R grammar (ˈ	' is ε):
(0)	START -> CODE
(1)	CODE -> VDECL CODE
(2)	CODE -> FDECL CODE
(3)	CODE -> CDECL CODE
(4)	CODE -> ''
(5)	VDECL -> vtype id semi
(6)	VDECL -> vtype ASSIGN semi
(7)	ASSIGN -> id assign RHS
(8)	RHS -> EXPR
(9)	RHS -> literal
(10)	RHS -> character
(11)	RHS -> boolstr
(12)	EXPR -> T addsub EXPR
(13)	EXPR -> T
(14)	T -> F multdiv T
(15)	EXPR -> lparen EXPR rparen
(16)	T -> F
(17)	F -> id
(18)	F -> num
(19)	FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN rbrace
(20)	ARG -> vtype id MOREARGS
(21)	ARG -> ''
(22)	MOREARGS -> comma vtype id MOREARGS
(23)	MOREARGS -> ''
(24)	BLOCK -> STMT BLOCK
(25)	BLOCK -> ''
(26)	STMT -> VDECL
(27)	STMT -> ASSIGN semi
(28)	STMT -> if lparen COND rparen lbrace BLOCK rbrace ELSE
(29)	STMT -> while lparen COND rparen lbrace BLOCK rbrace
(30)	COND -> COND comp boolstr
(31)	COND -> boolstr
(32)	ELSE -> else lbrace BLOCK rbrace
(33)	ELSE -> ''
(34)	RETURN -> return RHS semi
(35)	CDECL -> class id lbrace ODECL rbrace
(36)	ODECL -> VDECL ODECL
(37)	ODECL -> FDECL ODECL
(38)	ODECL -> ''

	FIRST / FOLLOW t	able							
Nonterminal	FIRST	FOLLOW							
START	{'',vtype,class}	{\$}							
CODE	{'',vtype,class}	{\$}							
VDECL	{vtype}	{\$,vtype,class,return,id,if,while,rbrace							
ASSIGN	{id}	{semi}							
RHS	{literal,character,boolstr,lparen,id,num}	{semi}							
EXPR	{lparen,id,num}	{semi,rparen}							
Т	{id, num}	{addsub,semi,rparen}							
F	{id,num}	{multdiv,addsub,semi,rparen}							
FDECL	{vtype}	{\$,vtype,class,rbrace}							
ARG	{vtype,''}	{rparen}							
MOREARGS	{comma,''}	{rparen}							
BLOCK	{'',vtype,id,if,while}	{return,rbrace}							
STMT	{vtype,id,if,while}	{return,vtype,id,if,while,rbrace}							
COND	{boolstr}	{rparen,comp}							
ELSE	{else,''}	{return,vtype,id,if,while,rbrace}							
RETURN	{return}	{rbrace}							
CDECL	{class}	{\$,vtype,class}							
ODECL	{vtype,''}	{rbrace}							

>> Goto	Kernel	State Closure table Closure
	{START -> .CODE}	START -> .CODE; CODE -> .VDECL CODE; CODE -> .FDECL CODE; CODE -> .CDECL CODE; CODE -> .vtype id semi; VDECL -> .vtype id lparen ARG rparen lbrace BLOCK RETURN rbrace; CDECL -> .class id lbrace ODECL rbrace}
goto(0, VDECL)	{START -> CODE.} {CODE -> VDECL.CODE}	1 {START -> CODE.} 2 {CODE -> VDECL.CODE; CODE -> .FDECL CODE; CODE -> .; VDECL -> .vtype id semi; VDECL -> .vtype id semi; FDECL -> .vtype id lparen ARG rparen lbrace; CDECL -> .class id lbrace ODECL rbrace}
goto(0, CDECL)	{CODE -> FDECL.CODE} {CODE -> CDECL.CODE}	CODE -> FDECL.CODE; CODE -> .VDECL CODE; CODE -> .CDECL CODE; CODE -> .CDECL CODE; CODE -> .vtype id semi; VDECL -> .vtype id lparen ARG rparen lbrace; CDECL -> .class id lbrace ODECL rbrace;
