1.2

	0,9	a..z	_
→ {0}	{2}	{1}	{4}
* {1}	{3}	{1}	{3}
{2}	{2}	{2}	∅
* {3}	{3}	{3}	{3}
{4}	{2}	{1}	{4}

1.3

	%t==0	%z==1	L,t	A,K	a,t	A,t	0,9
→ {0}	{2}	{1}	∅	∅	∅	∅	∅
{1}	{2}	{1}	{4}	∅	∅	∅	∅
{2}	{2}	{2}	∅	∅	∅	∅	∅
* {3}	∅	∅	∅	∅	{3}	{3}	{5}
* {4}	∅	∅	∅	∅	{4}	{4}	{5}
{5}	∅	∅	∅	∅	{5}	{5}	{5}

1.7

	%t==0	%z==1	L,t	A,K
→ {0}	{2}	{1}	∅	∅
{1}	{2}	{1}	{4}	∅
{2}	{2}	{2}	∅	{3}
* {3}	∅	∅	∅	∅
* {4}	∅	∅	∅	∅
{5}	∅	∅	∅	∅
{6}	∅	∅	{4}	{3}

1.4

	0,9	e	+/-	.
→ {0}	{2}	{8}	{2}	{3}
* {1}	{2}	{4}	∅	{6}
{2}	{2}	∅	∅	{3}
{3}	{4}	{0}	∅	∅
{4}	{5}	∅	{2}	∅
* {5}	{2}	{8}	∅	∅
{6}	{3}	∅	∅	∅
* {2}	{2}	∅	∅	{8}
{8}	{8}	{8}	{8}	{8}

1.5

	a	*	/
→ {0}	{0}	∅	{2}
{1}	∅	{2}	{2}
{2}	{2}	{3}	{2}
{3}	{2}	{3}	{4}
* {4}	{4}	∅	∅

1.6

	a	*	/
→ {0}	{4}	{4}	{2}
{2}	{4}	{2}	{2}
{2}	{2}	{3}	{2}
{3}	{2}	{3}	{4}
* {4}	{4}	{4}	{2}

1.8

	%t==0	%z==1
→ {0}	∅	∅
{1}	∅	∅
{2}	{5}	{6}
{3}	{5}	{6}
* {5}	{5}	{6}
* {6}	{3}	{6}

3.1 First(S) = First(E) = {(, NUM}

First(E) = First(T) = {(, NUM}

First(EP) = {+, -}

First(T) = First(F) = {(, NUM}

First(TP) = {*, /}

First(F) = {(, NUM}

3.2 First(<prog>) = First(<SLP>) = {;} NULL

First(<SL>) = First(<S>) = {read, for, if, assign, print, ;}

First(<SLP>) = {;} NULL

First(<S>) = {read, assign, print, for, if, {}

First(<A>) = {[}

First(<AP>) = {[}

First(<I>) = {ID}

First(<IP>) = {,}

First(<B>) = {RELOP}

First(<E>) = {+, -, *, /, NUM, ID} NULL

First(<EL>) = First(<E>)

First(<ELP>) = {,} NULL NULL

Follow(S) = EOF

Follow(E) = Follow(T) = First(EP)

Follow(EP) = Follow(E)

Follow(T) = Follow(E)

Follow(TP) = First(EP)

Follow(F) = First(TP)

Follow(T) = Follow(TP)

Follow(F) = Follow(T)

Follow(E) = Follow(TP)

Follow(E) =)

Follow(SL) = EOF

Follow(S) = First(SLP)

Follow(SLP) = Follow(SL)

Follow(S) = Follow(SL)

Follow(S) = Follow(SLP)

Follow(A) = Follow(S)

Follow(EL) =)

Follow(I) =)

Follow(S) = First(A')

Follow(B) =)

Follow(S) = Follow(A)

Follow(S) = end

Follow(SL) = }

Follow(E) = ko

Follow(I) =]

Follow(AP) = Follow(A)

Follow(IP) = Follow(T)

Follow(E) = First(E)

Follow(E) = Follow(B)

Follow(ELP) = Follow(EL)

Follow(E) = First(ELP)

Follow(E) = Follow(EL)

Follow(E) = Follow(ELP)

Follow(A) = Follow(S)

Follow(A') = Follow(S)

Follow(E) = ;

S = {$}

E = {EOF,)}

EP = {EOF,)}

T = {+, -, EOF,)}

TP = {+, -, EOF,)}

F = {*, /, +, -, EOF,)}

SL = {EOF, }}

SLP = {EOF, }}

S = {;, end, EOF, }, else}

A = {;, end, EOF, }, else}

AP = {;, end, EOF, }, else}

I = {),]}

IP = {),]}

B = {)}

E = {;, ko, +, -, *, /, NUM, ID,],)}

EL = {)}

ELP = {)}

R = {;, end, EOF, }, else}

R' = {;, end, EOF, }, else}

GUIDA

S1 if(> x y) print(x) else print(y) end

<prog> | go to L0 -> L0: Return

<SL> EOF

<S> <SLP> -> ε

if(B) <S> <S'>

RELOP <E> <E>

> x y

print(<EL>) | invoke

else <S> end | go to end | FALSE: | go to end

print(<EL>) | invoke static print

Read(x,y), print(x,y)

<prog> go to L0 -> L0: Return

<SL> EOF

<S> <SLP>

Read(<I>)

ID <IP>

x , ID <IP>

print(<EL>) | invoke static print

<E> <EL>

x , <E> <EL>