

$$A A^{-1} = I \rightarrow \begin{bmatrix} 1 & 1 & 1 & 1 & 0 \\ 1 & 1 & 0 & 1 & 1 \\ 1 & 0 & 1 & 0 & 0 \\ 1 & 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} a_{11} & a_{12} & a_{13} & a_{14} & a_{15} \\ a_{21} & a_{22} & a_{23} & a_{24} & a_{25} \\ a_{31} & a_{32} & a_{33} & a_{34} & a_{35} \\ a_{41} & a_{42} & a_{43} & a_{44} & a_{45} \\ a_{51} & a_{52} & a_{53} & a_{54} & a_{55} \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{bmatrix}$$

از ضرب بالا و برابر قرار دادن در این‌ها تغییر داریم:

$$10. a_{11} + a_{21} + a_{31} + a_{41} = 1 \rightarrow \boxed{a_{31} = 1} \quad \boxed{a_{21} = 0} \quad \boxed{a_{41} = 0}$$

$$a_{12} + a_{22} + a_{32} + a_{42} = 0 \rightarrow \boxed{a_{32} = 0} \quad \boxed{a_{22} = -1} \quad \boxed{a_{42} = 1}$$

$$11. a_{13} + a_{23} + a_{33} + a_{43} = 0 \rightarrow \boxed{a_{23} = 1} \quad \boxed{a_{33} = 0}$$

$$12. a_{14} + a_{24} + a_{34} + a_{44} = 0 \rightarrow \boxed{a_{24} = -1} \quad \boxed{a_{44} = 1}$$

$$13. a_{15} + a_{25} + a_{35} + a_{45} = 0 \rightarrow \boxed{a_{25} = 0} \quad \boxed{a_{35} = 1} \quad \boxed{a_{45} = -1}$$

$$\boxed{a_{11} = -1} \quad \boxed{a_{12} = 0} \quad \boxed{a_{13} = 1} \quad \boxed{a_{14} = 1} \quad \boxed{a_{15} = 0} \quad \boxed{a_{25} = -1}$$

$$14. \text{حکایت دست بدان سرو بلندش برسد} \quad \boxed{a_{41} = 1} \quad \boxed{a_{42} = 1} \quad \boxed{a_{43} = -1}$$

$$15. \text{حرکت راد طبلت بت او قاصر نیست} \quad \boxed{a_{44} = -1} \quad \boxed{a_{45} = -1} \quad \boxed{a_{55} = 0}$$



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2015 October 14

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چهارشنبه



Wed.

$$A^{-1} = \begin{bmatrix} -1 & 0 & 1 & 1 & 0 \\ 0 & -1 & 1 & 1 & 1 \\ 1 & 0 & 0 & -1 & 0 \\ 1 & 1 & -1 & -1 & -1 \\ 0 & 1 & -1 & -1 & 0 \end{bmatrix}$$