Ambiguous Grammar

$E \rightarrow E+E \mid E*E \mid id$

(1) $w = id + id$

LMD

$E \rightarrow E + E$

$\rightarrow id + E$

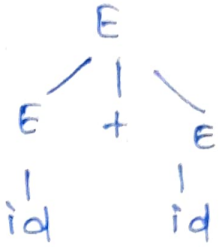
$\rightarrow id + id$

RMD

$E \rightarrow E + E$

$\rightarrow E + id$

$\rightarrow id + id$



(2) $w = id + id + id$

LMD 1

$E \rightarrow E + E$

$\rightarrow id + E$

$\rightarrow id + E + E$

$\rightarrow id + id + E$

$\rightarrow id + id + id$

LMD 2:

$E \rightarrow E + E$

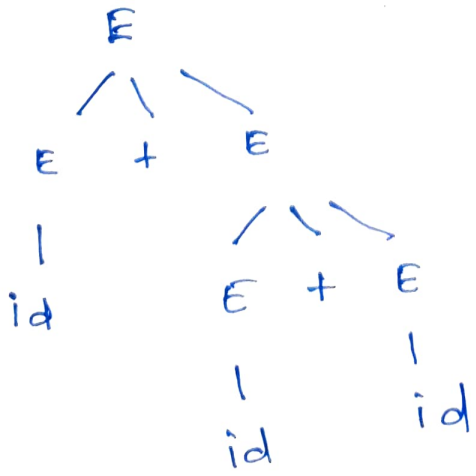
$\rightarrow E + id$

$\rightarrow E + E + id$

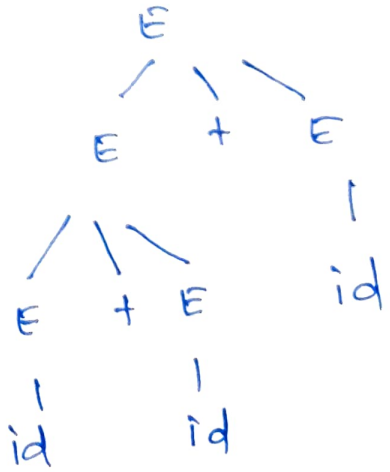
$\rightarrow id + id + id$

$\rightarrow id + id + id$

Tree:



Tree:



Two LMD (or) two parse tree of ~~same~~ two representation of LMD for id+id+id

Unambiguous Grammar:

$E \rightarrow E + T$

$E \rightarrow T$

$T \rightarrow T * F$

$F \rightarrow id$

Now $\omega = id + id + id$

$E \rightarrow \underline{E} + T$

$\rightarrow \underline{E} + T + T$

$\rightarrow \underline{T} + T + T$

$\rightarrow \underline{F} + T + T$

$\rightarrow id + \underline{T} + T$

$\rightarrow id + \underline{F} + T$

$\rightarrow id + id + \underline{T}$

$\rightarrow id + id + id$