

获得的答案

返回

(a) Language $L_1 = \{w \mid w \text{ contains at least three 1s}\}$

Let M_1 be the NFA that recognizes L_1 .

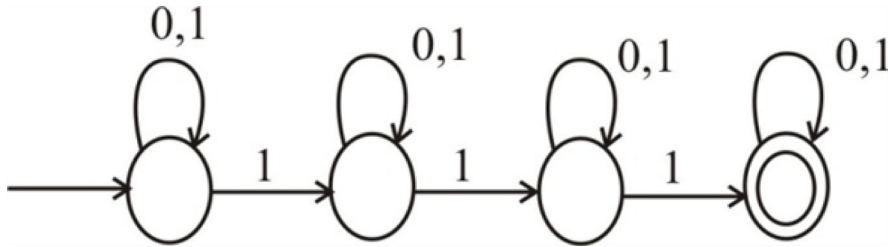
Let $L = L_1^*$

Let M be the NFA that recognizes L .

$L_1 = \{w \mid w \text{ contains at least three 1s}\}$

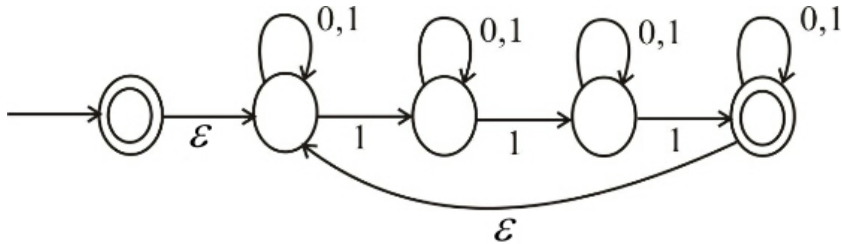
$L_1 = (0,1)^* 1 (0,1)^* 1 (0,1)^* 1 (0,1)^*$

The state diagram of M_1 that recognizes L_1 is as follows:



L is the language that recognizes star of L_1

The state diagram of M that recognizes L is as follows:



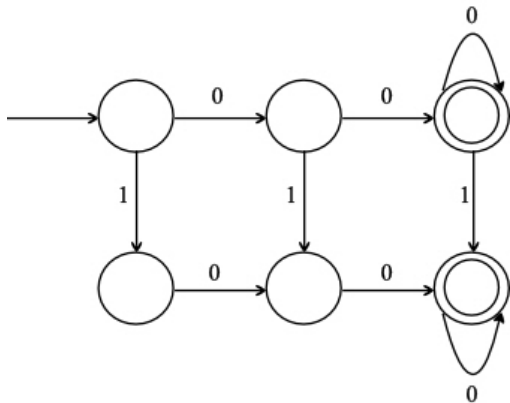
(b) Languages $L_1 = \{w \mid w \text{ contains at least two 0s and at most one 1}\}$

Let M_1 be the NFA that recognizes L_1 .

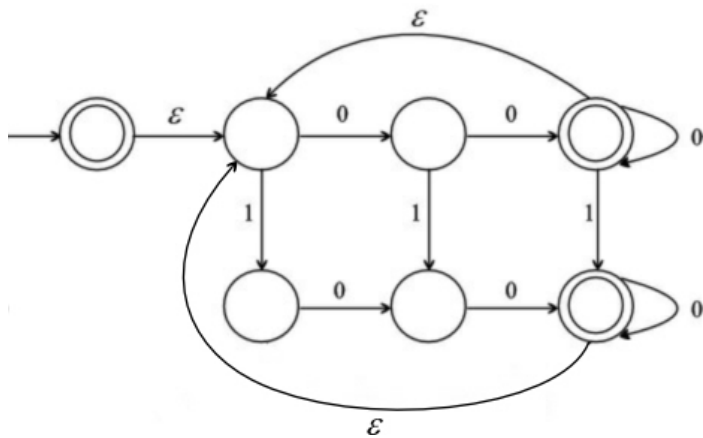
Let $L = L_1^*$

Let M be the NFA that recognizes L .

$L_1 = \{w \mid w \text{ contains atleast two 0s and at most one 1}\}$



The state diagram of M that recognizes L is as follows:



(c) Languages L_1 =The empty set.

Let M_1 be the NFA that recognizes L_1 .

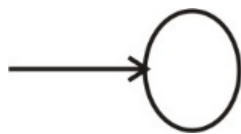
Let $L = L_1^*$

Let M be the NFA that recognizes L .

L_1 = The empty set

$L_1 = \phi = \{ \}$

The state diagram of M_1 that recognizes L_1 is as follows:



L is the star of L_1 .

The state diagram of M that recognizes L is as follows:

