形式语言与自动机 作业一

cycleke

1 第一题

L = {$w \in \{0,1\}^*$| w does not end with 10 }.

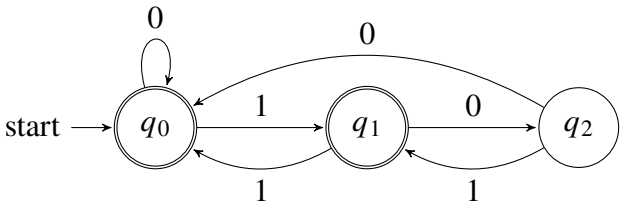

图 1: 第一题

2 第二题

L = {$w \in \{0,1\}^*$| w contains both 01 and 10 as substrings }.

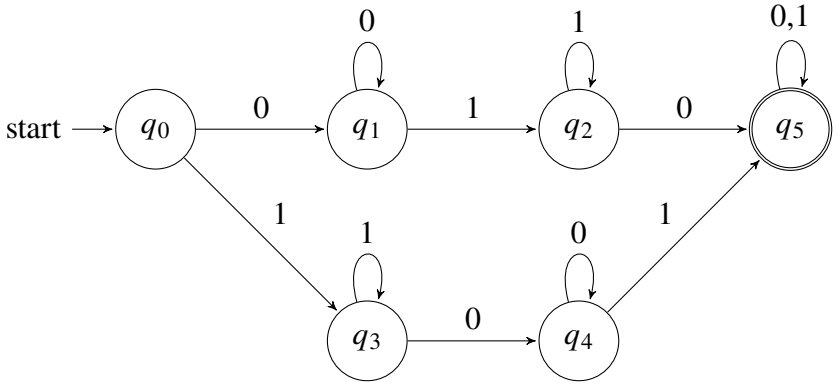

图 2: 第二题

3 第三题

The set of all strings such that each block of three consecutive symbols contains at least two 0’s.

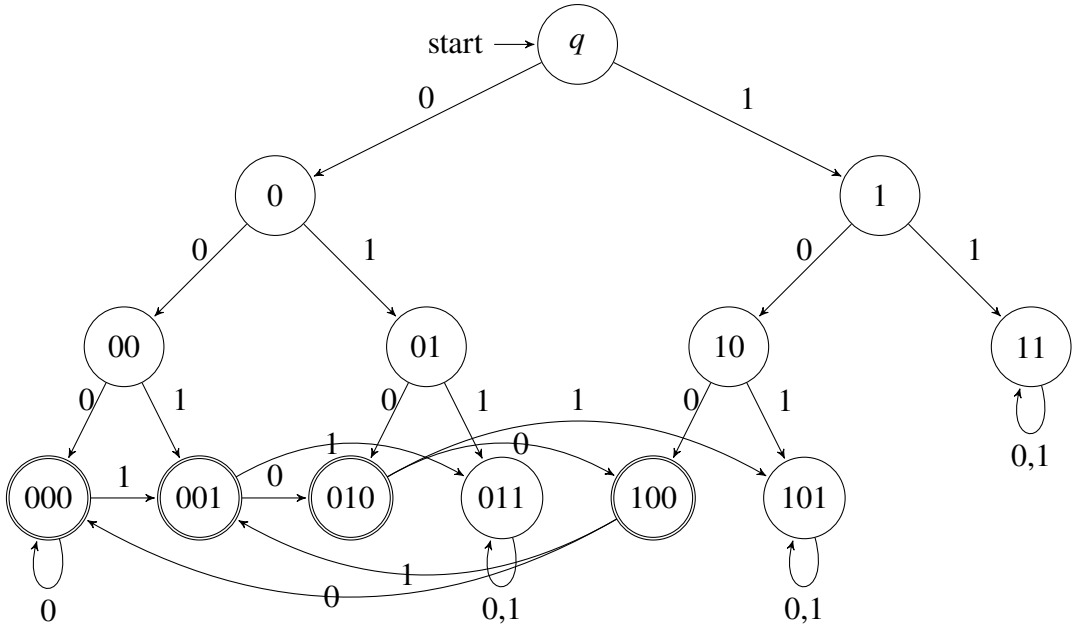

图 3: 第三题

4 第四题

The set of strings such that the number of 0's is divisible by 3, and the number of 1's is divisible by 2.

