

for $i=1$ to m
 for $j=1$ to n

$$\boxed{\text{for } k=1 \text{ to } r}$$

$$C(i,j) = C(i,j) + A(i,k) \cdot B(k,j)$$

for $i=1$ to n
 for $j=1$ to n

$$C(i,j) = C(i,j) + A(i,*) \cdot B(*,j)$$

every element of C matrix is computed using $(i,*)$ of A and $(*,j)$ of B

Row $\square = \square \cdot \begin{matrix} A \\ B \end{matrix}$

Column.

for $i=1$ to n

$$C(i,*) = C(i,*) + A(i,*) \cdot B$$

A Row of C is computed using the entire matrix B and a row of A .

$$\square = \square \cdot \square$$

vector \times Matrix

for $j=1$ to n
 for $i=1$ to m

$$\boxed{\text{for } k=1 \text{ to } r}$$

$$C(i,j) = C(i,j) + A(i,k) \cdot B(k,j)$$

for $j=1$ to n

for $i=1$ to m

$$C(i,j) = C(i,j) + A(i,*) \cdot B(*,j)$$

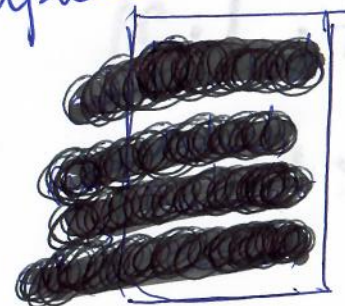
$$\square = \square \cdot \begin{matrix} A \\ B \end{matrix}$$

for $j=1$ to n

$$C(*,j) = C(*,j) + A \cdot B(*,j)$$

A Column of C is computed using entire A and a column of B

$$\begin{matrix} A \\ B \end{matrix} = \square \cdot \square$$



matrix \times vector