

Image

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

C	b
a	x

$$R = a - b + C + x$$

integral
image

0	1	1	3
0	2	5	8
1	3	6	11

convolution

with

1	1	1
1	1	1
1	1	1

kernel

Result

C

2	5	8	6
3	6	10	8
2	5	7	6

R

0	0	0	0	
0	1	1	3	3
0	2	5	8	8
1	3	6	11	11
1	3	6	11	j

$$[R, C] = [C_{i,j}] - [C_{i-h,j}] - [C_{i,j-h}] + [C_{i-h,j-h}]$$