

## Stack

```
. LexToken(INTERFACE,'interface',1,0)
INTERFACE . LexToken(ID,'crab',1,10)
INTERFACE ID . LexToken(LEFTBRACE,'{',1,16)
INTERFACE ID LEFTBRACE . LexToken(ID,'myClass',1,69)
INTERFACE ID LEFTBRACE ID . LexToken(LEFTBRACKET,['[',1,77)
INTERFACE ID LEFTBRACE ID LEFTBRACKET . LexToken(RIGHTBRACKET,']',1,78)
INTERFACE ID LEFTBRACE ID LEFTBRACKET RIGHTBRACKET . LexToken(ID,'myClassArrayFunction',1,80)
INTERFACE ID LEFTBRACE Type . LexToken(ID,'myClassArrayFunction',1,80)
INTERFACE ID LEFTBRACE Type ID . LexToken(LEFTPAREN,'(',1,100)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN . LexToken(INT,'int',1,101)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN INT . LexToken(ID,'i',1,105)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Type . LexToken(ID,'i',1,105)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Type ID . LexToken(COMMA,',',1,106)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Variable . LexToken(COMMA,',',1,106)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Variable COMMA . LexToken(String,'string',1,108)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Variable COMMA String . LexToken(ID,'s',1,115)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Variable COMMA Type . LexToken(ID,'s',1,115)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Variable COMMA Type ID . LexToken(RIGHTPAREN,')',1,116)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Variable COMMA Variable . LexToken(RIGHTPAREN,')',1,116)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Variable COMMA Formals . LexToken(RIGHTPAREN,')',1,116)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Formals . LexToken(RIGHTPAREN,')',1,116)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Formals RIGHTPAREN . LexToken(SEMICOLON,';',1,117)
INTERFACE ID LEFTBRACE Type ID LEFTPAREN Formals RIGHTPAREN SEMICOLON . LexToken(VOID,'void',1,121)
INTERFACE ID LEFTBRACE Prototype . LexToken(VOID,'void',1,121)
INTERFACE ID LEFTBRACE Prototype VOID . LexToken(ID,'myVoidFunction',1,126)
INTERFACE ID LEFTBRACE Prototype VOID ID . LexToken(LEFTPAREN,'(',1,140)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN . LexToken(ID,'myClass',1,141)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN ID . LexToken(LEFTBRACKET,['[',1,149)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN ID LEFTBRACKET . LexToken(RIGHTBRACKET,']',1,150)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN ID LEFTBRACKET RIGHTBRACKET . LexToken(ID,'myClassArray',1,151)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN Type . LexToken(ID,'myClassArray',1,152)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN Type ID . LexToken(RIGHTPAREN,')',1,164)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN Variable . LexToken(RIGHTPAREN,')',1,164)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN Formals . LexToken(RIGHTPAREN,')',1,164)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN Formals RIGHTPAREN . LexToken(SEMICOLON,';',1,165)
INTERFACE ID LEFTBRACE Prototype VOID ID LEFTPAREN Formals RIGHTPAREN SEMICOLON . LexToken(RIGHTBRACE,'}',1,168)
INTERFACE ID LEFTBRACE Prototype Prototype . LexToken(RIGHTBRACE,'}',1,168)
INTERFACE ID LEFTBRACE Prototype Prototypes . LexToken(RIGHTBRACE,'}',1,168)
INTERFACE ID LEFTBRACE Prototypes . LexToken(RIGHTBRACE,'}',1,168)
INTERFACE ID LEFTBRACE Prototypes RIGHTBRACE . $end
InterfaceDeclaration . $end
Declaration . $end
Program . $end
```

Action
Shift and goto state 12
Shift and goto state 25
Shift and goto state 34
Shift and goto state 52
Shift and goto state 22
Shift and goto state 29
Reduce rule [Type -> ID LEFTBRACKET RIGHTBRACKET] with ['myClass','[',']'] and goto state 56
Shift and goto state 77
Shift and goto state 127
Shift and goto state 13
Reduce rule [Type -> INT] with ['int'] and goto state 35
Shift and goto state 58
Reduce rule [Variable -> Type ID] with [None,'i'] and goto state 39
Shift and goto state 63
Shift and goto state 16
Reduce rule [Type -> STRING] with ['string'] and goto state 35
Shift and goto state 58
Reduce rule [Variable -> Type ID] with [None,'s'] 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 176
Shift and goto state 208
Shift and goto state 226
Reduce rule [Prototype -> Type ID LEFTPAREN Formals RIGHTPAREN SEMICOLON] with [None,<str @ 0x1120c8f18>,'(',None]
Shift and goto state 57
Shift and goto state 78
Shift and goto state 128
Shift and goto state 36
Shift and goto state 22
Shift and goto state 29
Reduce rule [Type -> ID LEFTBRACKET RIGHTBRACKET] with ['myClass','[',']'] and goto state 35
Shift and goto state 58
Reduce rule [Variable -> Type ID] with [None,'myClassArray'] and goto state 39
Reduce rule [Formals -> Variable] with [None] and goto state 178
Shift and goto state 210
Shift and goto state 227
Reduce rule [Prototype -> VOID ID LEFTPAREN Formals RIGHTPAREN SEMICOLON] with ['void',<str @ 0x112074bf0>,'(',None]
Reduce rule [Prototypes -> Prototype] with [None] and goto state 76
Reduce rule [Prototypes -> Prototype Prototypes] with [None,None] and goto state 53
Shift and goto state 75
Reduce rule [InterfaceDeclaration -> INTERFACE ID LEFTBRACE Prototypes RIGHTBRACE] with ['interface','crab','{',None,'}'];
Reduce rule [Declaration -> InterfaceDeclaration] with [None] and goto state 2
Reduce rule [Program -> Declaration] with [None] and goto state 1