## PROBLEM 6

$$X = \begin{cases} 1 & 1 & P_{12} & \cdots & P_{1L} \\ \vdots & \vdots & \vdots \\ 1 & 1 & P_{iL} & P_{iL} \\ \vdots & \vdots & \vdots \\ 0 & P_{iL} & P_{iL} \\ \vdots & \vdots & \vdots \\ 0 & P_{nL} & P_{nL} \end{cases}$$

$$E = \begin{bmatrix} E_1 \\ E_2 \\ \vdots \\ E_n \end{bmatrix}$$

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THIS MAKES IT FULL PANK