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CSC211-03

7.3 Case Study Analyzing Numbers

public class AnalyzeNumbers {  
 public static void main(String[] args) {  
 //This is where we begin creating the array  
 java.util.Scanner input = new java.util.Scanner(System.*in*);  
 System.*out*.print("Enter the number of items: ");  
 int n = input.nextInt();  
 //Array creation  
 double [] numbers = new double[n];  
 double sum = 0;  
 System.*out*.print("Enter the numbers: ");  
 //Here we create the "for" loop for the array  
 for (int i = 0; i < n; i++) {  
 numbers[i] = input.nextDouble();  
 sum += numbers[i];  
 }  
  
 double average = sum / n;  
  
 // Calculating the number of array elements greater than the calculated average  
 int count = 0;  
 for (int i = 0; i < n; i++)  
 if (numbers[i] > average)  
 count++;  
 System.*out*.println("Average is " + average);  
 System.*out*.println("Number of elements above the average is " + count);  
 }  
}