

Punto 4

considere la siguiente gramática que genera el lenguaje JSON

$\langle \text{objeto} \rangle \rightarrow \{ \langle \text{objeto-aux} \rangle$
 $\langle \text{objeto-aux} \rangle \rightarrow \} \mid \langle \text{string} \rangle : \langle \text{value} \rangle \langle \text{extend-obj} \rangle \}$
 $\langle \text{extend-obj} \rangle \rightarrow , \langle \text{string} \rangle : \langle \text{value} \rangle \mid \lambda$
 $\langle \text{value} \rangle \rightarrow \langle \text{string} \rangle \mid \langle \text{number} \rangle \mid \langle \text{object} \rangle \mid \langle \text{array} \rangle$
 $\mid [\text{true}] \mid [\text{false}] \mid [\text{null}]$
 $\langle \text{array} \rangle \rightarrow [\langle \text{array-aux} \rangle$
 $\langle \text{array-aux} \rangle \rightarrow] \mid \langle \text{value} \rangle \langle \text{extend-array} \rangle]$
 $\langle \text{extend-array} \rangle \rightarrow , \langle \text{value} \rangle \mid \lambda$

FIRST

$\langle \text{objeto} \rangle : \{ \{ \}$
 $\langle \text{objeto-aux} \rangle : \{ \langle \text{string} \rangle, \{ \}$
 $\langle \text{extend-obj} \rangle : \{ \{ \}, \lambda \}$
 $\langle \text{value} \rangle : \{ \{ \}, [\text{true}], [\text{false}], [\text{null}], \langle \text{number} \rangle, \langle \text{string} \rangle, "[\{ \}$
 $\langle \text{array} \rangle : \{ "[[\}$
 $\langle \text{array-aux} \rangle : \langle \text{value} \rangle \cup \{ "[] \}$
 $\langle \text{extend-array} \rangle : \{ \{ \}, \lambda \}$

FOLLOW

$\langle \text{objeto} \rangle : \{ \$, \{ \}, "[]", \{ \}$
 $\langle \text{objeto-aux} \rangle : \langle \text{objeto} \rangle$
 $\langle \text{extend-obj} \rangle : \{ \{ \}$
 $\langle \text{value} \rangle : \{ \{ \}, \{ \}, "[]", "[\}$
 $\langle \text{array} \rangle : \langle \text{value} \rangle$
 $\langle \text{array-aux} \rangle : \langle \text{value} \rangle$
 $\langle \text{extend-array} \rangle : \{ "[] \}$

Esta gramática es LL(1), la tabla de parse está adjunta