Rossini 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.

The arrows outside the grid indicate that the nearest three digits in the corresponding direction are in ascending or descending order (the highest number is always in the direction of the arrow). All possible arrows are given, so if there is no arrow, the first three digits do not form an increasing sequence in either direction.

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

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