## 9 by 9 Challenging Sudoku

Fill the grid with the numbers 1 to 9 in such that each number is only used once in each row, column and region (marked 3 by 3 block).

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

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

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## Answers

Fill the grid with the numbers 1 to 9 in such that each number is only used once in each row, column and region (marked 3 by 3 block).

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

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

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