goto(0, class)	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi; FDECL -> vtype.id lparen ARG rparen lbrace BLOCK RETURN rbrace} {CDECL -> class.id lbrace ODECL rbrace}	6 {CDECL -> class.id lbrace ODECL rbrace}
goto(2, VDECL)	{CODE -> VDECL CODE.} {CODE -> VDECL.CODE}	7 {CODE -> VDECL CODE.} 2
goto(2, CDECL)	{CODE -> FDECL.CODE} {CODE -> CDECL.CODE}	3 4
	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi; FDECL -> vtype.id lparen ARG rparen lbrace BLOCK RETURN rbrace} {CDECL -> class.id lbrace ODECL rbrace}	5 6
	{CODE -> FDECL CODE.} {CODE -> VDECL.CODE}	8 {CODE -> FDECL CODE.} 2
	{CODE -> FDECL.CODE} {CODE -> CDECL.CODE}	3 4
	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi; FDECL -> vtype.id lparen ARG rparen lbrace BLOCK RETURN rbrace} {CDECL -> class.id lbrace ODECL rbrace}	5 6 C
goto(4, CODE)	{CODE -> CDECL CODE.} {CODE -> VDECL.CODE}	9 {CODE -> CDECL CODE.}
goto(4, FDECL)	{CODE -> FDECL.CODE} {CODE -> CDECL.CODE}	3
goto(4, vtype)	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi; FDECL -> vtype.id lparen ARG rparen lbrace BLOCK RETURN rbrace} {CDECL -> class.id lbrace ODECL rbrace}	5
goto(5, id)	{VDECL -> vtype id.semi; FDECL -> vtype id.lparen ARG rparen lbrace BLOCK RETURN rbrace; ASSIGN -> id.assign RHS}	10 {VDECL -> vtype id.semi; FDECL -> vtype id.lparen ARG rparen lbrace BLOCK RETURN rbrace; ASSIGN -> id.assign RHS}
goto(6, id)	{CDECL -> class id.lbrace ODECL rbrace}	1 {VDECL -> vtype ASSIGN.semi}
goto(10, lparen)	{FDECL -> vtype id lparen.ARG rparen lbrace BLOCK RETURN rbrace}	13 {VDECL -> vtype id semi.} 14 {FDECL -> vtype id lparen.ARG rparen lbrace BLOCK RETURN rbrace; ARG -> .vtype id MOREARGS; ARG -> .}
goto(11, semi)	{VDECL -> vtype ASSIGN semi.}	ASSIGN -> id assign.RHS; RHS -> .EXPR; RHS -> .literal; RHS -> .character; RHS -> .boolstr; EXPR -> .T; EXPR -> .T; EXPR -> .f multdiv T; T -> .F; F -> .id; F -> .num} VDECL -> vtype ASSIGN semi.}
goto(14, ARG)	{FDECL -> vtype id lparen ARG.rparen lbrace BLOCK RETURN rbrace}	CDECL -> class id lbrace.ODECL rbrace; ODECL -> .VDECL ODECL; ODECL -> .; VDECL -> .vtype id semi; VDECL -> .vtype id lparen ARG rparen lbrace BLOCK RETURN rbrace} FDECL -> vtype id lparen ARG.rparen lbrace BLOCK RETURN rbrace}
4		<pre>19 {ARG -> vtype.id MOREARGS} 20 {ASSIGN -> id assign RHS.}</pre>
goto(15, EXPR) goto(15, literal)		21 {RHS -> EXPR.} 22 {RHS -> literal.}
<pre>goto(15, character) goto(15, boolstr)</pre>		23 {RHS -> character.} 24 {RHS -> boolstr.}
