Documentation

1. harsii Class

The harsii class is a utility class designed for sorting an array of integers in ascending order.

Attributes:

private int[] array: An array of integers to be sorted.

Methods:

1.1

public harsii(int[] array)

Description: Constructor for the harsii class.

Parameters: int[] array: The array of integers to be sorted.

1.2

public int[] getArray()

Description: Returns a copy of the internal array.

Return Type: int[]

1.3

public void sortAscending()

Description: Sorts the internal array in ascending order.

2. MatrixCalculator Class

The MatrixCalculator class performs matrix addition.

Attributes:

private int[][] matrixA: The first matrix for addition.

private int[][] matrixB: The second matrix for addition.

private int rows: The number of rows in the matrices.

Methods:

2.1 public MatrixCalculator(int[][] matrixA, int[][] matrixB, int rows)

Description: Constructor for the MatrixCalculator class.

Parameters:

int[][] matrixA: The first matrix.

int[][] matrixB: The second matrix.

int rows: The number of rows in the matrices.

2.2 public int[][] matrixAddition()

Description: Performs matrix addition and returns the resultant matrix.

Return Type: int[][]

Example Usage:

Sorting Example:

Create an instance of harsii.

Input an array of integers.

Call sortAscending() method.

Retrieve and print the sorted array.

Matrix Addition Example:`

Create an instance of MatrixCalculator.

Input the number of rows for matrices.

Input the elements for matrices A and B.

Call matrixAddition() method to obtain the result matrix.

Print the resultant matrix.