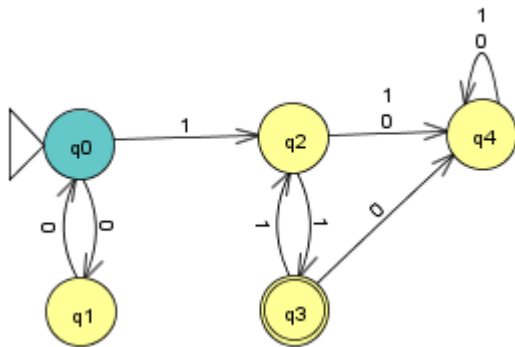
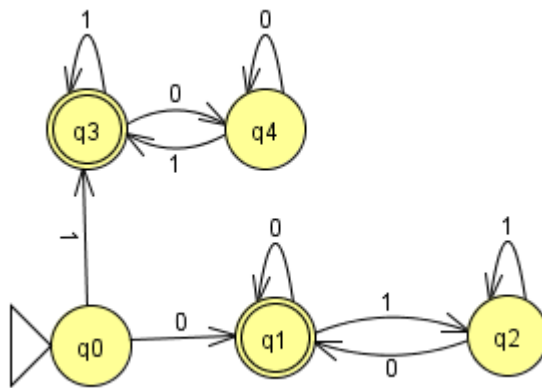


Exercício 1

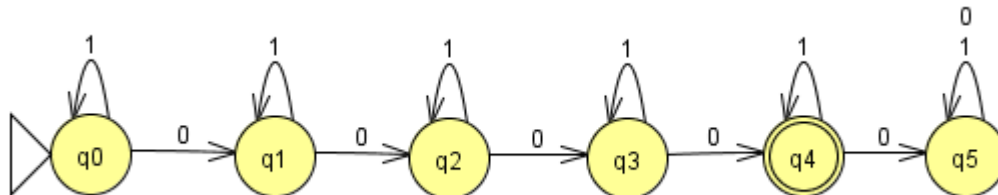
a) $L1 = \{w | w = 0^n 1^m \text{ e } n \text{ e } m \text{ são pares}\}$;



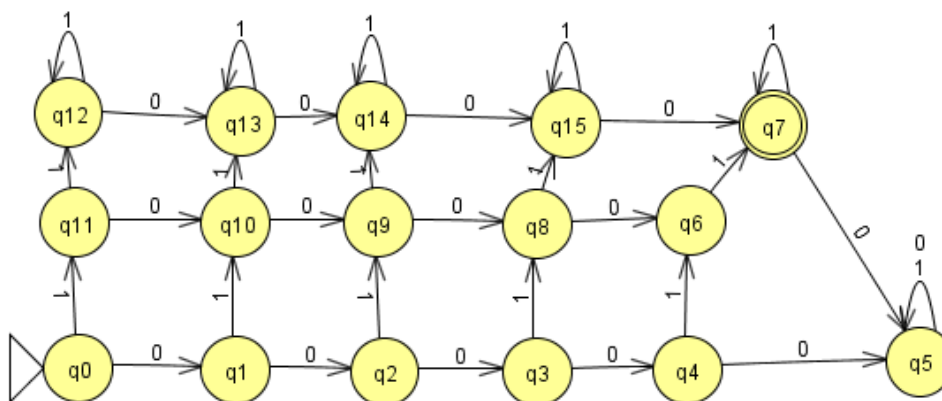
b) $L2 = \{w | w \text{ possui o mesmo número de 01 e 10}\}$;



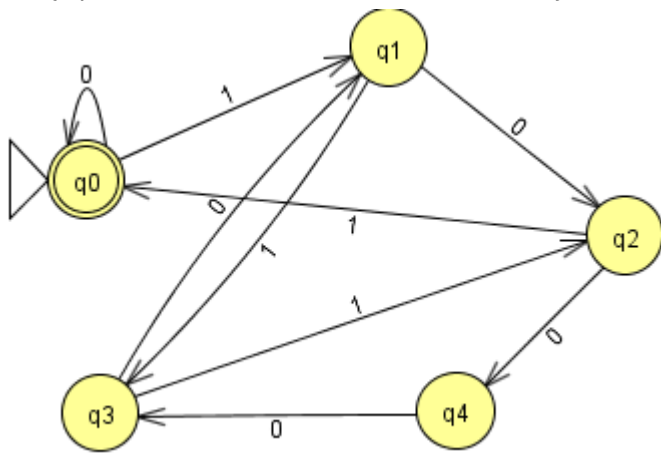
c) $L3 = \{w | w \text{ contém exatamente quatro 0's}\}$;



