Here are some examples of exercises you can expect in the exam.

- Assume that an industrial system output is controlled by the following state update equation
  $X_{n+1} = X_n + U_n$,
  Where U is the signal provided by the sensor that monitors the process, and $X_0 = 0$, $U_0 = 0$, and $U_{n+1} = U_n + 1$.

  Let us assume that an attacker manages to break into the sensor at time 10 and controls signal U such that $U_{n+1} = U_n + 5$. Given that the system uses a non-parametric CUSUM statistics with a threshold 50, how many steps will it take to detect the attack (from the moment it begins)?

- Given the following bit series of a message in the CAN bus, complete the attacker's bit series such that it increases the TEC of the victim (notice that red boxes are for arbitration).

Victim	0	0	1	1	1	0	0	1
Attacker								