Reading: sections 2.3, 2.4, 2.5, 2.6

Problem 1:

A) For the generator string $G=110011$ and data string $M=11100011$ find the CRC and the transmitted string $T$. (Since $G$ is 6 bits long, $r=5$, and the CRC should be 5 bits long)

B) Suppose $G=1001$ and the received $T=1010101$, did any transmission errors occur?

C) Suppose $G=101$ and the received $T=1100110$, did any transmission errors occur?

D) Suppose $G=1011$ and $M=10010$ Give the shift register implementation of the CRC generator and show the register sequence for generating the CRC with the above value of $M$.

Text problems: 2.9, 2.10, 2.30, 2.31, 2.35