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

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