

1)

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

3x3

=

5 7 8 6 4
 6 8 11 11 9
 3 7 11 11 7
 5 7 12 13 11
 4 6 4 8 6

column =

1 4 2 2 2
 2 4 2 5 4
 1 2 4 5 2
 2 3 2 4 4
 1 3 2 4 2

row =

5 7 8 6 4
 6 8 11 11 9
 3 7 11 11 7
 5 7 12 13 11
 4 6 4 8 6

3)

1)

1 1 1
 1 1 1 1 1
 1 1 1 1 1
 1 1 1 1 1 1 1
 1 1 1 1 1 1 1
 1 1 1 1 1 1 1

4x4

=>

1 1 1
 1 1 1 1 2
 1 2 2 2 2
 2 2 2 2
 3 3 3 3 2 2 2 2
 3 3 3 2 2 2 2
 2
 4 4 2 2 2 2
 5 4 4 2 2 2 2

2 → 3
 4 → 2
 5 → 4

2)

Eraser and Ditcher

1 1 1

1
 1 1
 1 1
 1 1 1 1 1 1
 1 1 1 1 1 1
 1 1 1 1 1 1

Ditcher

1 1 1
 1 1 1 1
 1 1 1 1
 1 1 1 1 1 1 1
 1 1 1 1 1 1 1
 1 1 1 1 1 1 1