Gausian · find the row with the largest etimination value in each element pleting mathed ----> k=0,..., N-1 1 A00 A01 A02 A0N-1 m A10 rom A20 N-19 if current now # largest now.

then replace monax

-> snap none so max now = kth now e.g. for k=0 (let step)  $\begin{pmatrix} A_{00} \\ A_{10} \\ A_{20} \end{pmatrix} = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} \Rightarrow M_{\text{max}} = 2$ after swapping : - / A 20 A 21 A 22 A 2N-1 & rating away (AOO AOI AOZ AON-I) a multiple of the sow from each now below so have to swap entire rows the 10 nons For c = 0,..., N-1 Ammaxc = Akc company subsequents for rous below (Ist row)...> k -> need to perform our great on

i. for 
$$r = k+1,..., N-1$$

$$\lambda_r = A_{rk}$$

$$A_{kk}$$

If  $A_{rk}$ 

$$A_{rc} = A_{rc} - \lambda_{r}$$

$$A_{rc} = A_{rc} - \lambda_{rc}$$

$$A_{r$$