

# Implementation of Hamming Code

- To implement Hamming code firstly we calculate Parity Bits
- **Generator Matrix**- It is matrix of  $[k, n]$  use to encode message bits
- For Example
- $p_1 = d_1 + d_2 + d_4$
- $p_2 = d_1 + d_3 + d_4$
- $p_3 = d_2 + d_3 + d_4$

$$G = \left[ \begin{array}{cccc|ccc} 1 & 0 & 0 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 0 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 & 0 & 1 & 1 \end{array} \right]$$

(a)

$$H = \left[ \begin{array}{ccc} 1 & 0 & 1 \\ 1 & 1 & 0 \\ 1 & 1 & 1 \\ 0 & 1 & 1 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{array} \right]$$

(b)

# Hamming Code Implementation In Java

**John Daintith**



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