$$L_E(P) = \{w \in \{(,)\}^* \mid w \text{ is balanced}\}$$

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Word
$$w=$$
 (() (())) () Stack $\alpha=$ ($[Z \to (Z]$ ($[(\to (C]) \to e]$ $P=$ e $[Z \to e]$

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Word
$$w = ((()) (())) ()$$
Stack $\alpha = \boxed{ ([Z \rightarrow (Z] \\ ([(\rightarrow (([Z \rightarrow \epsilon] \\ P = \epsilon [Z \rightarrow \epsilon])$

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Stack $\alpha = \boxed{ ([Z \rightarrow (Z] \\ ([(\rightarrow (([Z \rightarrow \epsilon] \\ P = e [Z \rightarrow \epsilon])])])) } ())$

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$$w = (() () ()) ()$$
Stack $\alpha =$

$$([Z \rightarrow (Z] \\ ([(\rightarrow ((] \\) [(\rightarrow \epsilon] \\ P = \epsilon [Z \rightarrow \epsilon])$$

$$\text{start } [Z] \longrightarrow q_0$$

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$$w = (() (())) ()$$
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 $)) [(\rightarrow \epsilon] \\ P = ([Z \rightarrow \epsilon])])$

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$$w = (() () ())) ()$$
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Word
$$w = (() (())) ()$$
Stack $\alpha = \boxed{ \boxed{ \boxed{ [Z \rightarrow (Z] \\ ([(\rightarrow (C] \\) [(\rightarrow \epsilon] \\ F = \boxed{ e [Z \rightarrow \epsilon] }) }}$

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$$\text{Stack } \alpha = \boxed{ ([Z \to (Z] \\ ([(\to ((] \\) [(\to \epsilon] \\ P = e [Z \to \epsilon])] }$$

$$\text{start } [Z] \xrightarrow{q_{0}}$$

$$(()(()))() \in L_{F}(P)!$$