ID . LexToken(SEMICOLON,';',1,46)

```
Stack
. LexToken(VOID, 'void', 1,0)
VOID . LexToken(ID, 'main', 1,5)
VOID ID . LexToken(LEFTPAREN, '(',1,9)
VOID ID LEFTPAREN . LexToken(RIGHTPAREN,')',1,10)
VOID ID LEFTPAREN RIGHTPAREN . LexToken(LEFTBRACE, '{',1,12})
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE. LexToken(IF, 'if', 1, 14)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF . LexToken(LEFTPAREN, '(',1,17)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN . LexToken(ID, 'h', 1, 18)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN ID . LexToken(GREATER, '>',1,19)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN LValue . LexToken(GREATER, '>', 1, 19)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression . LexToken(GREATER, '>',1,19)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression GREATER. LexToken(ID,'w',1,20)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression CompareOperator . LexToken(ID,'w',1,20)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression CompareOperator ID . LexToken(RIGHTPAREN, ')', 1,2
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression CompareOperator LValue . LexToken(RIGHTPAREN,'
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression CompareOperator Expression . LexToken(RIGHTPAR
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression . LexToken(RIGHTPAREN,')',1,21)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN . LexToken(ID, 'g', 1, 23)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN ID . LexToken(ASSIGNOP, '=',1,24)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN LValue . LexToken (ASSIGNOP, '=',1,24)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN LValue ASSIGNOP. LexToken(ID, 'h', 1, 2
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN LValue ASSIGNOP ID . LexToken(SEMIC
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN LValue ASSIGNOP LValue . LexToken(SI
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VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Expression SEMICOLON . LexToken(ELS
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement . LexToken(ELSE, 'else', 1, 28)
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE. LexToken(ID,'h',1,33
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE ID . LexToken(ASSIGN(
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE LValue . LexToken(ASS
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE LValue ASSIGNOP . Lev
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE LValue ASSIGNOP ID.
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE LValue ASSIGNOP LVal
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE LValue ASSIGNOP Expr
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE Expression . LexToken
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE Expression SEMICOLO
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN Statement ELSE . error
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN Expression RIGHTPAREN. error
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE IF LEFTPAREN. error
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE. error
VOID ID LEFTPAREN. error
VOID . error
. LexToken(ID, 'a', 1, 45)
```

- . error
- . \$end

## Action

Shift and goto state 10

Shift and goto state 23

Shift and goto state 30

Shift and goto state 43

Shift and goto state 62

Shift and goto state 106

Shift and goto state 163

Shift and goto state 131

Reduce rule [LValue -> ID] with ['h'] and goto state 95

Reduce rule [Expression -> LValue] with [None] and goto state 198

Shift and goto state 146

Reduce rule [CompareOperator -> GREATER] with ['>'] and goto state 137

Shift and goto state 131

Reduce rule [LValue -> ID] with ['w'] and goto state 95

Reduce rule [Expression -> LValue] with [None] and goto state 183

Reduce rule [Expression -> Expression CompareOperator Expression] with [None, None, None] and goto state 198

Shift and goto state 219

Shift and goto state 131

Reduce rule [LValue -> ID] with ['g'] and goto state 95

Shift and goto state 155

Shift and goto state 131

Reduce rule [LValue -> ID] with ['h'] and goto state 95

Reduce rule [Expression -> LValue] with [None] and goto state 191

Reduce rule [Expression -> LValue ASSIGNOP Expression] with [None, '=', None] and goto state 86

Shift and goto state 135

Reduce rule [Statement -> Expression SEMICOLON] with [None, ';'] and goto state 233

Shift and goto state 241

Shift and goto state 131

Reduce rule [LValue -> ID] with ['h'] and goto state 95

Shift and goto state 155

Shift and goto state 131

Reduce rule [LValue -> ID] with ['g'] and goto state 95

Reduce rule [Expression -> LValue] with [None] and goto state 191

Reduce rule [Expression -> LValue ASSIGNOP Expression] with [None, '=',None] and goto state 86

Shift and goto state 135