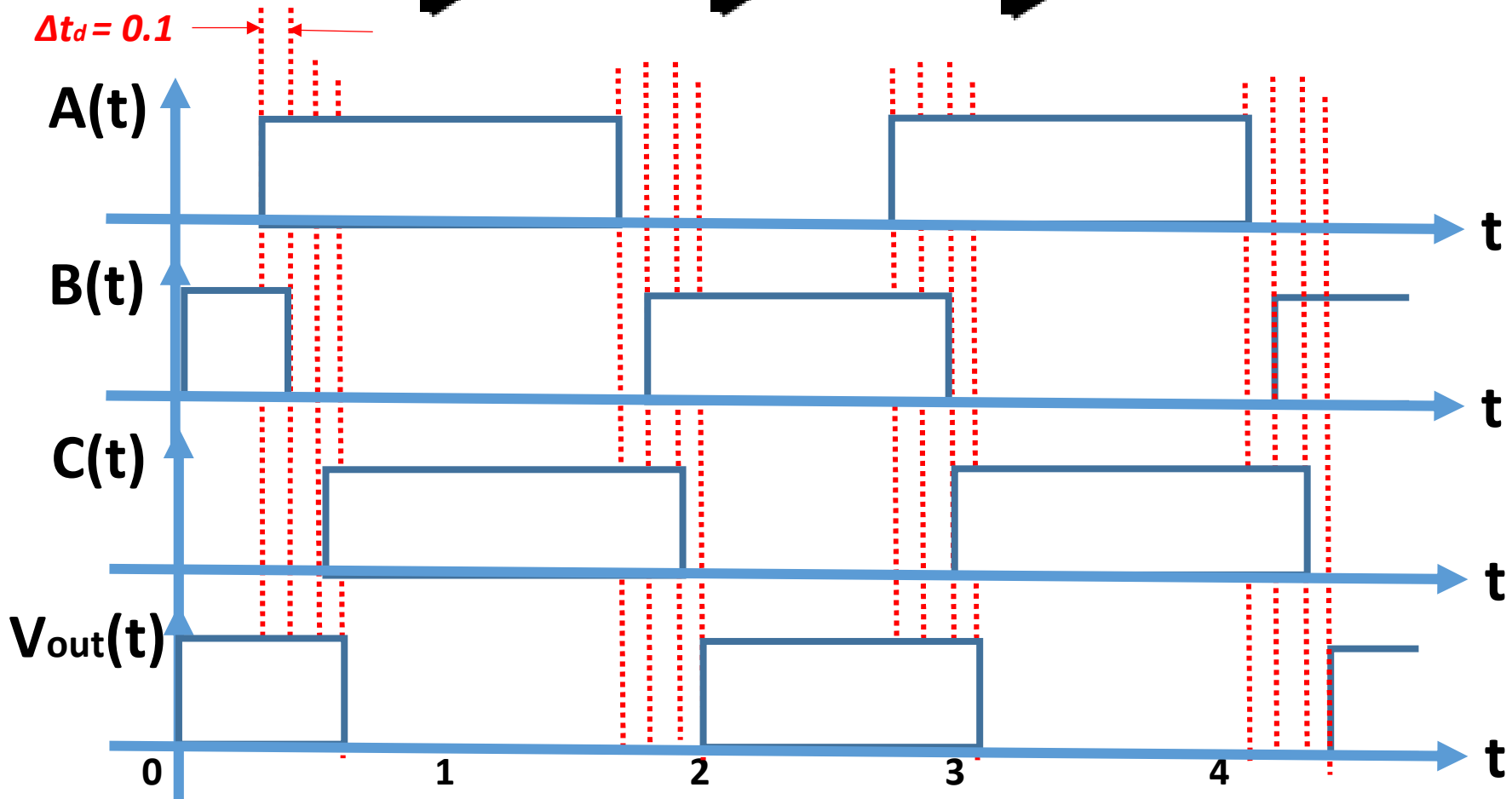
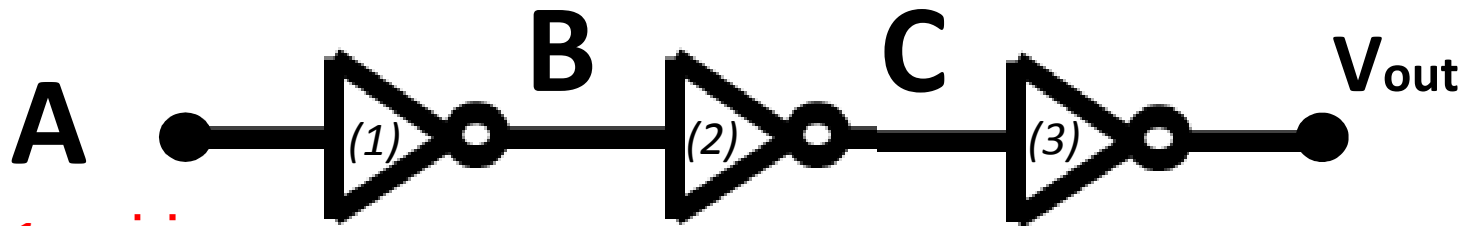


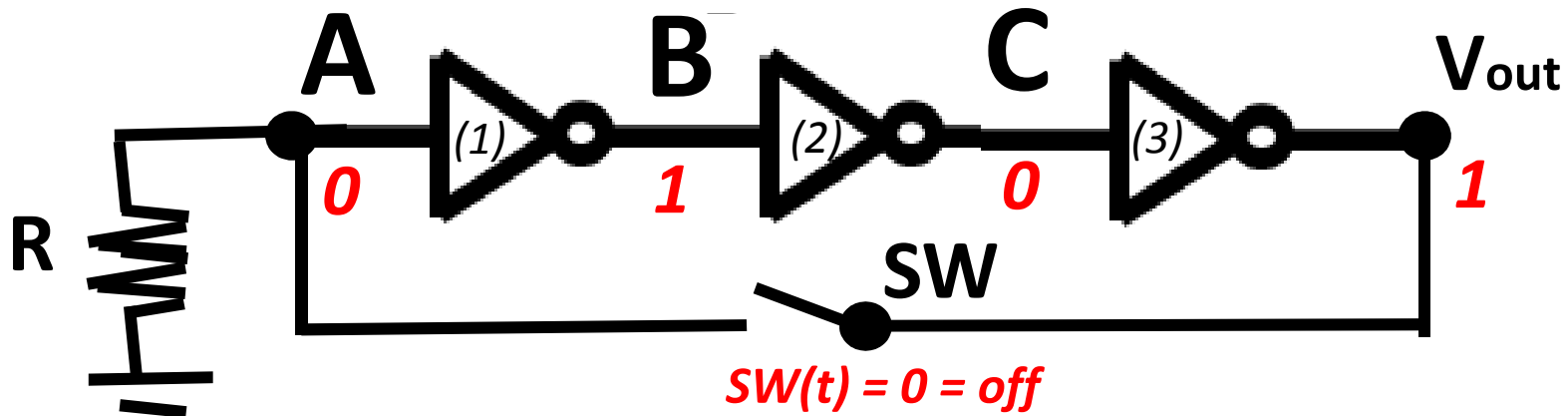
# inverter回路を3個使った遅延回路



( inverter回路1個の遅延時間を  $\Delta t_d = 0.1$  とした場合 )

# inverter回路を3個使った発振回路の動作説明

$t = 10000.0$

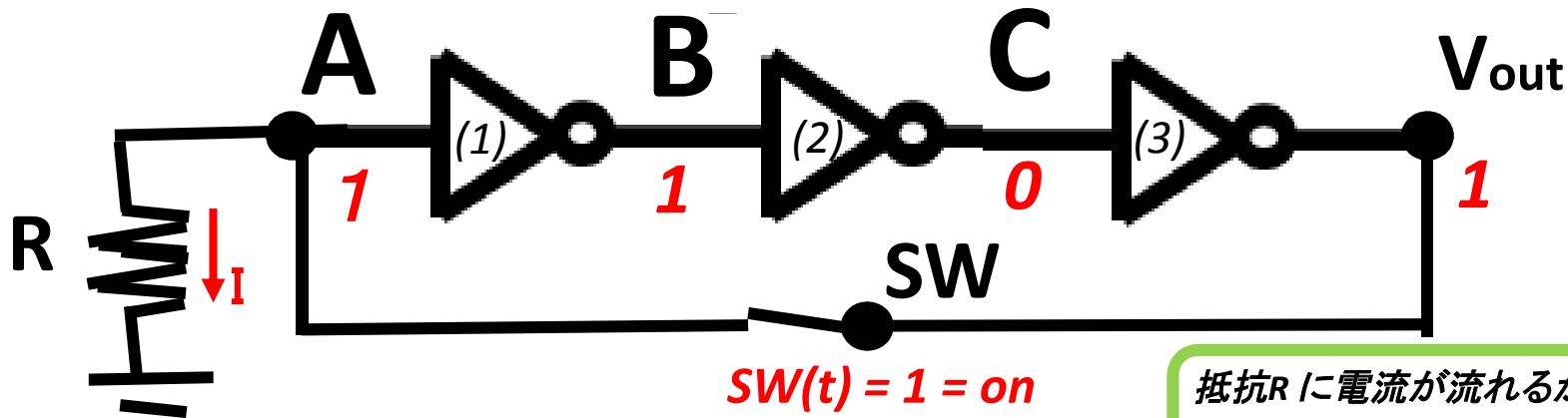


Inverter3回路 INV3( )の DCDL Code

```
define INV3( ) { input SW ; output Vout ; memory VVout ;  
  
    [VVout] --->[Vout];  
  
    if(SW=1) [Vout] --->[A]; if(SW=0) 0 --->[A];  
  
    [A]inv(1) --->[B]; [B]inv(2) --->[C]; [C]inv(3) --->[VVout]; }
```

