

```
1 - import java.util.Arrays;
                                                                              java -cp /tmp/G526VESHis MaxMinFinder
 2 - public class MaxMinFinder {
                                                                              mth Maximum: 89
        public static void main(String[] args) {
                                                                              nth Minimum: 25
            int[] array = {14,16,87,36,25,89,34};
            int m = 1;
            int n = 3;
            int mthMax = findMthMaximum(array, m);
            int nthMin = findNthMinimum(array, n);
            System.out.println("mth Maximum: " + mthMax);
            System.out.println("nth Minimum: " + nthMin);
10
11
        public static int findMthMaximum(int[] array, int m) {
12 -
           Arrays.sort(array);
13
            int index = array.length - m;
14
            return array[index];
15
16
        public static int findNthMinimum(int[] array, int n) {
17 -
            Arrays.sort(array);
18
            return array[n - 1];
19
20
21 }
```

Output

Clear

Run

Main.java

```
Main.java
                                                                                 Output
                                                                                                                                                      Clear
                                                                      Run
 1 - public class MatrixMultiplication {

_ java -cp /tmp/sgJvimrRdE MatrixMultiplication
        public static void main(String[] args) {
                                                                               Resultant Matrix:
            int[][] matrixA = {{1, 2}, { 5, 3}};
                                                                               10 5
            int[][] matrixB = {{2, 3}, {4, 1}};
                                                                               22 18
            int[][] resultMatrix = multiplyMatrices(matrixA, matrixB);
            System.out.println("Resultant Matrix:");
            printMatrix(resultMatrix);
 9 -
        public static int[][] multiplyMatrices(int[][] matrixA, int[][]
            matrixB) {
            int rowsA = matrixA.length;
10
            int colsA = matrixA[0].length;
11
            int colsB = matrixB[0].length;
12
            int[][] resultMatrix = new int[rowsA][colsB];
13
            for (int i = 0; i < rowsA; i++) {
14 -
15 -
               for (int j = 0; j < colsB; j++) {
                    for (int k = 0; k < colsA; k++) {
16 -
17
                        resultMatrix[i][j] += matrixA[i][k] * matrixB[k][j];
18
19
20
            return resultMatrix;
21
22
```

```
Main.java
                                                                                Output
                                                                                                                                                      Clear
                                                                      Run
 1 - import java.util.Scanner;
                                                                               java -cp /tmp/LfjPa8RcAl VoteEligibility
 2 - public class VoteEligibility {
                                                                               Enter your age:
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
                                                                               You are not eligible to vote. You will be eligible in 11 years.
            System.out.println("Enter your age: ");
            int age = scanner.nextInt();
            if (isEligibleToVote(age)) {
                System.out.println("You are eligible to vote!");
            } else {
 9 -
                int yearsLeft = calculateYearsToEligibility(age);
10
                System.out.println("You are not eligible to vote. You will be
11
                    eligible in " + yearsLeft + " years.");
12
            scanner.close();
13
14
15 -
        private static boolean isEligibleToVote(int age) {
16
            return age >= 18;
17
        private static int calculateYearsToEligibility(int age) {
18 -
19
            return 18 - age;
20
21 }
```

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[] 6
Main.java
                                                                               Output
                                                                                                                                                    Clear
                                                                     Run
 1 - import java.util.Scanner;
                                                                              java -cp /tmp/dOXHEAWAOK PyramidNumberPattern
 2 - public class PyramidNumberPattern {
                                                                              Enter the number of rows for the pyramid: 5
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
                                                                                   1 2 1
            System.out.print("Enter the number of rows for the pyramid: ");
                                                                                 1 2 3 2 1
           int rows = scanner.nextInt();
                                                                               1 2 3 4 3 2 1
           for (int i = 1; i <= rows; i++) {
                                                                              1 2 3 4 5 4 3 2 1
            for (int j = 1; j \le rows - i; j++) {
                   System.out.print(" ");
10
11 -
               for (int k = 1; k \le i; k++) {
                   System.out.print(k + " ");
12
13
               for (int l = i - 1; l >= 1; l--) {
14 -
                   System.out.print(1 + " ");
15
16
               System.out.println();
           }
18
            scanner.close();
19
20
21 }
```

