SE331: Introduction to Computer Networks	Recitation 3
Semester 1 5785	20 Nov 2024
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CRC

1 CRC Calculations

Suppose we want to transmit the message 1011 0010 0100 1011 and protect it from errors using the CRC-8 polynomial $x^8 + x^2 + x^1 + 1$.

- (a) Use polynomial long division to determine the message that should be transmitted.
- (b) Suppose the leftmost bit of the message is inverted due to noise on the transmission link. What is the result of the receiver's CRC calculation? How does the receiver know that an error has occurred?

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