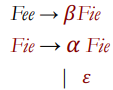
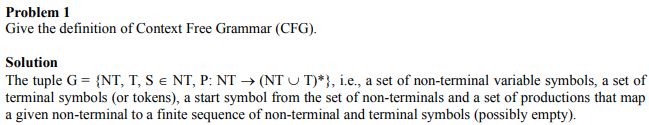


**Thompson’s Construction:**



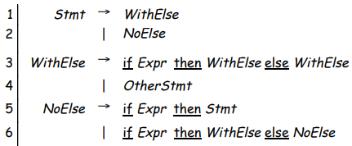
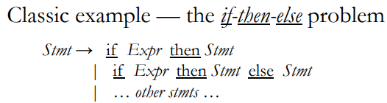
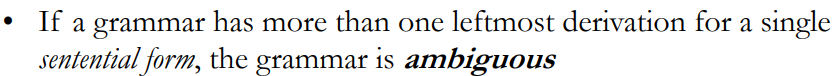
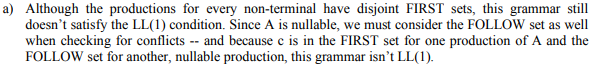
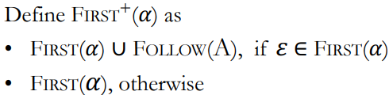
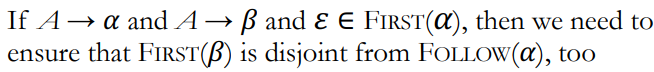
**Eliminating Left Recursion:**

**=>**

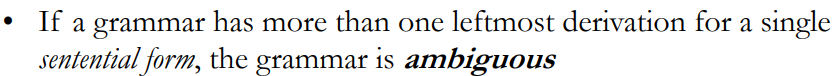


**Context Free Grammar (CFG) Definition:**

**LL(1):**



/

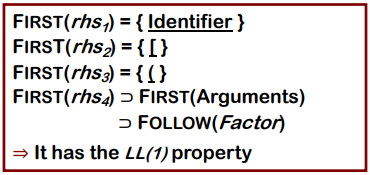
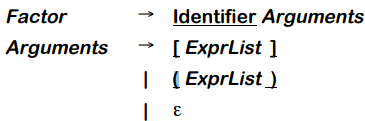
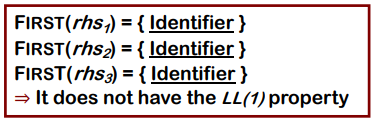


**LL parsing (predictive parsing):**

* We write each production N -> α in row N, column t for each t ∈ FIRST(α)
* If α is nullable, we write in row X, column t for each t ∈ FOLLOW(x)
* It is only LL(1) if each table entry has 0 or 1 rules

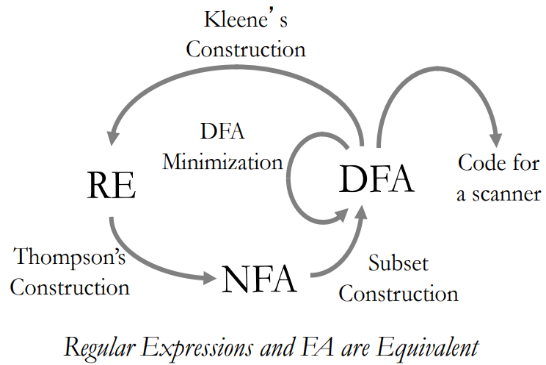
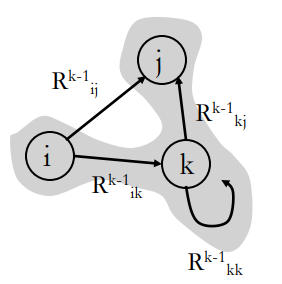
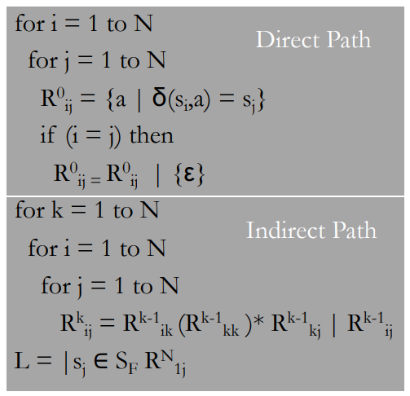
**Left Factoring:**

**=>**



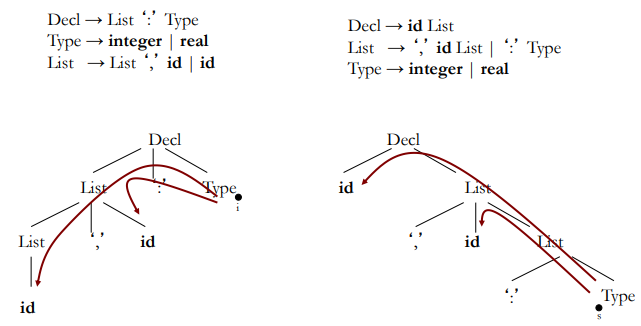
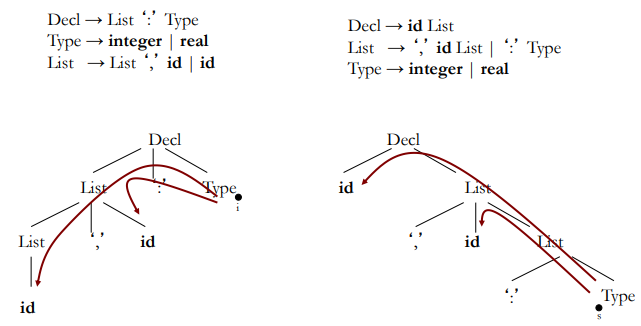
**Embedded Actions:**

**Kleene Construction:**



Text, letter

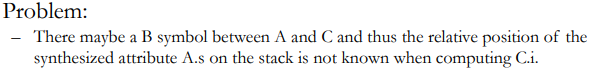
Description automatically generated



**Replacing Inherited with Synthesized Attrib.:**

Text

Description automatically generatedDiagram, schematic

Description automatically generated

**Inherited Attributes:**

A picture containing diagram

Description automatically generatedGraphical user interface, text

Description automatically generatedDiagram

Description automatically generatedGraphical user interface, text, application

Description automatically generated

