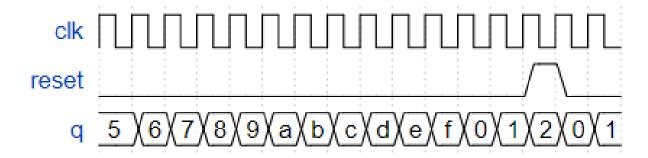
DAY-61 #100DAYSOFRTL

PROBLEM STATEMENT:--

1. Build a 4-bit binary counter that counts from 0 through 15, inclusive, with a period of 16. The reset input is synchronous, and should reset the counter to 0.



Write your solution here [Load a previous submission] Load 1 module top_module (2 input clk, 3 input reset, // Synchronous active-high reset 4 output [3:0] q); 6 always @ (posedge clk) begin 7 if (reset) q <= 4'd0; 8 else q <= q+4'd1; 9 end 10 endmodule Submit Submit (new window)

Status: Success!

You have solved 86 problems. See my progress...

Timing diagrams for selected test cases

These are timing diagrams from some of the test cases we used. They may help you debug your circuit. The diagrams show inputs to the circuit, outputs from your circuit, and the expected reference outputs. The "Mismatch" trace shows which cycles your outputs don't match the reference outputs (o = correct, 1 = incorrect).

Reset and counting

