Linguagens Formais e Autômatos

Ciência da Computação

UFFS

Atividade orientada semana 12

Docente: BRAULIO MELLO

Discente: JARDEL DUARTE

Objetivo: Compreender teoremas de simplificação de GLC (Fatoração).

Enunciado Fatore as GLCs a seguir:

a)
~~S ::= 1A0 | 1B1~~
~~A ::= 1A0 | 100~~
~~B ::= C10 | C01~~
~~C ::= 11C | 11D~~
~~D ::= 10 | 11~~

S ::= 1S'
~~S'::= A0 | B1~~
A ::= 1A'
A'::= A0 | 00
B ::= CB'
B ::= 10 | 01
C ::= 11C'
~~C' ::= C | D~~
D ::= 1D'
D'::= 0 | 1

S ::= 1S'
~~S' ::= 1A'0 | CB'1~~
~~S' ::= 1A'0 | 11C'B'1~~
S' ::= 1S''
S''::= A'0 | 1C'B'1
~~C'::= 11C' | 1D'~~
C'::= 1C''
C''::= 1C' | D'

b)
~~S ::= 10D | 11C | 0B~~
~~B ::= 1CD | 101B | 01~~
~~C ::= 101C | 1B0 | 00~~
~~D ::= 00B | 011D | 110~~

S::= 0B | 1S'
S'::= 0D | 1C
B::= 01 | 1B'

~~B'::= CD | 01B~~
~~B'::= 1C'D | 00D | 01B~~
B'::= 1C'D | 0B''
B''::= 0D | 1B
C::= 1C' | 00
~~C'::= 01C | B0~~
~~C'::= 01C | 010 | 1B'0~~
C'::= 01C'' | 1B'0
~~C''::= C | 0~~
~~C''::= 1C' | 00 | 0~~

C’’::= 1C’ | 0C’’’
C’’’::= 0 | ε
D::= 0D’ | 110
D’::= 0B | 11D