## Step-1

Suppose $A = \begin{bmatrix} a_{11} & a_{12} & - & a_{1n} \\ a_{21} & - & - & a_{2n} \\ - & - & - & - \\ a_{n1} & a_{n2} & - & a_{nn} \end{bmatrix}$

The cofactor of each entry $a_{ij}$ is $A_{ij} = 0$

So, the determinant of $A$ is $(-1)^{1+1} a_{11}A_{11} + (-1)^{1+2} a_{12}A_{12} + \ldots + (-1)^{1+n} a_{1n}A_{1n}$

$= \sum_{j=1}^{n} (-1)^{1+j} a_{1j}(0)$

= 0

## Step-2

Now, the inverse of $A$ is given by $A^{-1} = \frac{C^T}{|A|}$

$= \frac{C^T}{0}$ does not exist.