# inverter回路を3個使った発振回路の動作説明

$t = 10000.0$



抵抗Rに電流が流れるが  
瞬時に A=Vout=1 となる。

Inverter3回路 INV3( )の DCDL Code

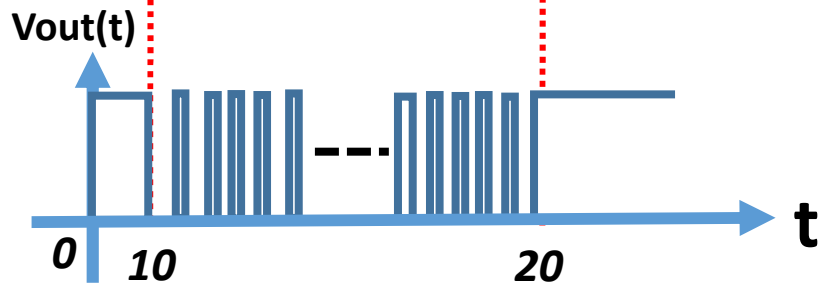
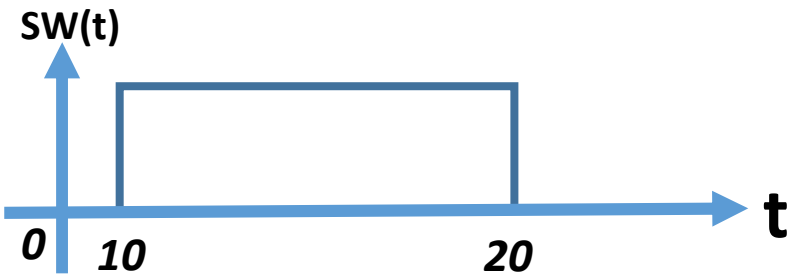
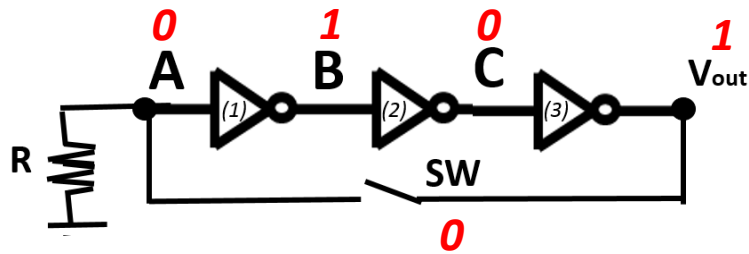
```
define INV3( ) { input SW ; output Vout ; memory VVout ;
```

```
    [VVout] --->[Vout];
```

```
    if(SW=1) [Vout] --->[A]; if(SW=0) 0 --->[A];
```

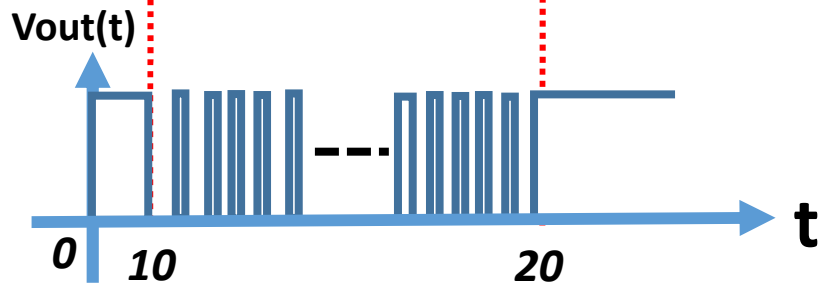
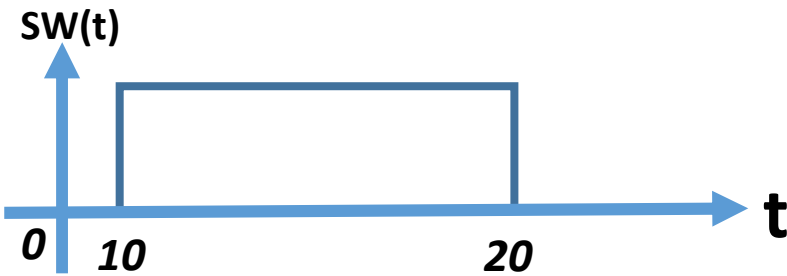
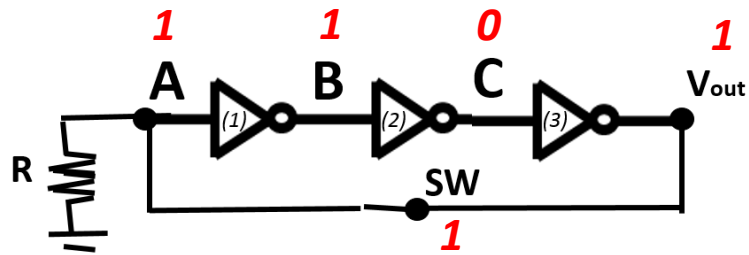
```
    [A]inv(1) --->[B]; [B]inv(2) --->[C]; [C]inv(3) --->[VVout]; }
```

$t = 10000.0$



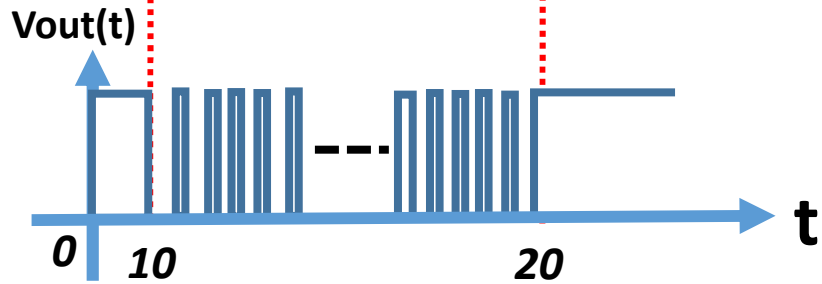
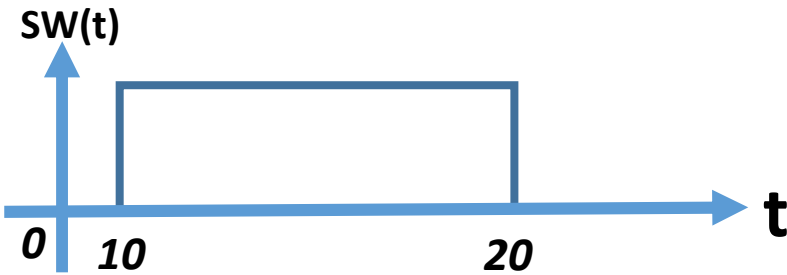
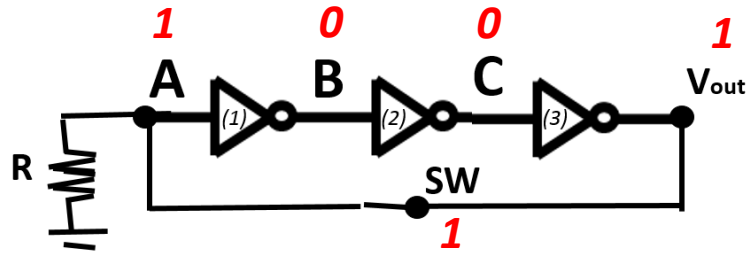
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10010.0$



