$$\begin{bmatrix} A_{n\times n} & 0 \\ C & I_{m\times m} \end{bmatrix} \times \begin{bmatrix} I_{n\times n} & 0 \\ 0 & D_{m\times m} \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C_{1}+IO & 9+ID \end{bmatrix} = \begin{bmatrix} A & 0 \\ C & D \end{bmatrix}$$
 $\begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & C_{1}+IO \end{bmatrix} = \begin{bmatrix} A & 0 \\ C & D \end{bmatrix} = \begin{bmatrix} A & 0 \\ C & D \end{bmatrix}$
 $\begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A & 0 \\ C & D \end{bmatrix} = \begin{bmatrix} A & 0 \\ C & D \end{bmatrix} = \begin{bmatrix} A & 0 \\ C & D \end{bmatrix}$
 $\begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{0}+9D \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ C & A_{1}+IO \end{bmatrix} = \begin{bmatrix} A_{1}+8^{2} & A_{1}+IO \\ A_{1}+IO \end{bmatrix}$

$$\begin{bmatrix} A & O \\ C & I_{mxm} \end{bmatrix} \times \begin{bmatrix} I_{nxn} & A^{-1}B \\ O & D & -CA^{-1}B \end{bmatrix} = \begin{bmatrix} AI + 8^2 & AA^{-1}B + O(D - CA^{-1}B) \\ CI + IO & CA^{-1}B + ID - ICA^{-1}B \end{bmatrix} = \begin{bmatrix} AI + 8^2 & AA^{-1}B + O(D - CA^{-1}B) \\ CI + IO & CA^{-1}B + ID - ICA^{-1}B \end{bmatrix} = \begin{bmatrix} AI + 8^2 & AA^{-1}B + O(D - CA^{-1}B) \\ CI + IO & CA^{-1}B + ID - ICA^{-1}B \end{bmatrix}$$

$$= \begin{bmatrix} A & IB \\ C & CAB+D-CAB \end{bmatrix} = \begin{bmatrix} A & B \\ C & D \end{bmatrix}$$

توص، حون درصورت سوال از آم استفاده شده، س A ما ترسی معکدس بربر است و ی دانوم: $AA^{-1}A = I$