

```
1 import java.io.File;
2 import java.io.FileNotFoundException;
3 import java.util.Scanner;
4
5 public class DataAnalyzer {
6     private static final String FILE_NAME = "data.txt";
7     private static double[] data;
8
9     public static void main(String[] args) {
10         loadData();
11         analyzeData();
12     }
13
14     public static void loadData() {
15         try {
16             File file = new File(FILE_NAME);
17             Scanner scanner = new Scanner(file);
18             int size = scanner.nextInt();
19             data = new double[size];
20             for (int i = 0; i < size; i++) {
21                 data[i] = scanner.nextDouble();
22             }
23             scanner.close();
24         } catch (FileNotFoundException e) {
25             System.out.println("File not found: " + FILE_NAME);
26         }
27     }
28
29     public static void analyzeData() {
30         double sum = 0;
31         for (int i = 0; i < data.length; i++) {
32             sum += data[i];
33         }
34         double average = sum / data.length;
35         System.out.println("Average: " + average);
36     }
37 }
38
```