16.1 Sudoku

Insert a number from 1 to 9 into each cell so that no number repeats in any row, column, or bold region.

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

### 16.2 Consecutive Pairs Sudoku

Standard Sudoku rules. Also, if a gray circle is given between two adjacent cells, then the two numbers in those cells must be consecutive. (Note: not all gray circles are given; adjacent cells without a circle may contain either consecutive numbers or nonconsecutive numbers.)


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### 16.3 Arrow Sudoku

Standard Sudoku rules. Some arrow shapes are in the grid; the sum of the numbers along the path of each arrow must equal the number in the circled cell. Numbers can repeat within an arrow shape.


Standard Sudoku rules. Also, numbers cannot repeat on the marked diagonals.

| $\ddots$ |  |  | 1 |  | 6 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | $\ddots$ |  |  |  |  |  | $\ddots$ |  |
|  |  | $\ddots$ |  |  |  | $\ddots$ |  |  |
|  |  |  |  |  | $\ddots$ |  |  |  |
|  |  |  |  | $\cdots$ |  |  |  |  |
|  | 7 | 2 |  |  |  | 6 | 3 |  |
| 1 |  |  | 2 |  | 8 | $\ddots$ |  | 4 |
| 6 |  |  | 5 |  | 7 |  | $\ddots$ | 8 |
|  | 3 | 4 |  |  |  | 2 | 7 |  |

### 16.5 Clone Sudoku

Standard Sudoku rules. Also, all shaded regions of the same shape ("clones") must include the same numbers in the same positions. Numbers may repeat within a clone.

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

16.6 Sudoku

Insert a number from 1 to 9 into each cell so that no number repeats in any row, column, or bold region.

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

16.7 Outside Sudoku

Standard Sudoku rules. Also, some numbers are given outside the grid. These numbers must appear in the first three cells in the corresponding direction.

|  |  |  | 6 |  |  | 1 | 6 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 |  |  |  |  |  |  |  |  | 34 |
| 34 |  |  |  |  |  |  |  |  | 56 |
| 56 |  |  |  |  |  |  |  |  | 78 |
| 78 |  |  |  |  |  |  |  |  | 45 |
| 91 |  |  |  |  |  |  |  |  | 23 |
| 23 |  |  |  |  |  |  |  |  | 67 |
| 45 |  |  |  |  |  |  |  |  | 78 |
| 6 |  |  |  |  |  |  |  |  | 1 |
| 8 |  |  |  |  |  |  |  |  | 6 |
|  | 26 | 6 | 5 | 1 | 2 |  | 1 | 5 |  |
|  | 4 |  | 7 | 3 | 4 |  |  | 7 |  |
|  |  |  |  | 6 |  |  |  |  |  |

### 16.8 Isodoku

Standard Sudoku rules. Rows in Isodoku pass through opposite parallel sides of each quadrilateral; in other words, the rows bend across the surface of the apparent cube(s) to travel in a "straight" line.


Combination of Clone and Shape Sudoku rules.

| 2 |  |  |  |  |  | 1 | 6 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | 3 |  |  |  |  |  |  |  |
|  |  | 1 |  |  |  |  |  | 2 |
|  |  |  | 6 |  |  |  |  | 3 |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 2 |  |  |  |
| 1 |  |  |  |  |  | 3 |  |  |
| 6 |  |  |  |  |  |  | 1 |  |
|  |  | 2 | 3 |  |  |  |  | 6 |

$$
\begin{array}{llllllll}
1 & 2 & 6 & 7 & 7 & 8 & 1 & 8 \\
4 & 3 & 9 & 8 & 9 & 4 & 4 & 2
\end{array}
$$

16.10 Sudoku

Insert a number from 1 to 9 into each cell so that no number repeats in any row, column, or bold region.

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

