## PROJECTS

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                                                                                    Problem 1Tr...Matrix.java
                         Problem 1Transpose of a Matrix.java
                               package transposematrix;
                               import java.util.Scanner;
                               public class Main{
                                   public static int[][] inputMatrix(int nRows, int nCols) {
                                       Scanner in = new Scanner(System.in);
                                       int[][] matrix = new int[nRows][nCols];
                                       System.out.println("Enter the matrix elements:");
                                       for (int i = 0; i < nRows; i++) {
                                           for (int j = 0; j < nCols; j++) {
                                               matrix[i][j] = in.nextInt();
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                                       return matrix;
                                   public static int[][] transposeMatrix(int[][] matrix, int rows, int cols) {
                                       int[][] transposedMatrix = new int[cols][rows];
                                       for (int i = 0; i < rows; i++) {
                                           for (int j = 0; j < cols; j++) {
                                               transposedMatrix[j][i] = matrix[i][j];
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                                       return transposedMatrix;
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                                   public static void printMatrix(int[][] matrix, int rows, int cols) {
                                               System.out.print(matrix[i][j] + " ");
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                                   public static boolean isSymmetric(int[][] matrix, int rows, int cols) {
                                      if (rows != cols) {
```