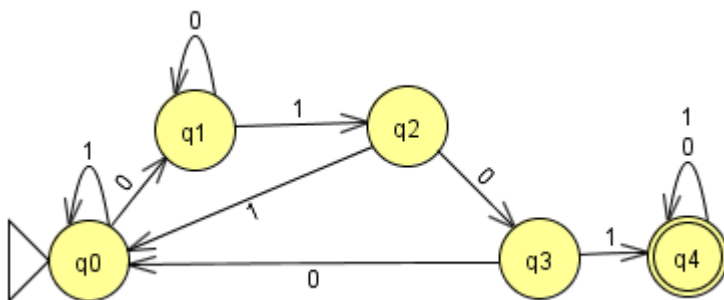
d) $L5 = \{w | w \text{ contém exatamente quatro 0's e ao menos dois 1's}\}$;



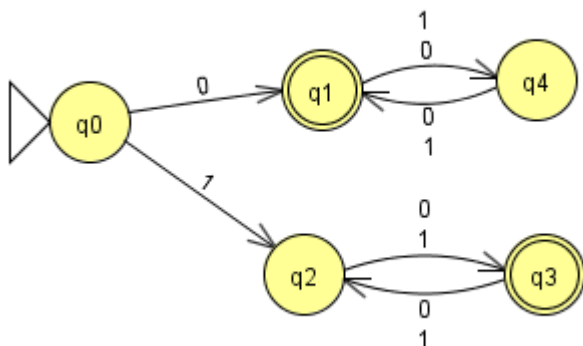
e) $L6 = \{w | w \text{ possui valor binário divisível por } 5\}$;



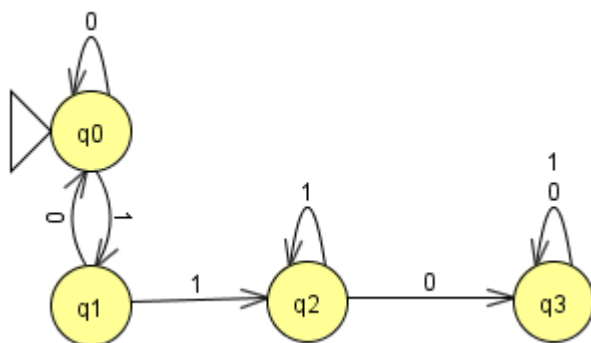
f) $L7 = \{w | w \text{ contém a substring } 0101\}$;



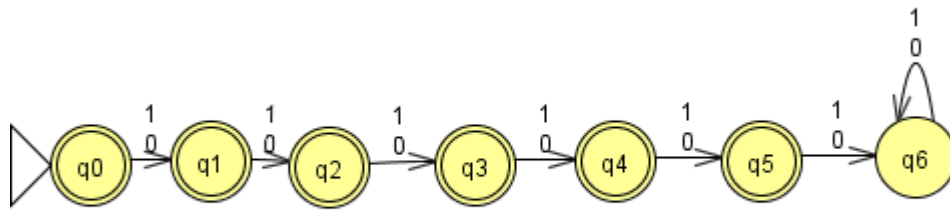
g) $L8 = \{w | w \text{ começa com } 0 \text{ e tem comprimento ímpar ou começa com } 1 \text{ e tem comprimento par}\}$



h) $L9 = \{w | w \text{ não contém a substring } 110\}$



i) $L_{10} = \{w \mid |w| \leq 5\}$



j) $L_{11} = \{w \mid w \text{ possui 1 em todas as posições ímpares}\}$

