Practice 9 Repetition + 2D List

1. Given a 2D list of integers of square size, write function to average out values with 8 neighboring values. There are 8 neighbors left, right, up, down, left upper diagonal, right upper diagonal, left lower diagonal & right lower diagonal [Ignore first row, last row, first column & last column]

2. Given a 2D list of integers of square size, replace value with the max value in the neighbors, do it for 4 neighbors and 8 neighbors in separate functions

3. Given a 2D list of integers, print average of every 3x3 sub-list inside the 2D list

   Explanation: Consider the blue box, having 9, 9, 5 in first row, 4, 7, 3 in second row and 10, 4, 4 in last row. The average of these values is (9+9+5+4+7+3+10+4+4) = 55 / 9 = 6 (Integer Division). In both left side and right side values in blue shade are corresponding. Means, in right side block bold, blue shaded 6 is average of numbers in left side block blue shaded.

   Similarly, next block on the left is shown in orange color and corresponding average value 5 is shown in orange color in the right side block. Anyhow, you have to write a general code for any square 2D list.

9	9	5	9	4
4	7	3	7	5
10	4	4	2	4
5	2	10	1	9
8	6	10	5	6

6	**5**	**4**	**6**
5	**4**	**5**	**5**
6	**4**	**5**	**6**
6	**5**	**6**	**6**

4. Given a 2D list print the list reversely. Such that print rows from top to bottom and right to left. See the original list on left side and required output on right side

1	2	3
4	5	6
7	8	9

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