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.

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

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