

Test Case #1

Stack
. LexToken(VOID,'void',1,0)
VOID . LexToken(ID,'f',1,5)
VOID ID . LexToken(LEFTPAREN,'(',1,6)
VOID ID LEFTPAREN . LexToken(DOUBLE,'double',1,7)
VOID ID LEFTPAREN DOUBLE . LexToken(ID,'x',1,14)
VOID ID LEFTPAREN Type . LexToken(ID,'x',1,14)
VOID ID LEFTPAREN Type ID . LexToken(COMMA,',',1,15)
VOID ID LEFTPAREN Variable . LexToken(COMMA,',',1,15)
VOID ID LEFTPAREN Variable COMMA . LexToken(DOUBLE,'double',1,17)
VOID ID LEFTPAREN Variable COMMA DOUBLE . LexToken(ID,'y',1,24)
VOID ID LEFTPAREN Variable COMMA Type . LexToken(ID,'y',1,24)
VOID ID LEFTPAREN Variable COMMA Type ID . LexToken(RIGHTPAREN,')',1,25)
VOID ID LEFTPAREN Variable COMMA Variable . LexToken(RIGHTPAREN,')',1,25)
VOID ID LEFTPAREN Variable COMMA Formals . LexToken(RIGHTPAREN,')',1,25)
VOID ID LEFTPAREN Formals . LexToken(RIGHTPAREN,')',1,25)
VOID ID LEFTPAREN Formals RIGHTPAREN . LexToken(LEFTBRACE,'{',1,27)
VOID ID LEFTPAREN Formals RIGHTPAREN LEFTBRACE . LexToken(RIGHTBRACE,'}',1,28)
VOID ID LEFTPAREN Formals RIGHTPAREN LEFTBRACE RIGHTBRACE . \$end
VOID ID LEFTPAREN Formals 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 14
Reduce rule [Type -> DOUBLE] with ['double'] and goto state 35
Shift and goto state 58
Reduce rule [Variable -> Type ID] with [None, 'x'] and goto state 39
Shift and goto state 63
Shift and goto state 14
Reduce rule [Type -> DOUBLE] with ['double'] and goto state 35
Shift and goto state 58
Reduce rule [Variable -> Type ID] with [None, 'y'] and goto state 39
Reduce rule [Formals -> Variable] with [None] and goto state 117
Reduce rule [Formals -> Variable COMMA Formals] with [None, ',', None] and goto state 42
Shift and goto state 66
Shift and goto state 62
Shift and goto state 82
Reduce rule [StatementBlock -> LEFTBRACE RIGHTBRACE] with ['{', '}'] and goto state 119
Reduce rule [FunctionDeclaration -> VOID ID LEFTPAREN Formals RIGHTPAREN StatementBlock] with ['void', 'f', '(', None, ')', '\n'] and goto state 119
Reduce rule [Declaration -> FunctionDeclaration] with [None] and goto state 2
Reduce rule [Program -> Declaration] with [None] and goto state 1