

8.4. Example

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

1. $L \rightarrow \epsilon$
2. $L \rightarrow N$
3. $N \rightarrow E R$
4. $R \rightarrow \epsilon$
5. $R \rightarrow , N$
6. $E \rightarrow n$

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

X	L	N	R	E
FIRST(X)	{ n , ϵ }	{ n }	{ , , ϵ }	{ n }
FOLLOW(X)	{ \$ }	{ \$ }	{ \$ }	{ , , \$ }

The parsing table is as follows.

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