

DSMDE

0.1

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# Chapter 1

## Namespace Index

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## Chapter 2

# Hierarchical Index

### 2.1 Class Hierarchy

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# Class Index

### 3.1 Class List

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## Chapter 4

# File Index

### 4.1 File List

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## Chapter 5

# Namespace Documentation

### 5.1 Package driver

#### Classes

- class [Administration](#)
- class [driver](#)
- class [DriverWindow](#)

### 5.2 Package parser

#### Classes

- class [FirstFollow](#)
- class [Parser](#)

### 5.3 Package scanner

#### Classes

- class [ScanMe](#)
- enum [Symbol](#)
- class [Token](#)

### 5.4 Package symbolTable

#### Classes

- class [SymbolTable](#)



## Chapter 6

# Class Documentation

### 6.1 driver.Administration Class Reference

#### Public Member Functions

- [Administration](#) ([ScanMe](#) sc, [SymbolTable](#) st)
- void [start](#) ()
- void [NewLine](#) ()
- void [error](#) (int errorType, [Symbol](#) sym, int flag)

#### Public Attributes

- int [lineNo](#)

#### 6.1.1 Constructor & Destructor Documentation

6.1.1.1 driver.Administration.Administration ( [ScanMe](#) sc, [SymbolTable](#) st )

#### 6.1.2 Member Function Documentation

6.1.2.1 void driver.Administration.error ( int *errorType*, [Symbol](#) sym, int flag )

6.1.2.2 void driver.Administration.NewLine ( )

6.1.2.3 void driver.Administration.start ( )

#### 6.1.3 Member Data Documentation

6.1.3.1 int driver.Administration.lineNo

The documentation for this class was generated from the following file:

- src/driver/[Administration.java](#)

## 6.2 driver.driver Class Reference

### Static Public Member Functions

- static void [main](#) (String[] args)

### Public Attributes

- int [var](#)

### 6.2.1 Detailed Description

This is the main file. Program starts from main file

### 6.2.2 Member Function Documentation

#### 6.2.2.1 static void driver.driver.main ( String[] args ) [static]

##### Parameters

|             |  |
|-------------|--|
| <i>args</i> |  |
|-------------|--|

### 6.2.3 Member Data Documentation

#### 6.2.3.1 int driver.driver.var

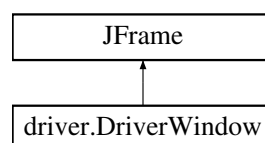
this is a variable

The documentation for this class was generated from the following file:

- [src/driver/driver.java](#)

## 6.3 driver.DriverWindow Class Reference

Inheritance diagram for driver.DriverWindow:



## Public Member Functions

- [DriverWindow](#) ()

## Static Public Member Functions

- static void [main](#) (String[] args)

## Public Attributes

- FileReader [sourceFile](#) = null  
*sourceFile object is the reader of source file*

## Private Member Functions

- void [openFileStream](#) (String absolutePath)

## Private Attributes

- JPanel [contentPane](#)
- JTextField [textField](#)

### 6.3.1 Constructor & Destructor Documentation

#### 6.3.1.1 driver.DriverWindow.DriverWindow ( )

Create the frame.

### 6.3.2 Member Function Documentation

#### 6.3.2.1 static void driver.DriverWindow.main ( String[] args ) [static]

Launch the application.

#### 6.3.2.2 void driver.DriverWindow.openFileStream ( String *absolutePath* ) [private]

##### Parameters

|                     |   |
|---------------------|---|
| <i>absolutePath</i> | opens file using file reader and the absolute path of the chosen file |
|---------------------|---|

### 6.3.3 Member Data Documentation

#### 6.3.3.1 JPanel driver.DriverWindow.contentPane [private]

### 6.3.3.2 `FileReader driver.DriverWindow.sourceFile = null`

`sourceFile` object is the reader of source file

### 6.3.3.3 `TextField driver.DriverWindow.textField` [private]

The documentation for this class was generated from the following file:

- [src/driver/DriverWindow.java](#)

## 6.4 `parser.FirstFollow` Class Reference

The documentation for this class was generated from the following file:

- [src/parser/FirstFollow.java](#)

## 6.5 `parser.Parser` Class Reference

### Public Member Functions

- [Parser](#) ([ScanMe](#) *sc*, [Administration](#) *ad*)
- void [DsmdeFormat](#) ([Symbol](#) *sym*)

### Private Member Functions

- void [ModElementNames](#) ([Vector](#)< [Symbol](#) > *stops*)
- void [InteractAttributeNames](#) ([Vector](#)< [Symbol](#) > *stops*)
- boolean [in](#) ([Vector](#)< [Symbol](#) > *set*)

### 6.5.1 Constructor & Destructor Documentation

#### 6.5.1.1 `parser.Parser.Parser ( ScanMe sc, Administration ad )`

### 6.5.2 Member Function Documentation

#### 6.5.2.1 `void parser.Parser.DsmdeFormat ( Symbol sym )`

#### 6.5.2.2 `boolean parser.Parser.in ( Vector< Symbol > set )` [private]

#### 6.5.2.3 `void parser.Parser.InteractAttributeNames ( Vector< Symbol > stops )` [private]

#### 6.5.2.4 `void parser.Parser.ModElementNames ( Vector< Symbol > stops )` [private]

The documentation for this class was generated from the following file:

