Elminahm with Hatries
Note: Eliminatur is commenty used to
Note: Eliminatur is community used to computer systems.
Objechres
7 Success
Elimination Success Failure
Back-Subshhikon.
Elimination matrices
Merhix mulhplicahin
Lh start
dets start:
q+2u+2=0
3xf 8u + 2=12 $3xf 8u + 2=12$ $3xf 8u + 2=12$ $3xf 8u + 3xf 8u$

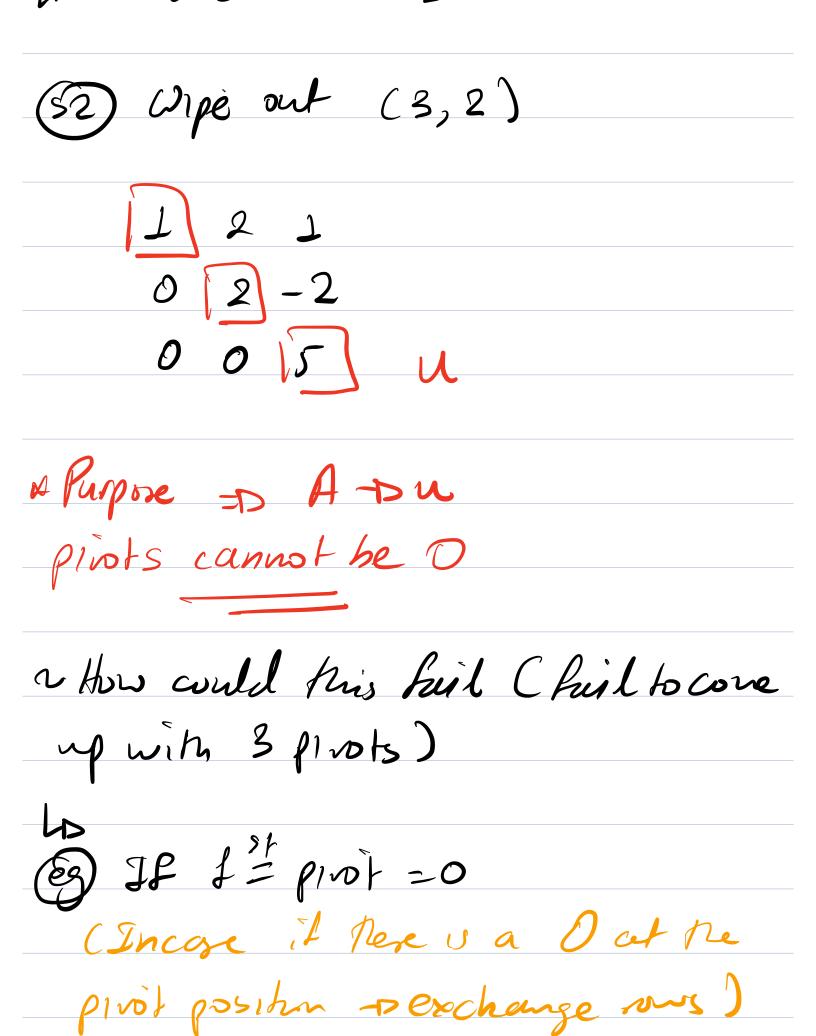
$$\begin{array}{c}
A \times = b \\
1 \stackrel{!}{=} pivot \\
A = \begin{bmatrix} 1 \\ 2 \\ 1 \end{bmatrix}$$

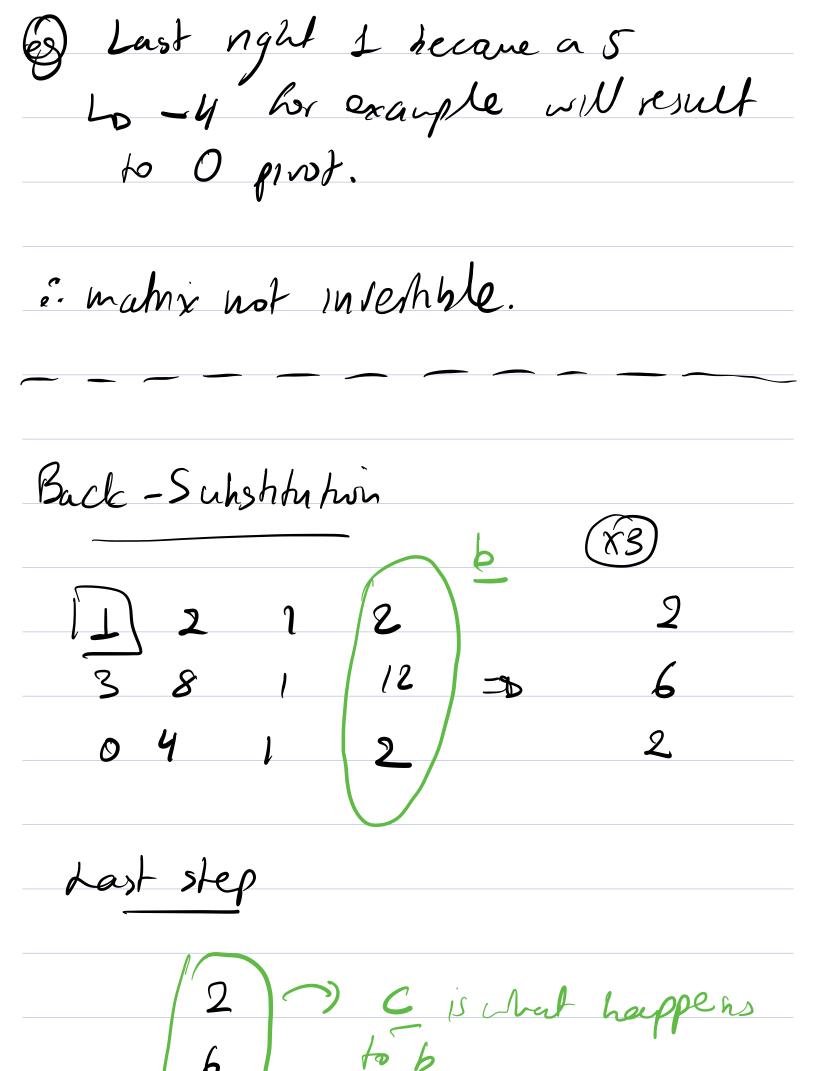
$$\begin{array}{c}
3 & 8 \\ 1 \\
0 & 4 \\
1
\end{array}$$

