DAY-32 #100DAYSOFRTL

PROBLEM STATEMENT:--

1. A single-output digital system with four inputs (a,b,c,d) generates a logic-1 when 2, 7, or 15 appears on the inputs, and a logic-0 when 0, 1, 4, 5, 6, 9, 10, 13, or 14 appears. The input conditions for the numbers 3, 8, 11, and 12 never occur in this system. For example, 7 corresponds to a,b,c,d being set to 0,1,1,1, respectively.

Determine the output out_sop in minimum SOP form, and the output out_pos in minimum POS form

Write your solution here [Load a previous submission] ✓ Load 1 module top_module (2 input a, 3 input b, 4 input c, 5 input d, 6 output out_sop, 7 output out_pos 8); 9 assign out_sop = (c&d)|(~a&~b&c); 10 assign out_pos = c&(~b|~c|d)&(~a|~c|d); 11 12 endmodule Submit Submit (new window) Upload a source file... ♥

exams/ece241_2013_q2 — Compile and simulate Running Quartus synthesis. <u>Show Quartus messages...</u> Running ModelSim simulation. <u>Show Modelsim messages...</u> **Status: Success!** You have solved 66 problems. <u>See my progress...</u>