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. $N \rightarrow E\,R$
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)	$\{\mathbf{n}, \varepsilon\}$	$\{\mathbf{n}\}$	$\{,, \varepsilon\}$	$\{\mathbf{n}\}$
FOLLOW(X)	$\{\$\}$	$\{\$\}$	$\{\$\}$	$\{,, \$\}$

The parsing table is as follows.

Table D			
	n	**,**	**$**
L	2		1
N	3		
R		5	4
E	6		