

## Handle pruning:

→ "Handle" is a string of substring that matches the right side of the production and we can reduce such string by a

Non-terminal on left hand side production

→ "Handle" of right sentential form<sup>α</sup> is production of  $\beta$  where the string  $\beta$  may be found & replaced by  $A$  to produce the previous right sentential form in RMD of  $\beta$ .

$$E \rightarrow E + E$$

$$E \rightarrow id$$

id + id + id in RMD.

$$E \xRightarrow{rm} E + E$$

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~~$$E \Rightarrow E + E + E + E$$~~

~~$$E \Rightarrow id + id + id$$~~

$$E \xRightarrow{rm} E + E + id$$

$$E \xRightarrow{rm} E + id + id$$

$$\boxed{E \Rightarrow id + id + id}$$

Right sentimental form

$id + id + id.$

$E + id + id$

$E + E + id$

$E + E + E$

$E + E$

$E \rightarrow \text{Root.}$

Handle

$id$

$id$

$id$

$E + E$

$E + E$

production.

$E \rightarrow id.$

$E \rightarrow id.$

$E \rightarrow id.$

$E \rightarrow E + E$

$E \rightarrow E + E$