

# Input

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

# Kernel

0	0	1
-1	0	-1
0	0	1

# Output

-4	5	0	5	-3
-2	-1	1	-4	-2
-1	2	10	-10	-5
3	0	2	-2	-4
3	-3	5	-2	-8

# Convolution product

$$\begin{aligned} &0 \times 7 + 0 \times 7 + 1 \times 5 \\ &-1 \times 7 + 0 \times 4 - 1 \times 8 \\ &+ 0 \times 6 + 0 \times 2 + 1 \times 9 \end{aligned}$$

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