

$$A = \begin{pmatrix} 3 & 2 \\ 5 & 1 \end{pmatrix} \qquad B = \begin{pmatrix} 6 & 4 \\ 6 & 8 \end{pmatrix}$$

$$A = \begin{pmatrix} 12 + 12 & 24 + 16 \\ 20 + 6 & 35 + 8 \end{pmatrix} = \begin{pmatrix} 1 & 9 \\ 4 & 2 \\ 3 & 5 \end{pmatrix}$$

$$C = \begin{pmatrix} 2 + 5 & 4 \\ 3 & 6 & 8 \end{pmatrix} \qquad D = \begin{pmatrix} 1 & 9 \\ 4 & 2 \\ 3 & 5 \end{pmatrix}$$

$$C = \begin{pmatrix} 2 + 10 + 14 & 18 + 10 + 36 \\ 3 + 2 + 2 + 2 & 27 + 12 + 40 \end{pmatrix} = \begin{pmatrix} 1 & 9 \\ 4 & 2 \\ 3 & 5 \end{pmatrix}$$

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