```
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7
       modul e Scounter(
            input clk,
output reg f
            reg [2:0] q;
            al ways @(posedge clk) begin if ((q == 3)) begin f <= 1;
 8
10
                 . <= 1;
q <= 0;
end
11
12
13
                 el se begin
14
                      q <= q+1;

f <= 0;
15
                 end
16
17
            end
18
19
20
21
        endmodul e
```