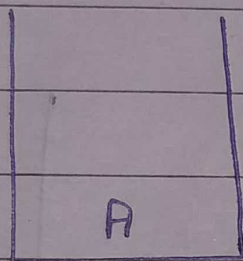


Table:

	0	1
→ A	A, B	A
B	$\phi$	C
C	$\phi$	$\phi$



Stack

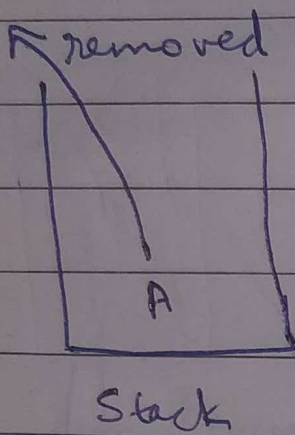
Transition

diagram:-

	0	1

Table:

	0	1
→ A	A, B	A
B	$\phi$	C
(C)	$\phi$	$\phi$



Transition diagram:

	0	1
→ A	AB	A

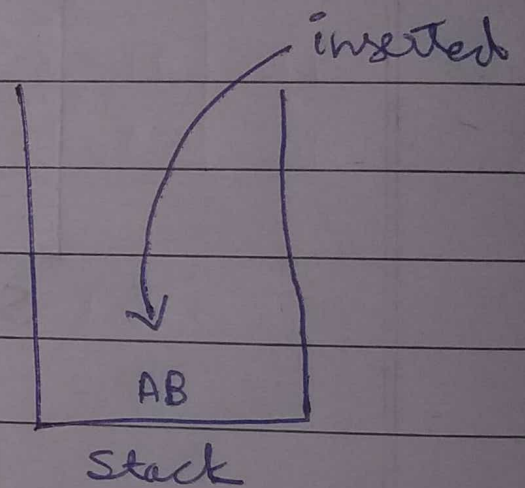
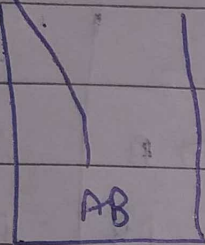


Table:

	0	1
$\rightarrow A$	A, B	A
B	$\phi$	C
(C)	$\phi$	$\phi$

removed



Transition diagram:

	0	1
A	AB	A
AB	AB	AC

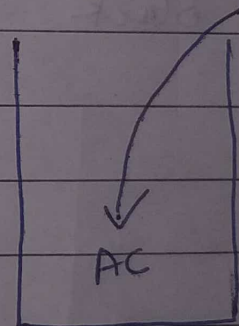
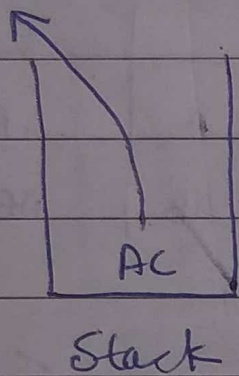


Table:

	0	1
→ A	A, B	A
B	$\phi$	C
(C)	$\phi$	$\phi$



Transition diagram:

	0	1
→ A	AB	A
AB	AB	AC
(AC)	AB	A

Nothing to be inserted.



∴ Corresponding dfa:

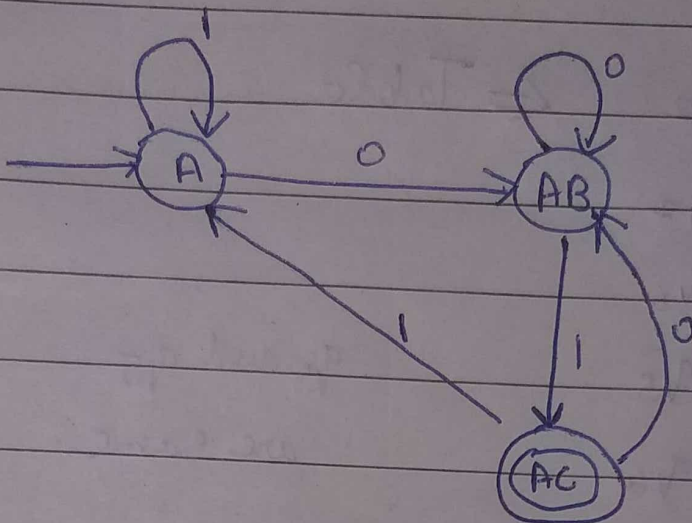


Table:

	0	1
→ $q_0$	$q_1$	$q_5$
$q_1$	$q_6$	$q_2$
$q_2$	$q_0$	$q_2$
$q_3$	$q_2$	$q_6$
$q_4$	$q_7$	$q_5$
$q_5$	$q_2$	$q_6$
$q_6$	$q_6$	$q_4$
$q_7$	$q_6$	$q_2$

$q_1$  and  $q_7$   
are same.

$\{q_0, q_1, q_3, q_4, q_5, q_6, q_7\} \{q_2\}$

	0	1
→ $q_0$	$q_1$	$q_5$
$q_1$	$q_6$	$q_2$
$q_2$	$q_0$	$q_2$
$q_3$	$q_2$	$q_6$
$q_4$	$q_1$	$q_5$
$q_5$	$q_2$	$q_6$
$q_6$	$q_6$	$q_4$

$q_0$  and  $q_4$   
are same.

	0	1
→ $q_0$	$q_1$	$q_5$
$q_1$	$q_6$	$q_2$
$q_2$	$q_0$	$q_2$
$q_3$	$q_2$	$q_6$
$q_5$	$q_2$	$q_6$
$q_6$	$q_6$	$q_0$

$q_3$  and  $q_5$   
are same

	0	1
→ $q_0$	$q_1$	$q_3$
$q_1$	$q_6$	$q_2$
$q_2$	$q_0$	$q_2$
$q_3$	$q_2$	$q_6$
$q_6$	$q_6$	$q_0$

Minimized  
DFA