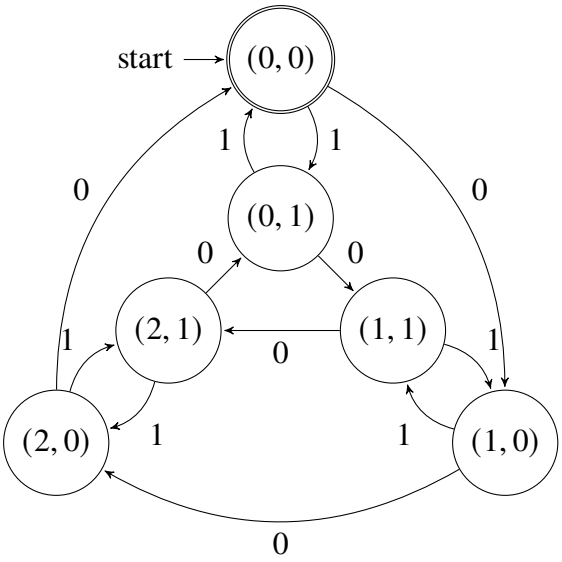

图 4: 第四题

5 第五题

Design an NFA within four states for the language $\{0\}^* \cup \{01\}^*$.

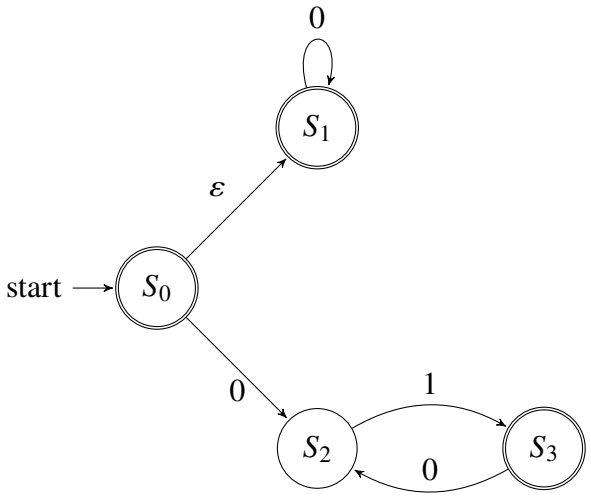

图 5: 第五题

6 第六题

Design an NFA for the following language over $\Sigma = \{0, 1\}, L = \{w|w$ contains at least two 0's or exactly two 1's $\}$.

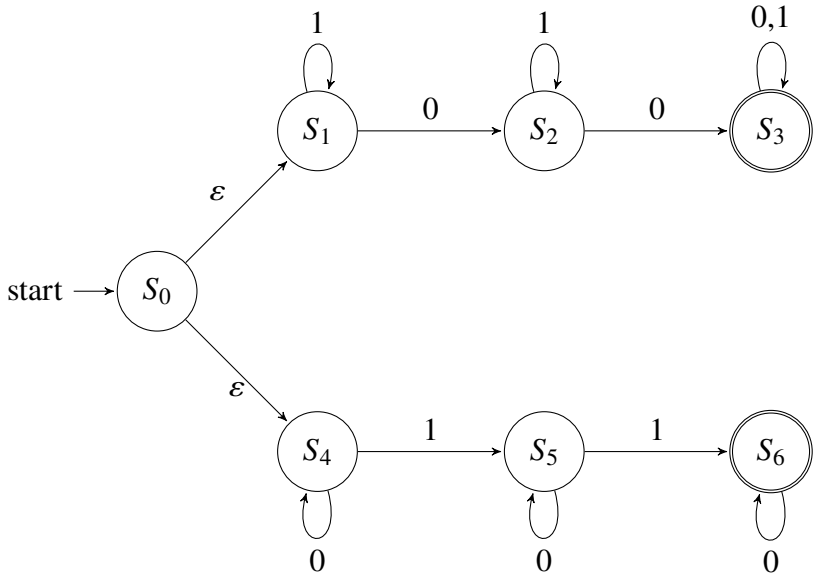

图 6: 第六题