                   |                 |                   |                   |                   |             |
|-----------------|-----------------|-----------------|-------------------|-----------------|-------------------|-------------------|-------------------|-------------|
| 7<br>5 6<br>7 9 | 2 3<br>5 6<br>7 | 2<br>5          | 1 2 3<br>6<br>7 8 | 1 3<br>6<br>7 8 | 2 3<br>7 8        | 1 2<br>6<br>7 8   | 1 2<br>6<br>7 8   | 4           |
| 5 6<br>7 9      | 1               | 2<br>5          | 2 3<br>6<br>7 8 9 | 4               | 2 3<br>7 8 9      | 2<br>5 6<br>7 8   | 2<br>6<br>7 8     | 2<br>6<br>8 |
| 8               | 2<br>4 6<br>7   | 2<br>4<br>7 9   | 5                 | 1<br>6<br>9     | 2<br>7 9          | 1 2<br>6<br>7     | 1 2<br>6<br>7     | 3           |
| 1<br>7 9        | 5 6<br>7        | 1<br>5<br>7     | 1 3<br>4 6<br>7 8 | 2<br>5<br>7 8   | 3<br>4 5<br>7 8   | 1<br>4 6<br>4 8 6 | 1<br>4 6<br>4 8 6 | 9           |
| 4<br>5 6<br>9   | 7               | 1<br>4 5<br>9   | 1 3<br>9          | 1 2<br>5<br>9   | 3<br>8 9          | 5 6<br>8 9        | 5<br>8 9          | 3 7         |
| 5<br>9          | 2               | 5<br>9          | 3<br>9            | 8               | 3<br>7 9          | 1<br>7 9          | 4<br>7 9          | 6           |
| 1<br>7 9        | 5 6<br>7        | 1<br>5<br>7     | 3<br>8 9          | 2 3<br>6<br>9   | 2 3<br>6<br>8 9   | 4<br>7 8          | 4 5<br>7 8        | 2<br>9      |
| 2<br>5<br>9     | 1               | 7               | 3<br>8 9          | 6<br>9          | 6<br>8 9          | 4<br>7 8          | 5 6<br>8 9        | 2<br>9      |
| 8               |                 | 6               | 5                 | 1 2<br>4<br>9   | 1 2<br>4<br>9     | 2<br>7 9          | 1<br>7 9          | 3           |
| 2<br>4 5<br>9   | 3<br>5          | 2 3<br>4 5<br>9 | 7                 | 1 2 3<br>4<br>9 | 1 2 3<br>4 6<br>9 | 2<br>5 6<br>9     | 1<br>5 6<br>9     | 8           |

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, VWXYZ-Wing, 2-String Kite, 3 Strong Links, Grouped Skyscraper, XY-Chain

#23 (ID: #260755)

SCORE: 174

STEPS: 65

Level 7

|                 |                   |                   |                 |          |                 |                       |                   |                 |
|-----------------|-------------------|-------------------|-----------------|----------|-----------------|-----------------------|-------------------|-----------------|
| 8               | 2 3<br>5<br>7     | 3<br>5<br>7       | 1 2<br>5<br>7   | 4        | 5<br>7 9        | 3<br>5<br>7 9         | 6                 | 3<br>5<br>7 9   |
| 4 5<br>7        | 4 5<br>7          | 3<br>9            | 6               | 5<br>7 8 | 5<br>7 8        | 4 5<br>8              | 2                 | 1               |
| 1               | 4 5<br>7          | 2<br>4 5 6        | 3               | 2<br>5   | 5<br>8          | 4 5<br>8              | 9                 | 7               |
| 7               | 8                 | 1<br>4 5          | 9               | 3        | 6               | 1 2<br>5              | 1<br>5            | 5               |
| 2 3<br>5 6<br>9 | 1 2 3<br>5<br>9   | 1 3<br>5 6        | 1<br>7          | 5        | 8               | 1 2 3<br>5 6<br>7 9   | 1<br>5            | 4               |
| 4 5 6<br>9      | 3 1 3<br>4 5<br>9 | 1 3<br>4 5 6      | 1<br>4 5<br>7   | 1<br>4 5 | 5<br>7          | 1 3<br>5 6<br>7 8     | 1<br>5<br>7 8     | 3<br>5 6<br>8 9 |
| 3<br>4 5<br>9   | 3<br>4 5<br>7 9   | 3<br>4 5<br>7 8   | 3<br>4 5<br>7 8 | 5 6<br>7 | 1               | 3<br>4 5 6<br>7 8 9   | 3<br>4 5<br>7 8   | 2               |
| 4 5<br>7        | 3 1 3<br>4 5<br>7 | 3<br>2            | 4 5<br>7 8      | 9        | 4 5<br>7 8      | 3 1 3<br>4 5 6<br>7 8 | 1 3<br>4 5<br>7 8 | 3<br>5 6<br>8   |
| 4 5<br>9        | 3<br>6            | 1 3<br>4 5<br>7 8 | 2<br>4 5<br>7 8 | 2<br>5   | 3<br>4 5<br>7 8 | 1 3<br>4 5<br>7 8 9   | 1 3<br>4 5<br>7 8 | 3<br>5 6<br>8 9 |

