$$\begin{pmatrix} b_{1,1} & \cdots & b_{1,k} \\ \vdots & \vdots & \vdots \\ b_{n,1} & \cdots & b_{n,k} \end{pmatrix} \Big\} \ n \text{ rows}$$

$$\begin{pmatrix} a_{1,1} & \cdots & a_{1,n} \\ \vdots & \vdots & \vdots \\ a_{m,1} & \cdots & a_{m,n} \end{pmatrix} \begin{pmatrix} c_{1,1} & \cdots & c_{1,n} \\ \vdots & \vdots & \vdots \\ c_{m,1} & \cdots & c_{m,n} \end{pmatrix} \Big\} \ m \text{ rows}$$

$\underbrace{\qquad}_{n \text{ columns}} \quad \underbrace{\qquad}_{k \text{ columns}}$