

$G = \langle \{E\}, \{+, \times, \text{var}, \text{const}, (, )\}, P, E \rangle$

P:

$E \rightarrow E_1 + E_2$	$\{ \text{IF } E_1.\text{val} = \perp \vee E_2.\text{val} = \perp$ $\text{THEN } E.\text{exp} = E_1.\text{exp} + "+" + E_2.\text{exp}, E.\text{val} = \perp$ $\text{ELSE } E.\text{exp} = \text{aString}(E_1.\text{val} + E_2.\text{val})$ $E.\text{val} = E_1.\text{val} + E_2.\text{val} \}$
$  E_1 \times E_2$	$\{ \text{IF } E_1.\text{val} = \perp \vee E_2.\text{val} = \perp$ $\text{THEN } E.\text{exp} = E_1.\text{exp} + "x" + E_2.\text{exp}, E.\text{val} = \perp$ $\text{ELSE } E.\text{exp} = \text{aString}(E_1.\text{val} \times E_2.\text{val})$ $E.\text{val} = E_1.\text{val} \times E_2.\text{val} \}$
$  \text{var}$	$\{ E.\text{exp} = \text{var}.\text{text}, E.\text{val} = \perp \}$
$  \text{const}$	$\{ E.\text{exp} = \text{aString}(\text{const}.\text{val}), E.\text{val} = \text{const}.\text{val} \}$
$  (E_1)$	$\{ E.\text{exp} = "(" + E_1.\text{exp} + ")", E.\text{val} = E_1.\text{val} \}$

Símbolo	Atributo	Tipo de atributo	Tipo de valor
E	exp	sintetizado	string
E	val	sintetizado	bool   $\perp$