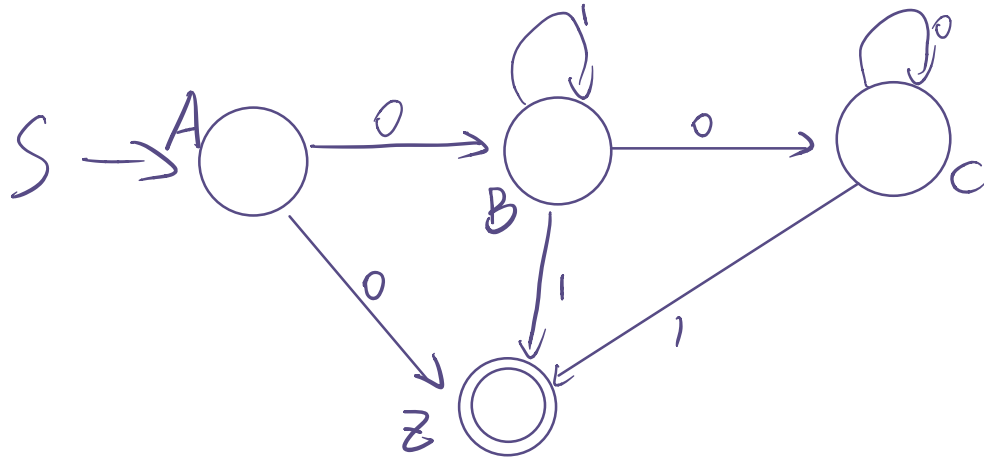


1.

$G: A \rightarrow 0B/0, B \rightarrow 0C/1B/1, C \rightarrow 0C/1$

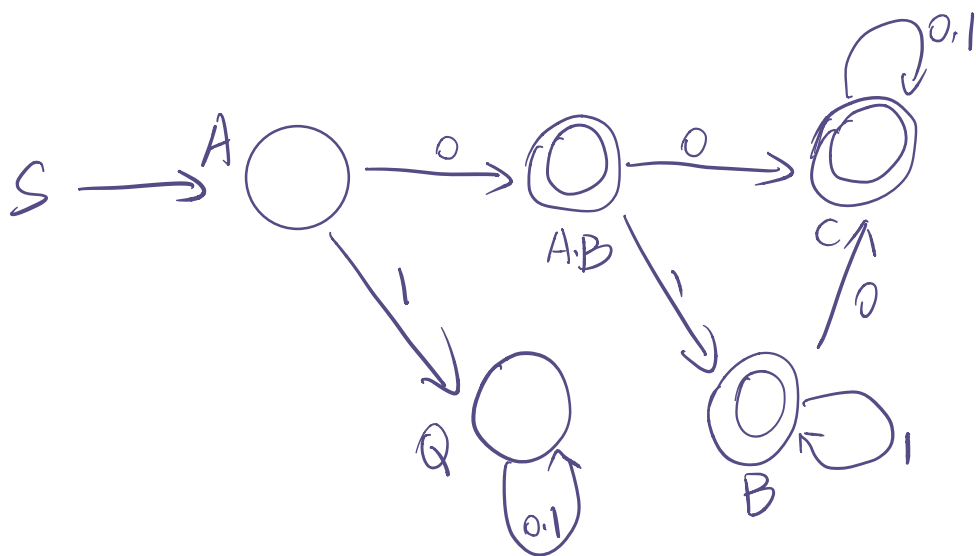
(1)



(2)

输入

状态	0	1
A	(A, B)	Q (陷阱)
A, B	C	B (陷阱)
B	C	B (陷阱)
C	C	(陷阱)



(3) 构造文法 $G = (V, T, P, S)$ 其中

$V = \{A, D, B, C\}$, $T = \{1, 0\}$

设(A,B)状态为D, 则右线性文法为:

