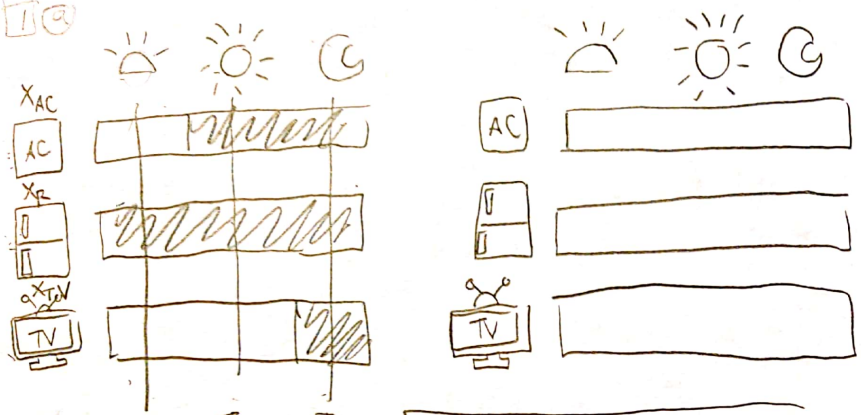
I ⓐ




II ⓑ

$T_1 = X_R + 0 \cdot X_{AC} + \cdots$

$T_2 = X_R + X_{AC}$

$T_3 = X_R + X_{AC} + X_{TV}$

$$\begin{array}{c} X_R \quad X_{AC} \quad X_{TV} \\ \left[\begin{array}{ccc|c} 1 & 0 & 0 & T_1 \\ 1 & 1 & 0 & T_2 \\ 1 & 1 & 1 & T_3 \end{array}\right] \end{array}$$

Response to "How would you solve a system using Gaussian Elimination"

$$R_2 - R_1 \to R_2 \quad \left[\begin{array}{ccc|c} 1 & 0 & 0 & T_1 \\ 0 & 1 & 0 & T_2 - T_1 \\ 1 & 1 & 1 & T_3 \end{array}\right]$$

$$R_3 - R_1 \to R_3 \quad \left[\begin{array}{ccc|c} 1 & 0 & 0 & T_1 \\ 0 & 1 & 0 & T_2 - T_1 \\ 0 & 1 & 1 & T_3 - T_1 \end{array}\right]$$

$$R_3 - R_2 \to R_3 \quad \left[\begin{array}{ccc|c} 1 & 0 & 0 & T_1 \\ 0 & 1 & 0 & T_2 - T_1 \\ 0 & 0 & 1 & T_3 - T_2 \end{array}\right]$$

$1 \cdot X_R = T_1$

$1 \cdot X_{AC} = T_2 - T_1$

$1 \cdot X_{TV} = T_3 - T_2$

2 ⓐ $\begin{cases} 2x+y=6 \\ 3x-2y=2 \end{cases}$

$$\begin{array}{r} 4x+2y=12 \\ +\ 3x-2y=2 \\ \hline 7x=14 \end{array}$$

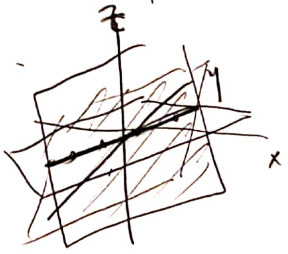
$\begin{cases} x=2 \\ y=2 \end{cases}$


ⓑ $\begin{cases} x+y+z=2 \\ x-y=1 \\ 2y+z=1 \end{cases}$

① $x+y+z=2$

②+③ $x+y+z=2$

infinite




ⓒ $\begin{cases} 6x+2y=15 \\ 3x+y=7 \end{cases}$

$\begin{cases} 6x+2y=15 \\ 6x+2y=14 \end{cases}$