Let


Without modifying the column $C_{4}$, make as many zeros as possible appear in the other columns by using only linear operations involving $C_{4}$.

Each time a coefficient is non zero, color the corresponding box on the left.

then, on the left,

- color $A \backslash B$
- color $(A \cup B \cup E)^{C}$
- color $E \cap F$

