Find L and U for A=LU when

ans:
$$U = \begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 4 \\ 1 & 6 & 3 \end{pmatrix}$$

$$L = \begin{pmatrix} 1 & 0 & 0 \\ 1 & 1 & 0 \\ 1 & 1 & 0 \end{pmatrix}$$