

Consider the following grammar:

1. $Start \rightarrow Value \$$
2. $Value \rightarrow num$
3. $Value \rightarrow lparen Expr rparen$
4. $Expr \rightarrow plus Value Value$
5. $Expr \rightarrow prod Values$
6. $Values \rightarrow Value Values$
7. $Values \rightarrow \lambda$

Build an LL(1) parse table based on the grammar.

$First(Start) = First(Value) = \{num, lparen\}$

$First(Expr) = \{plus, prod\}$

$First(Values) = \{num, lparen, \lambda\}$

$Follow(Start) = \{\lambda\}$

$Follow(Value) = \{\$, num, lparen, rparen\}$

$Follow(Expr) = Follow(Values) = \{rparen\}$

	num	lparen	plus	prod	rparen	\$
Start	1	1				
Value	2	3				
Expr			4	5		
Values	6	6			7	

4. 注意事項:

a. λ 不是terminal

b. parse table 請填 grammar 的編號方便助教批改