

Examples of Single-Error Correcting Code

Let $d = Dc^T$, where $D = \begin{pmatrix} 0 & 0 & 0 & 1 & 1 & 1 & 1 \\ 0 & 1 & 1 & 0 & 0 & 1 & 1 \\ 1 & 0 & 1 & 0 & 1 & 0 & 1 \end{pmatrix}$

For this example $d = (1 \ 0 \ 0)^T$

The error occurred at the 4th position.

D is called a **parity check matrix**.

Error Correction Coding Theory

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