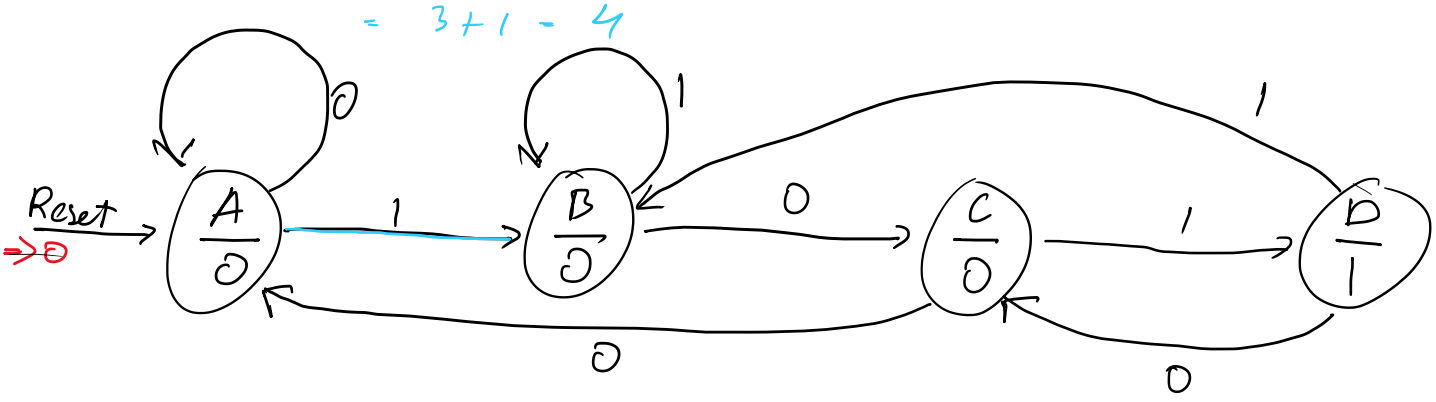
1101101095 → 0101

Moore

Jumlah state = jumlah bit + 1

= 3 + 1 = 4



A → _

B → 1_

C → 10_

D → 101 ✓ → Z = 1

Tabel moore

PS	NS x=0	NS x=1	Z
A	A	B	0
B	C	B	0
C	A	D	0
D	C	B	1

x → input

PS	NS x=0	NS x=1	Z
A = 00	00	01	0
B = 01	11	01	0
C = 11	00	10	0
D = 10	11	01	1

Tabel transisi JK-FF

$Q_t \rightarrow Q_{t+1}$	J	K
0 → 0	0	X
0 → 1	1	X
1 → 0	X	1
1 → 1	X	0

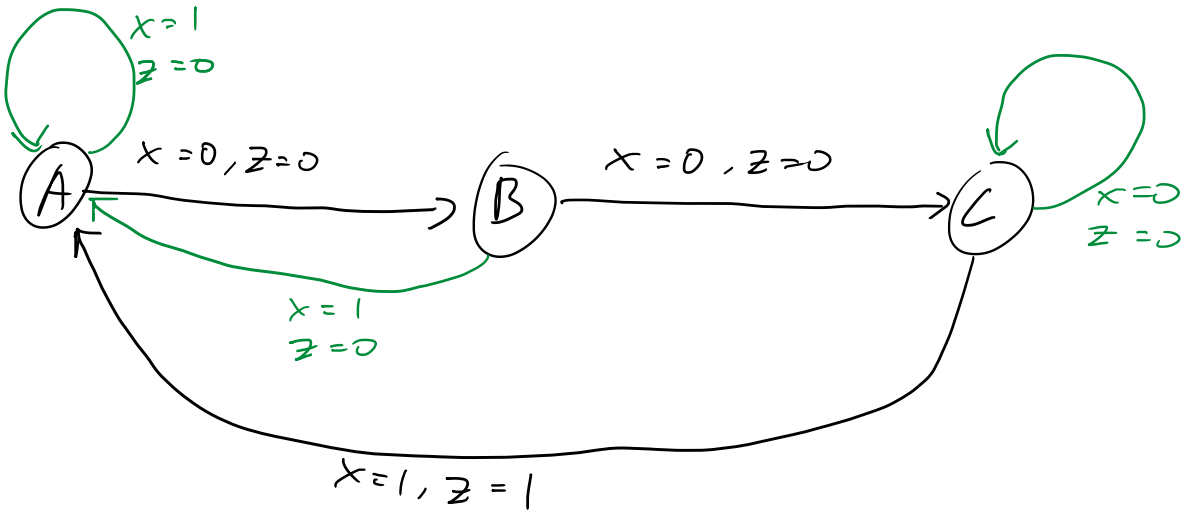
Tabel eksitasi

PS		NS				JK-FF								Z
		x=0		x=1		x=0				x=1				
