Module difflargesmall (output reg[7:0] large, small, diff,

Input [7:0] a, b, c);

Always @\*

Begin

If (a>=b and a>=c) begin

Large = a; end

If (b>=c) begin

Small = c;end

Else begin

Small = b; end

If (b>=c and b>=a) begin

Large = b; end

If (a>=c) begin

Small = c; end

Else begin

Small = a; end

If(c>=a and c>=b) begin

Large = c; end

If (a>=b) begin

Small = b; end

Else: begin

Small = a; end

end

Assign Diff = large – small;

End

endmodule