```
module m2 1x8 testbench();
  reg input1;
  reg [7:0] input bus0;
  reg [7:0] input bus1;
  wire [7:0] output bus1;
         UUT (.in0(input bus0), .in1(input bus1), .sel(input1), .o(output bus1)
  m2 1x8
// below is the "stimuli," the values for the inputs
// be sure to select a range of inputs that will fully exercise your design
   initial
   begin
       //---- Current Time: Ons
       input1 = 1'b0;
       input bus0 = 8'b00000000;
       input bus1 = 8'b11111111;
       #100; //This advances time by 100 units (ns in this case)
       // ----- Current Time: 100ns
       input1=1'b1;
       #100; // ----- Current Time: 200ns
       input1=1'b0;
       input bus0 = 8'b10000000;
       input bus1 = 8'b00000001;
       #100; // ----- Current Time: 300ns
       input1=1'b1;
       #100; // ----- Current Time: 400ns
       input1=1'b0;
       input bus0 = 8'b01010101;
       input bus1 = 8'b10101010;
       #100; // ----- Current Time: 500ns
       input1=1'b1;
   end
```

endmodule