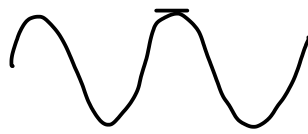


$$V = IR$$

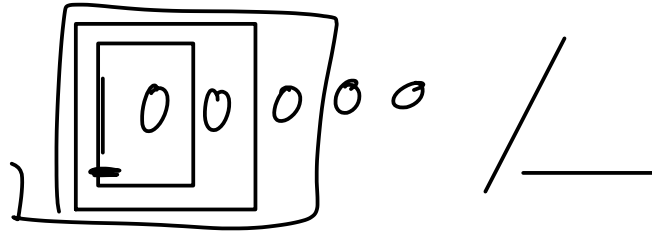
$$V = IZ$$

↑ ↑ ↑

$$\frac{V^2}{R}$$



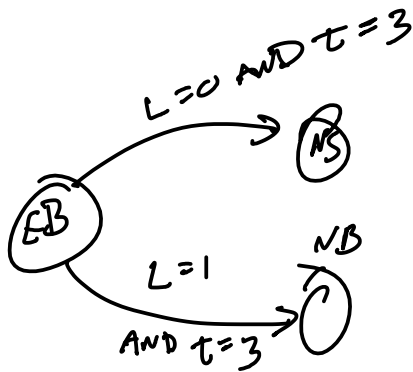
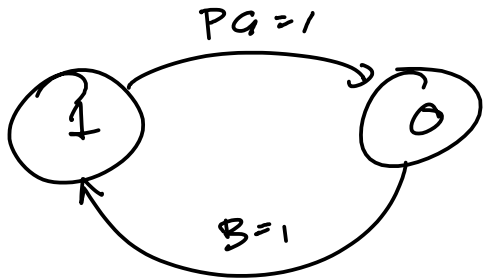
ω

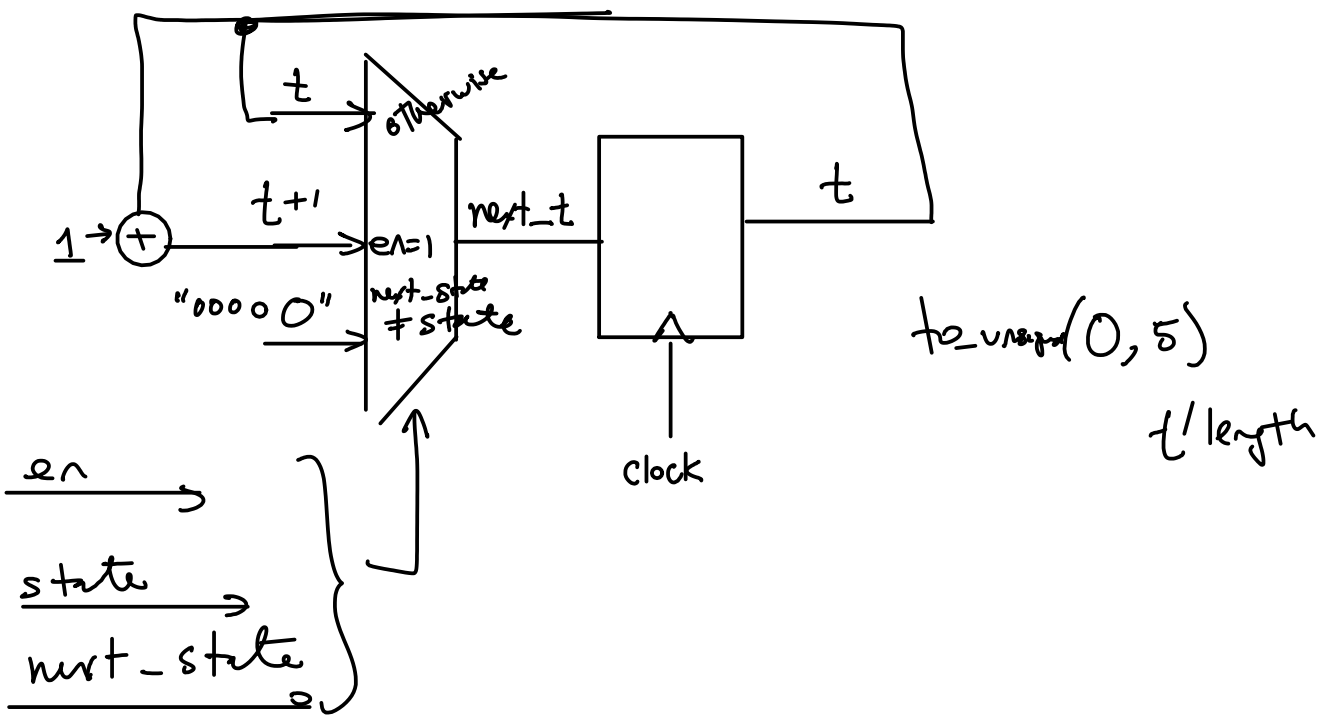


1 1 0 1 1 0 ← VALUE
AND 1 0 1 1 0 0 ← MASK

1 0 0 1 0 0

/16 → |||| |||| |||| |||| 0000 0000 0000 0000
255 . 255 . 0 . 0





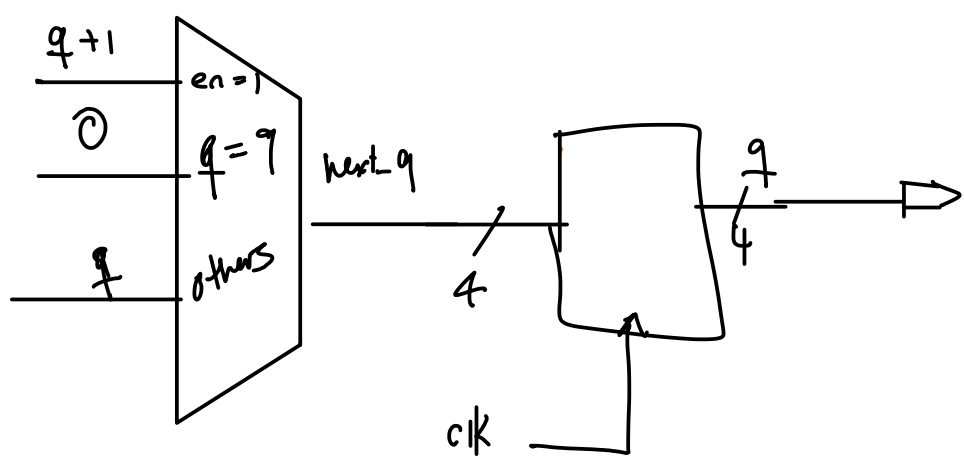
```

d <= next_q when enable = '1' else q ;
process(clk)
begin
  if clk'event and clk = '1' then
    q <= d ;
  end if ;
end process ;

```

The logic generated is:

$t \leftarrow next_t$
 $w \leftarrow next_w$
 $state \leftarrow next_state$



next = q <= 0 when q >= 9 else
q+1 when en=1 else
q ;

q <= next - q ;

