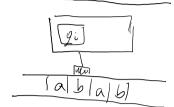
Thursday, April 29, 2021 11:20 AM

Elato dron: CYK

Veren automatal



LIFC

Veren automater: A = (2, Q, T, 5, 70, 20, T)

- · Z: Veremerindoluma Calmora
- · Q : allapot & Colmona
- · T: imput gimbolumo Elalmoss
- · Zo. Eegdő veremszinisolum
- · 20 ? Readbollapot
- · F C Q: elfogado alla poto l'ul mor
- $\delta: 2 \times Q \times (T \cup \{\epsilon\}) \gg 2^{* \times Q}$

Konfiguoció egy A verementomata egy configuraciója egy styon [ug] so, ahol u E 2*, g e Q

Körvetlen lèpès: A renementamenta (va) $g \in Q$ d'elapotan van és $x \in T$ input sainbolument olvas, $q \in T$ van a verem tetejém $S(t,g,x) = \{(u,p_1),...,(u,p_n)\}$ $p \in Q$ $S(t,g,\xi) = \{...,Z\}$ (epallon atment)

Reducció: $A = (2, 2, T, 5, 20120, F) \times 13 \in 2^{+}QT^{*}$ ascor A or A + 3 stora reducciógia (Exavetlemie) X = > 3 C_{Q} A on d+1 3-stora reducedly (convertence) $\alpha=>3$ by $\lambda=\sqrt{120}$ w $\beta=\sqrt{100}$ $\lambda=\sqrt{100}$ $\lambda=\sqrt{100}$

Elfogado allapottal alfogadott myelv

L(A) = { UE T* | 4020U => VP, VET* PE = }

Thes renemmel elfogadott myel

N(A) = {uET* | 2020 u = 2-p , PEQ }

(PG) $L = \{a^m b^m \mid m \ge 1\}$ pl. aabb, aaabbb \sqrt{abb} abb, aab X

 $\Rightarrow \underbrace{g_{2}}(a,b) \Rightarrow \underbrace{\varepsilon}(a,b) \Rightarrow \underbrace{\varepsilon}(a,b)$

 $(\#_{a}) > \#a$ $(a_{1}b) \rightarrow \xi$ $(a_{2}a) > aa$

S(#,20, a) = (#a,20)S(a,20, a) = (aa,20) $S(a,20, b) = (\varepsilon,21)$ $S(a,21,b) = (\varepsilon,21)$ $S(\varepsilon,21,\varepsilon) = (\varepsilon,21)$ $S(\varepsilon,21,\varepsilon) = (\varepsilon,21)$ $\varepsilon = (\v$

 $\frac{\text{coabbb}}{\text{define}} = \frac{1}{2} \left(\frac{1}{2} \right)^{2} \left(\frac{1}{1} \right$

plz L= 2 4 cu-1 4 ue 2 a 16 5+5

$$(\#, \alpha) \rightarrow \# \alpha$$

$$(#, 6) \rightarrow #6$$

$$(a,c) \rightarrow a$$

$$(a, a) \rightarrow \xi$$

#go abba
$$\Rightarrow$$
 #abo bo a \Rightarrow #ab go bo \Rightarrow #abba go \Rightarrow \Rightarrow #abba go \Rightarrow

#20 alba => #a 20 lba => # ab 20 ba => # an 20 a >>
$$= 42.8 = 42.8$$

Konnyeretfüggetlen grommatical reducillos

- Atti, inactiv nemterminalisez: egy nemterminalis aztiv he 1-----

Cercretheto belole terminolis no, eggeblent insetil

- Elenheto, men elenheto meneterminalisas: egy meneterminalisas elenheto, mene elenheto ha a stantarimbolumbol berendheto, egyelbrent mem ciheto el
- Harmos, nem Coramos menterminolis: egy nemterminolis loramos la artir els electros, egyebreant nem loramos

Reducalt congresofriggetlen geommatice: ha t memterminolise lognes V

Reducidos expesses: G=(N,T,P,S)

A) Activ menuterminolisor mugliotatorals $A_{\Lambda} = \{ X \mid X \rightarrow u \in P , u \in T^* \}$ $A_{\lambda+\lambda} = A_{\lambda} \cup \{ X \mid X \rightarrow w \in P , w \in (T \cup A_{\lambda})^* \}$ $A_{\lambda+\lambda} = A_{\lambda} \cup \{ X \mid X \rightarrow w \in P , w \in (T \cup A_{\lambda})^* \}$ $A_{\lambda+\lambda} = A_{\lambda} = A_{\lambda}$

2) Eléntető meneterminolisek meglestálopása R, = [5]

Ritz=Riu{Y | X > uYw EP, XERi ju,we(NUT)*}

- 2) Elloggune minden olyon 3 membernimolist, amelyse
 3 & ANR
 - 4) Folytatjue an egiolost...
- (pl) S-> or A c/ Ab.

$$A \rightarrow \alpha C3b | \mathcal{E} | \alpha D$$

$$3 \rightarrow DA | bb 3C$$

$$C \rightarrow \alpha DC$$

$$D \rightarrow b CA | b | \mathcal{E}$$

A)
$$A_{\Lambda} = \{A, D\}$$

 $A_{2} = \{A, U\} \{S, B\} = \{A, B, D, S\}$
 $A_{3} = \{A, B\} = \{A, B, D, S\}$

2)
$$R_{1} = \{5\}$$

 $R_{2} = R_{1} \cup \{5\} = \{5\}, A\}$
 $R_{3} = R_{2} \cup \{3\}, C_{1} \in \{5\}, A\}$

3)
$$A \cap R = \{A, 3, 0, 5\}$$

$$S \rightarrow aA_{c} \mid Ab$$

$$b \in T^{*}$$

$$A \rightarrow \sum_{b} |aD$$

$$3 \rightarrow DA$$

$$D \rightarrow b \mid \sum_{b} |aD$$

$$A \rightarrow b \mid \sum_{b} |aD$$

4.1)
$$A_{\Lambda} = \{A, D\}$$

 $A_{2} = A_{\Lambda} \cup \{S, 3\} = \{A, S, D, S\} = A\}$

4.2)
$$R_{1} = \{S\}$$

 $R_{2} = \{A\} \cup R_{1} = \{A, S\}$
 $R_{3} = R_{2} \cup \{D\} = \{A, D, S\}$
 $R_{4} = R_{3} = \{R_{2} = \{A, D, S\}\}$

$$\begin{array}{c}
S \rightarrow aAc|Ab|\\
A \rightarrow E|aD\\
D \rightarrow b|E
\end{array}$$