

//status: COMPLETE

module Selector(

input [3:0] sel,

input [15:0] N,

output [3:0] H

);

assign H = (sel[3] & !sel[2] & !sel[1] & !sel[0]) ? N[15:12]:

(!sel[3] & sel[2] & !sel[1] & !sel[0]) ? N[11:8] :

(!sel[3] & !sel[2] & sel[1] & !sel[0]) ? N[7:4] :

(!sel[3] & !sel[2] & !sel[1] & sel[0]) ? N[3:0] : 0;

endmodule