```
`timescale 1ns / 1ps
// Company:
// Engineer:
// Create Date: 12/08/2020 04:25:09 PM
// Design Name:
// Module Name: Led Selector
// Project Name:
// Target Devices:
// Tool Versions:
// Description:
//
// Dependencies:
// Revision:
// Revision 0.01 - File Created
// Additional Comments:
module Led Selector(
   input clk, qsec,
   input in, prime, nprime, div, working,
   output [15:0] ledin
   );
   wire [8:0] temp;
   wire [6:0] unused;
   wire [15:0] inputled;
   assign unused = 7'd0;
   assign inputled = {temp[8:0],unused[6:0]};
   wire [15:0] primeled;
   LED Input Control InputLED(.clk(clk), .CE(qsec), .out(temp));
   LED Prime Control PrimeLED(.clk(clk), .CE(qsec), .out(primeled));
   assign ledin = (inputled[15:0]&\{16\{in\}\})|
                (primeled[15:0]&{16{prime}})|
                (16'hFFFF&{16{nprime}})|
                (16'd0&div)|
                (16'h0001&{16{working}});
```