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

#24 (ID: #139016)

SCORE: 341

STEPS: 71

Level 7

|              |          |               |              |               |            |            |                   |                     |
|--------------|----------|---------------|--------------|---------------|------------|------------|-------------------|---------------------|
| 4 5 6<br>9   | 2<br>4 5 | 2<br>4 6<br>9 | 7            | 2<br>4 5<br>9 | 3          | 1          | 4 6<br>8 9        | 4 6<br>8 9          |
| 7            | 4        | 3<br>4 6<br>9 | 1            | 4<br>9        | 4<br>8 9   | 4<br>9     | 4 6<br>9          | 2 5                 |
| 8            | 1        | 2<br>4        | 4 5<br>9     | 6             | 2<br>4     | 4<br>9     | 3                 | 4<br>7 9            |
| 1 3<br>4 5 6 | 2<br>4 5 | 1 2 3<br>4 6  | 2 3<br>4 6   | 1 2 3<br>4 6  | 1 2<br>4 6 | 1 2<br>7 9 | 8                 | 1 2<br>4 5 6<br>7 9 |
| 1 3<br>4 5 6 | 9        | 1 2 3<br>4 6  | 2 3<br>4 8   | 1 2 3<br>4 6  | 1 2<br>4 6 | 1 2<br>7 8 | 2                 | 1<br>4 5 6<br>4 6   |
| 1<br>4 6     | 7        | 1 2<br>4 6    | 2<br>4 6     | 1 2<br>4 6    | 4          | 5          | 2<br>4 6<br>9     | 1<br>4 6<br>9       |
| 1<br>4       | 6        | 1<br>4 5      | 3<br>4 5 6   | 1 3<br>4 5    | 1 3<br>4 6 | 1 2<br>4 5 | 2 3<br>4 5        | 1 2<br>4            |
| 2            | 4<br>8   | 1<br>8 9      | 4 5 6<br>8 9 | 3 1 3<br>4 5  | 1 3<br>4 6 | 7          | 1<br>4 5 6<br>8 9 | 1<br>4 6<br>8 9     |
| 1<br>4       | 3        | 5             | 2<br>4 6     | 1 2<br>4 6    | 1 2<br>4 6 | 2<br>4 6   | 1<br>4 6          | 1 2<br>4 6          |

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, X-Wing, XY-Wing, VWXYZ-Wing, 2-String Kite, 3 Strong Links, 4 Strong Links, Grouped Skyscraper, XY-Chain

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#1 (ID: #338203)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>8</b> | <b>6</b> | 9        | 2        | 3        | 5        | 7        | <b>4</b> | 1        |
| 7        | 5        | 3        | 9        | 1        | <b>4</b> | 8        | 6        | <b>2</b> |
| 1        | 4        | 2        | <b>6</b> | <b>7</b> | 8        | 9        | 3        | <b>5</b> |
| 6        | 8        | <b>5</b> | 4        | 9        | 1        | 2        | 7        | 3        |
| <b>2</b> | 3        | <b>7</b> | 8        | 5        | 6        | <b>4</b> | 1        | <b>9</b> |
| <b>9</b> | 1        | 4        | 7        | 2        | 3        | 5        | 8        | 6        |
| <b>5</b> | 7        | 8        | 1        | 6        | <b>2</b> | 3        | <b>9</b> | 4        |
| 3        | 9        | 6        | <b>5</b> | 4        | 7        | 1        | 2        | <b>8</b> |
| <b>4</b> | 2        | <b>1</b> | 3        | 8        | <b>9</b> | <b>6</b> | 5        | 7        |