$$\begin{array}{c}
4 \\
2 \\
2
\end{array}$$

49 + 2 = 2

[forward demination].





$$x + 2y + 7 = 2$$
 $- 2 \times 2$
 $2y - 27 = 6$ $- 2 \times 2 = 1$
 $57 = -10$ $- 27 = -2$



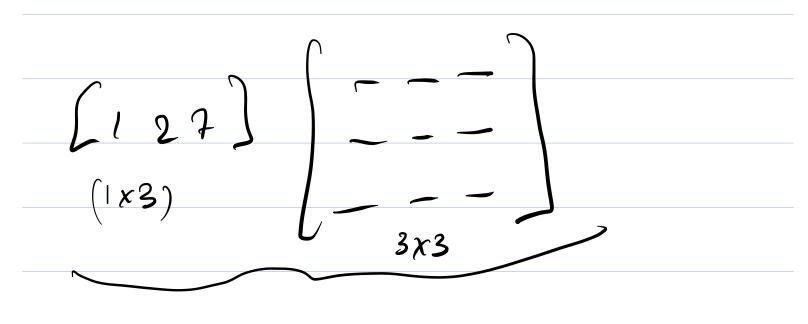
· Elminahu Mahies

Moke:

matrix x column

= Column

us how openhis



2 x row 2 2 x row 3

.. Mahries: subhact 3 x row 1 hm now 2

(52) : Subbuet 2 x row 2 km nr 3

$$\begin{bmatrix} 1 & 0 & 0 & 1 & 2 & 1 \\ 0 & 2 & 0 & 0 & 2 & -2 \\ 0 & -2 & 1 & 0 & 4 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 2 & 1 \\ 0 & 2 & -2 \\ 0 & 0 & 5 \end{bmatrix}$$

£ (3,2)

ve shaft with

$$\frac{E_{32}(E_{21}A) = u}{Associatio}$$

$$\frac{E_{32}(E_{21}A) = u}{A=u}$$

DOtter type of Eleventury Matrix C Matrix that exchanges 2 nows] Lopermutation Matrix

@ Exchange rows I and 2

$$\begin{cases}
0 & \text{if } a & \text{if } b \\
0 & \text{if } a & \text{if } a & \text{if } b
\end{cases}$$

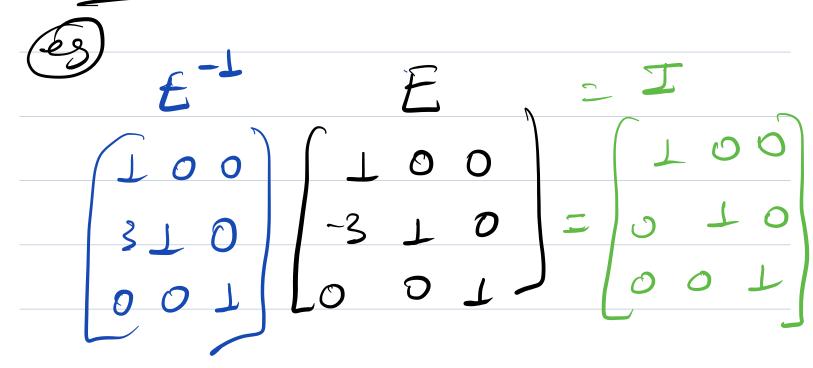
Exchange columns

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix} = \begin{bmatrix} b & a \\ d & c \end{bmatrix}$$

Note: You cannot change the order of Matrices

Commutatie Lau is FALSE?

Threses



*Me, The step was subtract 3 x now, hong now, 2 (Undoes elementer)