

Address Logic for Matrix

i, j

~~0, 0~~ $J \rightarrow$

a_{11}	a_{12}	a_{13}	a_{14}	\downarrow I \downarrow
a_{21}	a_{22}	a_{23}	a_{24}	
a_{31}	a_{32}	a_{33}	a_{34}	
a_{41}	a_{42}	a_{43}	a_{44}	

a_{11}	a_{21}	a_{31}	a_{41}
a_{12}	a_{22}	a_{32}	a_{42}
a_{13}	a_{23}	a_{33}	a_{43}
a_{14}	a_{24}	a_{34}	a_{44}

$I=4, J=4$ $i=3, j=3$ $r=2, c=2$ $r'=4, c'=1$ $i=3, j=2$ $r=2, c=3$ $r'=1, c'=1$ $i=3, j=1$ $r=2, c=3$ $r'=1, c'=2$

$$B_{44} = a_{33}(a_{11}a_{22} - a_{12}a_{21}) + a_{32}(a_{11}a_{23} - a_{13}a_{21}) + a_{31}(a_{12}a_{23} - a_{13}a_{22})$$

$I=4, J=3$

$$B_{34} = (-1) \left[a_{34}(a_{11}a_{22} - a_{12}a_{21}) - a_{32}(a_{11}a_{24} - a_{14}a_{21}) + a_{31}(a_{12}a_{24} - a_{14}a_{22}) \right]$$

etc:

Sequence: $I=4, J=4$ $i=3, j=3$ $r=2, c=2$ $r'=1, c'=1$

3	2	2	3	1	1
3	1	2	3	1	2

$I=4, J=3$ $i=3, j=4$ 2 2 1 1

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

etc: $I=4, J=2$