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$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & k_{ii} = 1 & 0 & 0 \\ 0 & \vdots & 0 & 0 & 0 \\ 0 & 0 & & & \\ 0 & & & & \end{bmatrix} \begin{bmatrix} u_i = c_i \end{bmatrix} = \begin{bmatrix} k_{1i} \cdot c_i \\ p_i = k_{ji} \cdot c_i \\ \\ k_{ni} \cdot c_i \end{bmatrix}$$

and then with 90 degrees:

$$\begin{bmatrix}
 0 & 0 & k_{ii} = 1 & 0 & 0 & 0 \\
 0 & 0 & 0 & \vdots & & 0 & 0 \\
 k_{1i} \cdot c_i & p_i = k_{ji} \cdot c_i & & & & k_{ni} \cdot c_i
 \end{bmatrix}
 =
 \begin{bmatrix}
 u_i = c_i
 \end{bmatrix}$$

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