Right Linear Grammar

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Definition G = \{V, \Sigma, S, P\}

V: a finite set of variable

\Sigma: a finite set of letters \Sigma \cap V = \emptyset

S \in V the start symbol

P: finite set of productions of the function

A \to xB and A \to x where A, B \in V and x \in \Sigma^*

\mathcal{L}(G) = \{w \in \Sigma^* \mid s \Rightarrow w\} =

Example V = \{S\}, \Sigma = \{a, b\}, P = \{S \to abS, S \to a\}

Start with S \Rightarrow abS \Rightarrow ababS \Rightarrow \cdots

\mathcal{L}(G) = \mathcal{L}((ab)^*a)

Theorem \forall G, \mathcal{L}(G) \in \mathcal{R}

Given G, contruct a GFG with state V \cup \{f\}, \Sigma, q_0 = S, F = \{f\}

\delta: for each production, A \to xB add an edge from A to B labelled by x for each production, A \to x add an edge from A to B labelled by x
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