Step-1

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 $I_{21} =$ One time row 1 is subtracted from row 2 to make $\begin{bmatrix} 1 & 1 & 5 \\ 1 & 2 & 7 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 1 & 5 \\ 0 & 1 & 2 \end{bmatrix}$

Step-2

The reverse step is adding l_{21} one time row 1 to row 2 to make $L = \begin{pmatrix} 1 & 0 \\ 1 & 1 \end{pmatrix}$ in an identity matrix.

Step-3

 $Ax = b \Rightarrow LUx = b$

So,

A = LU

Step-4

A = LDU