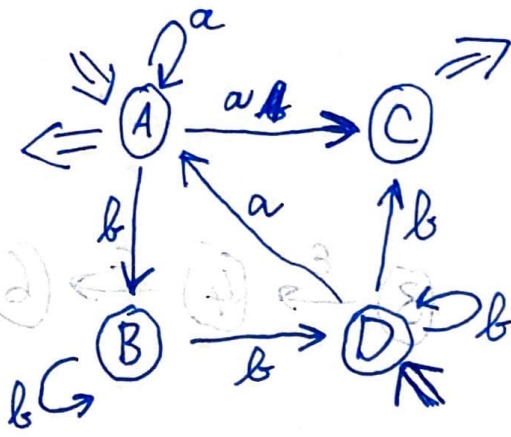


3.1

Cefourth

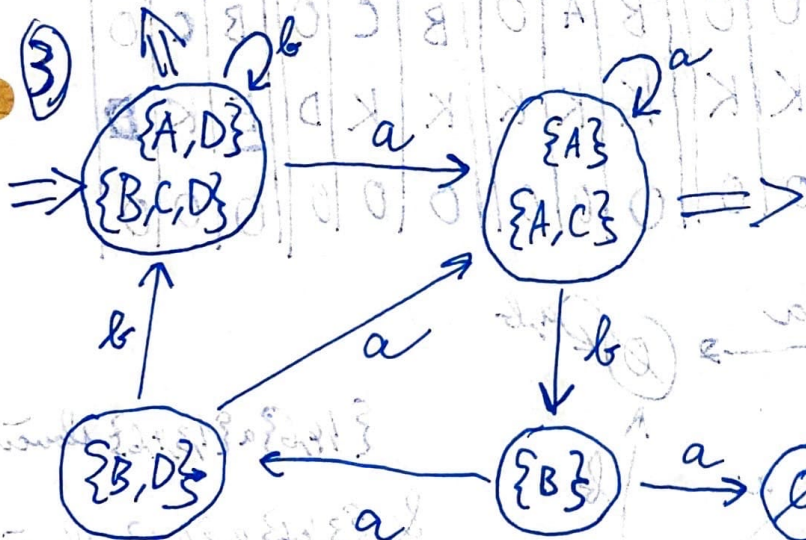
(1)



(2)

DFA	a	b	\sim_0	a	b	\sim_1	a	b	\sim_2	a	b
$\leftrightarrow \{A, D\}$	$\{A, C\}$	$\{B, C, D\}$	K	K	K	K	B	K	K	B	K
$\leftarrow \{A, C\}$	$\{A, C\}$	$\{B\}$	K	K	O	B	B	O	B	B	C
$\leftarrow \{B, C, D\}$	$\{A\}$	$\{B, C, D\}$	K	K	K	K	B	K	K	B	K
$\{B\}$	\emptyset	$\{B, D\}$	O	O	O	O	O	A	C	O	A
$\leftarrow \{A\}$	$\{A, C\}$	$\{B\}$	K	K	O	B	B	O	B	B	C
$\{B, D\}$	$\{A\}$	$\{B, C, D\}$	O	K	K	A	B	K	A	B	K
\emptyset	\emptyset	\emptyset	O	O	O	O	O	O	O	O	O

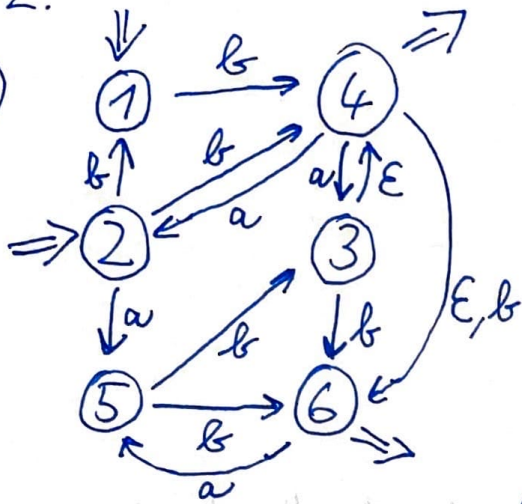
(3)