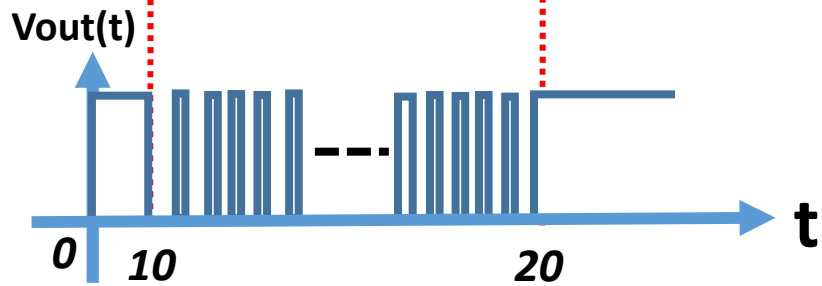
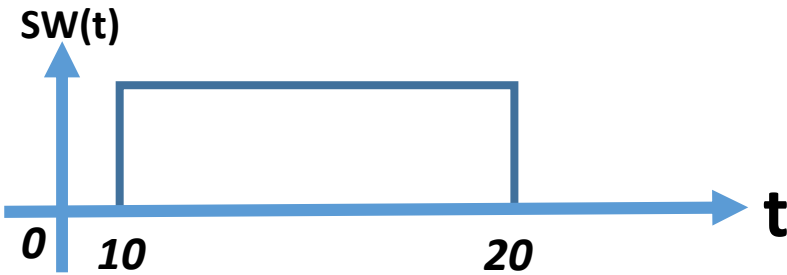
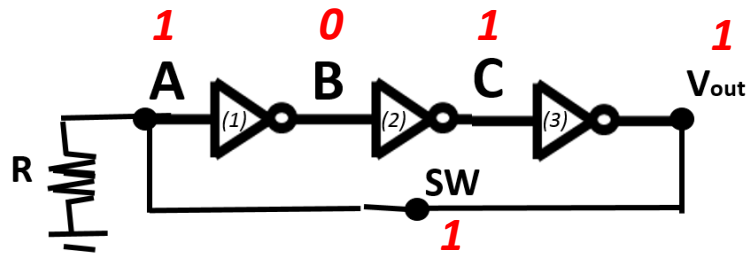
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10010.1$



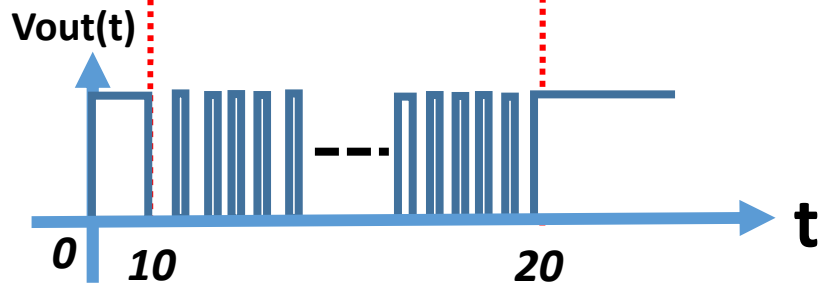
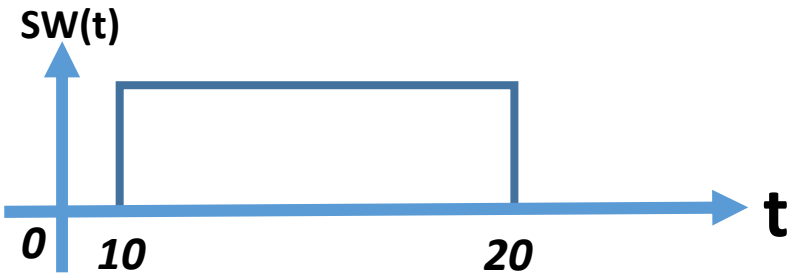
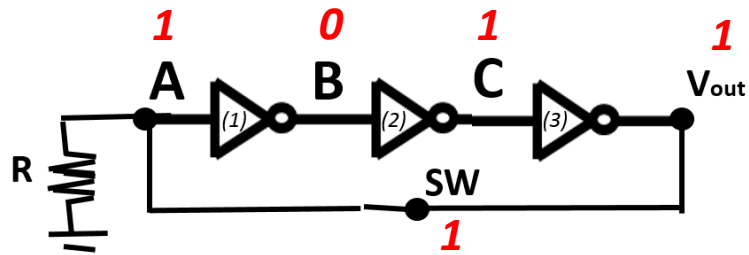
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10010.2$



t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

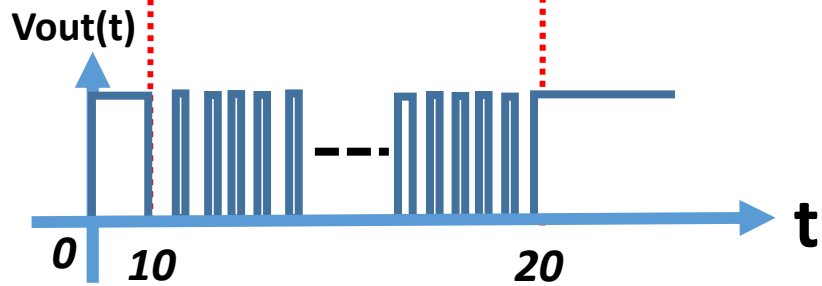
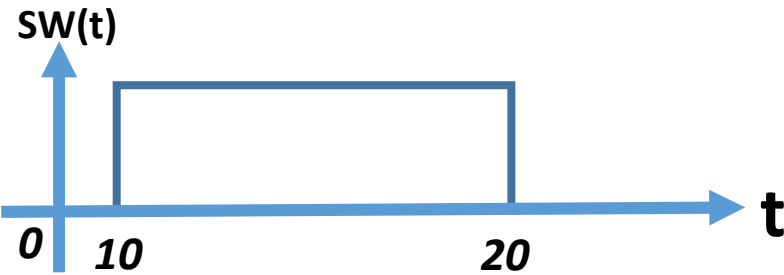
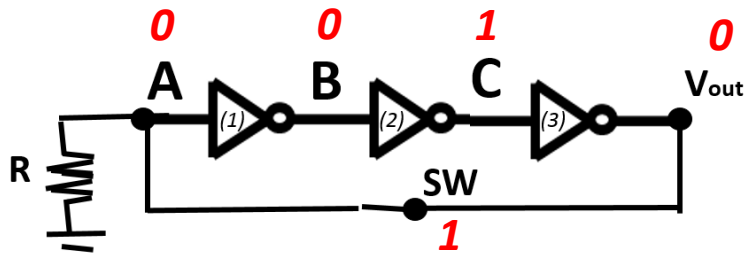
$t = 10010.3$



t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

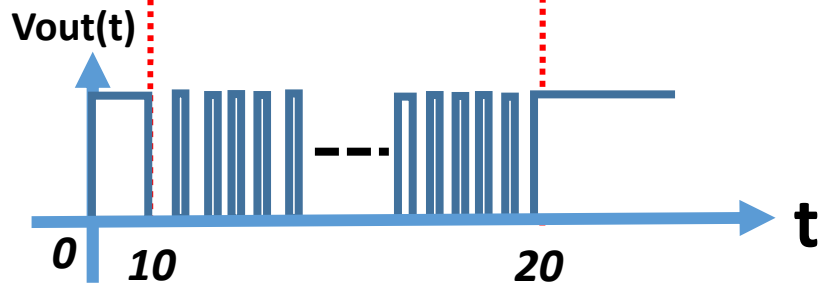
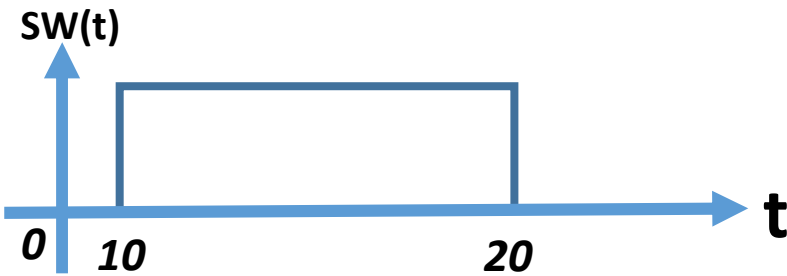
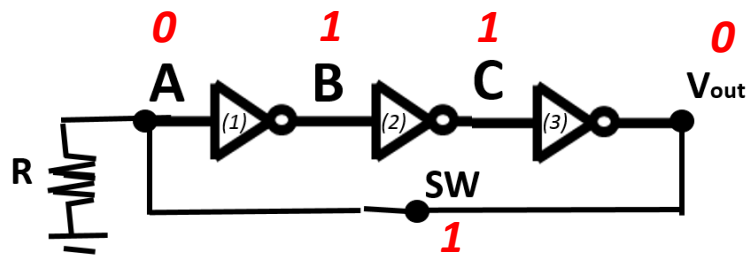


