

0 0 0 0 0
0 6 11 0 0
0 2 13 4 0
4 6 17 5 3
5 7 21 11 8

Convolution

1 0 0
0 1 0
0 0 1

first row:

$$[(0+0+13) \quad (0+11+4) \quad (6+0+0)] = [13 \quad 15 \quad 6]$$

second row:

$$[(0+2+17) \quad (0+13+5) \quad (11+4+3)] = [19 \quad 18 \quad 18]$$

third row:

$$[(0+6+21) \quad (2+17+11) \quad (13+5+8)] = [27 \quad 30 \quad 26]$$

↓

$$\begin{bmatrix} 13 & 15 & 6 \\ 19 & 18 & 18 \\ 27 & 30 & 26 \end{bmatrix}$$

Max Pool:

0 0 0 0 0
0 6 11 0 0
0 2 13 4 0
4 6 17 5 3
5 7 21 11 8

w/ 2x3

first row:

13 13 13

second row

17 17 17

third row:

21 21 21

⇒

$$\begin{bmatrix} 13 & 13 & 13 \\ 17 & 17 & 17 \\ 21 & 21 & 21 \end{bmatrix}$$