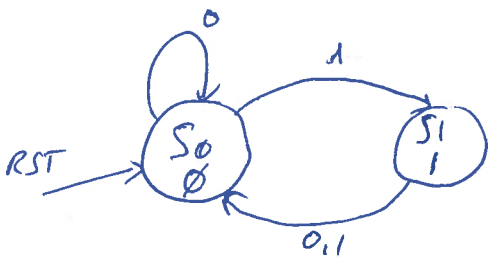


input X
output y

⇓ next state

Present State	$\bar{X}$	X	y
SØ	SØ	S1	0
S1	SØ	SØ	1

encoding of states

	F
SØ	0
S1	1

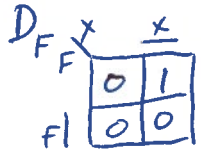
2-dimensional table

F	F^+ $\bar{X}$	F^+ X	y
0	0	1	0
1	0	0	1

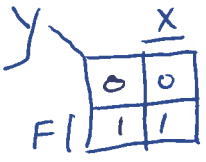
1-dimensional table

F	X	F^+	y
0	0	0	0
0	1	1	0
1	1	0	1
1	0	0	1

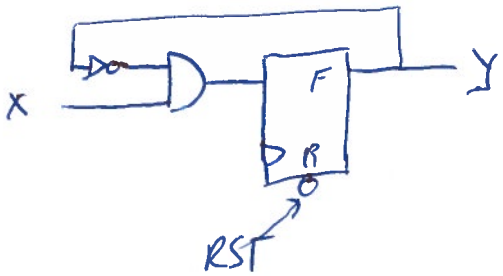
input of D-flipflop is same as required F^+ after active edge of clock



$D_F = \bar{F} \cdot X$



$y = F$



encoding of states

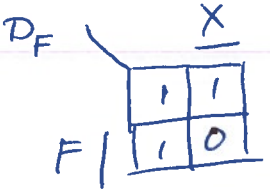
	F
SØ	1
S1	0

2-dimensional table

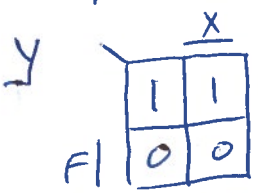
F	F^+ $\bar{X}$	F^+ X	y
1	1	0	0
0	1	1	1

1-dimensional table

F	X	F^+	y
0	0	1	1
0	1	1	1
1	1	0	0
1	0	0	0



$D_F = \bar{F} + \bar{X}$



$y = \bar{F}$