package arrayChapter;

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public class AnalyzeNumbers {

public static void main(String[] args) { // Main Method

java.util.Scanner input = new java.util.Scanner(System.in); // Importing and declaring the scanner

System.out.print("Enter the number of items: "); // prompting the user to enter the number of items to be entered into the array

int n = input.nextInt(); // variable used to set fixed size of array

double[] numbers = new double[n]; //instantiating the array// declaring load maximum in the array.//declaring load type of array

double sum = 0; // setting accumulator and the initial condition of the array loops

System.out.print("Enter the numbers: "); // prompting the user to enter numbers to be loaded into the array

for (int i = 0; i < n; i++) {// loop to load numbers until fixed size condition has been met.// change of the condition

numbers[i] = input.nextDouble();// loading the double into the array from the Util.Scanner

sum += numbers[i]; // adding the numbers which have been loaded into the array and declaring the new sum of the array

}// for loop closing bracket

// the first of two loops which will count the sum and load the array

double average = sum / n; // average of the numbers entered into the array./ sum is divided by the fixed size of the array and declared as the overall average

int count = 0; // The numbers of elements above average // initial condition of this for loop

for (int i = 0; i < n; i++) // counting loaded doubles from the array from the first loaded position of zero

if (numbers[i] > average) // if statement to determine if the entered number is greater than the overall previously declared average

count++; // accumulator// this will count the amount of entries which are above the average and hold this value to be displayed later.

System.out.println("Average is " + average);// displays the average from the first for loop

System.out.println("Number of elements above the average is "

+ count);// displays the amount of numbers which exceed the average

}// main closing bracket

}// class closing bracket