$t = 10010.4$



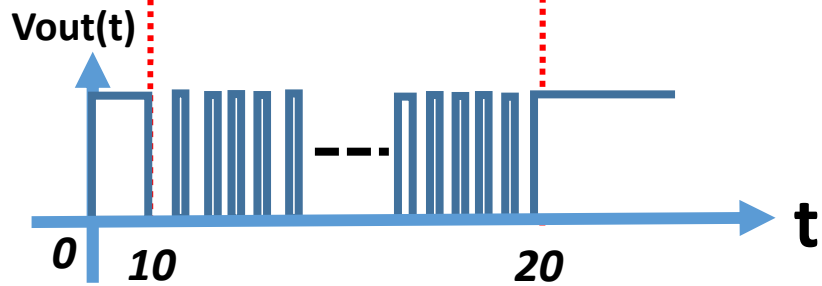
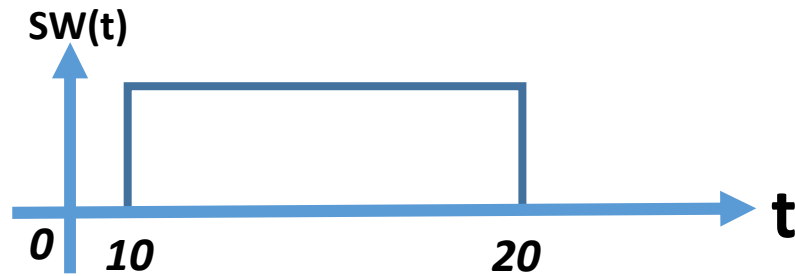
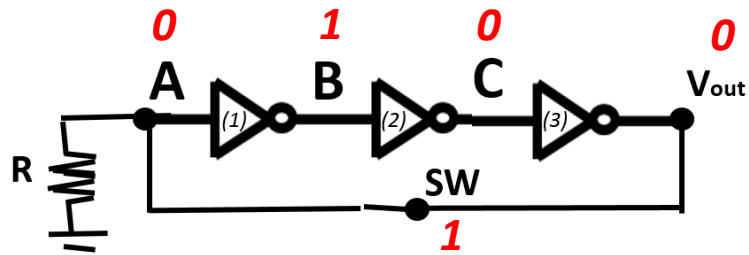
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10010.5$



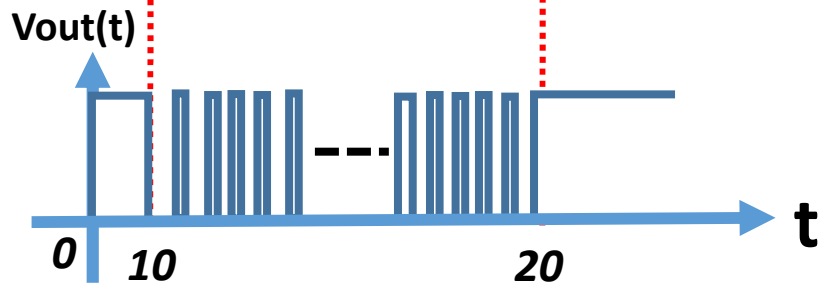
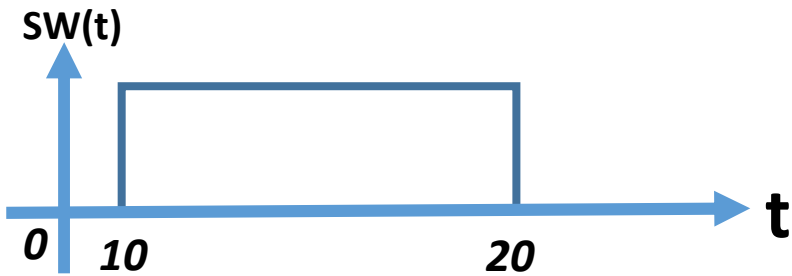
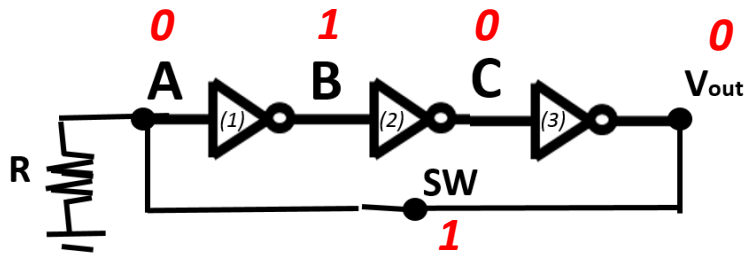
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10010.6$



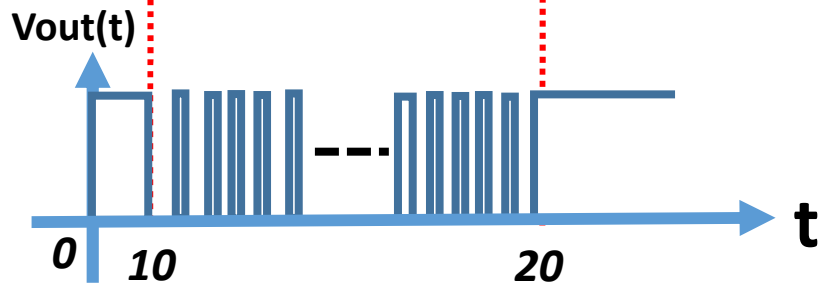
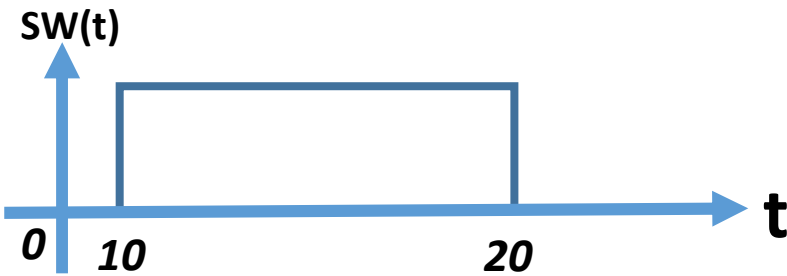
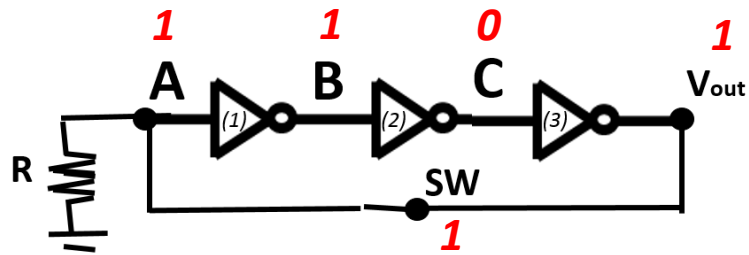
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10010.7$



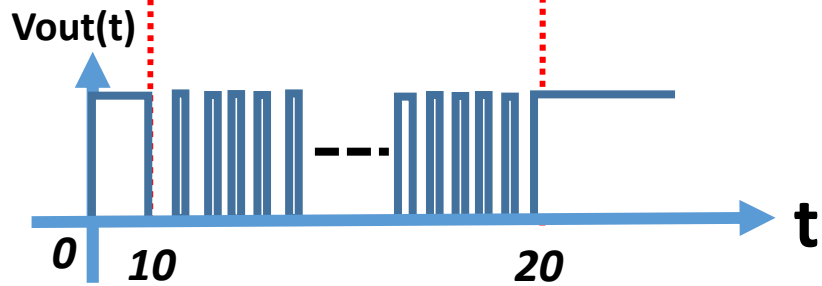
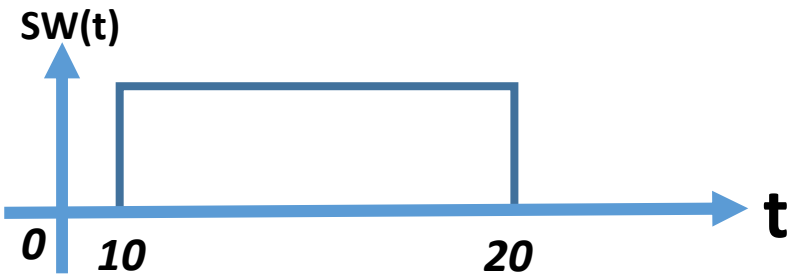
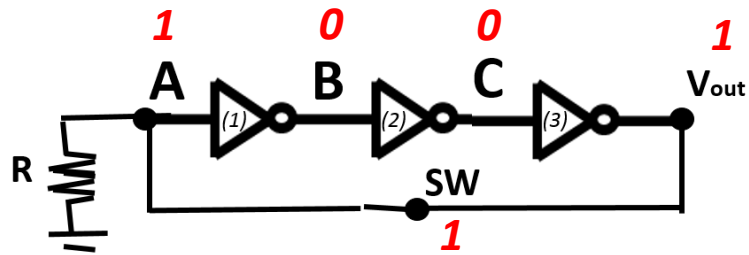
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10010.8$



