

Homework 5 (Problem 2 on other side!)

1. Design a counter to produce the following binary sequence (use D flip-flops): 9, 12, 11, 13, 15, 14, 10, 9,...

2. Design a Mealy circuit to find the pattern ...11011... in a series of binary numbers, where each new bit appears on the input to the circuit with each clock pulse. An output should be switched to high when the last number in the pattern is detected. Allow overlapping patterns.