

Convolution

5×5 Image

1	0	3	2	3
0	2	5	2	8
3	4	1	2	7
2	3	8	9	1
0	1	2	3	4

2×2 Kernel

1	1
-1	-1

Dot Product

4×4 Feature Map

1	-4	-2	-5
-5	2	4	1
3	-6	1	-7
4	8	12	3

2×2 Max Pooling

$F \times 4 \times 4$

1	-4	-2	-5
-5	2	4	1
3	-6	1	-7
4	8	12	3

ReLU

1	0	0	0
0	2	4	1
3	0	1	0
4	8	12	3

$F \times 2 \times 2$

2	4
8	12