NON-CONSECUTIVE SUDOKU

Fill numbers 1-9 in the empty spaces of the grid such that they appear exactly once in each row, column, and 3×3 square.

Additionally, no two adjacent cells can have consecutive digits. For example, if a cell contains 5, then no neighbouring cell can contain either 4 or 6.

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