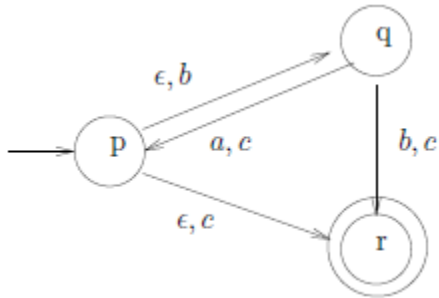


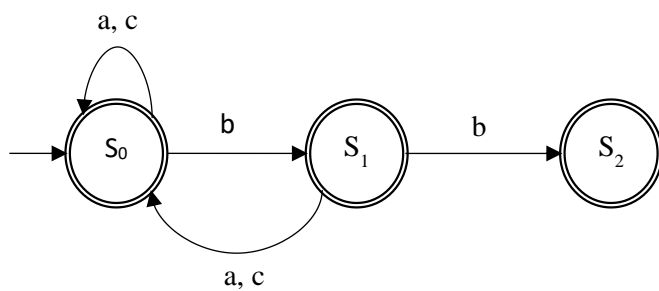
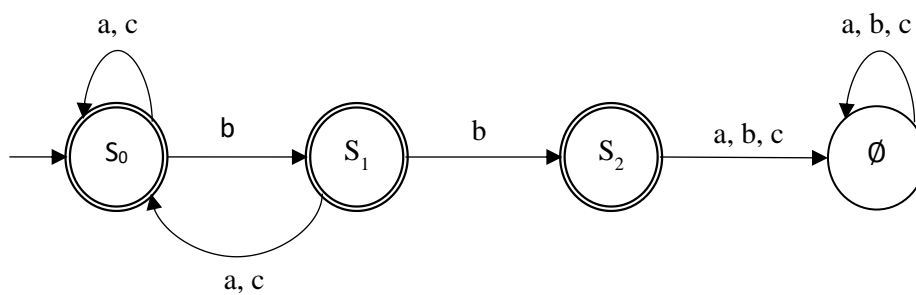
Convert the following  $\epsilon$ -NFA into an equivalent DFA using the lazy version of the formal conversion method.



Solution:

$\delta$	a	b	c	$\epsilon$ -closure
p	$\emptyset$	{q}	{r}	{p, q, r}
q	{p}	{r}	{p, r}	{q}
*r	$\emptyset$	$\emptyset$	$\emptyset$	{r}

$\delta'$	a	b	c
* $S_0 = \{p, q, r\}$	{p, q, r}	{q, r}	{p, q, r}
* $S_1 = \{q, r\}$	{p, q, r}	{r}	{p, q, r}
* $S_2 = \{r\}$	$\emptyset$	$\emptyset$	$\emptyset$



or