Determinización

c. $M_3 = \langle \{p,q,r,s\}, \{0,1\}, \delta_3, p, \{q,s\} \rangle$

$\delta_2 =$

	0	1	λ
p	$\{q,s\}$	$\{q\}$	$\varnothing$
q	$\{r\}$	$\{q,r\}$	$\varnothing$
r	$\{s\}$	$\{p\}$	$\varnothing$
s	$\varnothing$	$\{p\}$	$\varnothing$

Construimos M AFD tq $L(M) = L(M_3)$

$M = (Q, \Sigma, \delta, Mq_0, F)$ $\quad Q \subseteq P(\{p,q,r,s\})$ $\quad \Sigma = \{0,1\}$ $\quad Mq_0 = \{p\}$

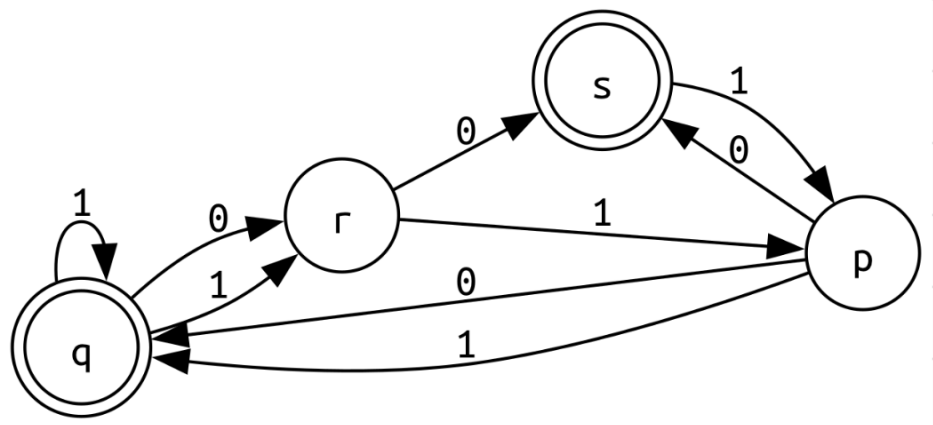
δ	0	1
$\{p\}$	$\{q,s\}$	$\{q\}$
$\{q,s\}$	$\{r\}$	$\{p,q,r\}$
$\{q\}$	$\{r\}$	$\{q,r\}$
$\{r\}$	$\{s\}$	$\{p\}$
$\{p,q,r\}$	$\{q,r,s\}$	$\{p,q,r\}$
$\{q,r\}$	$\{r,s\}$	$\{p,q,r\}$
$\{s\}$	T	$\{p\}$
$\{q,r,s\}$	$\{r,s\}$	$\{p,q,r\}$
$\{r,s\}$	$\{s\}$	$\{p\}$
T	T	T

$Q = \{ \{p\}, \{q,s\}, \{q\}, \{r\}, \{p,q,r\}, \{q,r\}, \{s\}, \{q,r,s\}, \{r,s\}, T \}$

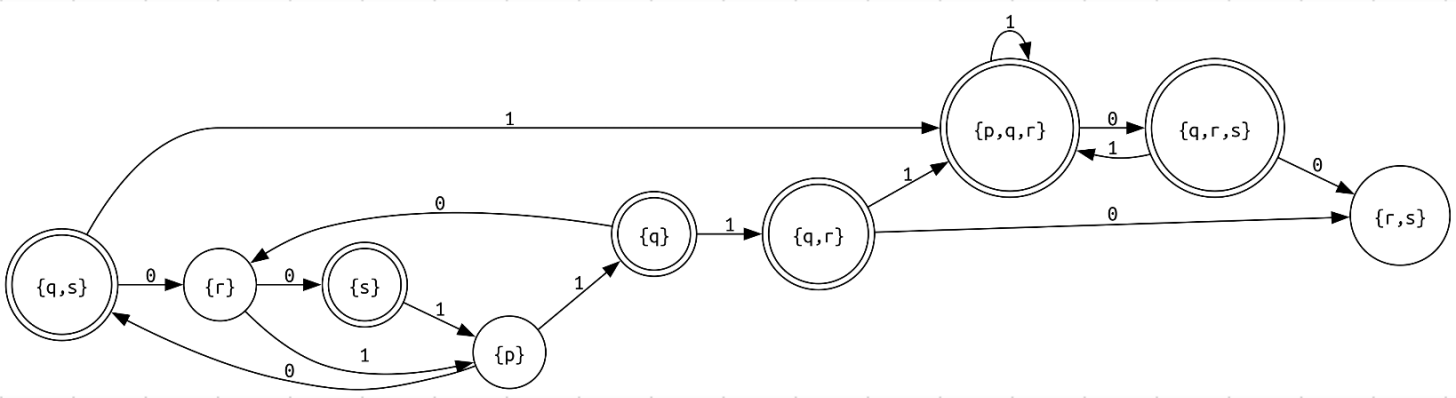
$F = \{ q \in Q : q \cap \{q,s\} \neq \varnothing \}$

$= \{ \{q,s\}, \{q\}, \{p,q,r\}, \{q,r\}, \{s\}, \{q,r,s\}, \{r,s\} \}$

M_3 AFND



M AFD



Minimización

Estados	$\equiv_0$	0	1	$\equiv_1$	0	1	$\equiv_2$	0	1
{p}	NF	F	F	1_1	1_2	1_2	2_1	2_2	2_3
{q, s}	F	NF	F	1_2	1_3	1_4	2_2	2_4	2_5
{q}	F	NF	F	1_2	1_3	1_2	2_3	2_4	
{r}	NF	F	NF	1_3	1_5	1_1	2_4		
{p, q, r}	F	F	F	1_4	1_2	1_4	2_5		
{q, r}	F	NF	F	1_2	1_6	1_4	2_6		
{s}	F	NF	NF	1_5	1_7	1_1	2_7		
{q, r, s}	F	NF	F	1_2	1_6	1_4	2_6		
{r, s}	F	F	NF	1_6	1_5	1_1	2_8		
T	NF	NF	NF	1_7	1_7	1_7	2_9		