

```
timescale 1ns / 1ps
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
// Company:
// Engineer:
//
// Create Date: 04/18/2021 04:17:22 PM
// Design Name:
// Module Name: m2_1x8
// Project Name:
// Target Devices:
// Tool Versions:
// Description:
//
// Dependencies:
//
// Revision:
// Revision 0.01 - File Created
// Additional Comments:
//
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
```

```
module m2_1x8(
    input [7:0] in0,
    input [7:0] in1,
    input sel,
    output [7:0] o
);
    assign o[0] = (~sel & in0[0]) | (sel & in1[0]);
    assign o[1] = (~sel & in0[1]) | (sel & in1[1]);
    assign o[2] = (~sel & in0[2]) | (sel & in1[2]);
    assign o[3] = (~sel & in0[3]) | (sel & in1[3]);
    assign o[4] = (~sel & in0[4]) | (sel & in1[4]);
    assign o[5] = (~sel & in0[5]) | (sel & in1[5]);
    assign o[6] = (~sel & in0[6]) | (sel & in1[6]);
    assign o[7] = (~sel & in0[7]) | (sel & in1[7]);
endmodule
```