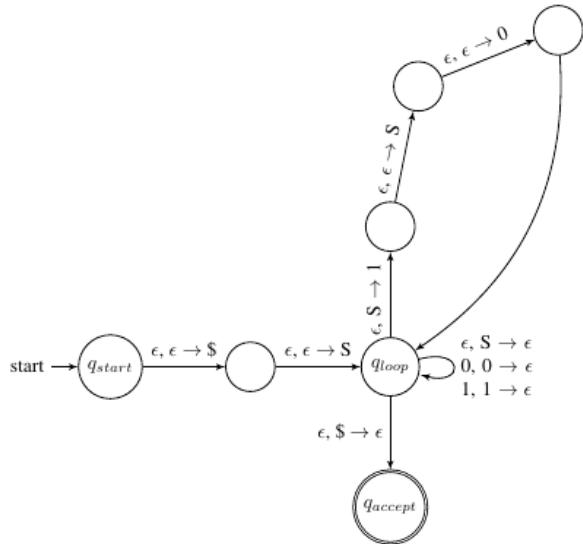


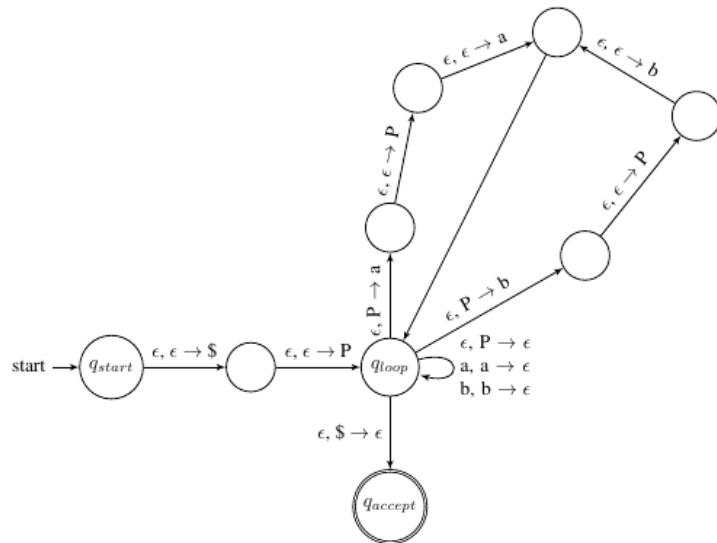
Chapter 2.4 Practice Key

Construct PDAs from CFGs below.

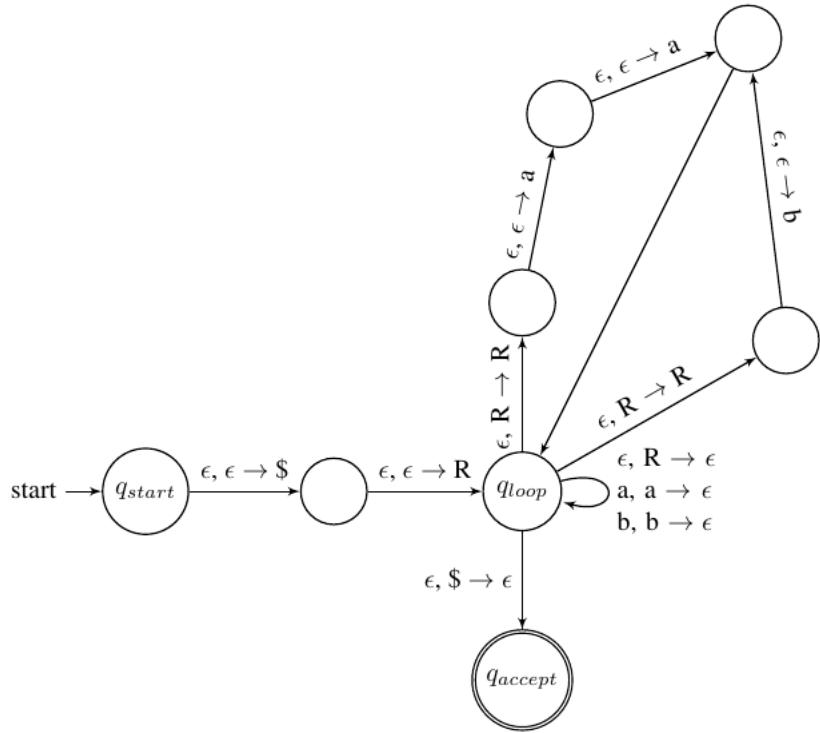
1. $S \rightarrow 0S1 \mid \epsilon$



2. $P \rightarrow aPa \mid bPb \mid \epsilon$



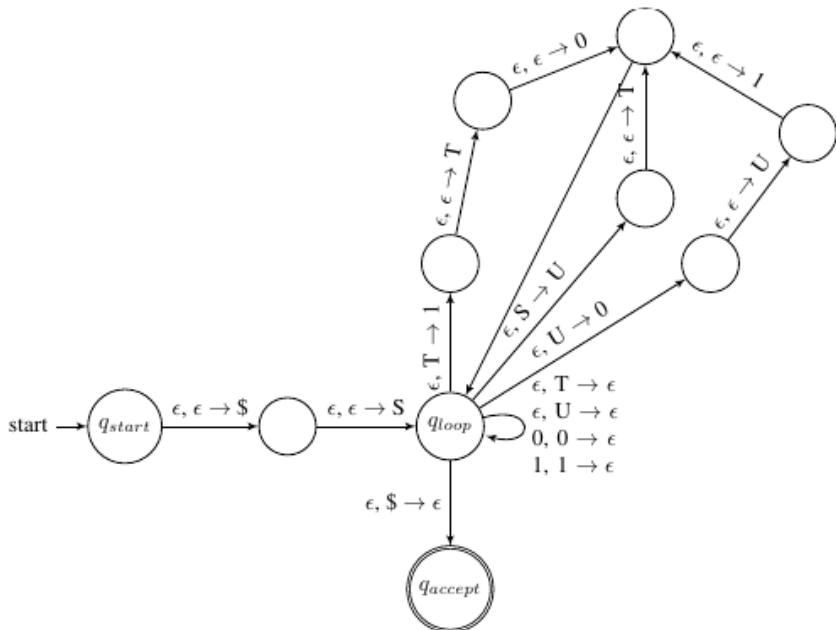
3. $R \rightarrow aaR \mid bR \mid \epsilon$



4. $S \rightarrow TU$

$T \rightarrow 0T1 \mid \epsilon$

$U \rightarrow 1U0 \mid \epsilon$



$$\begin{aligned}
 5. \quad E &\rightarrow aaE \mid bbE \mid D \mid \epsilon \\
 D &\rightarrow abD \mid baD \mid E
 \end{aligned}$$

