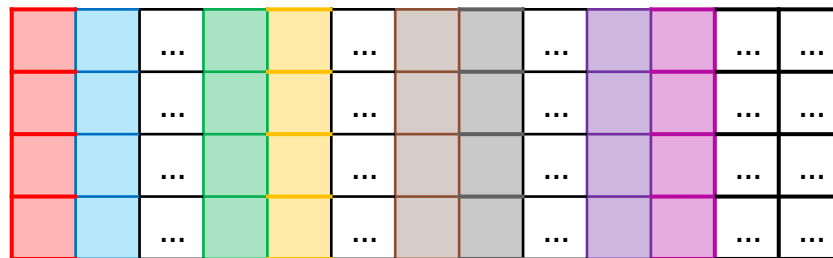
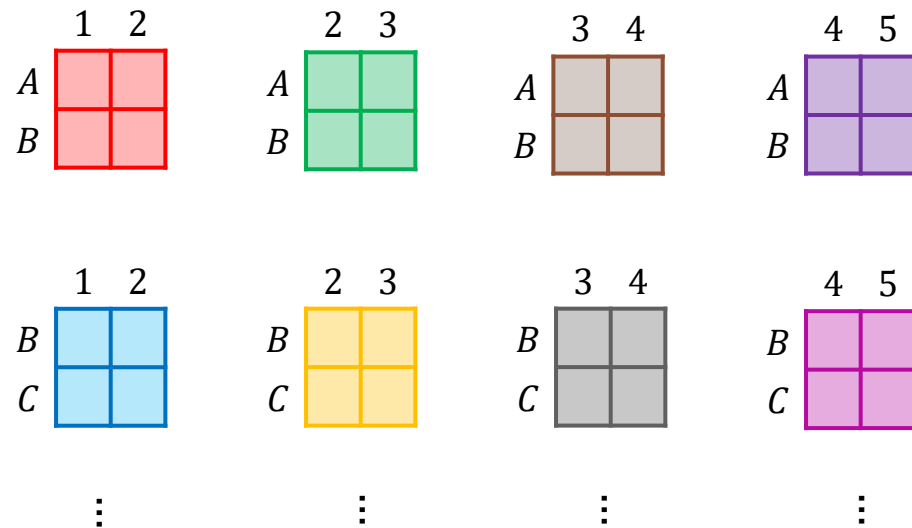


10-701 Recitation (HW3)

Ellen Vitercik, Easwaran Ramamurthy, Yujie Xu

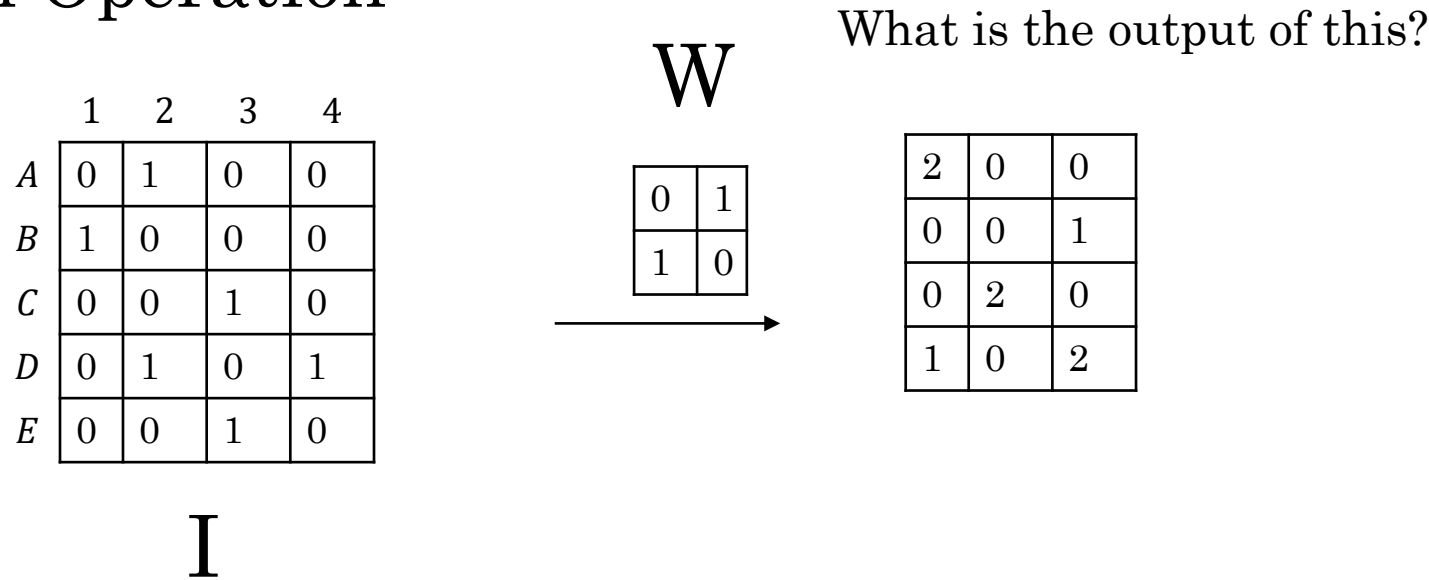
	1	2	3	4	5
A					
B					
C					
D					
E					



