VINICIUS MESQUINI 0093/19

Exercício 1: Qual a gramática regular que representada pelas seguintes expressões regulares.

a) $a*b*$

G= ({S,A,B}, {a, b}, P, S)

P:

S -> AB.

A-> a | aA | vazio

B-> b | bB | vazio

b) $(a+b)*$ **= aaa ou bbb**

G= ({S,A,B}, {a, b}, P, S)

P:

S -> AB.

A-> aA | aB | vazio

B-> bB | bA | vazio

c) $a(a+b)*b$ **= aaab**

G= ({S,A,B}, {a, b}, P, S)

P:

s -> AB

A -> aA|AB|vazio

B -> b

d) $a*ba*ba*$ **= bb ou ababa**

G= ({S,A,B}, {a, b}, P, S)

P:

s -> AB

A -> a|BA|aA|vazio

B -> bA

e) $(a+b)*(aa+bb)$

G= ({S,A,B}, {a, b}, P, S)

P:

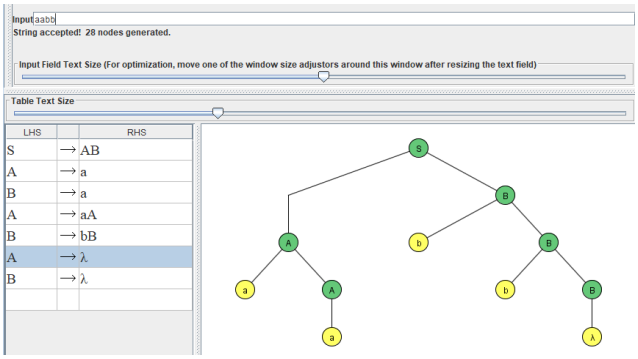
s -> AB

A -> aA|aa|vazio

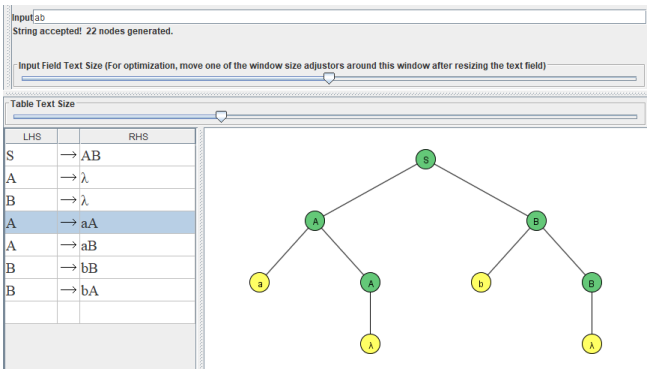
B -> bB|bb|vazio

Exercício 2: Teste as gramáticas regulares criadas no exercício anterior no JFLAP.

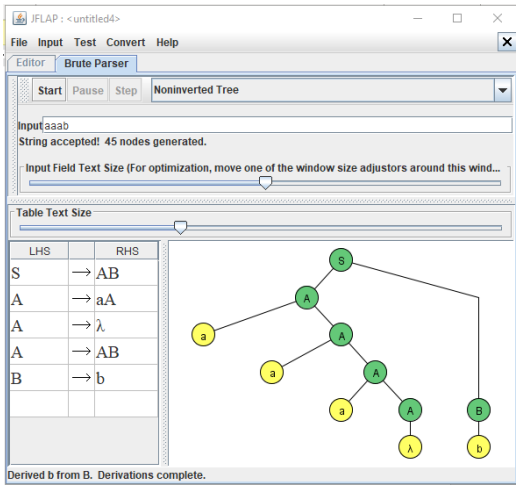
a) $a*b*$



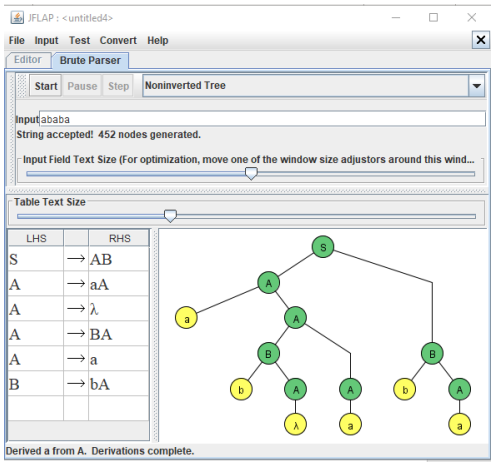
b) $(a+b)*$



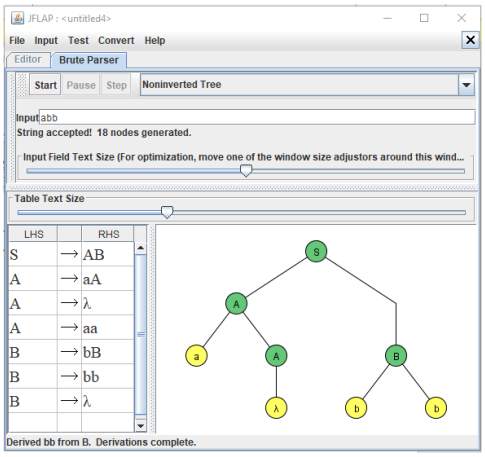
c) $a(a+b)*b$



d) $a*ba*ba*$



e) $(a+b)*(aa+bb)$



Exercício 3: Teste a gramáticas abaixo no JFLAP

$$P = \begin{Bmatrix} S \longrightarrow Dig \\ Dig \longrightarrow 0Dig|1Dig| \ldots |9Dig|0|1|2| \ldots |9 \end{Bmatrix}$$