Ex. 1: Adaptive-neighborhood median filtering

Apply the adaptive-neighborhood median filtering algorithm for the pixel in the black square in the following image. Use a limit Q=5 and a tolerance T=2.

0	0	0	0	0	0	0	0
0	0	1	1	1	1	2	2
6	3	3	3	3	5	5	1
6	4	4	5	4	3	6	3
4	4	8	6	3	5	8	0
4	5	1	9	7	5	9	2
6	6	14	6	3	4	4	2
3	7	7	6	4	6	7	3
7	4	4	3	10	3	7	3
9	5	3	9	4	6	2	4
0	9	5	6	1	3	3	6
5	9	5	7	7	7	3	8
7	7	9	6	10	5	4	0