

MatrixNode

- value : object
- down : object
- right : object
get_value (MatrixNode) → object
set_value (object) → None
get_down () → object
set_down (object) → None
get_right () → object
set_right (object) → None
get_type () → type
__init__ () → None

Exception

Built in Python class

InvalidRowColumnLength

InvalidTypeMatch

OutOfBoundsError

Matrix

- columns: int
- row: int
- head: MatrixNode
- init -- (Matrix, int, int)
- get_row(Matrix, int) → MatrixNode
- set_row(Matrix, int, list of object) → None
- get_column(Matrix, int) → MatrixNode
- set_column(Matrix, int, list of object) → None
- get_element(Matrix, int, int) → MatrixNode
- multiply_row(Matrix, int, int) → None
- add_two_rows(Matrix, int, int) → MatrixNode
- transpose(Matrix) → None
- swap_row(Matrix, int, int) → None
- swap_column(Matrix, int, int) → None
- multiply_matrix(Matrix, Matrix) → None
- subtract_row(Matrix, int, int) → None
- subtract_matrix(Matrix, Matrix) → None
- add_matrix(Matrix, Matrix) → None
- get_determinant(Matrix)

SquareMatrix

- init -- (SquareMatrix, int) → None
- get_diagonal(SquareMatrix) → list of objects
- set_diagonal(SquareMatrix, [list of objects]) → None

RowSingle

- init -- (RowSingle)
- get_item(RowSingle, int)
- MatrixNode

ColumnSingle

- init -- (ColumnSingle)
- get_item(ColumnSingle, int)
- MatrixNode

Square Matrix
- As defined on Previous page

Symmetric Matrix
-- init -- (Symmetric Matrix) \rightarrow None
set_value (Symmetric Matrix, int,
int, int) \rightarrow None