

## Ejercicio 1

$$\left\{ \begin{array}{l} S \rightarrow L \\ L \rightarrow \underline{\text{num}}, L' \\ L \rightarrow \underline{\text{num}} \end{array} \right. \quad \left\| \quad \begin{array}{l} S.\text{min} = L.\text{min} \\ S.\text{max} = L.\text{max} \\ L.\text{min} = \min(\underline{\text{num}}, L'.\text{val}) \\ L.\text{max} = \max(\underline{\text{num}}, L'.\text{val}) \\ L.\text{val} = \underline{\text{atoi}}(\underline{\text{num}}.\text{lex}) \end{array} \right.$$

## Ejercicio 2

$$\left\{ \begin{array}{l} N \rightarrow NB | B \\ B \rightarrow 0 | 1 \end{array} \right. \rightarrow \left\{ \begin{array}{l} N \rightarrow N, B \\ N \rightarrow B \\ B \rightarrow 0 \\ B \rightarrow 1 \end{array} \right. \quad \left\| \quad \begin{array}{l} N_{S,V} = 2 \times N_{B,V} + B.V \\ N_{S,V} = B.V \\ B.V = 0 \\ B.V = 1 \end{array} \right.$$

$$\therefore "1101" \rightarrow 2^3 \cdot 1 + 2^2 \cdot 1 + 2^0 \cdot 1 = 13$$

