

B : p rows q columns

$$\begin{pmatrix} b_{11} & \textcircled{b_{12}} & \dots & b_{1q} \\ b_{21} & \textcircled{b_{22}} & \dots & b_{2q} \\ \vdots & \vdots & \ddots & \vdots \\ b_{p1} & \textcircled{b_{p2}} & \dots & b_{pq} \end{pmatrix}$$

$$\begin{pmatrix} a_{11} & a_{12} & \dots & a_{1p} \\ \textcircled{a_{21}} & \textcircled{a_{22}} & \dots & \textcircled{a_{2p}} \\ \vdots & \vdots & \ddots & \vdots \\ a_{n1} & a_{n2} & \dots & a_{np} \end{pmatrix}$$

A : n rows p columns

$$\begin{pmatrix} c_{11} & c_{12} & \dots & c_{1q} \\ c_{21} & \textcircled{c_{22}} & \dots & c_{2q} \\ \vdots & \vdots & \ddots & \vdots \\ c_{n1} & c_{n2} & \dots & c_{nq} \end{pmatrix}$$

C = A \times B : n rows q columns

