E05: Nullable, FIRST, FOLLOW

solutions

E05-1: Solution:

(a) Nullable, FIRST, and FOLLOW:

Nonterminal	Nullable	FIRST set	FOLLOW set
S	false	{ ID, "(" }	∅
T	false	{ ID, "(" }	{ $, ",", ")"}
L	false	{ ID, "(" }	{ ")" }
R	true	{ "," }	{ ")" }

(b) **LL(1) table:**

	ID	"("	")"	","	$
S	p1	p1			
T	p2	p3			
L	p4	p4			
R			p6	p5	

(c) Yes, the grammar is LL(1) since there are no conflicts in the table: each table element contains at most one production.