#2 (ID: #116402)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 9        | 4        | <b>6</b> | 1        | <b>7</b> | 8        | 5        | <b>3</b> | <b>2</b> |
| <b>8</b> | 3        | 5        | 2        | 9        | 6        | 7        | <b>4</b> | 1        |
| 7        | 2        | 1        | <b>4</b> | 5        | <b>3</b> | <b>9</b> | 8        | 6        |
| <b>1</b> | 7        | 3        | 6        | 8        | 9        | 4        | 2        | 5        |
| <b>2</b> | <b>9</b> | 8        | 7        | 4        | 5        | 1        | <b>6</b> | 3        |
| 5        | 6        | 4        | 3        | <b>2</b> | 1        | <b>8</b> | 7        | 9        |
| <b>6</b> | 5        | 9        | <b>8</b> | 3        | 4        | <b>2</b> | 1        | <b>7</b> |
| 4        | <b>1</b> | 2        | 5        | <b>6</b> | <b>7</b> | 3        | 9        | 8        |
| 3        | 8        | 7        | <b>9</b> | 1        | 2        | 6        | 5        | <b>4</b> |

#3 (ID: #370972)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 4        | 6        | 8        | 9        | 2        | 1        | 3        | <b>7</b> | 5        |
| <b>5</b> | <b>9</b> | 7        | 6        | 4        | 3        | 2        | 8        | 1        |
| 2        | 1        | 3        | <b>7</b> | 5        | <b>8</b> | 9        | 6        | <b>4</b> |
| 8        | 2        | <b>1</b> | <b>3</b> | 7        | <b>6</b> | 4        | 5        | 9        |
| 6        | 3        | 5        | <b>8</b> | <b>9</b> | 4        | <b>7</b> | 1        | 2        |
| 9        | 7        | <b>4</b> | 5        | 1        | <b>2</b> | 8        | 3        | <b>6</b> |
| <b>3</b> | 5        | 9        | 2        | 6        | 7        | 1        | <b>4</b> | <b>8</b> |
| <b>1</b> | 8        | <b>6</b> | 4        | 3        | <b>9</b> | 5        | 2        | 7        |
| 7        | 4        | 2        | 1        | 8        | 5        | <b>6</b> | 9        | <b>3</b> |

#4 (ID: #456603)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>8</b> | <b>7</b> | 9        | 1        | <b>5</b> | 2        | 3        | 4        | 6        |
| <b>3</b> | 6        | 1        | <b>9</b> | 7        | 4        | 5        | <b>8</b> | 2        |
| 4        | <b>5</b> | 2        | <b>6</b> | 3        | 8        | 7        | <b>1</b> | 9        |
| <b>1</b> | 9        | 5        | 7        | 2        | 6        | 8        | 3        | <b>4</b> |
| 6        | 2        | 3        | <b>8</b> | <b>4</b> | 5        | 9        | 7        | 1        |
| 7        | 4        | 8        | 3        | <b>9</b> | 1        | 2        | <b>6</b> | <b>5</b> |
| 5        | 1        | <b>6</b> | 2        | 8        | <b>3</b> | <b>4</b> | <b>9</b> | 7        |
| 2        | <b>8</b> | <b>7</b> | 4        | 6        | 9        | 1        | 5        | 3        |
| 9        | 3        | 4        | <b>5</b> | <b>1</b> | 7        | 6        | 2        | 8        |

#5 (ID: #25882)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 5        | <b>7</b> | 2        | <b>6</b> | 8        | 9        | 4        | 1        | <b>3</b> |
| 9        | 4        | 6        | <b>2</b> | <b>3</b> | 1        | 7        | <b>5</b> | <b>8</b> |
| 3        | 8        | <b>1</b> | 7        | 4        | <b>5</b> | <b>9</b> | 6        | 2        |
| <b>7</b> | 2        | 4        | 9        | 6        | <b>8</b> | <b>1</b> | 3        | 5        |
| 6        | 1        | 3        | 5        | 2        | 7        | 8        | <b>9</b> | 4        |
| 8        | 9        | <b>5</b> | 3        | 1        | 4        | <b>2</b> | 7        | <b>6</b> |
| 1        | 5        | 8        | 4        | 9        | <b>3</b> | 6        | 2        | 7        |
| 4        | 6        | <b>7</b> | <b>1</b> | 5        | 2        | 3        | 8        | 9        |
| <b>2</b> | <b>3</b> | 9        | 8        | <b>7</b> | 6        | 5        | 4        | 1        |

