Battenburg Sudoku

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.

Everywhere 2 odd and 2 even digits form a 2x2 checkerboard pattern, a Battenburg marking is given. A checkerboard pattern is a 2x2 area of cells where the top-left and bottom-right cells are of one type and the top-right and bottom-left cells are of another type. All possible dots are marked.

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

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