PONTIFÍCIA UNIVERSIDADE CATÓLICA DE MINAS GERAIS
ARQUITETURA E ORGANIZAÇÃO DE COMPUTADORES II
CIÊNCIA DA COMPUTAÇÃO - 3º PERÍODO

AUTÔMATOS DE PILHA - EXERCÍCIOS 24-05

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POÇOS DE CALDAS - MG

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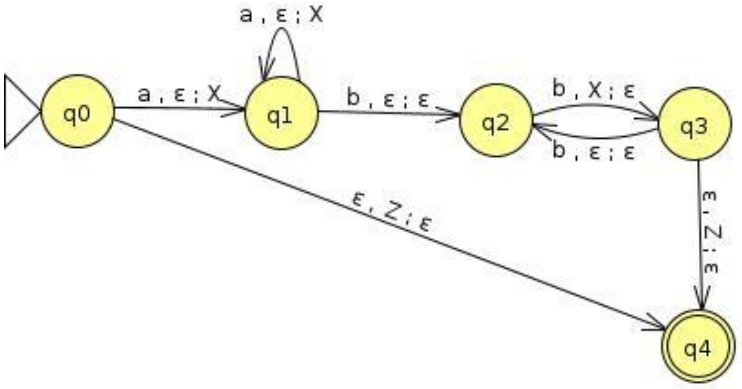
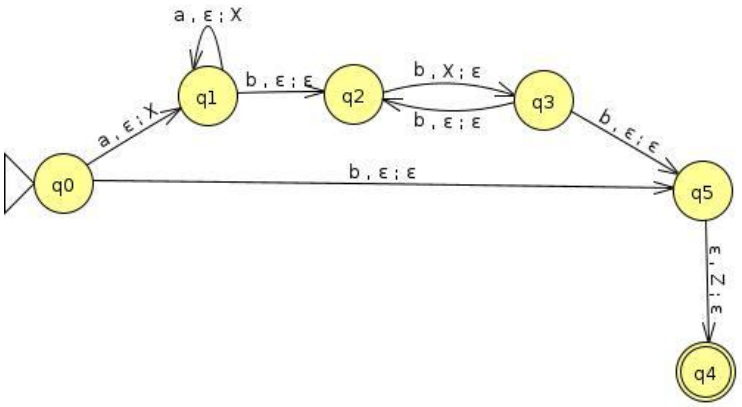
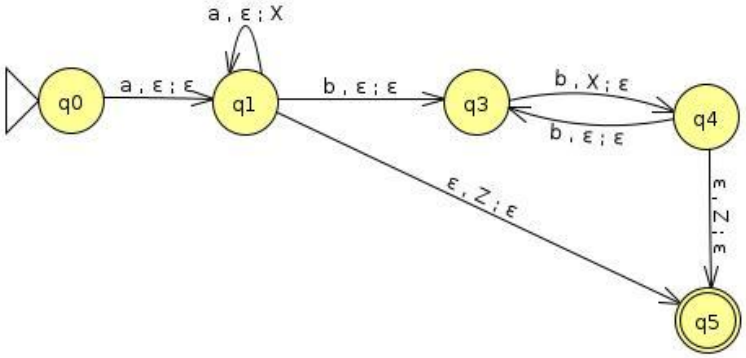
1. Construa Autômatos de Pilha que reconheçam as linguagens abaixo.
    a. $L = a^n b^{2n} / n >= 0$



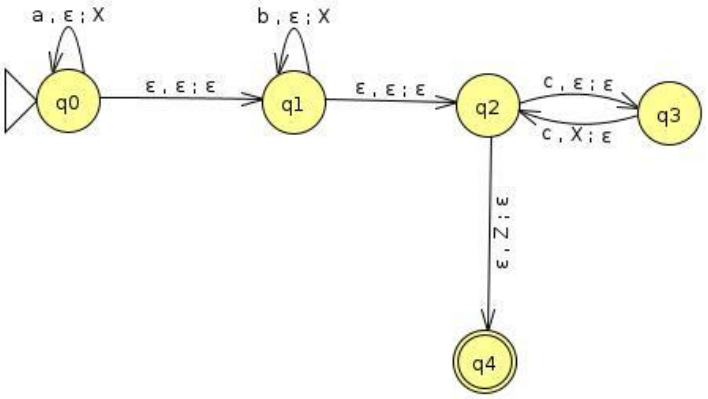
    b. $L = a^n b^{2n+1} / n >= 0$



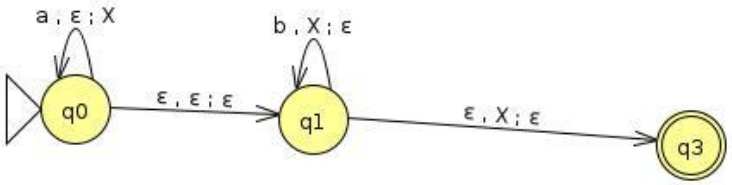
    c. $L = a^{n+1} b^{2n} / n >= 0$



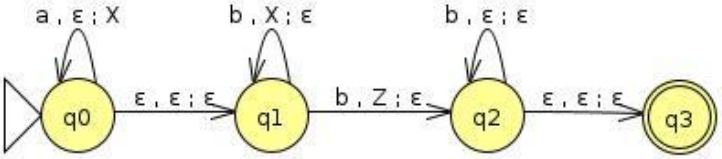
d. $L = a^n b^m c^{2(m+n)} / n,m >= 0$



e. $L = a^n b^m / n > m$ e $n,m >= 0$



f. $L = a^n b^m / n < m$ e $n,m >= 0$



2. Quais as 3 primeiras palavras que esse linguagem gera
    a. $L = a^n b^{2n} / n >= 0$
        - ε / abb / aabbbb
    b. $L = a^n b^{2n+1} / n >= 0$
        - b / abbb / aabbbbb
    c. $L = a^{n+1} b^{2n} / n >= 0$
        - a / aabb / aaabbbb
    d. $L = a^n b^m c^{2(m+n)} / n,m >= 0$
        - ε / acc / bcc
    e. $L = a^n b^m / n > m$ e $n,m >=0$
        - a / aa / aaa
    f. $L = a^n b^m / n < m$ e $n,m >=0$
        - b / bb / bbb