**Experiment Report - 07 - test1\_DataUse**

1. **Summary Table of Errors Found**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Error ID | Line Number | Error Type | Self-Detected? | Peer 1 Found? | Peer 2 Found? |
| E01 | Line 14 | Semantic | √ | √ | × |
| E02 | Line 33 | Semantic | √ | × | × |
| E03 | Line 34 | Semantic | √ | × | × |
| E04 | Line 53 | Semantic | × | × | × |
| E05 | Line 60 | Logic | √ | √ | √ |

Additional Errors Found by Self: 0

Self-Review Detection Rate: 80%

Peer 1 Detection Rate: 40%

Peer 2 Detection Rate: 20%

1. **Source Code**
2. import java.io.BufferedReader;
3. import java.io.FileReader;
4. import java.io.IOException;
5. public class DataUse {
7. public static String getNameForID(String id, String csvFilePath) {
8. String name = null;
10. try (BufferedReader br = new BufferedReader(new FileReader(csvFilePath))) {
11. String line;
12. while ((line = br.readLine()) != null) {
13. String[] data = line.split("/");
14. if (data.length > 3 && data[0].equals(id)) {
15. name = data[2];
16. break;
17. }
18. }
19. } catch (IOException e) {
20. e.printStackTrace();
21. }
23. return name;
24. }
25. public static String getIDForName(String name, String csvFilePath) {
26. String id = null;
28. try (BufferedReader br = new BufferedReader(new FileReader(csvFilePath))) {
29. String line;
30. while ((line = br.readLine()) != null) {
31. String[] data = line.split("/");
32. System.out.println("DataUse: " + data[3]);
33. if (data.length >= 3 && data[3].equals(name)) {
34. id = data[0];
35. break;
36. }
37. }
38. } catch (IOException e) {
39. e.printStackTrace();
40. }
42. return id;
43. }
44. public static int[] readFitnessData(String id, String filename) {
46. int[] data = new int[5];
47. try (BufferedReader br = new BufferedReader(new FileReader(filename))) {
48. String line;
49. while ((line = br.readLine()) != null) {
50. String[] parts = line.split(" ");
51. String customerId = parts[0];
52. if (customerId.equals(id)) {
53. // 該当する顧客の体力測定値を配列に格納
54. //int[] data = new int[5];
55. for (int i = 0; i < 5; i++) {
56. data[i] = Integer.parseInt(parts[5 + i]); // 体力測定値の部分はインデックス6から始まる
57. }
58. break; // 見つかったらループを抜ける
59. }
60. }
61. } catch (IOException e) {
62. e.printStackTrace();
63. }
64. return data;
65. }
66. }