```
`timescale 1ns / 1ps
// Company:
// Engineer:
//
// Create Date: 10/22/2020 01:52:49 AM
// Design Name:
// Module Name: MUX2 1x8
// Project Name:
// Target Devices:
// Tool Versions:
// Description:
//
// Dependencies:
//
// Revision:
// Revision 0.01 - File Created
// Additional Comments:
//
module MUX2 1x8(
  input [7:0] in0,
  input [7:0] in1,
```

```
input sel,
  output [7:0] out
);

assign out = (in0 & {8{~sel}})|(in1[7:0] &
{8{sel}});
```