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$$A = \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix}^{3 \times 1} \quad B = \begin{pmatrix} -1 & 1 & 1 \end{pmatrix}^{1 \times 3} \quad C = \begin{pmatrix} -1 & 1 \\ 1 & 1 \end{pmatrix}^{2 \times 2} \quad D = \begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}^{2 \times 2} \quad E = \begin{pmatrix} -1 & 1 \\ 1 & 0 \\ 1 & 1 \end{pmatrix}^{3 \times 2}$$

$$A \cdot B \text{ si } (3 \times 3)$$

$$B \cdot A \text{ si } (1 \times 1)$$

$$C \cdot D, D \cdot C \text{ si } (2 \times 2) \text{ sono diverse}$$

$$B \cdot E \text{ si } (1 \times 2)$$

$$C \cdot E \text{ no}$$

$$EC \text{ si } (3 \times 2)$$

$$EC \text{ si } (3 \times 2)$$

$$A \cdot B = \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix} \begin{pmatrix} -1 & 1 & 1 \end{pmatrix} = \begin{pmatrix} -2 & 2 & 2 \\ -1 & 1 & 1 \\ -1 & 1 & 1 \end{pmatrix}^{3 \times 3}$$

$$B \cdot A = \begin{pmatrix} -1 & 1 & 1 \end{pmatrix} \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} -2 + 1 + 1 \end{pmatrix} = (0)^{1 \times 1}$$

$$E \cdot C = \begin{pmatrix} -1 & 1 \\ 1 & 0 \\ 1 & 1 \end{pmatrix} \begin{pmatrix} -1 & 1 \\ 1 & 1 \end{pmatrix} = \begin{pmatrix} 2 & 0 \\ -1 & 1 \\ 0 & 2 \end{pmatrix}^{3 \times 2}$$