

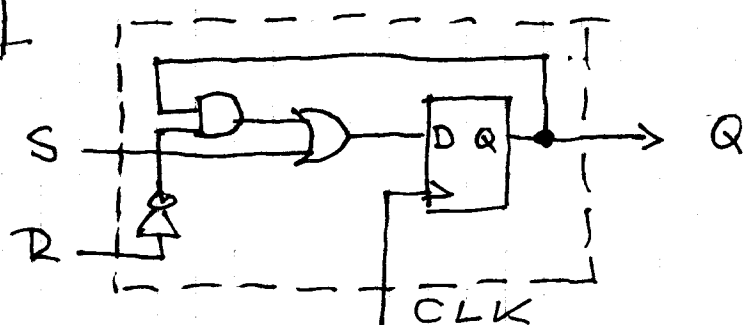
CANONICAL DESIGN OF FLIP-FLOPS

— BINARY CELL USED IS D-FLIP-FLOP

SR

	$R(t)$			
	0	0	1	1
$Q(t)$	1	0	1	0
	$S(t)$			

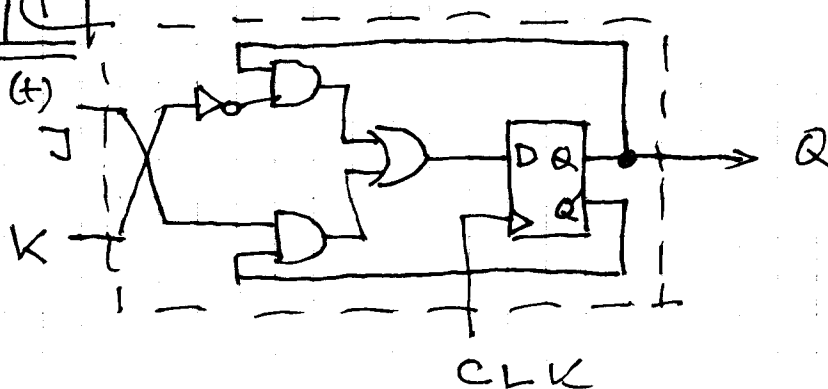
$$Q(t+1) = Q(t)R'(t) + S(t)$$



JK

	$K(t)$			
	0	0	1	1
$Q(t)$	1	0	0	1
	$J(t)$			

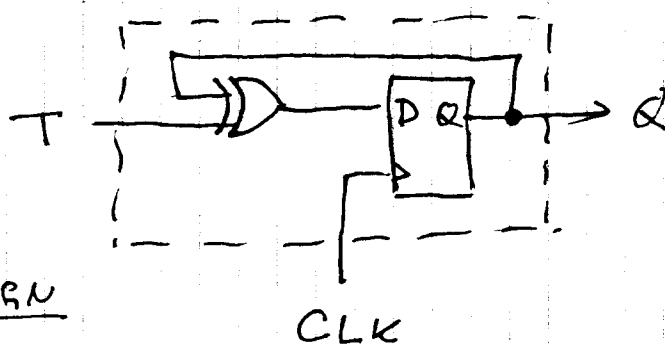
$$Q(t+1) = Q(t)K'(t) + Q'(t)J(t)$$



T

	$T(t)$	
	0	1
$Q(t)$	1	0

$$Q(t+1) = Q(t) \oplus T(t)$$



EXERCISE:

USE AS B-CELL	DESIGN
SR	D, JK, T
JK	D, SR, T
T	D, SR, JK