

Grammar	First	Follow
1- program -> stmt_seq	If, id, int, float, char	\$
2- stmt_seq -> stmt stmt_seq'	If, id, int, float, char	\$,}
3- stmt_seq' -> stmt_seq 3	if, id, int, float, char, 3	\$, }
4- stmt -> if_stmt assign_stmt ; declare_stmt ;	If, id, int, float, char	if, id, int, float, char, \$,}
5- if_stmt -> if (condition) { stmt_seq' } else_part	If	if, id, int, float, char, \$,}
6- else_part -> else { stmt_seq' } 3	else, 3	if, id, int, float, char, \$,}
7- condition -> exp condition'	(, value, id)
8- condition' -> comp_sign exp 3	<, >, ==, >=, <=, 3)
9- comp_sign -> < > == >= <=	<, >, ==, >=, <=	(, value, id
10- exp -> term exp'	(, value, id	<, >, ==, >=, <=,), ;

11- exp' -> add_op term exp' 3	+, -, 3	<, >, ==, >=, <=,), ;
12- add_op -> + -	+, -	(, value, id
13- term -> factor term'	(, value, id	+, -, <, >, ==, >=, <=,), ;
14- term' -> mul_op factor term' 3	*, /, 3	+, -, <, >, ==, >=, <=,), ;
15- mul_op -> * /	*, /	(, value, id
16- factor -> (exp) value id	(, value, id	*, /, +, -, <, >, ==, >=, <=,), ;
17- declare_stmt -> datatype id x	Int, float, char	;
18- x_stmt -> = exp 3	=, 3	;
19- assign_stmt -> id = exp	Id	;
20- datatype-> int float char	Int, float, char	id

Terminals = if, id, int, float, char, else, (,), <, >, =, <=, >=, ==, value, *, /, +, {, }, ;, \$

	If	id	int	float	char	else	()	<	>	=	<=	>=	==	;	value	*	/	+	-	}	\$
6-	else_part->3	else_part->3	else_part->3	else_part->3	else_part->3	else_part->else{ stmt_seq '}															else_part->3	else_part->3
7-		7					7									7						
8-								Condition'->3	condition'->comp_sign exp	condition'->comp_sign exp	condition'->comp_sign exp	condition'->comp_sign exp	condition'->comp_sign exp	condition'->comp_sign exp								
9-									comp_sign-><	comp_sign->>	comp_sign->=	comp_sign-><=	comp_sign->>=	comp_sign->==								
10-		10					10									10						
11-								exp'-> 3	exp'-> 3	exp'-> 3	exp'-> 3	exp'-> 3	exp'-> 3	exp'-> 3	exp'-> 3				exp'->add_op term exp'	exp'->add_op term exp'		
12-																			add_op-> +	add_op-> -		

[illegible]