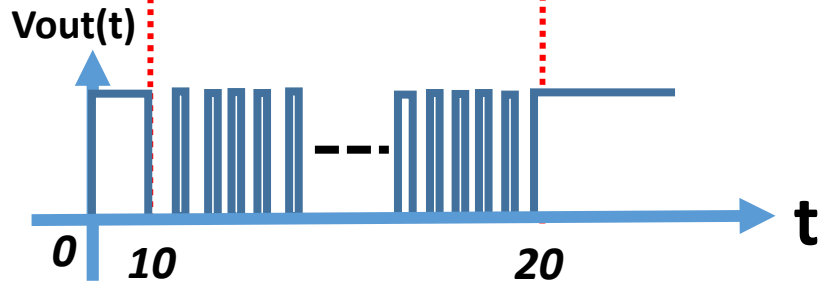
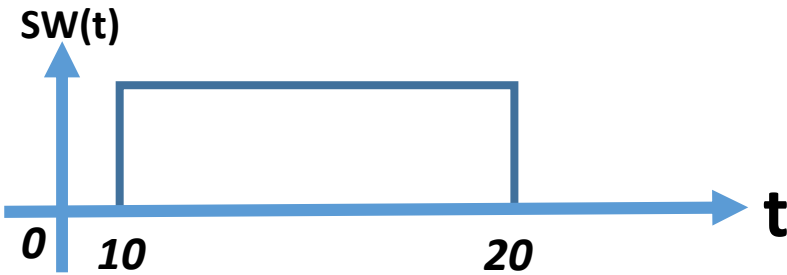
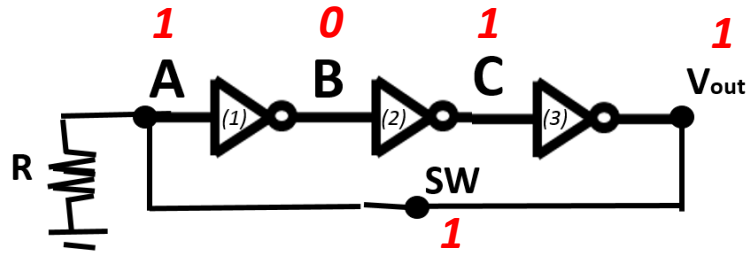
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10010.9$



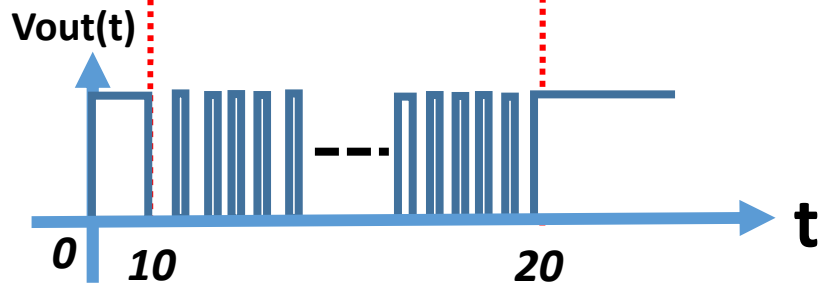
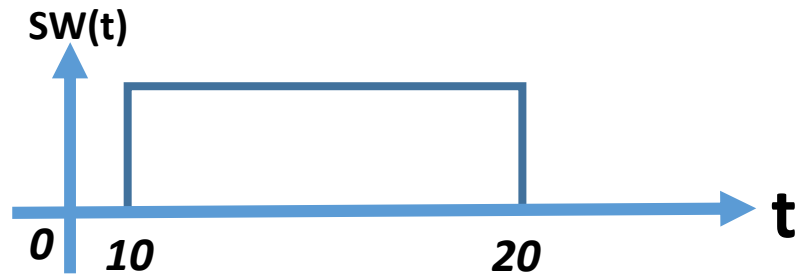
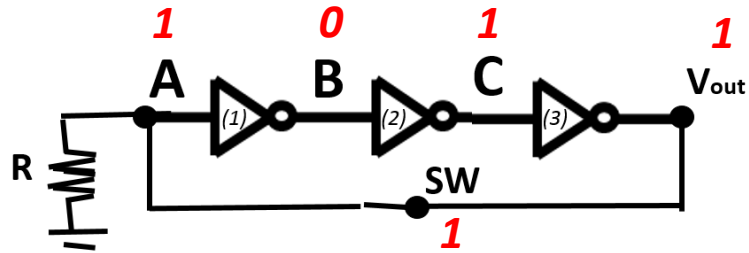
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10011.0$



t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

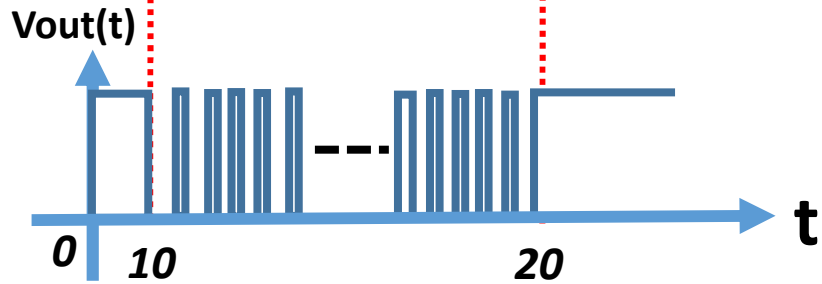
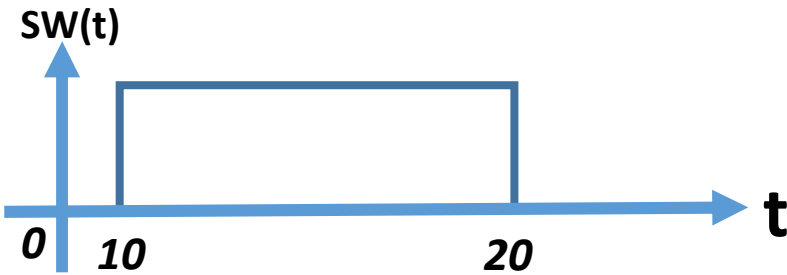
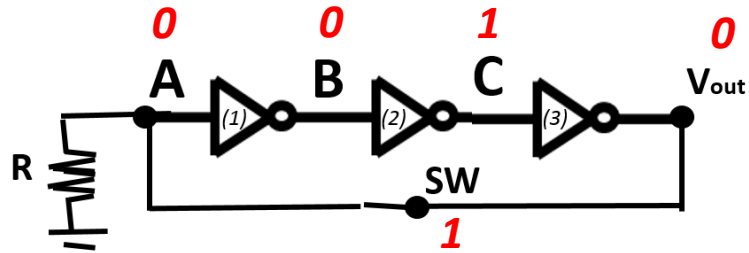
*t = 10011.1*



t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

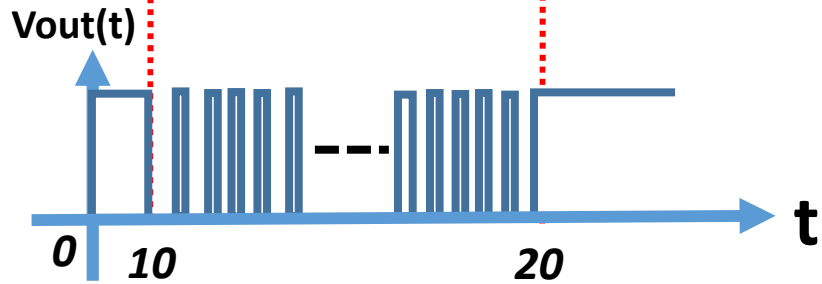
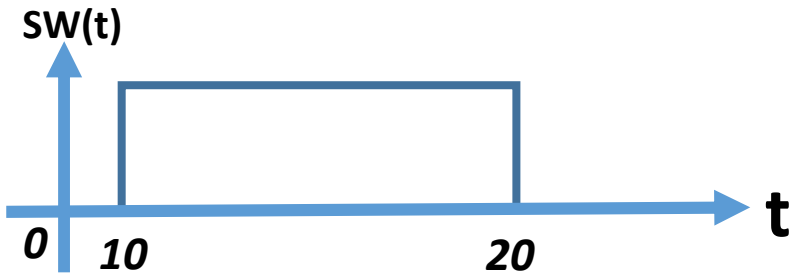
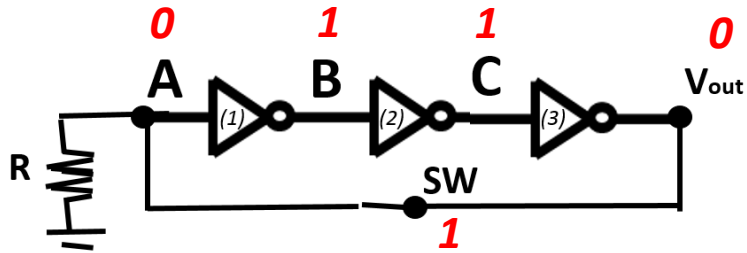


