

tut4

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1 Discussion

1.1 CFG

Context-free grammars have rules, terminals, variables in comparison to a regular language.

- $\text{Program} \rightarrow \epsilon \mid \text{Inst}; \text{Program}$
- $\text{Instruction} \rightarrow \mid \text{Assignment} \mid \text{if-else} \mid \text{While}$
- $\text{Assignment} \rightarrow \text{Variables} = \text{Arith Exp}$
- $\text{Variables} \rightarrow x \mid y \mid z \mid \dots$
- $\text{Arith Exp} \rightarrow \text{Variables} \mid \text{Number} \mid (\dots) \mid (\dots + \dots) \mid (\dots * \dots) \mid \dots$

2 CFG

