2/6/23, 10:00 AM Example



## 8.4. Example

Let's build the top-down parsing table for the following grammar, with start nonterminal L.

$$1.L \rightarrow \varepsilon$$

$$2.L \rightarrow N$$

$$3. N \rightarrow ER$$

$$4.R \rightarrow \varepsilon$$

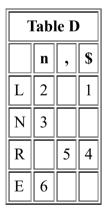
$$5.R \rightarrow , N$$

$$6.E \rightarrow \mathbf{n}$$

The FIRST and FOLLOW sets are easy to compute, using the algorithms from the two preceding sections.

X	L	N	R	E
FIRST(X)	$\{\mathbf{n}, \boldsymbol{\varepsilon}\}$	{ <b>n</b> }	{,, ε}	{ <b>n</b> }
FOLLOW(X)	<b>{\$</b> }	<b>{\$</b> }	<b>{\$</b> }	<b>{,, \$</b> }

The parsing table is as follows.



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Top/Top-down parsing/Example