

ECS 455: In-Class Exercise # 11.1

Instructions

1. Separate into groups of no more than three persons.
2. The group cannot be the same as your former group.
3. Only one submission is needed for each group.
4. **Write down all the steps** that you have done to obtain your answers. You may not get full credit even when your answer is correct without showing how you get your answer.
5. **Do not panic.**

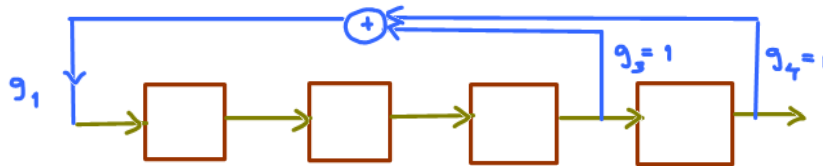
Date: 19/04/2017			
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Consider the polynomial $x^4 + x^3 + 1$. order of polynomial = 4 \Rightarrow use 4 FFs

1. Draw the circuit diagram for the corresponding linear feedback shift register (LFSR).

$$g(x) = 1 + 0x + 0x^2 + 1x^3 + 1x^4$$

$\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$
 $g_0 \quad g_1 \quad g_2 \quad g_3 \quad g_4$



2. Draw the **complete** state diagrams for the corresponding LFSR.

