

## #8827 Code Review

The code provided from the **8827** folder files contained two different classes separated in two different files: Opfinder.java and MatrixBBTest.java. These 2 files had no association to the files Table.java or TableSorter.java anywhere in their code.

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### Notes on the **Opfinder** class:

- The class contains a total of 33 lines and 1 comment. No information on its functionality can be gathered from comments, only through the code itself.
  - The class contains no attributes, but only the “*main*” method which runs an algorithm to count and report the number of instances of certain characters.
  - The main method had a specific file path hardcoded as: “*/Users/Null/Desktop/last semes/v&v/code/opcheck.txt*”. This caused the runtime error: “*java.io.FileNotFoundException*” and terminated the program. Even when providing a valid file path, it remains unclear what the structure or contents of the file are supposed to be.
  - The line: “*if(ch == ';' || ch == '+' || ch == '<' || ch == '>' || ch == '=' || ch == '.' || ch == '-')*” {“ suggests anytime any of those characters are found in the text file the count will be increased.
    - In summary, the program is made to count and report the number of specific characters found in a given text file. This is not used at all by the test plan.
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### Notes on the **MatrixBBTest** class:

- The class contains a total of 124 lines and around 42 comments. The comments made it easier to follow the purpose of the code and the reasoning behind it.
  - The class contains no attributes and 4 “*@Test*” methods that make use of the JUnit testing framework.
  - There was a compile time error where the class “*Matrix*” was missing from the imports, or was not provided in the other classes at all.
  - One of the methods made use of a generic sorting function, not the sortTable method described in the test plan. This method sorted a “*Matrix*” object not a “*Table*” object.
  - All of the tests were hardcoded into the code, for example, a method created an expected matrix and an unsorted matrix then sorted the unsorted matrix (with the generic sorting method described before) and made use of the “*assertMatrixEqualsMethod*” testing method.
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In summary, both classes are incompatible with the test plan. The only way to properly use it according to the test plan, would be to implement major fixes. These fixes would require to modify around 80% or the existing code. At which point would be essentially replacing most of the code provided.