goto(15, T)	{EXPR -> T.addsub EXPR; EXPR -> T.}	EXPR -> T.addsub EXPR; EXPR -> T.} [EXPR -> T.addsub EXPR; EXPR -> T. addsub EXPR; EXPR -> .T; EXPR -> .1paren EXPR rparen; T -> .F multdiv T; T -> .F; F -> .id; F -> .num}
goto(15, F)	{T -> F.multdiv T; T -> F.}	27 {T -> F.multdiv T; T -> F.} 28 {F -> id.}
goto(15, num)	{F -> num.}	20 {F -> num.} 30 {CDECL -> class id lbrace ODECL.rbrace}
goto(17, VDECL)	{ODECL -> VDECL.ODECL}	{ODECL -> VDECL.ODECL; ODECL -> .VDECL ODECL; ODECL -> .FDECL ODECL; ODECL -> .; VDECL -> .vtype id semi; VDECL -> .vtype id lparen ARG rparen lbrace BLOCK RETURN rbrace}
goto(17, vtype)	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi; FDECL -> vtype.id lparen ARG rparen lbrace BLOCK RETURN rbrace}	
goto(19, id)	{ARG -> vtype id.MOREARGS}	STATE STAT
goto(26, EXPR)	{EXPR -> lparen EXPR.rparen}	SEXPR -> T addsub.EXPR; EXPR -> .T addsub EXPR; EXPR -> .T; EXPR -> .lparen EXPR rparen; T -> .F; F -> .id; F -> .num
goto(26, lparen)	{EXPR -> lparen.EXPR rparen}	25 26
goto(26, id)	{F -> id.}	27 28
	{F -> num.}	29
goto(30, rbrace)	{CDECL -> class id lbrace ODECL rbrace.}	38 {CDECL -> class id lbrace ODECL rbrace.} 39 {ODECL -> VDECL ODECL.}
goto(31, VDECL)	{ODECL -> VDECL.ODECL} {ODECL -> FDECL.ODECL}	31 32
goto(31, vtype)	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi; FDECL -> vtype.id lparen ARG rparen lbrace BLOCK RETURN rbrace}	5 GODECL -> FDECL ODECL.}
goto(32, VDECL)	{ODECL -> FDECL ODECL.} {ODECL -> VDECL.ODECL} {ODECL -> FDECL.ODECL}	31 32
goto(32, vtype)	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi; FDECL -> vtype.id lparen ARG rparen lbrace BLOCK RETURN rbrace}	
goto(34, MOREARGS)	{ARG -> vtype id MOREARGS.}	41 {FDECL -> vtype id lparen ARG rparen lbrace.BLOCK RETURN rbrace; BLOCK -> . STMT BLOCK; BLOCK -> . STMT -> . If lparen COND rparen lbrace BLOCK rbrace; VDECL -> . vtype id semi; ASSIGN semi; ASSIGN semi; ASSIGN semi; ASSIGN -> . id assign RHS} 42 {ARG -> vtype id MOREARGS.}
		43 {MOREARGS -> comma.vtype id MOREARGS} 44 {EXPR -> T addsub EXPR.}
		25 26 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26
		27 28
goto(35, num)	{F -> num.}	29 EXPR -> lparen EXPR rparen.}
goto(37, T)		46 {T -> F multdiv T.}
goto(37, id)	{F -> id.}	
goto(41, BLOCK)		47 {FDECL -> vtype id lparen ARG rparen lbrace BLOCK.RETURN rbrace; RETURN -> .return RHS semi}
goto(41, VDECL)	{STMT -> VDECL.}	48 {BLOCK -> STMT.BLOCK; BLOCK -> .STMT BLOCK; BLOCK -> .STMT BLOCK; BLOCK -> .STMT BLOCK; BLOCK -> .vtype ASSIGN semi; ASSIGN -> .id assign RHS} 49 {STMT -> VDECL.}
goto(41, if)	{STMT -> if.lparen COND rparen lbrace BLOCK rbrace ELSE}	STMT -> ASSIGN.semi
