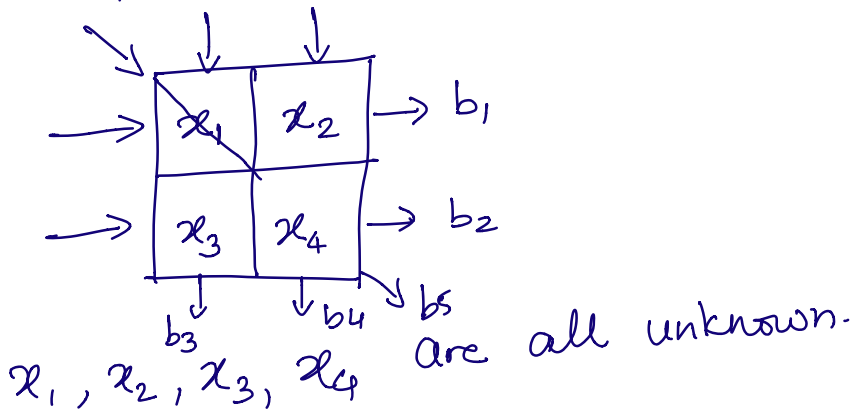


EECS 16A  
Fall 2020

Simplified 4 pixel brain imaging



$$\textcircled{1} \quad x_1 + x_2 = b_1$$

$$\textcircled{2} \quad x_3 + x_4 = b_2$$

$$\textcircled{3} \quad x_1 + x_3 = b_3$$

$$\textcircled{4} \quad x_2 + x_4 = b_4$$

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Are these equations independent?

$$\textcircled{1} + \textcircled{2} \rightarrow x_1 + x_2 + x_3 + x_4 = b_1 + b_2$$

$$\textcircled{3} + \textcircled{4} \rightarrow x_1 + x_2 + x_3 + x_4 = b_3 + b_4$$

$$\textcircled{5} \quad x_1 + x_4 = b_5$$