

$$\rightarrow \begin{bmatrix} 1, 3, 12, 0, 0 \\ \cancel{1}, \cancel{3}, \cancel{12}, \cancel{0}, \cancel{0} \\ \cancel{i}, \cancel{j}, \cancel{i}, \cancel{j}, \cancel{j} \end{bmatrix} \quad \begin{bmatrix} 1, 3, 12, 0, 0 \\ \underline{1}, \underline{3}, \underline{12}, \underline{0}, \underline{0} \\ j, j \end{bmatrix}$$

$$\begin{bmatrix} 1, 3, 12, 0, 0 \\ \cancel{1}, \cancel{3}, \cancel{12}, \cancel{0}, \cancel{0} \\ \cancel{i}, \cancel{j}, \cancel{i}, \cancel{j}, \cancel{j} \end{bmatrix}$$

$$\begin{bmatrix} 1, 3, 0, 0 \\ 0, 1, 0, 3, 12 \\ i, j, i, j, j \end{bmatrix} \quad X$$

$$\begin{bmatrix} 1, 3, 0, 0 \\ 1, 3, 0, 0, 0 \\ i, j, i, j, j \end{bmatrix}$$

$$\begin{bmatrix} 1, 3, 0, 0, 0 \\ 1, 3, 0, 0, 0 \\ i, j, i, j, i \\ j, j, j, i, i \end{bmatrix}$$

$$\begin{bmatrix} 1, 3, 12, 0, 0 \\ 1, 3, 12, 0, 0 \\ i, j, i, j, i \end{bmatrix}$$

$$(0 \neq 0)$$

$$(1 \neq 0)$$

$$(0 \neq 0)$$

$$(3 \neq 0)$$

$$(12 \neq 0)$$

j = element dhundha

j = posi ~ non-zero

$$\rightarrow j = 0 + 2$$

$$i = 0 \times 2 = 0$$

$$\begin{bmatrix} 2, 2 \\ 2, 2, 2, 3 \\ \cancel{2}, \cancel{2}, \cancel{2}, \cancel{1} \\ \cancel{j}, \cancel{j}, \cancel{j}, \cancel{1} \end{bmatrix} \quad val = 3$$

$$\begin{bmatrix} 0, 0, 0, 0, 2, 3, 0, 4 \\ 0, 0, 0, 0, 2, 3, 0, 4 \end{bmatrix}$$

$[0, \underline{0}, \underline{1}, \underline{0}, 0, 2, \underline{0}, 3, 0, 4]$

$\rightarrow [0, 1, 2, 3, 4] - 5$

$[0, 0, 1, 2, 3, 4]$

$\rightarrow [0, 1, 2, 2, 3, 3, 4]$

$\circ \quad \overset{\circ}{\underset{\circ}{\circ}} \quad \overset{\circ}{\underset{\circ}{\circ}} \quad \overset{\circ}{\underset{\circ}{\circ}} \quad \overset{\circ}{\underset{\circ}{\circ}} \quad \overset{\circ}{\underset{\circ}{\circ}} \quad \overset{\circ}{\underset{\circ}{\circ}}$

$(4+1)$