

>> مساله عدد <<

۹۵۳۱۰۷۴

رخصه، تستل اراي

$$[A:I] \rightarrow [I:\bar{A}'] \quad \text{می دانیم}$$

A

$$\left[\begin{array}{ccccc|ccccc} 1 & 1 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 1 & 1 & 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 \end{array} \right]$$

row 1

$$= \text{row 1} - \text{row 4}$$

$$\text{row } K = \text{row } K - \text{row } K$$

$$\left[\begin{array}{ccccc|ccccc} 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & -1 & 0 \\ 1 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 \end{array} \right]$$

$$\text{row } K = \text{row } K - \text{row } 4$$

$$\left[\begin{array}{ccccc|ccccc} 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 & -1 \\ 1 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 \end{array} \right]$$

$$\underline{\text{row 1} = \text{row 1} - \text{row 2}}$$

$$\left[\begin{array}{ccccc|ccccc} -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 & -1 \\ 1 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 \end{array} \right]$$

$$\underline{\text{row 2} = \text{row 2} + \text{row 1}}$$

$$\underline{\text{row 2} = \text{row 2} - \text{row 3}}$$

$$\left[\begin{array}{ccccc|ccccc} -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 & -1 \\ 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 \end{array} \right]$$

$$\underline{\text{row 2} = \text{row 2} + \text{row 1}}$$

$$\underline{\text{row 3} = \text{row 3} + \text{row 2}}$$

$$\left[\begin{array}{ccccc|ccccc} -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 & -1 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 1 & 0 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & -1 & 0 \end{array} \right]$$

$$\underline{\text{row 2} = \text{row 2} + \text{row 3}}$$

$$\underline{\text{row 1} = -\text{row 1}}$$

$$\underline{\text{row 2} = -\text{row 2}}$$

$$\left[\begin{array}{ccccc|ccccc} 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 & 1 \\ 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & 0 & 1 & 1 & -1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & -1 & 0 \end{array} \right]$$

$$\Rightarrow A =$$

$$\left[\begin{array}{ccccc} -1 & 0 & 1 & 1 & 0 \\ 0 & -1 & 0 & 1 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & 1 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 0 \end{array} \right]$$

تعلویں فارسیں