- [src/parser/Parser.java](#)

## 6.6 scanner.ScanMe Class Reference

### Public Member Functions

- [ScanMe](#) (FileReader srcFile, [SymbolTable](#) st)
- [Token](#) [nextToken](#) ()
- String [nextTextLine](#) ()
- void [read](#) ()

### 6.6.1 Constructor & Destructor Documentation

#### 6.6.1.1 scanner.ScanMe.ScanMe ( FileReader *srcFile*, [SymbolTable](#) *st* )

constructor

Parameters

|                |  |
|----------------|--|
| <i>srcFile</i> |  |
|----------------|--|

### 6.6.2 Member Function Documentation

#### 6.6.2.1 String scanner.ScanMe.nextTextLine ( )

#### 6.6.2.2 Token scanner.ScanMe.nextToken ( )

Returns

token as enum [Symbol](#)

#### 6.6.2.3 void scanner.ScanMe.read ( )

The documentation for this class was generated from the following file:

- src/scanner/[ScanMe.java](#)

## 6.7 scanner.Symbol Enum Reference

### Public Member Functions

- [Symbol](#) (int [code](#), String lex)
- int [getCode](#) ()
- String [getLexeme](#) ()

## Public Attributes

- `MM` =(256, "%%MatrixMarket")
- `MATRIX` =(257, "Matrix")
- `DSM` =(258, "DSM")
- `MDM` =(259, "MDM")
- `DMM` =(260, "DMM")
- `COORD` =(261, "Coordinate")
- `ARRAY` =(262, "Array")
- `INT` =(263, "Integer")
- `REAL` =(264, "Real")
- `COMPLEX` =(265, "Complex")
- `PATTERN` =(266, "Pattern")
- `GENERAL` =(267, "General")
- `SYMETRIC` =(268, "Symmetric")
- `SKSYMETRIC` =(269, "Skew-Symmetric")
- `HERMITIAN` =(270, "Hermitian")
- `IC` =(271, "IC")
- `IR` =(272, "IR")
- `BDOMAIN` =(273, "%beginDomain")
- `EDOMAIN` =(274, "%endDomain")
- `BMODE` =(275, "%beginModElement")
- `EMODE` =(276, "%endModElement")
- `BATTRIB` =(277, "%beginAttribute")
- `EATTRIB` =(278, "%endAttribute")
- `COMMENT` =(279, "textLine")
- `PLUS` =(280, "+")
- `MINUS` =(281, "-")
- `E` =(282, "e")
- `NUMINT` =(283, "num int")
- `NUMDOUBLE` =(284, "num double")
- `UNDEFINED` =(285, "Undefined")
- `EOF` =(286, "End of File")
- `NEWLINE` =(287, "new line")

## Private Attributes

- final int `code`
- final String `lexeme`

## 6.7.1 Constructor & Destructor Documentation

6.7.1.1 `scanner.Symbol.Symbol ( int code, String lex )`

## 6.7.2 Member Function Documentation

6.7.2.1 `int scanner.Symbol.getCode ( )`

6.7.2.2 `String scanner.Symbol.getLexeme ( )`



### 6.7.3 Member Data Documentation

6.7.3.1 scanner.Symbol.ARRAY =(262,"Array")

6.7.3.2 scanner.Symbol.BATTRIB =(277,"%beginAttribute")

6.7.3.3 scanner.Symbol.BDOMAIN =(273,"%beginDomain")

6.7.3.4 scanner.Symbol.BMODE =(275,"%beginModElement")

6.7.3.5 final int scanner.Symbol.code [private]

6.7.3.6 scanner.Symbol.COMMENT =(279,"textLine")

6.7.3.7 scanner.Symbol.COMPLEX =(265,"Complex")

6.7.3.8 scanner.Symbol.COORD =(261,"Coordinate")

6.7.3.9 scanner.Symbol.DMM =(260,"DMM")

6.7.3.10 scanner.Symbol.DSM =(258,"DSM")

6.7.3.11 scanner.Symbol.E =(282,"e")

6.7.3.12 scanner.Symbol.EATTRIB =(278,"%endAttribute")

6.7.3.13 scanner.Symbol.EDOMAIN =(274,"%endDomain")

6.7.3.14 scanner.Symbol.EMODE =(276,"%endModElement")

6.7.3.15 scanner.Symbol.EOF =(286,"End of File")

6.7.3.16 scanner.Symbol.GENERAL =(267,"General")

6.7.3.17 scanner.Symbol.HERMITIAN =(270,"Hermitian")

6.7.3.18 scanner.Symbol.IC =(271,"IC")

6.7.3.19 scanner.Symbol.INT =(263,"Integer")

6.7.3.20 scanner.Symbol.IR =(272,"IR")

6.7.3.21 final String scanner.Symbol.lexeme [private]