#6 (ID: #128832)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 8        | <b>9</b> | <b>5</b> | <b>1</b> | 2        | 3        | 7        | 4        | <b>6</b> |
| 6        | 2        | 4        | 5        | <b>7</b> | <b>9</b> | <b>1</b> | 3        | 8        |
| 7        | 3        | 1        | <b>4</b> | <b>6</b> | 8        | 9        | <b>2</b> | 5        |
| 4        | <b>8</b> | <b>2</b> | 9        | 3        | <b>5</b> | <b>6</b> | <b>7</b> | 1        |
| 5        | <b>7</b> | 3        | 6        | 8        | 1        | <b>4</b> | 9        | 2        |
| 9        | 1        | <b>6</b> | 2        | 4        | 7        | 8        | <b>5</b> | 3        |
| 1        | 5        | 8        | 7        | 9        | <b>2</b> | 3        | 6        | 4        |
| <b>2</b> | 6        | 9        | 3        | 1        | 4        | 5        | <b>8</b> | 7        |
| 3        | <b>4</b> | <b>7</b> | 8        | 5        | 6        | 2        | 1        | 9        |

#7 (ID: #200849)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 6        | 4        | 8        | 2        | <b>3</b> | 7        | 9        | 5        | 1        |
| 2        | 1        | <b>9</b> | <b>8</b> | 5        | 4        | 6        | 3        | <b>7</b> |
| 5        | <b>3</b> | 7        | <b>9</b> | 6        | <b>1</b> | 8        | 2        | 4        |
| 1        | 6        | 3        | <b>7</b> | 4        | 9        | 2        | <b>8</b> | 5        |
| 9        | <b>2</b> | 4        | 5        | <b>1</b> | 8        | <b>3</b> | 7        | 6        |
| 8        | 7        | 5        | 6        | <b>2</b> | <b>3</b> | 1        | 4        | <b>9</b> |
| 7        | <b>5</b> | 1        | 3        | 9        | <b>2</b> | <b>4</b> | 6        | 8        |
| <b>3</b> | 9        | 6        | 4        | 8        | <b>5</b> | 7        | <b>1</b> | 2        |
| 4        | 8        | 2        | 1        | <b>7</b> | 6        | 5        | <b>9</b> | 3        |

#8 (ID: #500035)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 9        | 4        | <b>6</b> | 1        | 8        | <b>5</b> | <b>2</b> | 7        | 3        |
| 7        | 8        | <b>5</b> | 2        | <b>9</b> | <b>3</b> | 1        | 6        | 4        |
| 2        | 3        | 1        | <b>4</b> | 7        | 6        | <b>8</b> | 5        | 9        |
| <b>5</b> | 2        | 9        | 8        | 4        | <b>1</b> | 7        | 3        | <b>6</b> |
| 3        | 1        | 7        | <b>5</b> | <b>6</b> | 2        | 4        | <b>9</b> | 8        |
| <b>4</b> | 6        | 8        | 7        | <b>3</b> | <b>9</b> | 5        | 2        | 1        |
| 8        | <b>9</b> | <b>2</b> | 3        | 1        | 7        | 6        | <b>4</b> | 5        |
| 6        | 5        | 4        | 9        | <b>2</b> | 8        | <b>3</b> | 1        | <b>7</b> |
| 1        | 7        | <b>3</b> | 6        | 5        | 4        | 9        | 8        | 2        |

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#9 (ID: #551406)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 7        | 1        | 3        | <b>5</b> | 8        | 9        | 6        | <b>4</b> | 2        |
| 6        | 5        | 8        | 7        | 4        | 2        | <b>3</b> | 9        | 1        |
| 4        | <b>9</b> | <b>2</b> | <b>1</b> | 3        | 6        | 5        | 8        | 7        |
| 8        | <b>4</b> | 5        | 9        | 6        | 7        | 2        | <b>1</b> | 3        |
| <b>9</b> | <b>2</b> | 6        | <b>3</b> | 1        | <b>8</b> | 4        | 7        | 5        |
| 1        | <b>3</b> | <b>7</b> | 2        | 5        | 4        | 8        | <b>6</b> | 9        |
| <b>5</b> | 8        | 1        | 6        | <b>7</b> | 3        | <b>9</b> | 2        | 4        |
| 3        | 6        | 9        | <b>4</b> | 2        | 1        | 7        | <b>5</b> | <b>8</b> |
| 2        | 7        | 4        | 8        | <b>9</b> | 5        | <b>1</b> | <b>3</b> | 6        |

