java.util.Arrays;

public class VarargsExercise1 {

// Display all the items on the list

public static void displayItems(String... items) {

System.out.println("Items on the list:");

for (String item : items) {

System.out.println(item);

}

}

// Find the maximum value from the list

public static int findMaxValue(int... values) {

if (values.length == 0) {

throw new IllegalArgumentException("List is empty");

}

int max = values[0];

for (int value : values) {

if (value > max) {

max = value;

}

}

return max;

}

// Sort the list in ascending order

public static void sortList(int... values) {

Arrays.sort(values);

System.out.println("Sorted list in ascending order:");

for (int value : values) {

System.out.print(value + " ");

}

System.out.println();

}

// Find the average of all the items on the list

public static double findAverage(double... values) {

if (values.length == 0) {

throw new IllegalArgumentException("List is empty");

}

double sum = 0;

for (double value : values) {

sum += value;

}

return sum / values.length;

}

public static void main(String[] args) {

// Example usage

displayItems("Apple", "Banana", "Orange", "Grapes");

int maxValue = findMaxValue(25, 18, 36, 47, 29);

System.out.println("Maximum value: " + maxValue);

sortList(25, 18, 36, 47, 29);

double average = findAverage(25.5, 18.2, 36.8, 47.3, 29.7);

System.out.println("Average: " + average);

}

}

/\* Output:

PS C:\Users\bhoir\OneDrive\Desktop\Info\_> javac VarargsExercise1.java

PS C:\Users\bhoir\OneDrive\Desktop\Info\_> java VarargsExercise1

Items on the list:

Apple

Banana

Orange

Grapes

Maximum value: 47

Sorted list in ascending order:

18 25 29 36 47

Average: 31.5

\*/