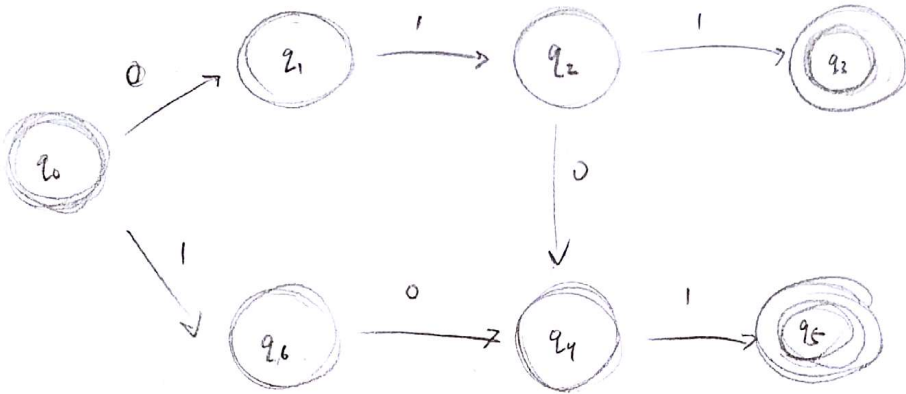


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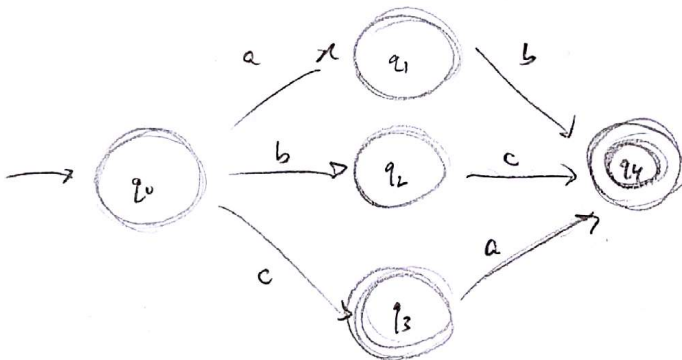
Assignment 4

*2.4.1

b.



c.



*2.4.2

Same as above.

*2.5.2

- a. $p \rightarrow \{p, q, r\}$
- $q \rightarrow \{q\}$
- $r \rightarrow \{r\}$

b. ϵ

a, b, c

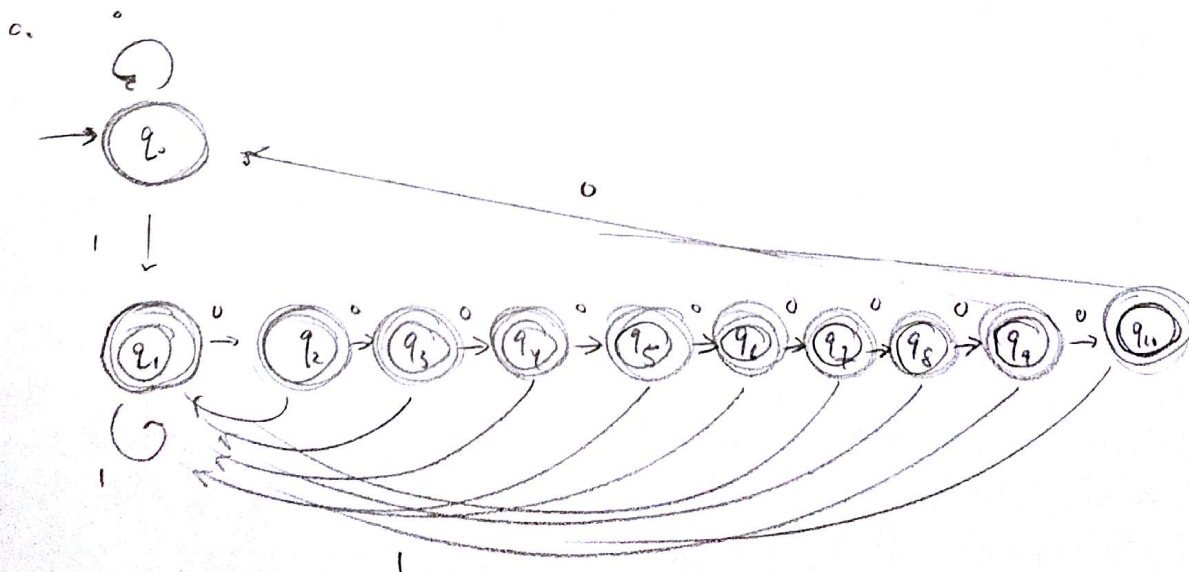
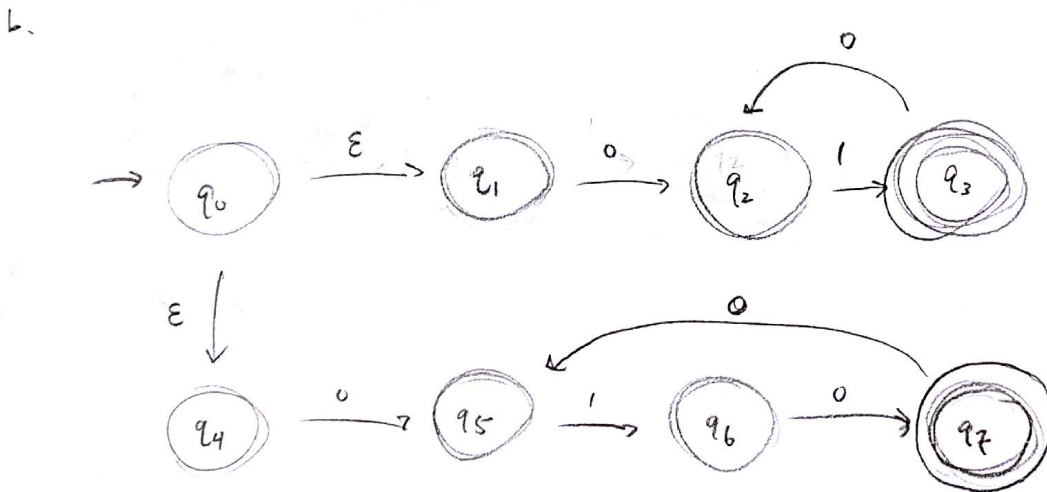
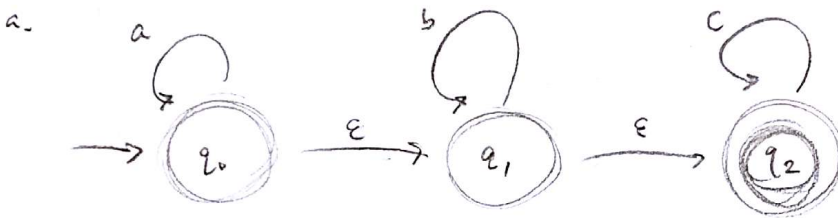
aa, ab, ac, ba, bb, bc, ca, cb, cc

aaa, aab, aac, aba, abb, baa, bab, bac, bca, bcb, bcc, caa, cab, cac, cba, cbb, cbc, cca, ccb, ccc

c. ϵ -closure(p) = $\{p, q, r\}$, same for rest

	a	b	c
* $\{p, q, r\}$	$\{p, q, r\}$	$\{q, r\}$	$\{p, q, r\}$
* $\{q, r\}$	$\{p, q, r\}$	$\{r\}$	$\{p, q, r\}$
* $\{r\}$	\emptyset	\emptyset	\emptyset
\emptyset	\emptyset	\emptyset	\emptyset

*2.5.3



($q_1 - q_{10}$
are all
accepting)