#10 (ID: #551407)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3        | 6        | 1        | <b>5</b> | 9        | 4        | 2        | <b>7</b> | 8        |
| 2        | 5        | 9        | 3        | 7        | 8        | <b>1</b> | 4        | 6        |
| 7        | <b>4</b> | <b>8</b> | <b>6</b> | 1        | 2        | 5        | 9        | 3        |
| 9        | <b>7</b> | 5        | 4        | 2        | 3        | 8        | <b>6</b> | 1        |
| <b>4</b> | <b>8</b> | 2        | <b>1</b> | 6        | <b>9</b> | 7        | 3        | <b>5</b> |
| 6        | <b>1</b> | <b>3</b> | 8        | 5        | 7        | 9        | <b>2</b> | 4        |
| <b>5</b> | 9        | 6        | 2        | <b>3</b> | 1        | <b>4</b> | 8        | 7        |
| 1        | 2        | 4        | <b>7</b> | 8        | 6        | 3        | 5        | <b>9</b> |
| 8        | 3        | 7        | 9        | <b>4</b> | 5        | <b>6</b> | <b>1</b> | 2        |

#11 (ID: #82321)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3        | 5        | 6        | 8        | 4        | <b>2</b> | <b>1</b> | 9        | 7        |
| <b>9</b> | 8        | 2        | 3        | 1        | <b>7</b> | <b>4</b> | 6        | 5        |
| 7        | 4        | <b>1</b> | 6        | <b>9</b> | 5        | 8        | 2        | <b>3</b> |
| 6        | <b>7</b> | 8        | 2        | <b>5</b> | 3        | 9        | 1        | 4        |
| <b>4</b> | 2        | 9        | <b>1</b> | 7        | 6        | 3        | <b>5</b> | <b>8</b> |
| 1        | <b>3</b> | 5        | 4        | <b>8</b> | 9        | 2        | <b>7</b> | 6        |
| <b>8</b> | <b>1</b> | 7        | 5        | 2        | 4        | 6        | 3        | <b>9</b> |
| <b>2</b> | 9        | <b>3</b> | 7        | 6        | 8        | 5        | 4        | <b>1</b> |
| 5        | 6        | 4        | 9        | 3        | 1        | 7        | 8        | 2        |

#12 (ID: #353768)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1        | <b>8</b> | 5        | 2        | 3        | 4        | <b>7</b> | 9        | 6        |
| <b>6</b> | <b>7</b> | 3        | <b>8</b> | 1        | 9        | <b>5</b> | <b>4</b> | 2        |
| 4        | 2        | <b>9</b> | <b>5</b> | 6        | 7        | 1        | <b>3</b> | 8        |
| 7        | <b>4</b> | 6        | 3        | 8        | 5        | <b>2</b> | 1        | 9        |
| <b>5</b> | 3        | 1        | 9        | 7        | 2        | <b>8</b> | <b>6</b> | 4        |
| 2        | 9        | <b>8</b> | 6        | 4        | 1        | 3        | 7        | <b>5</b> |
| 8        | 1        | 4        | 7        | 2        | <b>6</b> | 9        | 5        | <b>3</b> |
| 9        | 6        | 2        | 1        | 5        | 3        | <b>4</b> | 8        | 7        |
| <b>3</b> | 5        | 7        | <b>4</b> | <b>9</b> | 8        | 6        | <b>2</b> | 1        |

#13 (ID: #360508)

|          |   |          |          |          |          |          |          |          |
|----------|---|----------|----------|----------|----------|----------|----------|----------|
| <b>8</b> | 3 | 9        | <b>5</b> | <b>7</b> | 6        | 4        | 2        | 1        |
| <b>5</b> | 1 | 4        | <b>2</b> | 3        | <b>9</b> | 8        | 7        | <b>6</b> |
| 2        | 7 | 6        | 4        | 1        | <b>8</b> | 5        | <b>3</b> | 9        |
| 7        | 4 | 8        | <b>6</b> | 5        | 1        | <b>2</b> | 9        | 3        |
| 9        | 5 | 1        | <b>8</b> | 2        | 3        | <b>7</b> | 6        | <b>4</b> |
| <b>6</b> | 2 | 3        | 9        | <b>4</b> | 7        | 1        | 5        | <b>8</b> |
| 3        | 8 | 2        | <b>7</b> | 9        | 4        | 6        | 1        | 5        |
| 1        | 6 | 5        | 3        | 8        | <b>2</b> | <b>9</b> | 4        | 7        |
| <b>4</b> | 9 | <b>7</b> | 1        | <b>6</b> | 5        | 3        | 8        | 2        |