goto(41, vtype)	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi}	{STMT -> while.lparen COND rparen lbrace BLOCK rbrace} {VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi; ASSIGN -> .id assign RHS}
goto(43, vtype)	{MOREARGS -> comma vtype.id MOREARGS}	4 [ASSIGN -> id.assign RHS] 5 [MOREARGS -> comma vtype.id MOREARGS]
goto(47, return)	{RETURN -> return.RHS semi}	[FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen BLOCK RETURN.rbrace] [FDECL -> vtype id lparen ARG rparen BLOCK RETURN.rbrace] [FDECL -> vtype id lparen BLOC
goto(48, BLOCK)		58 {BLOCK -> STMT BLOCK.} 48
goto(48, VDECL) goto(48, ASSIGN)	{STMT -> VDECL.} {STMT -> ASSIGN.semi}	49 50
goto(48, if)	{STMT -> if.lparen COND rparen lbrace BLOCK rbrace ELSE}	51 52
goto(48, vtype)	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi}	53 54
goto(50, semi)	{STMT -> ASSIGN semi.}	{STMT -> ASSIGN semi.} {STMT -> if lparen.COND rparen lbrace BLOCK rbrace ELSE; COND -> .COND comp boolstr; COND -> .boolstr}
goto(52, lparen)	{STMT -> while lparen.COND rparen lbrace BLOCK rbrace}	61 {STMT -> while lparen.COND rparen lbrace BLOCK rbrace; COND -> .COND comp boolstr; COND -> .boolstr} 62 {VDECL -> vtype id.semi; ASSIGN -> id.assign RHS}
goto(53, ASSIGN)	{VDECL -> vtype ASSIGN.semi}	11 Total Control Con
goto(55, id)	{MOREARGS -> comma vtype id.MOREARGS}	63 {MOREARGS -> comma vtype id.MOREARGS; MOREARGS -> .comma vtype id MOREARGS; MOREARGS -> .} 64 {FDECL -> vtype id lparen ARG rparen lbrace BLOCK RETURN rbrace.}
goto(57, RHS)	{RETURN -> return RHS.semi}	65 {RETURN -> return RHS.semi}
goto(57, EXPR) goto(57, literal)	{RHS -> literal.}	21 22 23 23 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26
goto(57, character) goto(57, boolstr)	{RHS -> boolstr.}	23 24 25 26 26 26 26 26 26 26
goto(57, lparen)	{EXPR -> lparen.EXPR rparen}	25 26 27 27 28 29 29 29 29 29 29 29
goto(57, id)	{F -> id.}	27
	{STMT -> if lparen COND.rparen lbrace BLOCK rbrace ELSE; COND -> COND.comp boolstr}	STMT -> if lparen COND.rparen lbrace BLOCK rbrace ELSE; COND -> COND.comp boolstr}
goto(60, boolstr) goto(61, COND)	<pre>{COND -> boolstr.} {STMT -> while lparen COND.rparen lbrace BLOCK rbrace; COND -> COND.comp boolstr}</pre>	[COND -> boolstr.] [STMT -> while lparen COND.rparen lbrace BLOCK rbrace; COND -> COND.comp boolstr]
goto(61, boolstr)	{COND -> boolstr.}	67 13
goto(62, assign)	{ASSIGN -> id assign.RHS}	15 69 {MOREARGS -> comma vtype id MOREARGS.}
goto(63, comma)	{MOREARGS -> comma.vtype id MOREARGS}	43 70 {RETURN -> return RHS semi.}
goto(66, rparen)	{STMT -> if lparen COND rparen.lbrace BLOCK rbrace ELSE}	71 {STMT -> if lparen COND rparen.lbrace BLOCK rbrace ELSE} 72 {COND -> COND comp.boolstr}
