# Sujiken

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns and the nine outlined 3x3 regions.

Sujiken (from Japanese "sujikai", literally "diagonal") is a variation of Sudoku . The puzzle consists of a triangular grid of cells containing digits from 1 to 9. The objective is to fill a grid with digits so that each cell contains a digit and no digit is repeated in any column, row and diagonal in any direction. Also, no digit occurs twice in any of the three larger 3 x 3 square regions and any of the three larger triangular regions enclosed by thick borders.

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