#14 (ID: #419592)

|          |          |   |          |          |          |          |          |          |
|----------|----------|---|----------|----------|----------|----------|----------|----------|
| 9        | <b>6</b> | 7 | 1        | 8        | 5        | 2        | 3        | 4        |
| <b>5</b> | 2        | 1 | <b>3</b> | 4        | 9        | 7        | <b>6</b> | <b>8</b> |
| <b>8</b> | 3        | 4 | 7        | 2        | 6        | <b>5</b> | <b>1</b> | 9        |
| 6        | 8        | 3 | 4        | <b>7</b> | <b>2</b> | <b>9</b> | 5        | 1        |
| 1        | <b>7</b> | 2 | 9        | <b>5</b> | <b>8</b> | 3        | 4        | <b>6</b> |
| <b>4</b> | <b>5</b> | 9 | 6        | 1        | 3        | 8        | 2        | 7        |
| 7        | 1        | 5 | 8        | <b>3</b> | 4        | 6        | 9        | 2        |
| <b>2</b> | 4        | 6 | 5        | 9        | 7        | <b>1</b> | <b>8</b> | 3        |
| 3        | <b>9</b> | 8 | <b>2</b> | <b>6</b> | 1        | 4        | 7        | 5        |

#15 (ID: #422651)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>1</b> | 4        | 5        | 3        | <b>9</b> | 6        | 2        | <b>8</b> | <b>7</b> |
| 3        | 9        | 8        | 2        | 7        | 1        | 5        | 6        | <b>4</b> |
| <b>2</b> | 7        | <b>6</b> | <b>5</b> | 8        | 4        | 9        | 3        | 1        |
| 5        | 3        | <b>7</b> | 8        | 1        | <b>2</b> | <b>6</b> | 4        | 9        |
| 6        | 2        | <b>1</b> | <b>9</b> | 4        | 7        | 8        | 5        | 3        |
| 4        | 8        | <b>9</b> | 6        | 3        | <b>5</b> | 7        | <b>1</b> | 2        |
| 9        | <b>6</b> | 4        | 7        | 5        | <b>3</b> | 1        | <b>2</b> | 8        |
| 7        | 1        | 2        | <b>4</b> | 6        | 8        | 3        | <b>9</b> | 5        |
| <b>8</b> | 5        | <b>3</b> | <b>1</b> | 2        | 9        | 4        | 7        | 6        |

#16 (ID: #116031)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 8        | 4        | <b>7</b> | 2        | 3        | <b>5</b> | 1        | 9        | 6        |
| 2        | <b>1</b> | 3        | 7        | 9        | 6        | <b>8</b> | 5        | 4        |
| <b>9</b> | <b>6</b> | <b>5</b> | <b>1</b> | 4        | 8        | 7        | 2        | 3        |
| 7        | 3        | 2        | <b>6</b> | 1        | 4        | 9        | 8        | <b>5</b> |
| 4        | <b>8</b> | 9        | 5        | <b>2</b> | <b>3</b> | 6        | 1        | 7        |
| <b>6</b> | 5        | <b>1</b> | 8        | 7        | 9        | <b>3</b> | 4        | 2        |
| 1        | 7        | 4        | 3        | <b>8</b> | 2        | <b>5</b> | <b>6</b> | 9        |
| 3        | <b>2</b> | 6        | <b>9</b> | 5        | 1        | 4        | 7        | 8        |
| 5        | 9        | 8        | 4        | <b>6</b> | <b>7</b> | 2        | <b>3</b> | 1        |

