

$$\boldsymbol{x}_0 = 000 \quad y_0 = \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$$

$$\boldsymbol{x}_1 = 100 \quad y_1 = \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$$

$$\boldsymbol{x}_2 = 010 \quad y_2 = \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$$

$$\boldsymbol{x}_3 = 110 \quad y_3 = \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$$

$$\boldsymbol{x}_4 = 001 \quad y_4 = \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$$

$$\boldsymbol{x}_5 = 101 \quad y_5 = \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$$

$$\boldsymbol{x}_6 = 011 \quad y_6 = \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$$

$$\boldsymbol{x}_7 = 111 \quad y_7 = \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$$

$$\boldsymbol{x}_0 = 000 \quad y_0 = \begin{cases} 0 \\ \textcolor{blue}{\times} \end{cases}$$

$$\boldsymbol{x}_1 = 100 \quad y_1 = \begin{cases} 0 \\ 1 \end{cases}$$

$$\boldsymbol{x}_2 = 010 \quad y_2 = \begin{cases} \textcolor{blue}{\times} \\ 1 \end{cases}$$

$$\boldsymbol{x}_3 = 110 \quad y_3 = \begin{cases} \textcolor{blue}{\times} \\ 1 \end{cases}$$

$$\boldsymbol{x}_4 = 001 \quad y_4 = \begin{cases} 0 \\ \textcolor{blue}{\times} \end{cases}$$

$$\boldsymbol{x}_5 = 101 \quad y_5 = \begin{cases} 0 \\ \textcolor{blue}{\times} \end{cases}$$

$$\boldsymbol{x}_6 = 011 \quad y_6 = \begin{cases} 0 \\ 1 \end{cases}$$

$$\boldsymbol{x}_7 = 111 \quad y_7 = \begin{cases} 0 \\ 1 \end{cases}$$

$$\mathcal{D} = \{(000, 0), (010, 1), (110, 1), (001, 0), (101, 0)\}$$

$$\boldsymbol{x}_0 = 000 \quad y_0 = \begin{cases} 0 \\ \textcolor{blue}{\times} \end{cases}$$

$$\boldsymbol{x}_1 = 100 \quad y_1 = \begin{cases} 0 \\ 1 \end{cases} \quad \textcolor{red}{\text{unseen}}$$

$$\boldsymbol{x}_2 = 010 \quad y_2 = \begin{cases} \textcolor{blue}{\times} \\ 1 \end{cases}$$

$$\boldsymbol{x}_3 = 110 \quad y_3 = \begin{cases} \textcolor{blue}{\times} \\ 1 \end{cases}$$

$$\boldsymbol{x}_4 = 001 \quad y_4 = \begin{cases} 0 \\ \textcolor{blue}{\times} \end{cases}$$

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unseen

$$\mathcal{D} = \{(000, 0), (010, 1), (110, 1), (001, 0), (101, 0)\}$$

$$\mathbf{x}_0 = 000 \quad y_0 = \begin{cases} 0 \\ \textcolor{blue}{\times} \end{cases}$$

$$\mathbf{x}_1 = 100 \quad y_1 = \begin{cases} 0 \\ 1 \end{cases}$$

$$\mathbf{x}_2 = 010 \quad y_2 = \begin{cases} \textcolor{blue}{\cancel{0}} \\ 1 \end{cases}$$

$$\mathbf{x}_3 = 110 \quad y_3 = \begin{cases} \textcolor{blue}{\cancel{0}} \\ 1 \end{cases}$$

$$\mathbf{x}_4 = 001 \quad y_4 = \begin{cases} 0 \\ \textcolor{blue}{\times} \end{cases} \quad \textcolor{red}{\text{seen}}$$

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