

0 3 4 7 3 (L, ( a)) \$ shift to 2

0 3 4 7 3 \* (L, (a)) \$ reduce by S → a

0 3 4 7 3 (L, (S)) \$ ~~goto 5~~

0 3 4 7 3 \* (L, (S)) \$ reduce by L → S

0 3 4 7 3 (L, (L)) \$ ~~goto 4~~

0 3 4 7 3 4 (L, (L)) \$ shift to 6

0 3 4 7 \* \* \* (L, (L)) \$ reduce by S → (L

0 3 4 7 \* (L, (S)) \$ ~~goto 8~~

0 3 \* \* \* (L, (S)) \$ reduce by L → L

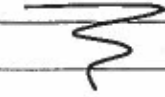
0 3 (L) \$ ~~goto 4~~

0 3 4 (L) \$ shift to 6

0 \* \* \* (L) \$ reduce by S → (L

0 S \$ ~~goto 1~~

0 1 S \$ Accept



	FIRST	FOLLOW
S'	( a	\$
S	( a	) , )
L	( a	) , )

$s_i \equiv$  shift to state  $i$

- (0)  $S' \rightarrow S$
- (1)  $S \rightarrow (L)$
- (2)  $S \rightarrow a$
- (3)  $L \rightarrow L, S$
- (4)  $L \rightarrow S$

$r_j \equiv$  reduce by rule  $j$

state	Action				Goto		
	(	)	,	a	\$	L	S
0	s3			s2			1
1					Acc		
2		r2	r2		s2		
3	s3			s2		4	5
4		s6	s7				
5		r4	r4				
6		r1	r1		r1		
7	s3			s2			8
8		r3	r3				

Corrected

Exercise # 4.6.4 (e)

Grammar:

$S' \rightarrow S$   
 $S \rightarrow (L) \mid a$   
 $L \rightarrow L, S \mid S$

string:

$((a, a), a, (a))$

Items:

$S' \rightarrow \cdot S$	$L \rightarrow \cdot L, S$
$S' \rightarrow S \cdot$	$L \rightarrow L \cdot, S$
$S \rightarrow \cdot (L)$	$L \rightarrow L, \cdot S$
$S \rightarrow ( \cdot L )$	$L \rightarrow L, S \cdot$
$S \rightarrow ( L \cdot )$	$L \rightarrow \cdot S$
$S \rightarrow ( L ) \cdot$	$L \rightarrow S \cdot$
$S \rightarrow \cdot a$	
$S \rightarrow a \cdot$	

