

# Test Case #4

	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(ID,'front',1,14)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE ID . LexToken(ASSIGNOP,'=',1,20)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE LValue . LexToken(ASSIGNOP,'=',1,20)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE LValue ASSIGNOP . LexToken(ID,'in',1,22)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE LValue ASSIGNOP ID . LexToken(PERIOD,'.',1,24)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE LValue ASSIGNOP ID PERIOD . LexToken(ID,'nextLine',1,25)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE LValue ASSIGNOP ID PERIOD ID . LexToken(LEFTPAREN,'(',1,33)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE LValue ASSIGNOP ID PERIOD ID LEFTPAREN . LexToken(RIGHTPAREN,')',1,34)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE LValue ASSIGNOP ID PERIOD ID LEFTPAREN RIGHTPAREN . LexToken(SEMICOLON,';',1,35)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE LValue ASSIGNOP Call . LexToken(SEMICOLON,';',1,35)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE LValue ASSIGNOP Expression . LexToken(SEMICOLON,';',1,35)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE Expression . LexToken(SEMICOLON,';',1,35)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE Expression SEMICOLON . LexToken(RIGHTBRACE,'}',1,37)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE Statement . LexToken(RIGHTBRACE,'}',1,37)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE Statements . LexToken(RIGHTBRACE,'}',1,37)	
VOID ID LEFTPAREN RIGHTPAREN LEFTBRACE Statements RIGHTBRACE . \$end	
VOID ID LEFTPAREN RIGHTPAREN StatementBlock . \$end	
FunctionDeclaration . \$end	
Declaration . \$end	
Program . \$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 94
Reduce rule [LValue -> ID] with ['front'] and goto state 95
Shift and goto state 155
Shift and goto state 131
Shift and goto state 153
Shift and goto state 186
Shift and goto state 213
Shift and goto state 229
Reduce rule [Call -> ID PERIOD ID LEFTPAREN RIGHTPAREN] with ['in','.', 'nextLine','(',')'] and goto state 98
Reduce rule [Expression -> Call] 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 84
Reduce rule [Statements -> Statement] with [None] and goto state 81
Shift and goto state 132
Reduce rule [StatementBlock -> LEFTBRACE Statements RIGHTBRACE] with ['{',None, '}'] and goto state 67
Reduce rule [FunctionDeclaration -> VOID ID LEFTPAREN RIGHTPAREN StatementBlock] with ['void','main','(',')',None] and
Reduce rule [Declaration -> FunctionDeclaration] with [None] and goto state 2
Reduce rule [Program -> Declaration] with [None] and goto state 1