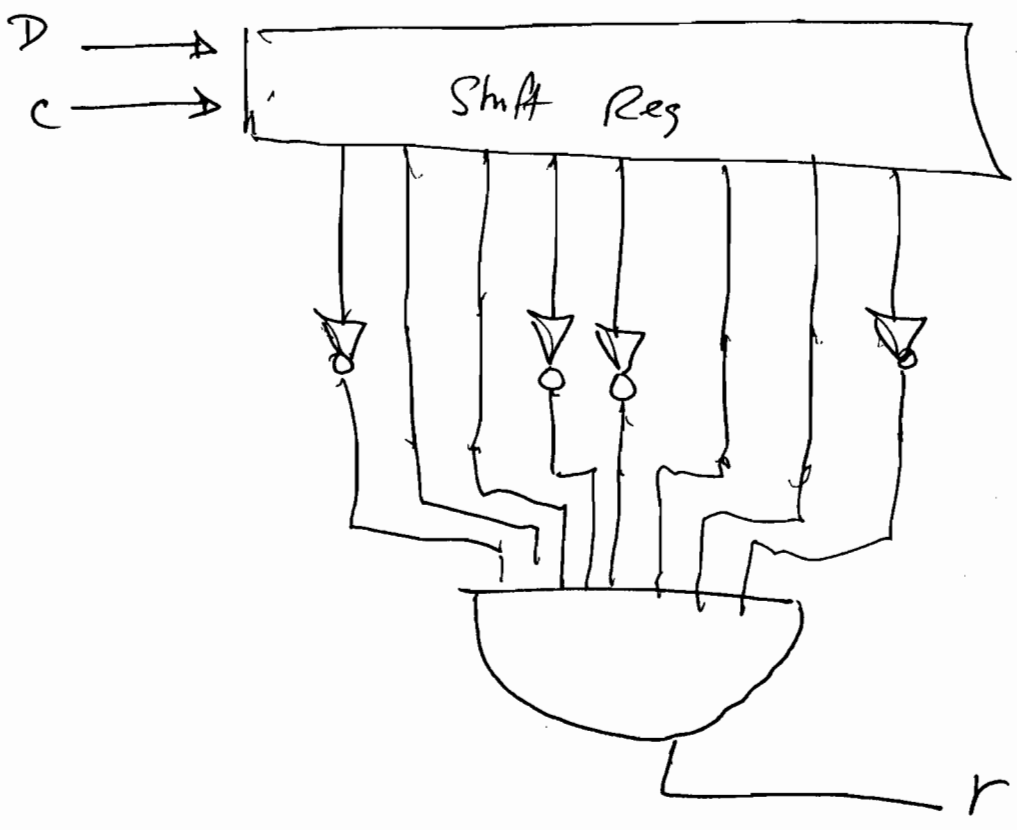
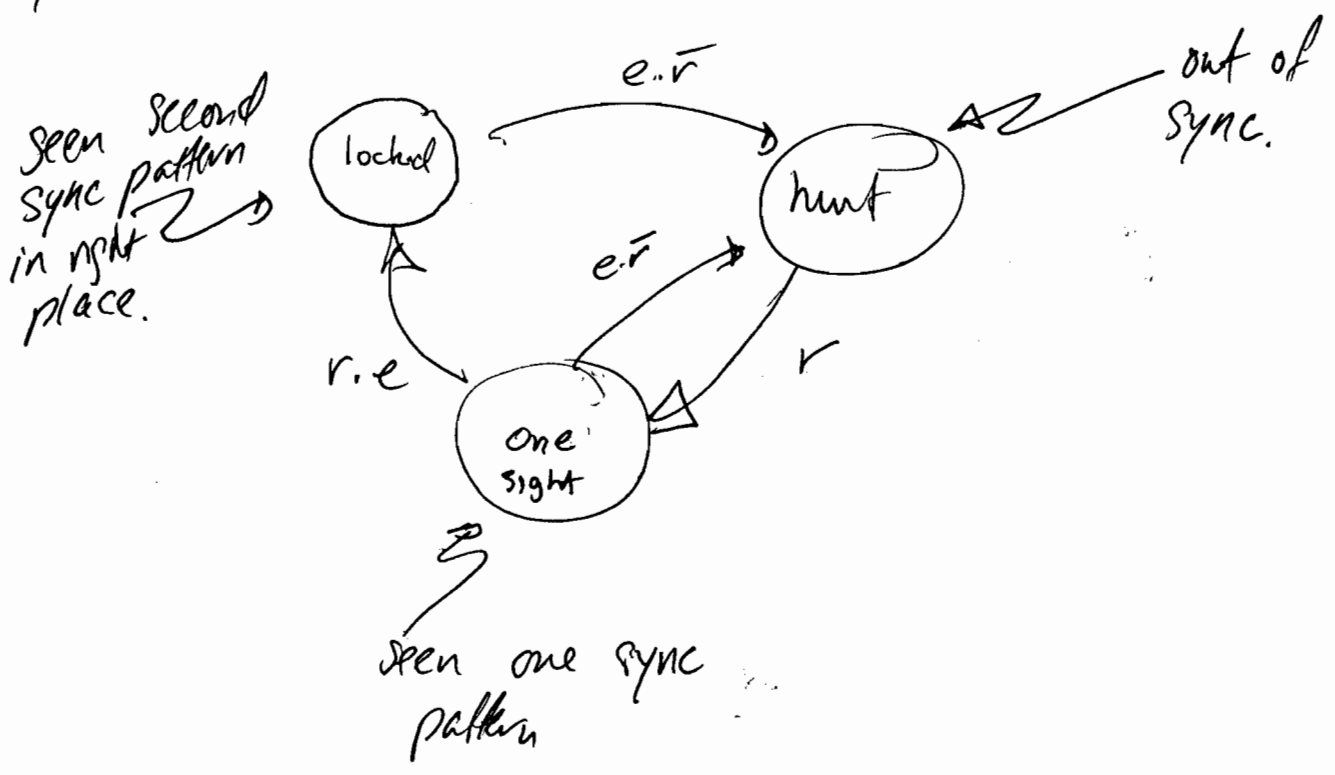


a)



b)



	$x$	$y$	$e$	$r$	$x' y'$	$\bar{J}_x$	$K_x$	$\bar{J}_y$	$K_y$
H	0	0	0	0	0 0	0	x	0	x
	0	0	0	1	0 1	0	x	1	x
	0	0	1	0	0 0	0	x	0	x
	0	0	1	1	0 1	0	x	1	x
S	0	1	0	0	0 1	0	x	x	0
	0	1	0	1	0 1	0	x	x	0
	0	1	1	0	0 0	0	x	x	1
	0	1	1	1	1 0	1	x	x	1
L	1	0	0	0	1 0	x	0	0	x
	1	0	0	1	1 0	x	0	0	x
	1	0	1	0	0 0	x	1	0	x
	1	0	1	1	1 0	x	0	0	x

$$J_x = \cancel{e} y e r$$

$$K_x = \cancel{e} \bar{e} \bar{r}$$

$$J_y = \bar{x} \cdot r$$

$$K_y = \bar{x} e$$

$$S = x \bar{y}$$

c)  $e$  produced by  $\div 64$  clock reset when transition from 'hunt' to 'one sight' is made.

d)  $b$  produced by  $\div 8$  counter reset to when transition from hunt to one sight is made.