						Q_1		Q_2		Q_1		Q_2		
Q1	Q2	Q_1	Q_2	Q_1	Q_2	J	K	J	K	J	K	J	K	
0	0	0	0	0	1	0	x	0	x	0	x	1	x	0
0	1	1	1	0	1	1	x	x	0	0	x	x	0	0
1	1	0	0	1	0	x	1	x	1	x	0	x	1	0
1	0	1	1	0	1	x	0	1	x	x	1	1	x	1

Mealy

1 → 0001

Jumlah state = jumlah bit



Tabel state

PS	NS		Z	
	x=0	x=1	x=0	x=1
A	B	A	0	0
B	C	A	0	0
C	C	A	0	1

=>

PS	NS		Z	
	x=0	x=1	x=0	x=1
00	01	00	0	0
01	11	00	0	0
11	11	00	0	1

Tabel transisi D-FF

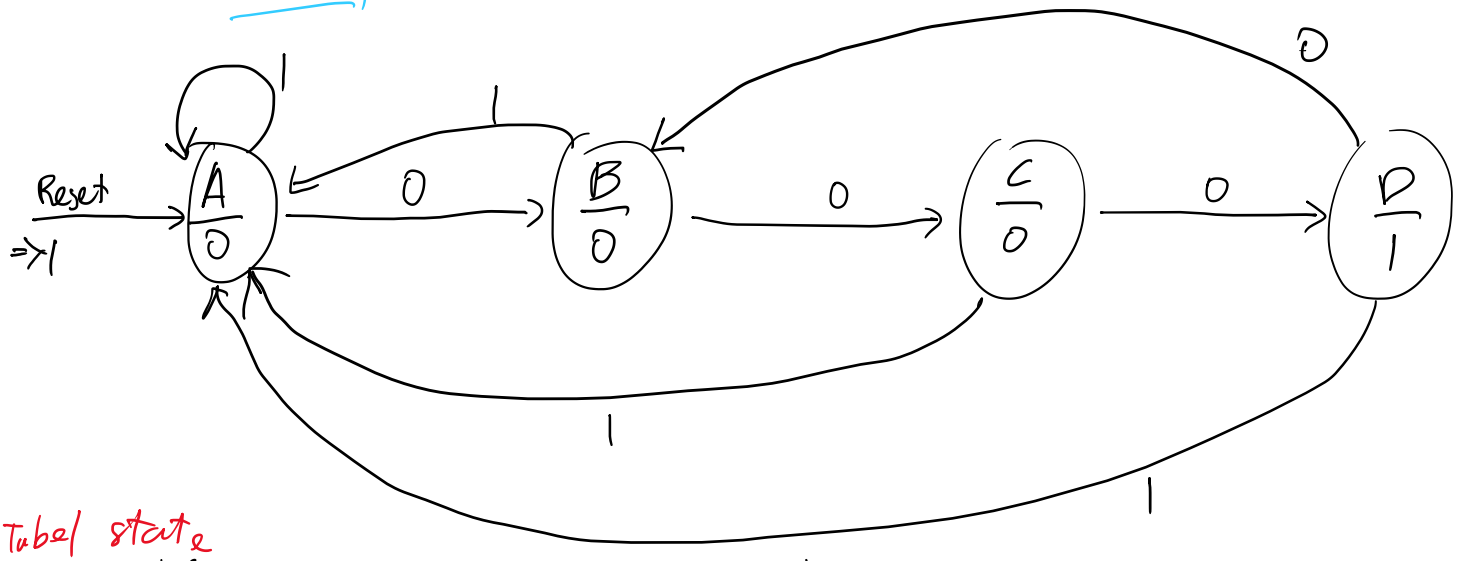
$Q_t \rightarrow Q_{t+1}$	D
0 → 0	0
0 → 1	1
1 → 0	0
1 → 1	1

