

Exception condition example

④

Q \ Σ	0	1
$\rightarrow q_0$	q_1	(q_3)
q_1	q_0	(q_3)
$\times q_2$	q_1	q_4
(q_3)	(q_5)	q_0
$\times q_4$	(q_3)	q_1
(q_5)	(q_5)	(q_5)

step I - find non reachable states.

$\{q_0\}$ = set of reachable states.

\downarrow
 $\{q_0, q_1, q_3\}$

\downarrow
 $\{q_0, q_1, q_3, q_5\}$

\downarrow
states q_2 and q_4 are not reachable.

Q \ Σ	0	1
$\rightarrow q_0$	q_1	(q_3)
q_1	q_0	(q_3)
(q_3)	(q_5)	q_0
(q_5)	(q_5)	(q_5)

step II find equivalent states.

	\checkmark_{II}		
q_1	\checkmark_{II}		
(q_3)	\times_I	\times_I	
(q_5)	\times_I	\times_I	\times_I
	q_0	q_1	(q_3)

* $[(q_0, q_1) = (q_1, q_0) (q_3, q_3) \text{ --- } (1)]$

loop. so equivalent

$(q_3, q_5) = (q_5, q_5) (q_0, q_5)$

step III redraw transition diagram.