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#17 (ID: #498023)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1        | 2        | 3        | 7        | 6        | 9        | <b>8</b> | 5        | 4        |
| 4        | <b>7</b> | 8        | 2        | 3        | <b>5</b> | <b>1</b> | 9        | 6        |
| <b>9</b> | 6        | 5        | 1        | 4        | 8        | 3        | <b>7</b> | <b>2</b> |
| <b>8</b> | 4        | 1        | 3        | 5        | 7        | 2        | <b>6</b> | 9        |
| <b>7</b> | 9        | 2        | <b>8</b> | <b>1</b> | 6        | 5        | 4        | <b>3</b> |
| 5        | 3        | 6        | <b>9</b> | <b>2</b> | 4        | 7        | 1        | <b>8</b> |
| <b>3</b> | 8        | <b>9</b> | 4        | 7        | 1        | 6        | 2        | 5        |
| <b>6</b> | <b>1</b> | 4        | 5        | 8        | 2        | 9        | <b>3</b> | <b>7</b> |
| 2        | 5        | 7        | 6        | <b>9</b> | 3        | <b>4</b> | 8        | 1        |

#18 (ID: #475276)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 4        | 6        | 8        | <b>7</b> | 9        | <b>5</b> | <b>2</b> | 1        | 3        |
| 5        | <b>3</b> | 2        | 8        | 1        | 6        | 7        | <b>9</b> | <b>4</b> |
| 9        | 7        | 1        | 3        | <b>2</b> | 4        | 8        | <b>5</b> | 6        |
| <b>2</b> | 1        | 4        | 5        | 6        | 9        | 3        | 7        | 8        |
| <b>7</b> | <b>9</b> | <b>3</b> | 1        | 4        | <b>8</b> | 6        | 2        | 5        |
| 8        | 5        | 6        | <b>2</b> | <b>3</b> | 7        | 1        | 4        | <b>9</b> |
| 6        | <b>8</b> | 7        | <b>9</b> | 5        | 2        | 4        | <b>3</b> | 1        |
| <b>1</b> | 4        | 9        | 6        | 7        | 3        | <b>5</b> | 8        | 2        |
| 3        | 2        | 5        | <b>4</b> | 8        | 1        | 9        | <b>6</b> | <b>7</b> |

#19 (ID: #262598)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>4</b> | 2        | 7        | 9        | 6        | 8        | <b>5</b> | <b>3</b> | 1        |
| 9        | 1        | 5        | 4        | <b>2</b> | 3        | 8        | <b>6</b> | 7        |
| <b>6</b> | 8        | <b>3</b> | 5        | 7        | <b>1</b> | <b>4</b> | 9        | 2        |
| 7        | <b>3</b> | <b>2</b> | 1        | <b>5</b> | 4        | 6        | 8        | <b>9</b> |
| <b>5</b> | 9        | <b>1</b> | 7        | <b>8</b> | 6        | <b>3</b> | <b>2</b> | 4        |
| 8        | 4        | 6        | 3        | 9        | 2        | 7        | 1        | 5        |
| 1        | 6        | 8        | 2        | 4        | 7        | 9        | 5        | 3        |
| 2        | 7        | 9        | <b>6</b> | 3        | 5        | 1        | <b>4</b> | <b>8</b> |
| 3        | <b>5</b> | 4        | 8        | <b>1</b> | <b>9</b> | 2        | 7        | 6        |

#20 (ID: #463473)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2        | 7        | 3        | 5        | <b>6</b> | 9        | 8        | <b>4</b> | 1        |
| <b>1</b> | 9        | 5        | 4        | <b>8</b> | 2        | <b>7</b> | 6        | 3        |
| 4        | <b>8</b> | <b>6</b> | <b>3</b> | 7        | 1        | 2        | 9        | 5        |
| 7        | 6        | <b>9</b> | <b>2</b> | 3        | <b>8</b> | 1        | 5        | 4        |
| 8        | 3        | <b>1</b> | 6        | 5        | <b>4</b> | 9        | 7        | 2        |
| <b>5</b> | 2        | 4        | <b>1</b> | 9        | 7        | 6        | <b>3</b> | 8        |
| <b>3</b> | <b>4</b> | 8        | <b>9</b> | 2        | 6        | <b>5</b> | 1        | <b>7</b> |
| <b>9</b> | 1        | 7        | 8        | 4        | 5        | <b>3</b> | 2        | 6        |
| 6        | 5        | <b>2</b> | 7        | 1        | 3        | 4        | 8        | 9        |

