```
`timescale 1ns / 1ps
// Company:
// Engineer:
//
// Create Date: 10/22/2020 01:27:56 AM
// Design Name:
// Module Name: MUX8 1
// Project Name:
// Target Devices:
// Tool Versions:
// Description:
//
// Dependencies:
//
// Revision:
// Revision 0.01 - File Created
// Additional Comments:
//
module MUX8 1(
  input [7:0] in,
  input [3:0] sel,
```

```
assign out = (in[0] & ~sel[2] & ~sel[1] &
~sel[0])|(in[1] & ~sel[2] & ~sel[1] &
sel[0])|(in[2] & ~sel[2] & sel[1] &
~sel[0])|(in[3] & ~sel[2] & sel[1] &
sel[0])|(in[4] & sel[2] & ~sel[1] &
~sel[0])|(in[5] & sel[2] & ~sel[1] &
sel[0])|(in[6] & sel[2] & sel[1] &
~sel[0])|(in[6] & sel[2] & sel[1] &
endmodule
```

output out