

6. Даден е браичкиот овласт $A = (\{90, 91, 94, 93, 94, 95, 96\}, \{9, 6\}, 90, 5, \{9, 6\})$
 Со следните функции на прелазите:

q	a	b
$\rightarrow 90$	$\{91, 93\}$	$\{94, 96\}$
91	\emptyset	$\{9, 6\}$
92	$\{93, 96\}$	$\{92\}$
93	$\{95, 96\}$	\emptyset
94	\emptyset	$\{94, 96\}$
95	\emptyset	$\{95, 96\}$
96	\emptyset	\emptyset

Да се построи максимален детерминизирани овласт,
 еквивалентен на дадениот.

1) Детерминизација

q	a	b
$\rightarrow \{90\}$	$\{91, 93, 96\}$	$\{94, 96\}$
$\ast \{94, 93, 96\}$	$\{95, 96\}$	$\{92\}$
$\ast \{94, 96\}$	\emptyset	$\{94, 96\}$
$\ast \{95, 96\}$	\emptyset	$\{95, 96\}$
$\{9, 6\}$	$\{95, 96\}$	$\{92\}$
\emptyset	\emptyset	\emptyset

2) Минимизирање

q	a	b
$\rightarrow P_1$	P_2	P_3
$\ast P_2$	P_4	P_5
$\ast P_3$	P_6	P_3
$\ast P_4$	P_6	P_4
P_5	P_4	P_5
P_6	P_6	P_6

$$B_0^{(0)} = \{P_1, P_3, P_4\}, B_1^{(0)} = \{P_1, P_5, P_6\}$$

q	a	b
P_2	0	1
P_3	1	0
P_4	1	0

q	a	b
P_1	0	0
P_5	0	1
P_6	1	1

$$B_0^{(1)} = \{P_2\}, B_1^{(1)} = \{P_3, P_4\}, B_2^{(1)} = \{P_1\}, B_3^{(1)} = \{P_5\}, B_4^{(1)} = \{P_6\}$$

q	a	b
P_3	1	1
P_4	1	1

\checkmark $B_0^{(1)}, B_2^{(1)}, B_3^{(1)}, B_4^{(1)}$ се еквивалентни
 и можеат да се спојат во
 еден раздобие.
 $B_1^{(1)}$ не се раздобие.

$$\Rightarrow \text{Автомат } A' = (Q, \Sigma = \{9, 6\}, S, F, \delta')$$

$$Q = \{B_0^{(1)}, B_1^{(1)}, B_2^{(1)}, B_3^{(1)}, B_4^{(1)}\}$$

$$S = B_2^{(1)}$$

$$F = \{B_0^{(1)}, B_1^{(1)}\}$$

$$\delta':$$

q	a	b
$\rightarrow B_2^{(1)}$	$B_0^{(1)}$	$B_1^{(1)}$
$\ast B_0^{(1)}$	$B_1^{(1)}$	$B_3^{(1)}$
$\ast B_1^{(1)}$	$B_1^{(1)}$	$B_1^{(1)}$
$B_3^{(1)}$	$B_1^{(1)}$	$B_3^{(1)}$
$B_4^{(1)}$	$B_4^{(1)}$	$B_4^{(1)}$