**Experiment Report - 09 - test3\_rankingData**

1. **Summary Table of Errors Found**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Error ID | Line Number | Error Type | Self-Detected? | Peer 1 Found? | Peer 2 Found? |
| E01 | Line 43 | Semantic | √ | × | × |
| E02 | Line 66 | Semantic | √ | × | √ |
| E03 | Line 67 | Semantic | √ | × | √ |

Additional Errors Found by Self: 0

Self-Review Detection Rate: 100%

Peer 1 Detection Rate: 0%

Peer 2 Detection Rate: 67%

1. **Source Code**
2. import java.io.BufferedReader;
3. import java.io.BufferedWriter;
4. import java.io.FileReader;
5. import java.io.FileWriter;
6. import java.io.IOException;
7. import java.util.ArrayList;
8. import java.util.Collections;
9. import java.util.Comparator;
10. import java.util.List;
11. public class rankingData {
12. public void ExtractData(String inputFilePath, String outputFilePath, int num) {
13. try (BufferedReader br = new BufferedReader(new FileReader(inputFilePath));
14. BufferedWriter bw = new BufferedWriter(new FileWriter(outputFilePath))) {
15. String line;
16. while ((line = br.readLine()) != null) {
17. // 各行を"/"で分割
18. String[] data = line.split("/");
19. // 3つ目と7つ目のデータを抽出
20. if (data.length >= num) {
21. String thirdData = data[2];
22. String seventhData = data[num - 1];
23. // 抽出したデータを"/"で結合
24. String result = thirdData + "/" + seventhData;
25. // 結果を新しいファイルに書き込む
26. bw.write(result);
27. bw.newLine();
28. }
29. }
30. System.out.println("データの抽出と書き込みが完了しました。");
31. } catch (IOException e) {
32. e.printStackTrace();
33. }
34. }
35. public static void main(String[] args) {
36. rankingData rankingData = new rankingData();
37. rankingData.ExtractData("input.txt", "output.txt", 8);
38. Result result = rankingData.sort("output.txt");
39. for (int i = 0; i < result.names.length; i++) {
40. System.out.println("Name: " + result.names[i] + ", Grip: " + result.grips[i]);
41. }
42. }
43. }
44. class Person {
45. public String name;
46. public String grip;
47. public Person(String name, String grip) {
48. this.name = name;
49. this.grip = grip;
50. }
51. }
52. class Result {
53. public String[] names;
54. public String[] grips;
55. public Result(String[] names, String[] grips) {
56. this.names = name;
57. this.grips = grip;
58. }
59. }