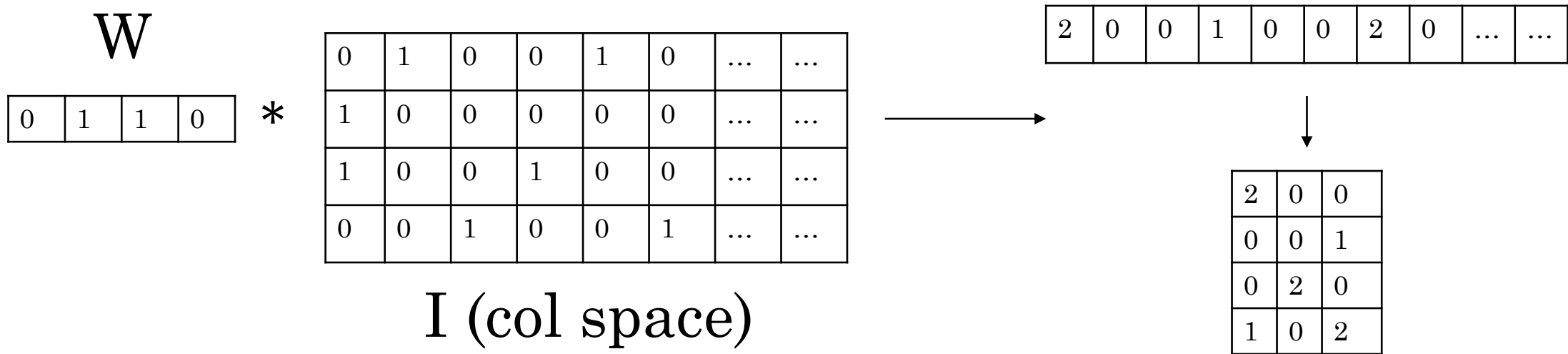
Col Space

$$k = 2, p = 0, s = 1$$

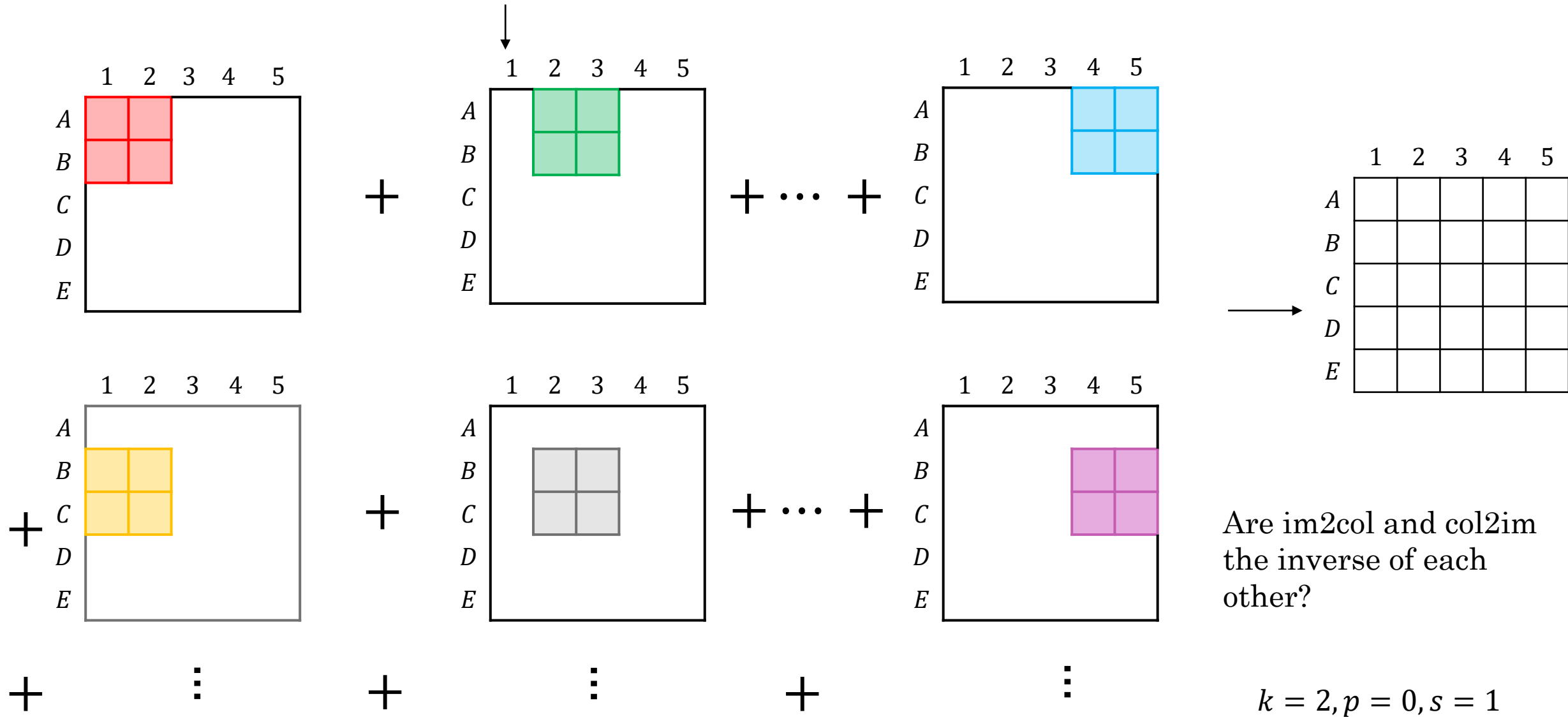
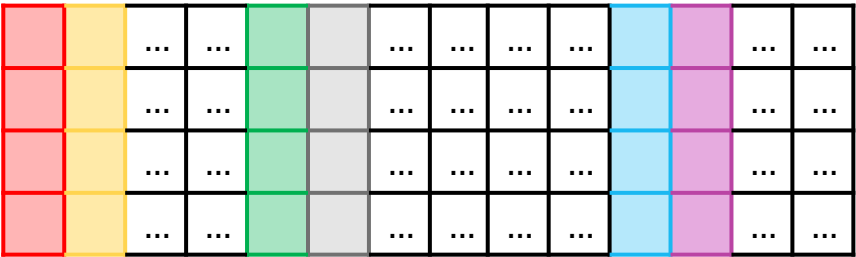
Convolution Operation



How to perform convolution with im2col_conv?



Col2im_conv



Convolution Backprop

h_{i-1}

	1	2	3	4
A	0	1	0	0
B	1	0	0	0
C	0	0	1	0
D	0	1	0	1
E	0	0	1	0

W

0	1
1	0

→

2	0	0
0	0	1
0	2	0
1	0	2

h_i

$\frac{\partial h_i}{\partial h_{i-1}}$

What is this derivative in this?

