```
* Module: arithmetic top
* Author: Noah Hanks
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* Description: This module assings a and b and co to be the switches and leds and
calls the Add9 module.
*******************************
`default_nettype none
module arithmetic top(
   input wire logic [15:0] sw,
   output logic [8:0] led
);
logic co;
logic [8:0] a, b;
assign b = \{sw[7], sw[7:0]\};
assign a = \{sw[15], sw[15:8]\};
Add9 A0(.a(a), .b(b), .cin(1'b0), .co(co), .s(led));
endmodule
```

/**********************

`timescale 1ns / 1ps