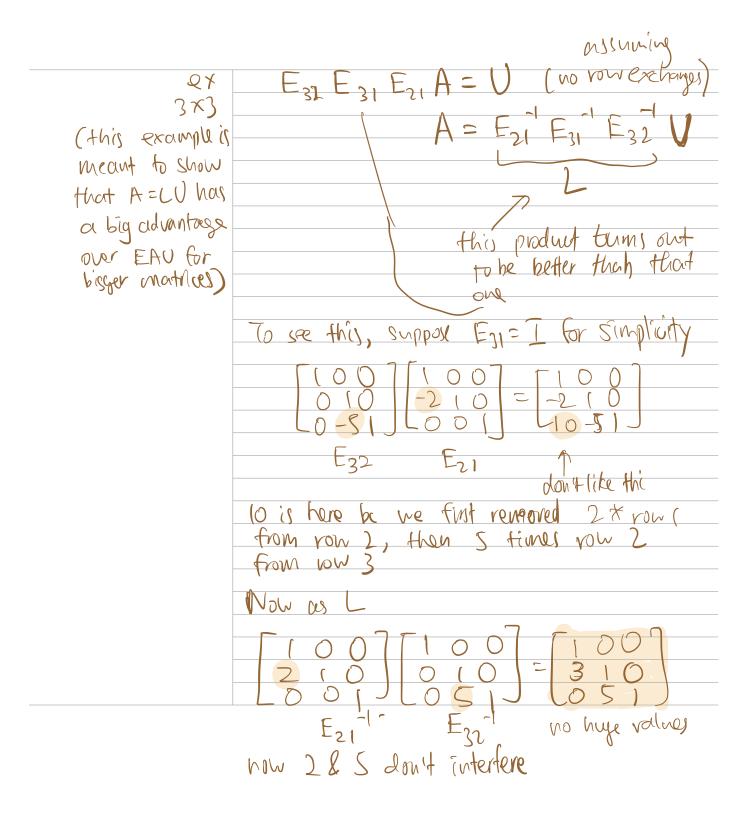
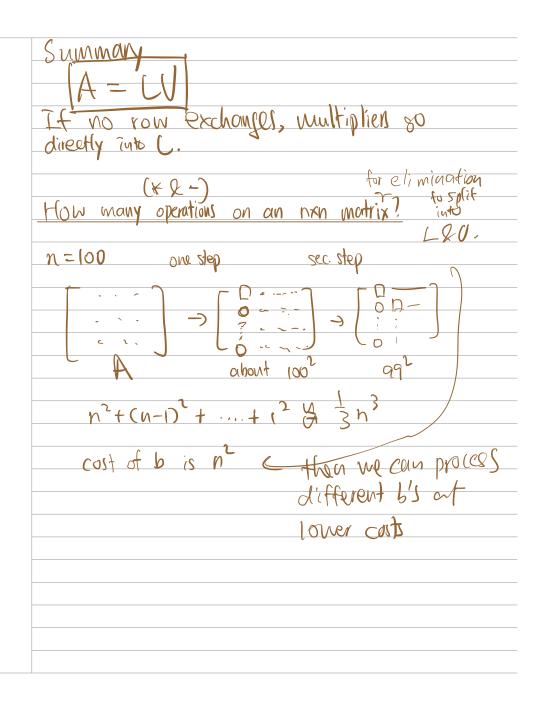
4 LU and LDU factorization Inverse of AB V A A-1 = I = A-1 A $(AB)(BA) = I = (B^{-1}A^{-1})(AB)$ Inverse of AT V transpose both sides, need to switch order (A-1) TAT = I Elimination ex, 2×2 FZI $= \begin{bmatrix} 1 & 0 \\ 4 & 1 \end{bmatrix} \begin{bmatrix} 2 & 0 \\ 0 & 3 \end{bmatrix} \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}$





What if we allow you exchanges?
Transpose & permutertons
Next lecture