#21 (ID: #44762)

|          |          |          |          |          |   |          |          |          |
|----------|----------|----------|----------|----------|---|----------|----------|----------|
| 1        | 6        | <b>8</b> | 9        | 5        | 3 | 2        | 7        | 4        |
| 7        | <b>4</b> | 3        | <b>2</b> | 1        | 8 | 9        | 6        | <b>5</b> |
| 2        | 5        | 9        | 6        | 7        | 4 | 8        | <b>3</b> | 1        |
| <b>3</b> | 8        | 1        | <b>4</b> | <b>6</b> | 9 | 5        | <b>2</b> | 7        |
| 6        | <b>7</b> | 4        | 1        | 2        | 5 | 3        | 8        | 9        |
| 9        | <b>2</b> | 5        | 3        | <b>8</b> | 7 | <b>1</b> | <b>4</b> | <b>6</b> |
| 5        | <b>1</b> | <b>7</b> | 8        | 3        | 6 | <b>4</b> | 9        | 2        |
| <b>8</b> | 9        | <b>6</b> | <b>5</b> | 4        | 2 | 7        | 1        | <b>3</b> |
| 4        | 3        | 2        | <b>7</b> | 9        | 1 | 6        | 5        | <b>8</b> |

#22 (ID: #471842)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 6        | 3        | 5        | 2        | 8        | 7        | <b>9</b> | 1        | <b>4</b> |
| 7        | <b>1</b> | 9        | 6        | <b>4</b> | 3        | 5        | 2        | 8        |
| <b>8</b> | 2        | 4        | <b>5</b> | 1        | 9        | 7        | 6        | <b>3</b> |
| 1        | 5        | 7        | 3        | <b>2</b> | 4        | 6        | 8        | <b>9</b> |
| <b>4</b> | 6        | 2        | 9        | 5        | 8        | 1        | <b>3</b> | <b>7</b> |
| 9        | <b>8</b> | <b>3</b> | 7        | 6        | <b>1</b> | 4        | <b>5</b> | 2        |
| 5        | 7        | 8        | 4        | 3        | <b>6</b> | 2        | 9        | 1        |
| <b>2</b> | <b>9</b> | 1        | 8        | <b>7</b> | 5        | 3        | 4        | 6        |
| <b>3</b> | 4        | <b>6</b> | 1        | 9        | 2        | <b>8</b> | 7        | <b>5</b> |

#23 (ID: #260755)

|          |          |          |          |          |          |   |          |          |
|----------|----------|----------|----------|----------|----------|---|----------|----------|
| <b>8</b> | 2        | 7        | 1        | <b>4</b> | 9        | 5 | <b>6</b> | 3        |
| 3        | 4        | <b>9</b> | <b>6</b> | 5        | 7        | 8 | <b>2</b> | <b>1</b> |
| <b>1</b> | 5        | 6        | <b>3</b> | 2        | 8        | 4 | <b>9</b> | <b>7</b> |
| <b>7</b> | <b>8</b> | 4        | <b>9</b> | <b>3</b> | <b>6</b> | 2 | 1        | 5        |
| 2        | 9        | 1        | 7        | <b>8</b> | 5        | 6 | 3        | <b>4</b> |
| 6        | 3        | 5        | 4        | 1        | <b>2</b> | 9 | 7        | 8        |
| 9        | 7        | 8        | 5        | 6        | <b>1</b> | 3 | 4        | <b>2</b> |
| 4        | 1        | <b>2</b> | 8        | <b>9</b> | 3        | 7 | 5        | 6        |
| 5        | <b>6</b> | 3        | 2        | 7        | 4        | 1 | 8        | 9        |

#24 (ID: #139016)

|          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 9        | 5        | 6        | <b>7</b> | 2        | <b>3</b> | <b>1</b> | 4        | 8        |
| <b>7</b> | 4        | 3        | <b>1</b> | 9        | 8        | 6        | <b>2</b> | <b>5</b> |
| <b>8</b> | <b>1</b> | 2        | 5        | <b>6</b> | 4        | 9        | <b>3</b> | 7        |
| 5        | 2        | 1        | 4        | 3        | 9        | <b>8</b> | 7        | 6        |
| 3        | <b>9</b> | 4        | 8        | 7        | 6        | 5        | 1        | 2        |
| 6        | <b>7</b> | 8        | 2        | 1        | <b>5</b> | 4        | 9        | <b>3</b> |
| 4        | <b>6</b> | 7        | <b>9</b> | <b>8</b> | 2        | 3        | 5        | 1        |
| <b>2</b> | 8        | 9        | 3        | 5        | 1        | <b>7</b> | 6        | 4        |
| 1        | <b>3</b> | <b>5</b> | 6        | 4        | 7        | 2        | 8        | 9        |