

*Note: Late HW is **not** accepted!*

1. The contents of a 4-bit register is initially 0000. The register is shifted eight times to the left, with the sequence 00101011 as the serial input. The leftmost bit of the sequence is applied first. What is the content of the register after each shift?
2. Roth textbook problems:
5th, 6th and 7th edition: 12.2, 12.7a, 12.7b, 12.7 but use a J-K FF for Q₂, a T FF for Q₁,
and a D FF for Q₀, 12.9
3. From the Lam book problems:
5.20
5.28 (a) Instead of (a) as given, make a Next State Truth Table with Q₁ and Q₀ the counter bits
(b) As in book, but also write the logic equations.