want to invert 芝思, -1 0 R2+R, 1 д D -1/2 0 | -1/2 -1/2 1 -1/2 -K2 0 / -1/2 1 -2 +1 -2 0 1 0 0 0 1 R3-R2 R,+=R-0 1 0 0 0 1

This is the mouse.

$$C = \begin{pmatrix} +0 & +0 & +0 \\ -0 & +0 & -6 \end{pmatrix} = \begin{pmatrix} -1 & 0 & -1 \\ 0 & 0 & 2 \\ 1 & 2 & 1 \end{pmatrix} = \begin{pmatrix} -1 & 0 & 1 \\ 0 & 0 & 2 \\ -1 & 2 & 1 \end{pmatrix}$$

Thus
$$A^{-1} = \frac{1}{2} \begin{pmatrix} -1 & 0 & 1 \\ 0 & 0 & 2 \\ -1 & 2 & 1 \end{pmatrix}$$

$$= \begin{pmatrix} -1/2 & 0 & 1/2 \\ 0 & 0 & 1 \\ -1/2 & 1 & 1/2 \end{pmatrix}$$

While matches the result how four operations.