Man Tik Li CS 360 Krzysztof Nowak August 2, 2020

Assignment 2

Theory Part

•					
1.	(i)Variables:				
	C - Constant	oct - digit			
	int - Const	honzero – digit			
	oct - Const	dec - digit			
	dec - int	hex - digit			
	hex - int	u – Suffix			
	int - Suffix	L - Suffix			
	hex - fp	M - Suffix			
	exporent	dec - fp			
- 0	1	above describing the number 1, decimal, hex, etc.			
	C-const -> int-const				
	-> (dec_int) int_suffix				
	-> nonzero.digit dec_digit * int_suffix				
	-> 1 dec_digit * int_suffix				
	→ 10 e				
	→10€				
	The state of the s				

1.

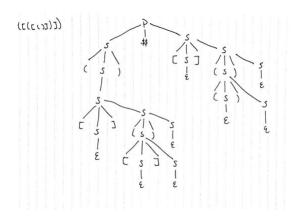
LL(I) parses left; left to right and right most derivation.
I's for one input symbol. & production 18 means empty string

L	L (1)	
P	->	Ś	\$\$
	->		
3	->	[s]	5
9	-	6	

Simple IR Parses L mans reads the input symbol from left to right and R means Right mod derivation 1 means at refer only one input, it reads from the right side

	First	Follow
8->545	{5\$\$} {\os, st\s}	{s}
23(3) 2		53
S-> s [s]	1005,2025	-63
S→ E		

2.



3. State 0:

$$\begin{array}{l} \underline{id_list} \rightarrow \bullet \ \underline{id_list_tail} \quad \underline{id} \\ \underline{id_list_tail} \rightarrow \bullet \ \underline{id_list_tail} \quad \underline{id} \\ \underline{id_list_tail} \rightarrow \bullet; \end{array}$$

State 1:

$$\begin{array}{l} \underline{id_list_tail} \rightarrow \bullet \ \underline{id_list_tail} \quad \underline{id} \\ \underline{id_list_tail} \rightarrow \bullet \ \underline{id_list_tail} \quad \bullet \ \underline{id} \\ \underline{id_list_tail} \rightarrow \bullet; \end{array}$$

State 2:

$$id_list_tail \rightarrow ; \bullet$$

State 3:

$$id_list_tail \rightarrow id_list_tail id \bullet$$

State 4:

$$Id_list_tail \rightarrow id_list_tail \bullet id$$

State 5:

$$id_list \rightarrow id_list_tail \bullet id$$

State 6:

$$id_list \rightarrow id_list_tail id \bullet$$