indrow = 0 , indcol = 0 , indaux = 0

$c[0][0] = c[0][0] + a[0][0] \times b[0][0]$

$c[0][0] = a \; 0 + (1) \times (1) = 1$

indaux = 1

$c[0][0] = c[0][0] + a[0][1] \times b[1][0]$

$= 1 + 0 \times 4 = 1$

indaux = 2

$c[0][0] = c[0][0] + a[0][2] \times b[2][0]$

$= 1 + 0 \times 7 = 1$

indrow = 0 , indcol = 1 , indaux = 0

$c[0][1] = c[0][1] + a[0][0] \times b[0][1]$

$= 0 + 1 \times 2 = 2$

indaux = 1

$c[0][1] = c[0][1] + a[0][1] \times b[1][1]$

$= 2 + 0 \times 5 = 2$

indaux = 2

$c[0][1] = c[0][1] + a[0][2] \times b[2][1]$

$= 2 + 0 \times 8 = 2$

indrow = 0, indcol = 2, indaux = 0

$c[0][2] = c[0][2] + a[0][0] \times b[0][2]$

$= 0 + 1 \times 3 = 3$

indaux = 1

$c[0][2] = c[0][2] + a[0][1] \times b[1][2]$

$= 3 + 0 \times 6 = 3$

indaux = 2

$c[0][2] = c[0][2] + a[0][2] \times b[2][2]$

$= 3 + 0 \times 9 = 3$

indrow = 1, indcol = 0, indaux = 0

$c[1][0] = c[1][0] + a[1][0] \times b[0][0]$

$= 0 + 0 \times 1 = 0$

indaux = 1

$c[1][0] = c[1][0] + a[1][1] \times b[1][0]$

$= 0 + 1 \times 4 = 4$

indaux = 2

$c[1][0] = c[1][0] + a[1][2] \times b[2][0]$

$= 4 + 0 \times 7 = 4$

indrow = 1, indcol = 1, indaux = 0

$c[1][1] = c[1][1] + a[1][0] \times b[0][1]$

$= 0 + a[1][0] \times b[0][1]$

$= 0 + 0 \times 2 = 0$

indrow = 1, indcol = 1, indaux = 1

$c[1][1] = c[1][1] + a[1][1] \times b[1][1]$

$= 0 + 1 \times 5 = 5$

indrow = 1, indcol = 1, indaux = 2

$c[1][1] = c[1][1] + a[1][2] \times b[2][1]$

= 5 + 2×1 = 5

indrow = 1, indcol = 2, indaux = 0

$c[1][1] = c[1][2] + a[1][0] \times b[0][2]$

= 0 + 0×2 = 0

indaux = 1

$c[1][2] = c[1][2] + a[1][1] \times b[1][2]$

= 0 + 1×6 = 6

indaux = 2

$c[1][2] = c[1][2] + a[1][2] \times b[2][2]$

= 6 + 0×9 = 6

indrow = 2, indcol = 0, indaux = 0

$c[2][0] = c[2][0] + a[2][0] \times b[0][0]$

= 0 + 0×1 = 0

indaux = 1

$c[2][0] = c[2][0] + a[2][1] \times b[1][0]$

= 0 + 0×4 = 0

indaux = 2

$c[2][0] = c[2][0] + a[2][2] \times b[2][0]$

= 0 + 1×7 = 7

indrow = 2, indcol = 1, indaux = 0

$c[2][1] = c[2][1] + a[2][0] \times b[0][1]$

$$\text{index} = 1$$

$$c[2][1] = c[2][1] + a[2][1] \times b[1][1]$$

$$= 0 + 0 \times 5 = 0$$

$$\text{index} = 2$$

$$c[2][1] = c[2][1] + a[2][2] \times b[2][1]$$

$$= 0 + 1 \times 8 = 8$$

$$\text{int row} = 2 \qquad \text{indcol} = 2 \qquad \text{index} = 0$$

$$c[2][2] = c[2][2] + a[2][0] \times b[0][2]$$

$$= 0 + 0 \times 3 = 0$$

$$\text{index} = 1$$

$$c[2][2] = c[2][2] + a[2][1] \times b[1][2]$$

$$= 0 + 0 \times 6 = 0$$

$$\text{index} = 2$$

$$c[2][2] = c[2][2] + a[2][2] \times b[2][2]$$

$$= 0 + 1 \times 9 = 9$$

$$c = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$$

$c[indrow][indcol] = c[indrow][indcol] +$

$a[indrow][indcol] \times$ ...

$\times \quad b[indrow]$
$[indcol]$

indrow	indcol	indrows	
			=

$c[0]$

$a = [[1,0,0] , [0,1,0] , [0,0,1]]$

$b = \begin{bmatrix} [1,2,3] \\ [4,5,6] \\ [7,8,9] \end{bmatrix}$

$c[0][0] = c[0][0] + a[0][0] \times b[0][0]$

$= 0 + (1) \times (1)$

$= 1$

$c[0][0] = c[0][0] + a[0][1] \times b[4][0]$

$= 1 + 0 \times 2$

$= 1 + 0 = 1$

$c[0][0] = c[0][0] + a[0][2] \times b[2][0]$

$= 1 + 0 \times 7 = 1$

$a = \{ \{1,0,0\}, \{0,1,0\}, \{0,0,1\} \}$

$b = \{ \{1,2,3\}, \{4,5,6\}, \{7,8,9\} \}$

row and col indexx

$c[0][1] = c[0][1] + a[0][0] \times b[0][1]$

$c[0][1] = 0 + 1 \times 2$

$c[0][1] = 0 + 2$

$c[0][1] = 2$

$c[0][1] = c[0][1] + a[0][1] \times b[1][2]$

$= 2 + 0$