goto(68, rparen)		73 {STMT -> while lparen COND rparen.lbrace BLOCK rbrace} 73 72
goto(71, lbrace)	{STMT -> if lparen COND rparen lbrace.BLOCK rbrace ELSE}	74 {STMT -> if lparen COND rparen lbrace.BLOCK rbrace ELSE; BLOCK -> .stMT BLOCK; BLOCK -> .stMT -> .if lparen COND rparen lbrace BLOCK rbrace; VDECL -> .vtype id semi; ASSIGN -> .id assign RHS} 75 {COND -> COND comp boolstr.}
goto(73, lbrace)	{STMT -> while lparen COND rparen lbrace.BLOCK rbrace}	(STMT -> while lparen COND rparen lbrace.BLOCK rbrace; BLOCK -> .STMT BLOCK; BLOCK -> .STMT -> .VDECL; STMT -> .vtype id semi; VDECL -> .vtype id semi; ASSIGN semi; ASSIGN -> .id assign RHS}
goto(74, STMT)	{BLOCK -> STMT.BLOCK}	STMT -> if lparen COND rparen lbrace BLOCK.rbrace ELSE}
	{STMT -> ASSIGN.semi}	49 50
goto(74, while)	{STMT -> while.lparen COND rparen lbrace BLOCK rbrace}	51 S
goto(74, id)	{ASSIGN -> id.assign RHS}	53 54
goto(76, BLOCK) goto(76, STMT)	{STMT -> while lparen COND rparen lbrace BLOCK.rbrace} {BLOCK -> STMT.BLOCK}	{STMT -> while lparen COND rparen lbrace BLOCK.rbrace}
goto(76, VDECL) goto(76, ASSIGN)		49 50
goto(76, if)	{STMT -> if.lparen COND rparen lbrace BLOCK rbrace ELSE}	51 52
goto(76, vtype)	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi}	53 S
goto(77, rbrace)	{STMT -> if lparen COND rparen lbrace BLOCK rbrace.ELSE}	79 {STMT -> if lparen COND rparen lbrace BLOCK rbrace: ELSE -> .else lbrace BLOCK rbrace; ELSE -> .}
goto(79, ELSE)	{STMT -> if lparen COND rparen lbrace BLOCK rbrace ELSE.}	STMT -> while lparen COND rparen lbrace BLOCK rbrace.} STMT -> if lparen COND rparen lbrace BLOCK rbrace ELSE.} STMT -> else lbrace BLOCK rbrace BLOCK rbrace.
goto(82, lbrace)	{ELSE -> else lbrace.BLOCK rbrace}	{ELSE -> else.lbrace BLOCK rbrace} {ELSE -> else lbrace.BLOCK rbrace; BLOCK rbrace; BLOCK -> .STMT BLOCK; BLOCK -> .; STMT -> .VDECL; STMT -> .if lparen COND rparen lbrace BLOCK rbrace; VDECL -> .vtype id semi; VDECL
goto(83, STMT)	{BLOCK -> STMT.BLOCK}	84 {ELSE -> else lbrace BLOCK.rbrace} 48
	{STMT -> ASSIGN.semi}	49 50
goto(83, while)		51 52 5
	{VDECL -> vtype.id semi; VDECL -> vtype.ASSIGN semi}	53 54
	[ABBIGN -> Id.aBBIGN RNB]	
goto(83, id)		85 {ELSE -> else lbrace BLOCK rbrace.}
goto(83, id)		85 {ELSE -> else lbrace BLOCK rbrace.}

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85	r ₃₂	r ₃₂										r ₃₂	r ₃	2 r ₃₂		r	32																	

State vtype id semi assign literal character boolstr addsub multdiv lparen rparen num lbrace rbrace comma if while comp else return class \$ START CODE VDECL ASSIGN RHS EXPR T F FDECL ARG MOREARGS BLOCK STMT COND ELSE RETURN CDECL ODECL