$t = 10011.2$



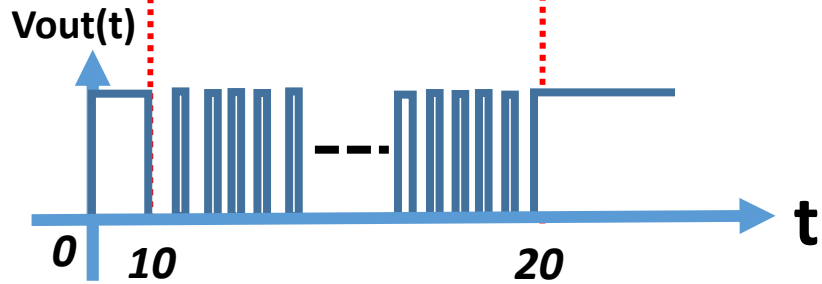
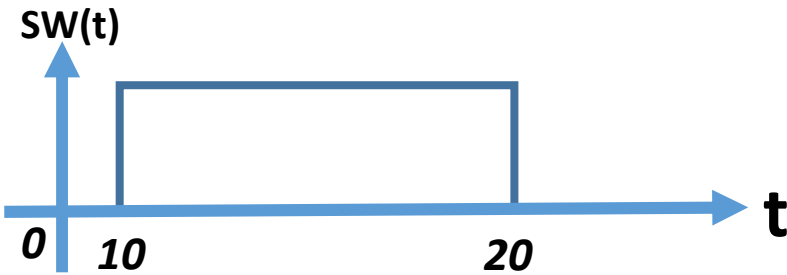
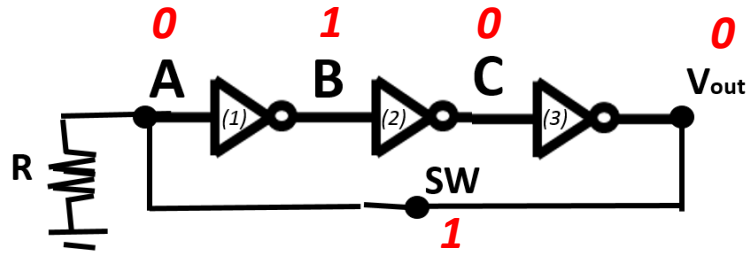
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10011.3$



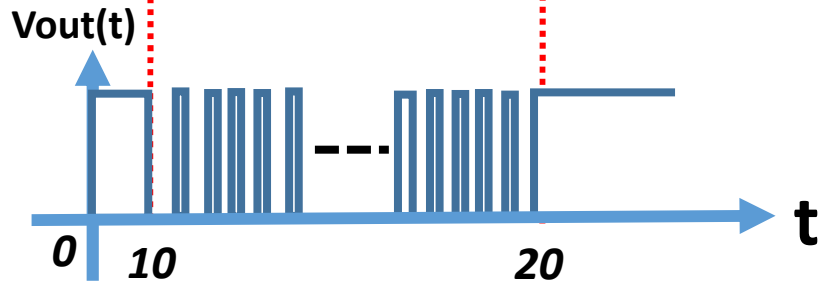
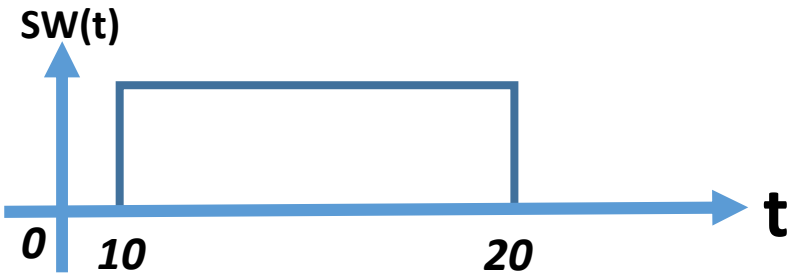
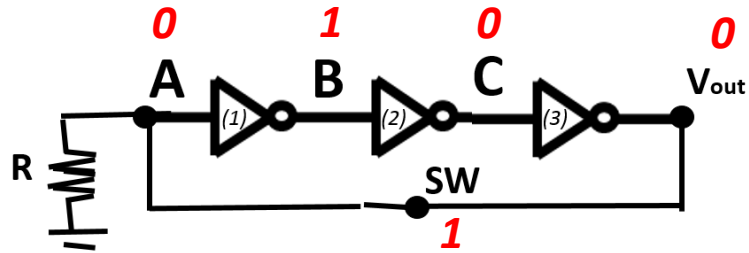
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10011.4$



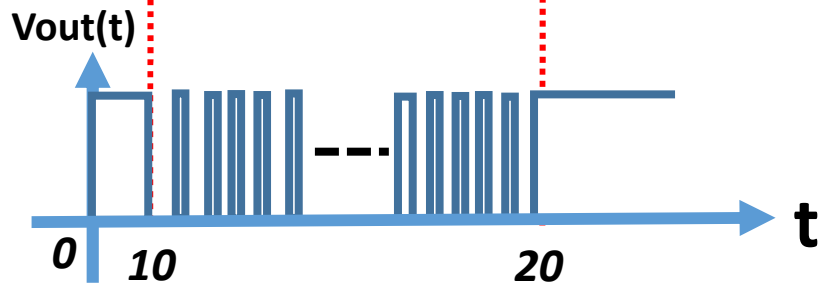
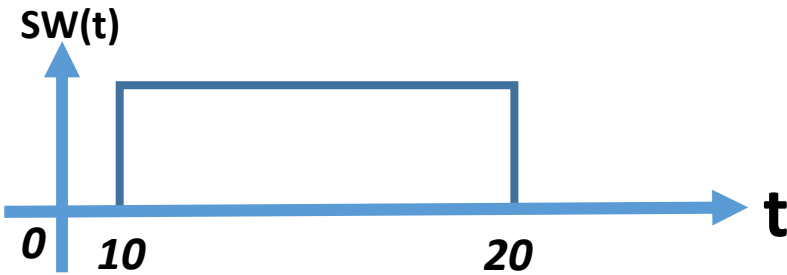
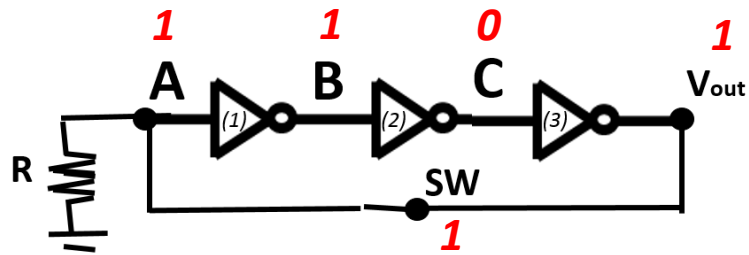
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10011.5$



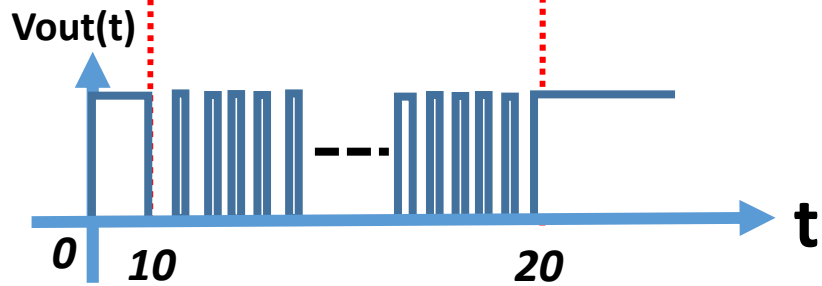
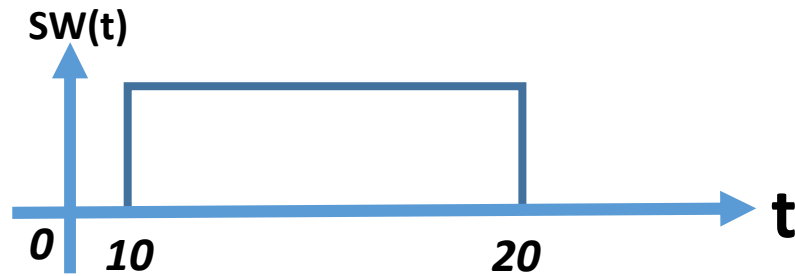
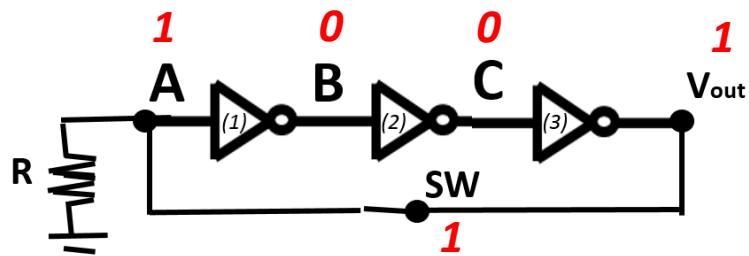
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10011.6$