Tabel eksitasi

PS		NS				D				Z	
		x=0		x=1		x=0		x=1			
Q_1	Q_2	Q_1	Q_2	Q_1	Q_2	Q_1	Q_2	Q_1	Q_2	x=0	x=1
0	0	0	1	0	0	0	1	0	0	0	0
0	1	1	1	0	0	1	1	0	0	0	0
1	1	1	1	0	0	1	1	0	0	0	1

Moore

0 → 0000



Tabel state

PS	NS x=0	NS x=1	Z
A	B	A	0
B	C	A	0
C	D	A	0
D	B	A	1

→

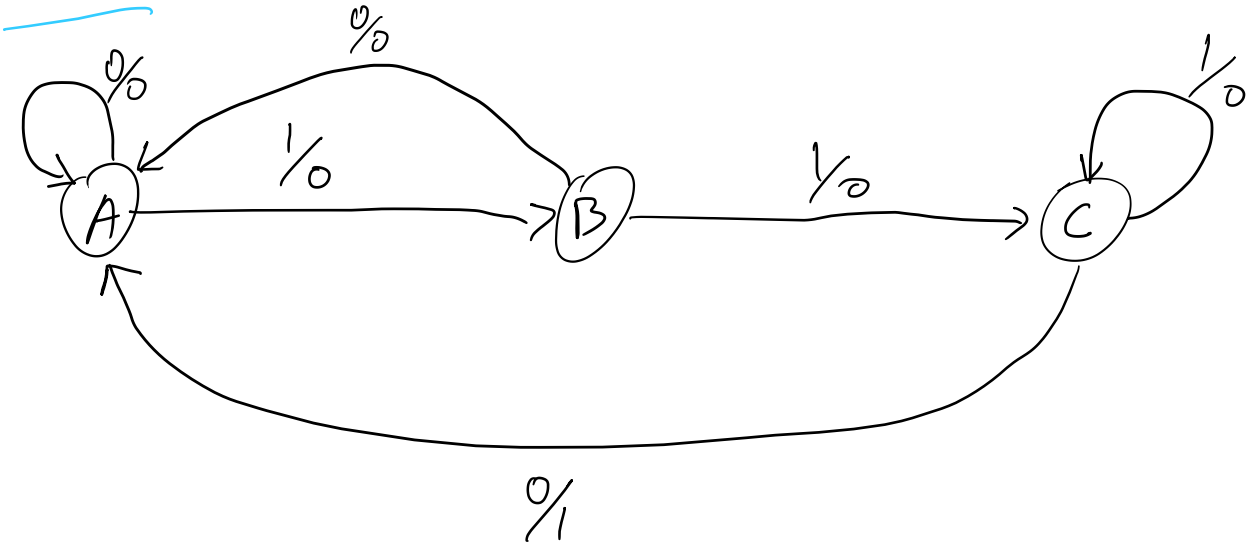
PS	NS x=0	NS x=1	Z
00	01	00	0
01	11	00	0
11	10	00	0
10	01	00	1

Tabel eksitasi

PS		NS				D				Z
		x=0		x=1		x=0		x=1		
Q_1	Q_2	Q_1	Q_2	Q_1	Q_2	D_1	D_2	D_1	D_2	
0	0	0	1	0	0	0	1	0	0	0
0	1	1	1	0	0	1	1	0	0	0
1	1	1	0	0	0	1	0	0	0	0
1	0	0	1	0	0	0	1	0	0	1

Mealy

6 → 0 1 1 0



Tabel state

PS	NS		Z	
	x=0	x=1	x=0	x=1
A	A	B	0	0
B	A	C	0	0
C	A	C	1	0

PS	NS		Z	
	x=0	x=1	x=0	x=1
00	00	01	0	0
01	00	11	0	0
11	00	11	1	0

Tabel Eksitasi

PS		NS				JK								Z	
		x=0		x=1		x=0				x=1					
Q_1	Q_2	Q_1	Q_2	Q_1	Q_2	J_1	K_1	J_2	K_2	J_1	K_1	J_2	K_2	x=0	x=1
0	0	0	0	0	1	0	0	0	X	0	X	1	X	0	0
0	1	0	0	1	1	0	X	X	1	1	X	X	0	0	0
1	1	0	0	1	1	X	1	X	1	X	0	X	0	1	0