24-11-21

k=1

0	-1	-1	-1
-1	-1	-1	-1
-1	-1	-1	-1
-1	-1	-1	0

k=2
For square 2, 5, 12, 15
$$max[(-1+0*-1),(-1+1*-1),(-1+1*-1),(-1+1*-1)] = -1$$
For square others excluding 1, 16
$$max[(-1+1*-1),(-1+1*-1),(-1+1*-1),(-1+1*-1)] = -2$$

0	-1	-2	-2
-1	-2	-2	-2
-2	-2	-2	-1
-2	-2	-1	0

k=3
Since it takes the max, only squares 4, 7, 10, 13 will be different
$$max[(-1+1*-2),(-1+1*-2),(-1+1*-2),(-1+1*-2)] = -3$$

0	-1	-2	-3
-1	-2	-3	-2
-2	-3	-2	-1
-3	-2	-1	0

Will stay same for k=4

0	-1	-2	-3
-1	-2	-3	-2
-2	-3	-2	-1
-3	-2	-1	0