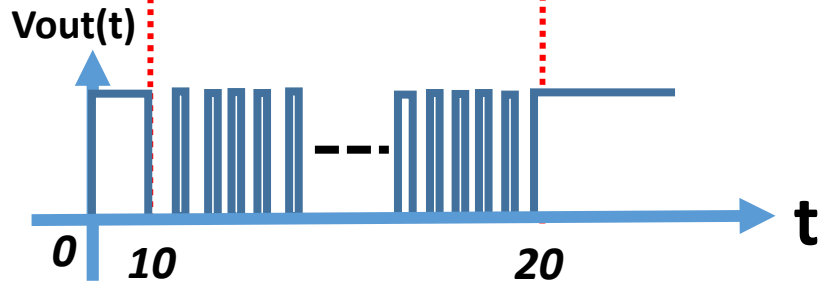
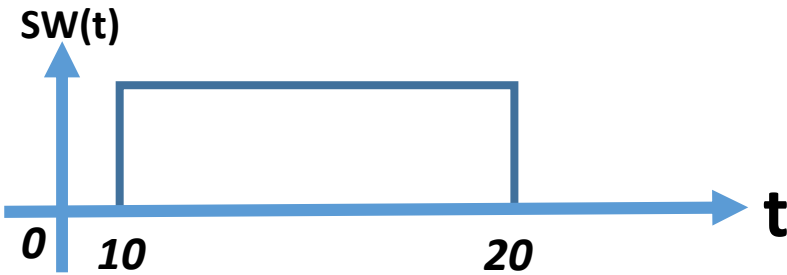
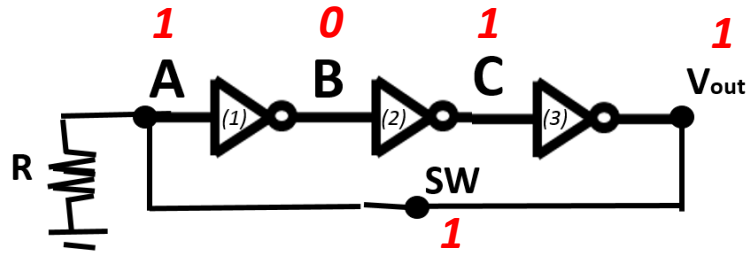
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10011.7$



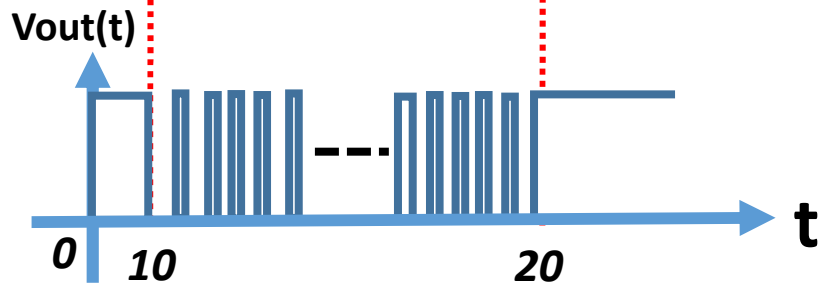
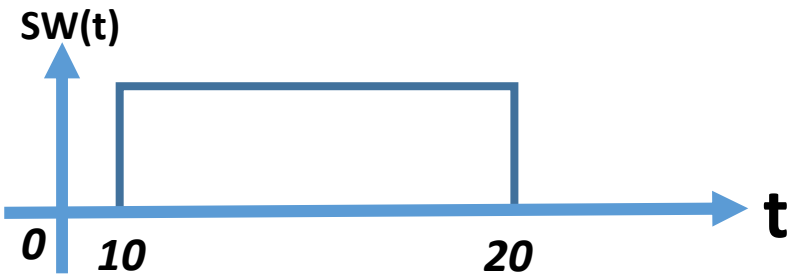
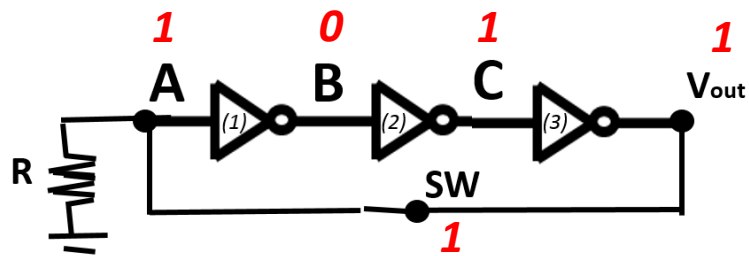
t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10011.8$



t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

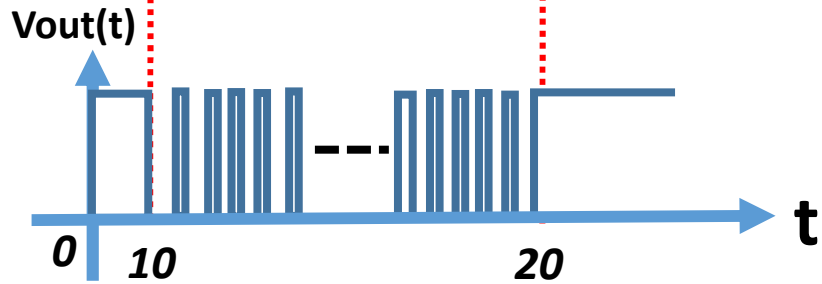
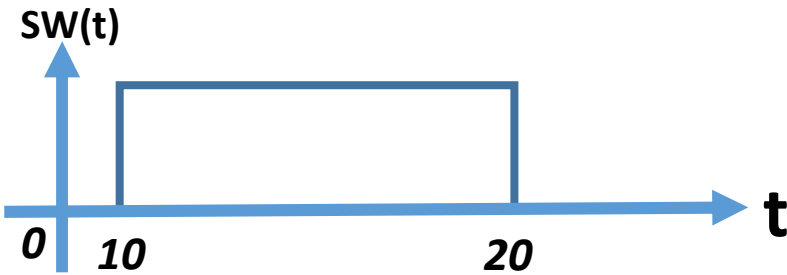
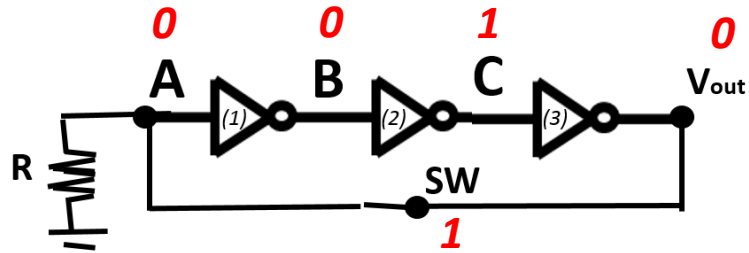
$t = 10011.9$



t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

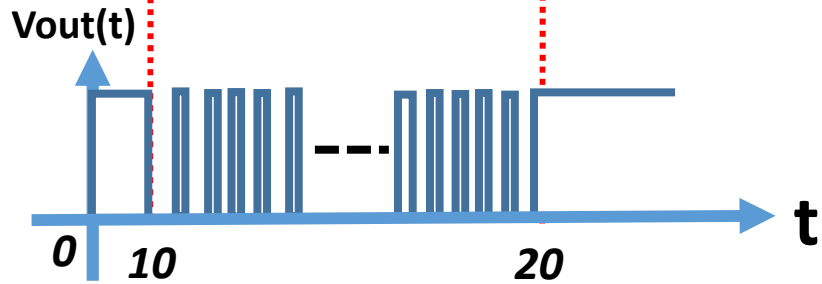
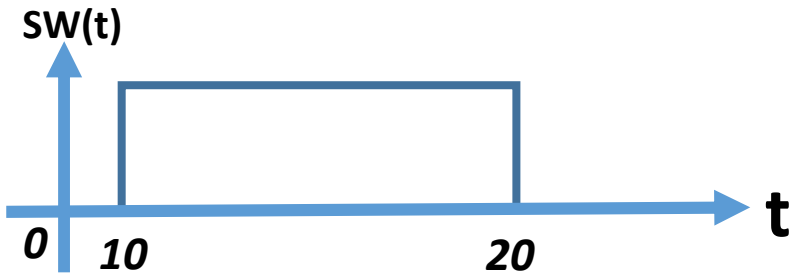
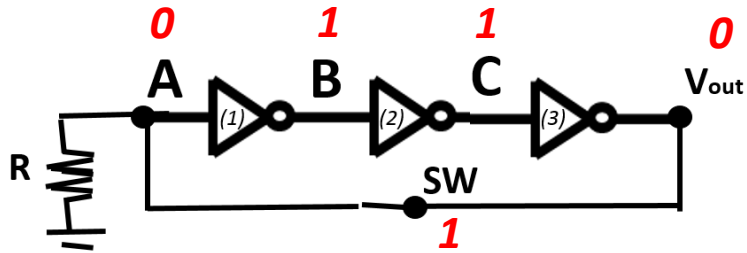


