2)
$$\rightarrow \cup, R$$

 $1 \rightarrow 0, R$
 $1 \rightarrow 1, R$
 $9 \rightarrow 0, L$
 $0 \rightarrow 0, L$
 $1 \rightarrow 1, R$
 $0 \rightarrow 0, L$
 $0 \rightarrow 0, L$
 $1 \rightarrow 1, R$
 $0 \rightarrow 0, L$
 $0 \rightarrow 0, L$
 $1 \rightarrow 1, R$
 $0 \rightarrow 0, L$
 $0 \rightarrow 0, L$
 $1 \rightarrow 1, R$
 $0 \rightarrow 0, L$

The TM, M, accepts the strings with

→000P0110→0000P10→0000P10

→00000 | QCC 0

3) LI={ E, ab, aabb, aaabbb, }

