

Printable PDF Booklet

# X-Cycle Practice Sudoku

2 Puzzles Per Page | 24 Puzzles | With Answers

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

**DIFFICULTY**

Custom / Custom

**LAYOUT**

2 Puzzles Per Page

**TECHNIQUE**

X-Cycle

**CANDIDATES**

Off

**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).

# X-CYCLE PRACTICE SUDOKU [VOL.5]

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

#1 (ID: #146074)

SCORE: 807

STEPS: 95

Level 10

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

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

#2 (ID: #154821)

SCORE: 734

STEPS: 85

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, Swordfish, XY-Wing, XYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, X-Cycle, Unique Rectangle Type 4, BUG (Bivalve Universal Grave)

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#3 (ID: #156548)

SCORE: 697

STEPS: 84

Level 10

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

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

#4 (ID: #158168)

SCORE: 708

STEPS: 88

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, Grouped Skyscraper, X-Cycle

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#5 (ID: #159733)

SCORE: 410

STEPS: 72

Level 10

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

Techs: Naked Single, Hidden Single, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, Grouped 2-String Kite, X-Cycle

#6 (ID: #164852)

SCORE: 506

STEPS: 77

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, WXYZ-Wing, Skyscraper, Turbot Fish, Grouped Skyscraper, Grouped 2-String Kite, Grouped Turbot Crane, XY-Chain, X-Cycle

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

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#7 (ID: #179188)

SCORE: 535

STEPS: 75

Level 10

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

Techs: Naked Single, Hidden Single, Claiming, Naked Pairs, VWXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, Grouped Turbot Crane, X-Cycle

#8 (ID: #179663)

SCORE: 888

STEPS: 97

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, Grouped Turbot Crane, XY-Chain, X-Cycle

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#9 (ID: #185659)

SCORE: 506

STEPS: 77

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, WXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, 3 Strong Links, 4 Strong Links, X-Cycle, Chute Remote Pairs

#10 (ID: #193075)

SCORE: 533

STEPS: 79

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Pairs, VWXYZ-Wing, 2-String Kite, Skyscraper, Turbot Fish, X-Cycle, Unique Rectangle Type 3, Unique Rectangle Type 4

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#11 (ID: #196307)

SCORE: 710

STEPS: 80

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, VWXYZ-Wing, Turbot Fish, 3 Strong Links, XY-Chain, X-Cycle, Chute Remote Pairs, BUG (Bivalve Universal Grave)

#12 (ID: #203185)

SCORE: 463

STEPS: 75

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Naked Pairs, Hidden Triples, XY-Wing, XYZ-Wing, VWXYZ-Wing, Skyscraper, 3 Strong Links, 4 Strong Links, Grouped Skyscraper, X-Cycle, Chute Remote Pairs

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#13 (ID: #215174)

SCORE: 461

STEPS: 76

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Hidden Pairs, XY-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, 3 Strong Links, Grouped 2-String Kite, X-Cycle, Unique Rectangle Type 1

#14 (ID: #217528)

SCORE: 568

STEPS: 85

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, VWXYZ-Wing, 2-String Kite, Grouped Skyscraper, Grouped Turbot Crane, XY-Chain, X-Cycle

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#15 (ID: #223341)

SCORE: 610

STEPS: 85

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Naked Triples, XYZ-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, XY-Chain, X-Cycle, Chute Remote Pairs

#16 (ID: #242895)

SCORE: 565

STEPS: 81

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Hidden Pairs, XY-Wing, WXYZ-Wing, 2-String Kite, Skyscraper, 3 Strong Links, XY-Chain, X-Cycle, Unique Rectangle Type 1

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#17 (ID: #244107)

SCORE: 647

STEPS: 83

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, Turbot Fish, 3 Strong Links, 4 Strong Links, XY-Chain, X-Cycle, Chute Remote Pairs

#18 (ID: #247872)

SCORE: 557

STEPS: 81

Level 10

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

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

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#19 (ID: #250356)

SCORE: 993

STEPS: 107

Level 10

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

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

#20 (ID: #250598)

SCORE: 515

STEPS: 80

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, Naked Triples, X-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, Skyscraper, X-Cycle, Unique Rectangle Type 3, Unique Rectangle Type 4, BUG (Bivalve Universal Grave)

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#21 (ID: #254534)

SCORE: 552

STEPS: 82

Level 10

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

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

#22 (ID: #258280)

SCORE: 534

STEPS: 78

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, WXYZ-Wing, Skyscraper, Turbot Fish, 3 Strong Links, XY-Chain, X-Cycle, Unique Rectangle Type 4

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#23 (ID: #262843)

SCORE: 972

STEPS: 105

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, Hidden Pairs, XYZ-Wing, WXYZ-Wing, VWXYZ-Wing, 2-String Kite, 3 Strong Links, 4 Strong Links, Grouped Skyscraper, X-Cycle

#24 (ID: #265483)

SCORE: 491

STEPS: 80

Level 10

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

Techs: Naked Single, Hidden Single, Pointing, Claiming, Naked Pairs, XY-Wing, VWXYZ-Wing, 2-String Kite, Turbot Fish, 3 Strong Links, 4 Strong Links, X-Cycle, Chute Remote Pairs, Unique Rectangle Type 1

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#1 (ID: #146074)

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

#2 (ID: #154821)

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

#3 (ID: #156548)

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

#4 (ID: #158168)

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

#5 (ID: #159733)

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

#6 (ID: #164852)

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

#7 (ID: #179188)

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

#8 (ID: #179663)

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

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#9 (ID: #185659)

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

#10 (ID: #193075)

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

#11 (ID: #196307)

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

#12 (ID: #203185)

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

#13 (ID: #215174)

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

#14 (ID: #217528)

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

#15 (ID: #223341)

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

#16 (ID: #242895)

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

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#17 (ID: #244107)

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

#18 (ID: #247872)

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

#19 (ID: #250356)

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

#20 (ID: #250598)

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

#21 (ID: #254534)

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

#22 (ID: #258280)

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

#23 (ID: #262843)

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

#24 (ID: #265483)

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