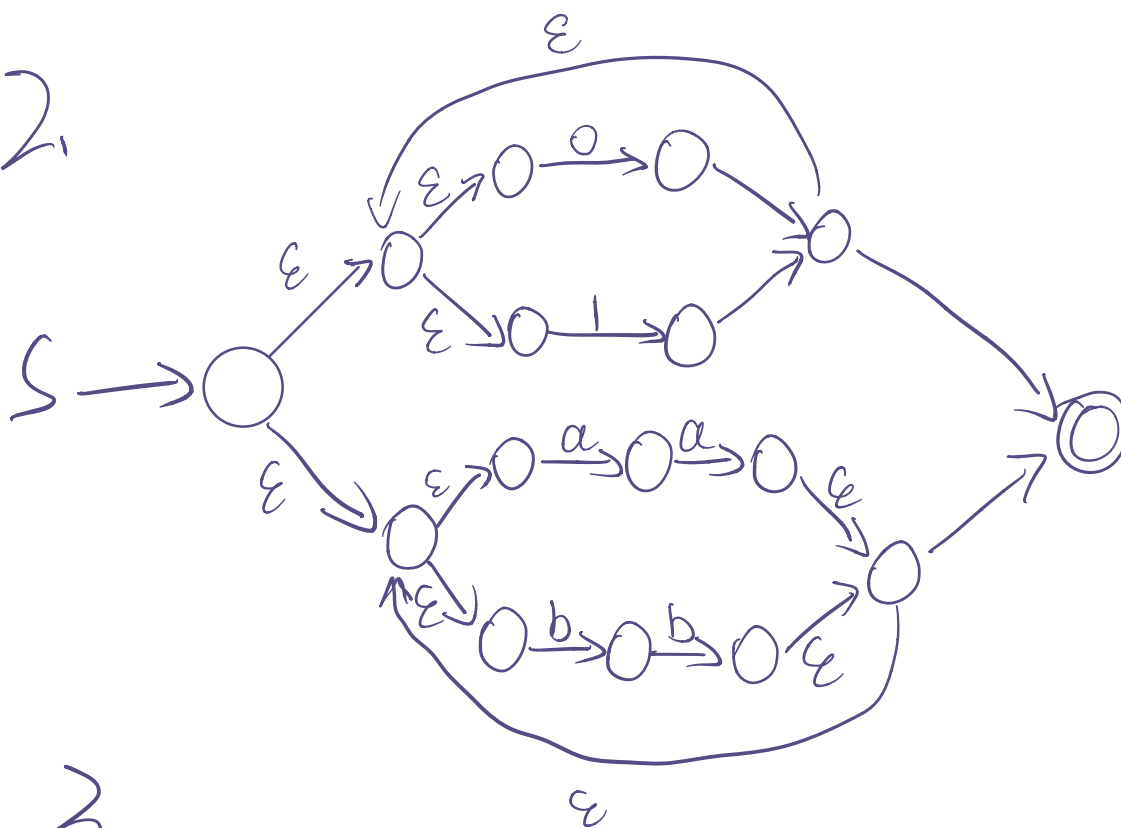
$A \rightarrow 1Q \mid 0D \mid 0$

$D \rightarrow 0C \mid 1B \mid 1$

$B \rightarrow 0C \mid 1$

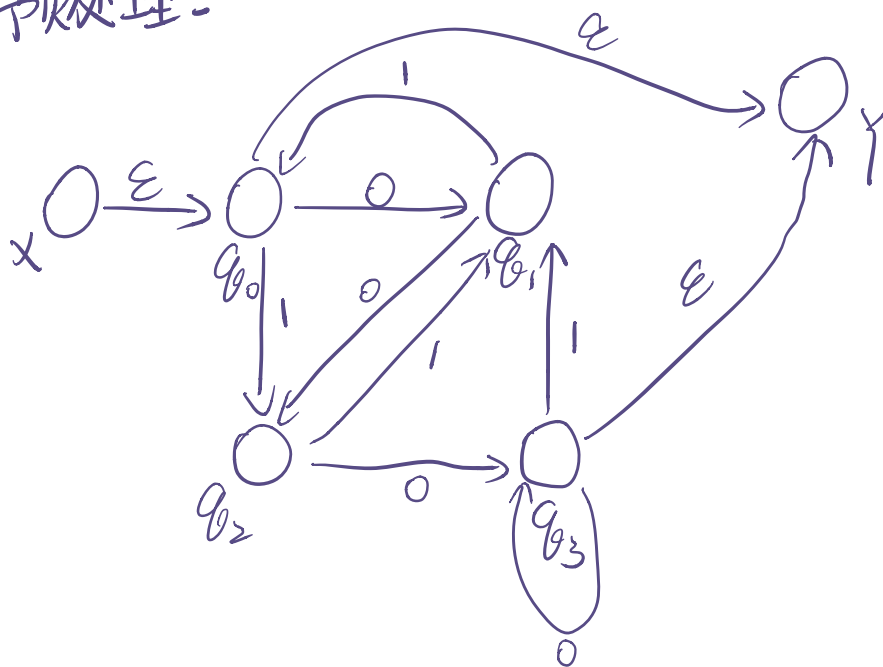
$C \rightarrow 0C \mid 1$

2.