*t = 10012.0*



t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	1
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10012.1$

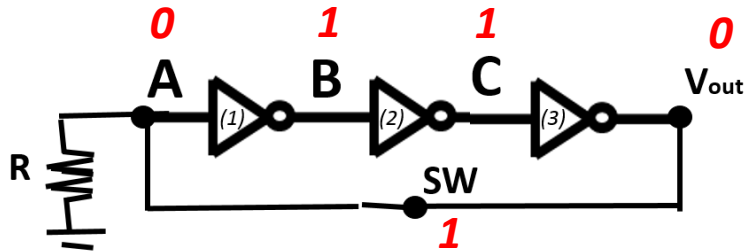


t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	0
10011.1	1	1	1	0	1	1	0
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	0
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

Pulse(1)

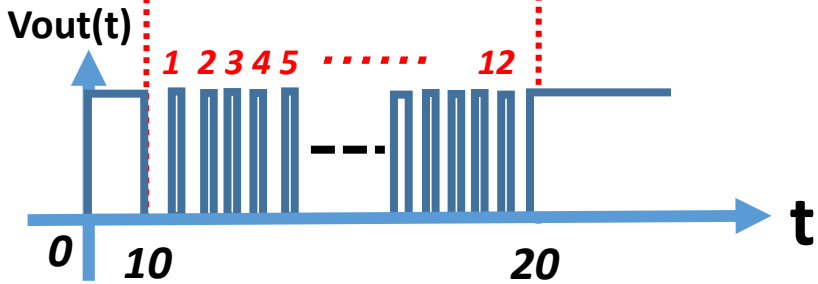
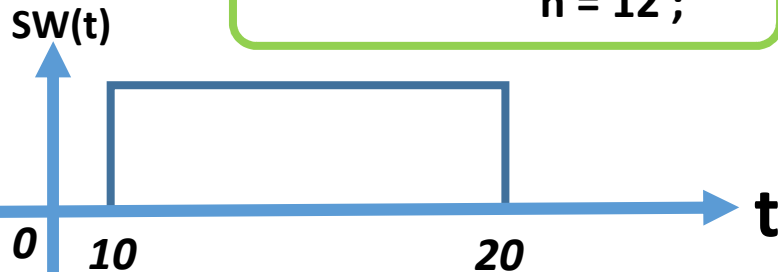
Pulse(2)

$t = 10012.1$



$$10.8 + 0.8 (n-1) = 19.6;$$

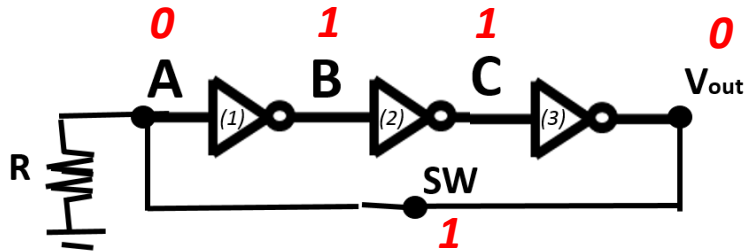
$$n = 12;$$



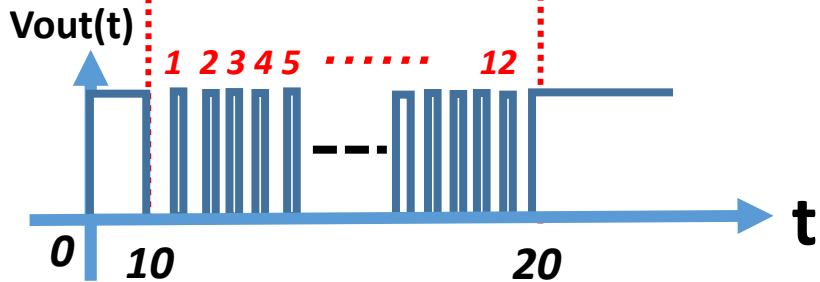
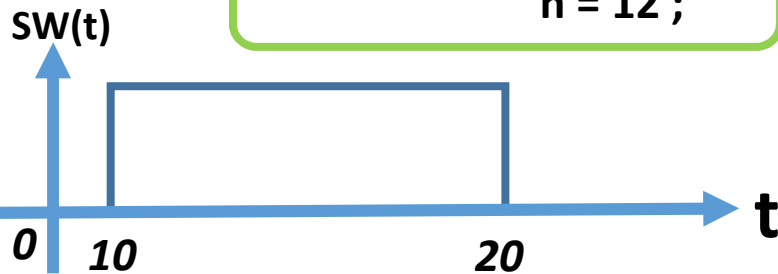
$\Delta t = 10$  の時間区間に  $V_{out}(t)$  に  
周期  $T = 0.8$  のパルスが12個出る！

t	CK	SW	A	B	C	Vout	Wout
10000.0	0	0	0	1	0	1	1
10001.0	1	0	0	1	0	1	1
10001.3	0	0	0	1	0	1	1
10003.0	1	0	0	1	0	1	1
10003.3	0	0	0	1	0	1	1
10005.0	1	0	0	1	0	1	1
10005.3	0	0	0	1	0	1	1
10007.0	1	0	0	1	0	1	1
10007.3	0	0	0	1	0	1	1
10009.0	1	0	0	1	0	1	1
10009.3	0	0	0	1	0	1	1
10010.0	0	1	1	1	0	1	1
10010.1	0	1	1	0	0	1	1
10010.2	0	1	1	0	1	1	1
10010.3	0	1	1	0	1	1	0
10010.4	0	1	0	0	1	0	0
10010.5	0	1	0	1	1	0	0
10010.6	0	1	0	1	0	0	0
10010.7	0	1	0	1	0	0	1
10010.8	0	1	1	1	0	1	1
10010.9	0	1	1	0	0	1	1
10011.0	1	1	1	0	1	1	Pulse(1)
10011.1	1	1	1	0	1	1	1
10011.2	1	1	0	0	1	0	0
10011.3	0	1	0	1	1	0	0
10011.4	0	1	0	1	0	0	0
10011.5	0	1	0	1	0	0	1
10011.6	0	1	1	1	0	1	1
10011.7	0	1	1	0	0	1	1
10011.8	0	1	1	0	1	1	1
10011.9	0	1	1	0	1	1	0
10012.0	0	1	0	0	1	0	0
10012.1	0	1	0	1	1	0	0

$t = 10012.1$



$$10.8 + 0.8 (n-1) = 19.6; \\ n = 12;$$



$\Delta t = 10$  の時間区間に  $V_{out}(t)$  に  
周期  $T = 0.8$  のパルスが12個出る。

t	CK	SW	A	B	C	Vout	Wout
10017.1	1	1	0	1	0	0	1
10017.2	1	1	1	1	0	1	1
10017.3	0	1	1	0	0	1	1
10017.4	0	1	1	0	1	1	1
10017.5	0	1	1	0	1	1	0
10017.6	0	1	0	0	1	0	0
10017.7	0	1	0	1	1	0	0
10017.8	0	1	0	1	0	0	0
10017.9	0	1	0	1	0	0	1
10018.0	0	1	1	1	0	1	1
10018.1	0	1	1	0	0	1	1
10018.2	0	1	1	0	1	1	1
10018.3	0	1	1	0	1	1	0
10018.4	0	1	0	0	1	0	0
10018.5	0	1	0	1	1	0	0
10018.6	0	1	0	1	0	0	0
10018.7	0	1	0	1	0	0	1
10018.8	0	1	1	1	0	1	1
10018.9	0	1	1	0	0	1	1
10019.0	1	1	1	0	1	1	1
10019.1	1	1	1	0	1	1	0
10019.2	1	1	0	0	1	0	0
10019.3	0	1	0	1	1	0	0
10019.4	0	1	0	1	0	0	0
10019.5	0	1	0	1	0	0	1
10019.6	0	1	1	1	0	1	1
10019.7	0	1	1	0	0	1	1
10019.8	0	1	1	0	1	1	1
10019.9	0	1	1	0	1	1	0
10020.0	0	0	0	0	1	0	0
10020.1	0	0	0	1	1	0	0
10020.2	0	0	0	1	0	0	0
10020.3	0	0	0	1	0	0	1
10020.4	0	0	0	1	0	1	1