$\{A, D\}$ & $\{B, C, D\}$ should
& $\{A\}$ & $\{A, C\}$ should

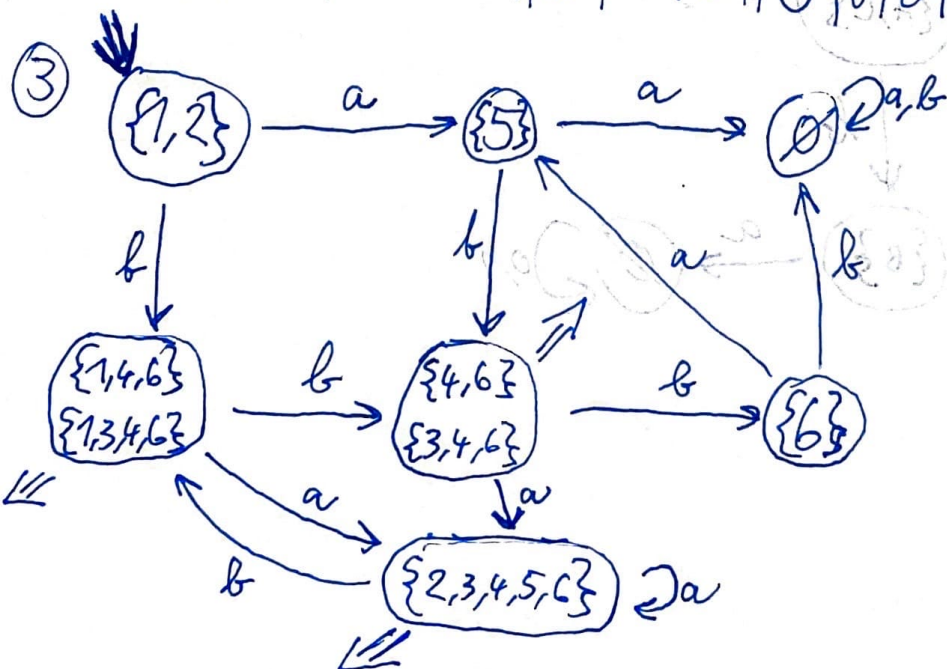
3.2.

1)



2)

DFA	a	b	\sim_0	a	b	\sim_1	a	b	\sim_2	a	b	\sim_3	a	b
$\rightarrow \{1,2\}$	$\{5\}$	$\{1,4,6\}$	O	O	K	A	A	K	A	C	K	A	C	E
$\{5\}$	\emptyset	$\{3,4,6\}$	O	O	K	A	O	K	C	O	D	C	O	D
$\leftarrow \{1,4,6\}$	$\{2,3,4,5,6\}$	$\{4,6\}$	K	K	K	K	K	K	K	K	D	E	K	D
$\leftarrow \{3,4,6\}$	$\{2,3,4,5,6\}$	$\{6\}$	K	K	K	K	K	B	D	K	B	D	K	B
$\leftarrow \{2,3,4,5,6\}$	$\{2,3,4,5,6\}$	$\{1,3,4,6\}$	K	K	K	K	K	K	K	K	K	K	K	E
$\leftarrow \{4,6\}$	$\{2,3,4,5,6\}$	$\{6\}$	K	K	K	K	K	B	D	K	B	D	K	B
$\leftarrow \{6\}$	$\{5\}$	\emptyset	K	O	O	B	A	O	B	C	O	B	C	O
$\leftarrow \{1,3,4,6\}$	$\{2,3,4,5,6\}$	$\{4,6\}$	K	K	K	K	K	K	K	K	D	E	K	D
\emptyset	\emptyset	\emptyset	O	O	O	O	O	O	O	O	O	O	O	O



$\{1,4,6\}$ & $\{1,3,4,6\}$ accepted
& $\{3,4,6\}$ & $\{4,6\}$ accepted