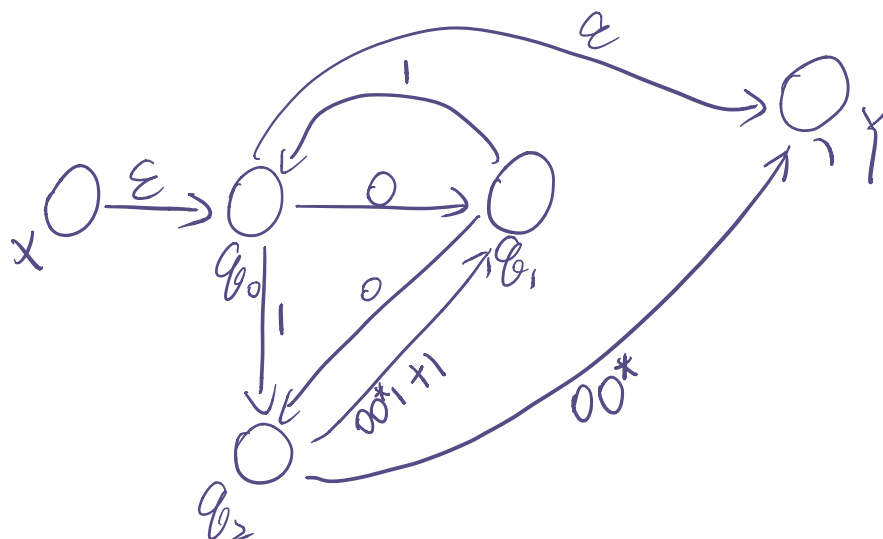


3.

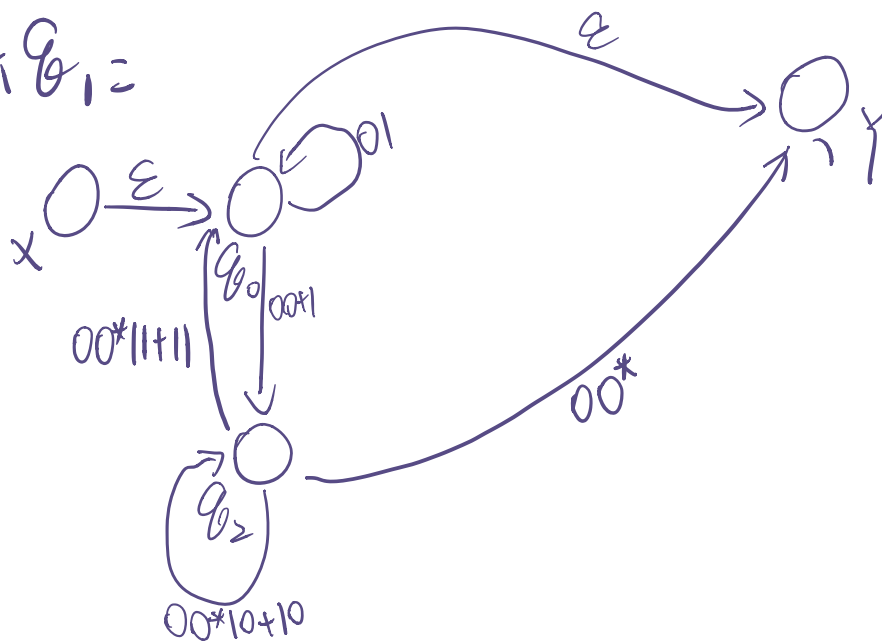
预处理:



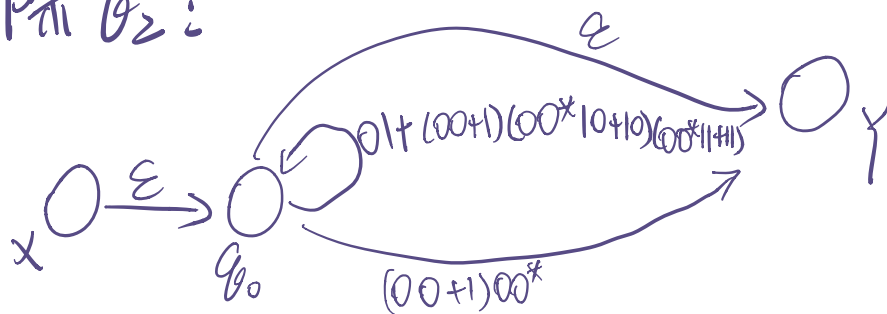
去除 q_3 :



去除 q_1 :



去除 q_2 :



去除 q_0 :



正则表达式 $(0|+(00+1)(00^*|0+10)(00^*|1+11))(00+1)00^*$ 就是所求。