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/*****************************
* Module: seven segment
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* Description: Uses two nor games to determine the outputs of q and qbar.
The gates are crossed and wired together
`default_nettype none
module latch(input wire logic r,
          input wire logic s,
          output wire logic q, // This output must have the 'wire' specifier
          output wire logic qbar // This output must have the 'wire' specifier
        );
       // nor(q, r, qbar);
       // nor(qbar, s, q);
       assign \#3ns q = \sim (r \mid qbar);
       assign \#3ns qbar = (s | q);
```

endmodule

`timescale 1ns / 1ps