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.

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

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