INFORMATION SECURITY IA-1

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ERROR DETECTION CODES SECURITY TOOLS



Features:

Checksum:

- Robust Error Detection: Checksums provide robust error detection capabilities, capable of detecting not only single-bit errors but also burst errors and other common transmission errors.
- Block-Level Verification: Checksums operate on blocks of data rather than individual bits, ensuring integrity across larger data units.



Parity Bit Method:

- Simple Implementation: The Parity Bit Method is straightforward to implement, involving the addition of a single bit to binary data.
- Even/Odd Parity Selection: Allow users to choose between even parity and odd parity based on their specific error detection requirements.
- Single-Bit Error Detection: It is primarily designed to detect single-bit errors in transmitted data, making it suitable for applications where error detection requirements are minimal.



THANK YOU!!