EDAN65: Compilers Computer Science Lund University

October 17, 2016

E05: Nullable, FIRST, FOLLOW

solutions

E05-1: Solution:

(a) Nullable, FIRST, and FOLLOW:

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

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

	ID	"("	")"	","	\$
S	p1	p1			
Т	p2	рЗ			
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.