6.7.3.22 scanner.Symbol.MATRIX =(257,"Matrix")

6.7.3.23 scanner.Symbol.MDM =(259,"MDM")

6.7.3.24 scanner.Symbol.MINUS =(281,"-")

6.7.3.25 scanner.Symbol.MM =(256,"%%MatrixMarket")

6.7.3.26 scanner.Symbol.NEWLINE =(287,"new line")

6.7.3.27 scanner.Symbol.NUMDOUBLE =(284,"num double")

6.7.3.28 scanner.Symbol.NUMINT =(283,"num int")

6.7.3.29 scanner.Symbol.PATTERN =(266,"Pattern")

6.7.3.30 scanner.Symbol.PLUS =(280,"+")

6.7.3.31 scanner.Symbol.REAL =(264,"Real")

6.7.3.32 scanner.Symbol.SKSYMMETRIC =(269,"Skew-Symmetric")

6.7.3.33 scanner.Symbol.SYMMETRIC =(268,"Symmetric")

6.7.3.34 scanner.Symbol.UNDEFINED =(285,"Undefined")

The documentation for this enum was generated from the following file:

- [src/scanner/Symbol.java](#)

## 6.8 symbolTable.SymbolTable Class Reference

### Public Member Functions

- [SymbolTable](#) ()
- [Token search2](#) (String lex)

### Static Public Attributes

- static final String[] [keyWords](#)

### Private Member Functions

- [Symbol insert](#) ([Token](#) tok)

## Static Private Attributes

- static final int [SYMTABLESIZE](#) = 307

### 6.8.1 Constructor & Destructor Documentation

#### 6.8.1.1 `symbolTable.SymbolTable.SymbolTable ( )`

### 6.8.2 Member Function Documentation

#### 6.8.2.1 `Symbol symbolTable.SymbolTable.insert ( Token tok ) [private]`

#### 6.8.2.2 `Token symbolTable.SymbolTable.search2 ( String lex )`

### 6.8.3 Member Data Documentation

#### 6.8.3.1 `final String [] symbolTable.SymbolTable.keyWords [static]`

Initial value:

```
= { "%MatrixMarket", "Matrix", "DSM", "MDM", "DMM", "Coordinate", "Array",
    "Integer", "Real", "Complex", "Pattern", "General", "Symmetric", "SkewSymmetric",
    "Hermitian", "IC", "IR", "%beginDomain", "%endDomain", "%beginModElement", "%endModElement",
    "%beginAttribute", "%endAttribute", "%" }
```

#### 6.8.3.2 `final int symbolTable.SymbolTable.SYMTABLESIZE = 307 [static], [private]`

The documentation for this class was generated from the following file:

- `src/symbolTable/SymbolTable.java`

## 6.9 scanner.Token Class Reference

### Public Member Functions

- [Token](#) ([Symbol](#) sym, double val)
- [Symbol](#) [getSymbol](#) ()
- double [getValue](#) ()

### 6.9.1 Constructor & Destructor Documentation

#### 6.9.1.1 `scanner.Token.Token ( Symbol sym, double val )`

### 6.9.2 Member Function Documentation

#### 6.9.2.1 `Symbol scanner.Token.getSymbol ( )`

#### 6.9.2.2 `double scanner.Token.getValue ( )`

The documentation for this class was generated from the following file:

- `src/scanner/Token.java`



## Chapter 7

# File Documentation

### 7.1 src/driver/Administration.java File Reference

#### Classes

- class [driver.Administration](#)

#### Packages

- package [driver](#)

### 7.2 src/driver/driver.java File Reference

Drives the project.

#### Classes

- class [driver.driver](#)

#### Packages

- package [driver](#)

#### 7.2.1 Detailed Description

Drives the project.

This file is the driver file. From this point the project initiates.

#### Author

Ahamad Imtiaz Khan

#### Version

1.0

#### Date

2016

## 7.3 src/driver/DriverWindow.java File Reference

This the driver class Provides UI for user to choose file from dialog.

### Classes

- class [driver.DriverWindow](#)

### Packages

- package [driver](#)

### 7.3.1 Detailed Description

This the driver class Provides UI for user to choose file from dialog.

#### Author

Ahamad Imtiaz Khan

#### Version

0.1

## 7.4 src/parser/FirstFollow.java File Reference

### Classes

- class [parser.FirstFollow](#)

### Packages

- package [parser](#)

## 7.5 src/parser/Parser.java File Reference

### Classes

- class [parser.Parser](#)

### Packages

- package [parser](#)

## 7.6 src/scanner/ScanMe.java File Reference

### Classes

- class [scanner.ScanMe](#)

### Packages

- package [scanner](#)

## 7.7 src/scanner/Symbol.java File Reference

### Classes

- enum [scanner.Symbol](#)

### Packages

- package [scanner](#)

## 7.8 src/scanner/Token.java File Reference

### Classes

- class [scanner.Token](#)

### Packages

- package [scanner](#)

## 7.9 src/symbolTable/SymbolTable.java File Reference

### Classes

- class [symbolTable.SymbolTable](#)

### Packages

- package [symbolTable](#)





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