$$L(F^n, F^m) \longleftrightarrow M_{m,n}(F)$$

Mutrix multiplication composition.

$$A \in M_{n,n}(F)$$
 is invertible iff $A \times = 0 \Rightarrow \times = 0$.
i.e. nulling $A = 0$
 $\text{vank} A = n$

I willipy it row by
$$\lambda = \begin{pmatrix} 1 & 1 & 0 \\ 0 & 1 \end{pmatrix} = D_i(\lambda)$$

and to its row λ . Its row =
$$\begin{pmatrix} 1 & 0 \\ \lambda & 1 \end{pmatrix} = B_{ij}(\lambda)$$
exchange its Library =
$$\begin{pmatrix} 1 & 0 \\ \lambda & 1 \end{pmatrix} = P_{ij}(\lambda)$$