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$$\begin{pmatrix} 4 & 0 & -4 & | & 4 & | & 1 & | & 1 & | & 0 & -1 & | & 4 & | & 0 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 &$$

$$\frac{11-2T}{0} = \frac{1}{0} =$$

$$A - \lambda_{1}A = A + A = \begin{pmatrix} 3 & 4 \\ 3 & 4 \end{pmatrix}$$

$$\begin{cases} 3x_{1} + x_{2} = 0 \\ 3x_{1} + x_{2} = 0 \end{cases} \begin{cases} x_{2} = -3x_{1} \\ 0 = 0 \end{cases}$$

$$A - \lambda_{2}A = A - 3A = \begin{pmatrix} -1 & 1 \\ 3 & -3 \end{pmatrix}$$

$$\begin{pmatrix} -4 & 4 & 0 \\ 3 & -3 & 0 \end{pmatrix} \xrightarrow{\mathbb{I} + 5\mathbb{T}} \begin{pmatrix} -1 & 1 & 0 \\ 0 & 0 & 0 \end{pmatrix}$$

$$-x_{1} + x_{2} = 0 \qquad ; \quad x_{1} = x_{2} \qquad \forall x_{3} = x_{4} \begin{pmatrix} 1 \\ 1 \end{pmatrix} \Rightarrow A \in \xrightarrow{\text{DAGONALIZIA BILE}} \xrightarrow{\text{OPARE}}$$

$$D = \begin{pmatrix} -4 & 0 \\ 0 & 3 \end{pmatrix} \qquad P = \begin{pmatrix} 1 & 1 \\ -3 & 1 \end{pmatrix}$$

$$P^{-1} = \begin{pmatrix} 1 & 1 & 1 & 0 \\ -3 & 1 & 0 & 1 \end{pmatrix}$$

$$\mathbb{I} + 3\mathbb{I} \begin{pmatrix} 1 & 1 & 1 & 0 \\ 0 & 4 & 3 & 1 \end{pmatrix}$$

$$\frac{1}{4}\mathbb{I} = \begin{pmatrix} 1 & 1 & 1 & 0 \\ 0 & 4 & 3 & 1 \end{pmatrix}$$

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